

# TCPWave RestAPI Store

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  - 4.114.3. List the Response Policy Zone (RPZ) rules files. The example listed below shows a sample request URL:  
/rest/rpz/policy/fileslist
  - 4.114.4. List the Response Policy Zone (RPZ) rules from the temporary table. The example listed below shows a sample request URL: /rest/rpz/policy/getpolicyfilerules?page=1&rows=2
  - 4.114.5. Load the Response Policy Zone(RPZ) policy rules from specified file into the temporary table. The example listed below shows a sample request URL: /rest/rpz/policy/loadpolicyfilerules?policyFile=testfile
  - 4.114.6. Import the Response Policy Zone (RPZ) policy rules file.
  - 4.114.7. Download the Response Policy Zone (RPZ) rules file.

- 4.114.8. Validate the RPZ rules in the file.
- 4.114.9. Delete the Response Zone Policy(RPZ) rules file Below example shows sample request JSON: { "policy\_trigger":"yahoo1.com", "policy\_rr":"CNAME", "policy\_rhvalue":"xen.tcpwave.com." }
- 4.114.10. Reset the exclusive edit mode lock. The example listed below shows a sample request URL: /rest/rpz/policy/reseteditmode
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- 6. TCPWave IPAM Error Codes

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## 1. Overview

This API Calls allows the user with the appropriate privileges to add a network to the TCPWave IPAM. The parameters, parameter types, and the data types of the REST call are shown below. Execution of this REST call is audited by the TCPWave IPAM. Customers are advised to execute this REST API call in a non production environment before attempting to execute it in a production environment.

### 1.1. Version information

*Version* : 11.33P1

February 23, 2023

### 1.2. URI scheme

*BasePath* : /tims/rest

*Schemes* : HTTPS

### 1.3. Tags

- Microsoft AD sites Service
- Autonomous System Number Service
- Advanced Threat Intelligence Snapshot Dashboard Service
- Acl Service
- Active Directory Service
- Admin Group Service
- Admin Preference Service
- Administrator Roles Service
- Alarm Subscription Service
- Algorithm Service
- Appliance Group Service
- Asset Service
- Audit data Backup Files Service
- Audit Report Service
- Audit Logs and License Information
- Authentication Configuration Service
- Authentication Permission Service
- Authentication Token management
- Authentication Type
- Authorization Information
- Bookmark Service
- Capacity Planning Dashboard Service
- Central Logging Service
- Certificate Management Service
- Chart Service
- Checkouts Service Details
- Class Code Logo Service
- Class Code Service
- Cloud Instance Service
- Cloud DNS Provider Service
- Cloud Network Service
- Contact Service
- Contingency Service Details
- Custom Dashboard Service
- Database Service
- DHCP Active Lease Service
- DHCP Class Service
- DHCP Defaults Service
- DHCP Failover Service
- DHCP option space
- DHCP Appliance Service
- DNS Analytics Service
- DNS Defaults Service
- DNS External Root Hints Service
- DNS Forwarders Service
- DNS Appliance Service
- DNS Appliance Template Service

- DNS Tools Service
- DNSViz Service
- Template Service
- Discovery Engine Dashboard Service
- Discovery Agent Command Service
- Discovery Agent Service
- Switch Discovery Details Service
- Discovery Appliance Service
- Device Discovery Details Service
- Discovery Event Service
- Discovery Service
- Discovery Template Service
- Domain Service
- Dropdown Service
- Export Compliance Management Service
- Export Service
- Non-Managed DNS Masters Service
- Non-Managed DNS Zones Service
- File Distribution Management Service
- File Upload Service
- Firewall Service
- DNS Flatten Record Service
- Function Service
- Global Options Service
- Hierarchy Service
- History Tab Service
- Home Service
- Host Naming Policy
- IPAM Appliance Service
- IPAM Template Service
- IPAM Version Service
- IPV6 DHCP Appliance Service
- IPV6 DNS Appliance Service
- IPV6 Scope Service
- IPV6 Template Service
- IPV6 Block Service
- IPV6 Object Service
- IPv6 Policy Compliance Service Details
- IPV6 Pool Service
- Reverse Zone Service
- IPV6 Subnet Group Service
- IPV6 Subnet Service
- iDRAC Management Service
- Import Cloud Service
- Import Service
- Internet Root Hints Service
- Location Service
- Log Category Service
- Log Channel Service
- Manage Appliance Services
- Microsoft DNS Charts
- Mirrored Zone Service
- Monitor Service
- Message Certificate Management Service
- Network Security Monitoring Service
- Network Service
- Firmware Patch Service
- Object Service
- Organization ImportExport Service
- Organization Service
- Params Service

- Query Alternate Resolver Service
- Quick Move Service
- RPZ Service
- Role Service
- Root Access Management Service
- Router Subnet Service
- Scheduler related calls Service
- Scheduled Job Executor Status Service
- Scheduled Job Service
- Schedule Handler Service
- Scheduled Audit Report Service
- Scope Service
- Search Service
- Security Group Service
- Server License Service
- Server Service
- Appliance Sync Status Service
- Subnet Group Service
- Subnet Service
- Subnet Template Service
- DNS TSIG (Transaction Signatures) Keys Service
- Threat Intelligent Widget Service
- Time Zone Service
- UndoData Service
- User Certificate Service
- User Service
- IPv6 Audit Report Service
- IPv6 IPAM Template Service
- Microsoft DHCP Appliance Service
- Microsoft DNS Appliance Service
- View Service
- Widget Service
- Microsoft DHCP Exclusion range Service
- Workflow Handler Service
- Xtn Service
- Zone Service
- VMWare Discovery Details Service
- IPv6 Subnet Template Service
- SLB Advanced RuleSet Service
- GSLB Traffic Control RuleSet Service
- SLB Traffic Control Rule Service
- ADC Appliance Service
- SLB Appliance Template Service
- SLB Backend Service
- SLB Frontend Service
- SLB Option Template Service
- SLB Response Page Service

---

## 2. Authentication

The GUI and CLI users are subjected to authentication checks and their sessions are associated with the credentials that are used by the system to provide fine-grained authorization to various resources in the system. TIMS secures the access to the system from other tools using REST API directly by using long-lived security tokens for authentication and authorization. These tokens are associated with a client (Admin, and IP/Host), and credentials (Role). TIMS ensures same authorization checks are employed for these clients as the CLI and GUI clients.

The token generation interface can be invoked by any Admin to generate a new token that is valid for the period as defined by the system (default 60 days) from a given client machine (IP/Host). The generated token can be used from the same system and the Admin's credentials are applied to the API calls invoked with that token.

Example invocation of token generation interface using curl –

```
curl -H "Content-Type: application/json" -d '{"ip":"10.10.10.237","application":"tims","description":"Test"}'
'https://example.com:7443/tims/rest/auth_token/get'
```

Certificate Authentication - To enable a SSL connection the TCPWave IPAM management appliance needs to have a Digital Certificate which will allow the remote TCPWave DNS/DHCP appliances or the web browser or a third-party automation system to trust the authenticity of the management. The DNS and DHCP transactions for configuration management, statistics, patches, RESTAPI calls from a home-grown automation system or a third party automated system, or a browser session that wants to send an encrypted message apply for a Digital Certificate from the Certificate Authority (CA). The CA validates the application owner details and other identification details and issues a digital certificate. In Public Key Infrastructure (PKI) scheme a digital certificate is issued by a CA and it contains Distinguished Name(DN) /owner's name/ subject, a serial number to uniquely identify the certificate, owner's public key, issuing date, expiry date, Distinguished name of the CA, digital signature of the issuing authority (CA), signature algorithm which is used to create the signature. Digital certificates issued by the CA can be kept in registries so that the authenticating users can use the owner's public key. The TCPWave IPAM ensures that secure communication takes place seamlessly and it also ensures that the SSL certificates do not expire. The TCPWave IPAM monitoring engine checks the expiration time of the SSL certificates and initiates the alerting mechanism if any SSL certificate is about to expire.

---

### 3. Enabling Rest Access

To generate an authentication token in the TCPWave IPAM, login to the TCPWave IPAM GUI and go to Session Tokens Management page by clicking on the Security Administration menu item in the Administration menu located at the top section the IPAM Interface. The Security Administration page is divided into two panes. The left pane consists of the menu items under the Administration menu including links to the Security Administration Tools. The Right pane displays the current view selected in the left pane. Click on the Session Tokens Management link to display the Session Tokens view in the right pane.

The Session Management grid displays the list of Session Tokens in the TCPWave IPAM. The grid also includes Session Token details like session token name, IP address, application, active, admin, generated from IP address, generated date and description.

To generate a new session token:

1. Click on the Add button located on the top left corner of the session tokens grid.
2. Generate Session Token window will appear
3. Enter the Application name
4. Enter the IP address
5. Optionally enter the description
6. Click on OK

Following are the examples to invoke REST API in the TCPWave IPAM.

#### Node based REST API invocation using client.js script file:

Each REST call is provided as an executable command file.

For example, addorg.cmd file as the information related to creation of an Organization.

```
$ cat addorg.cmd
{
  "method":"POST",
  "url":"/organization/add",
  "data":
  {
    "name": "QAOrg",
    "description": "QAOrg organization"
  },
  "enable_root_zone": 1
}
```

TCPWave IPAM follows the same structure for all the cmd files. "method" can take POST/GET, "url" is the variable portion of our REST API URL, and for POST commands "data" contains the JSON Body.

client.js takes the cmd file as an argument and executes the REST API defined in it. The "options" structure in the client.js contains the host and port information.

The client.js file will be provided to customers on request.

#### CURL commands based REST API invocation:

Once the certificate validation is done at IPAM customers can use CURL commands to execute the REST calls and communicate with TCPWave IPAM.

For example, /network/add can be invoked using curl command.

```
curl -k -H "Content-Type:application/json" --cert 10.1.10.7.pem --key 10.1.10.7.key
https://10.1.10.2:7443/tims/rest/network/add -X POST -d
{"addr1":"20","addr2":"0","addr3":"0","addr4":"0","mask_length":"16","organization_name":"Internal","name":"taiho","dmzVisible":"0",
"description":""}
```

The -k option is to disable server cert validation on the client side. We can always import the IPAM cert into the curl key store and remove that flag.

---

## 4. Resources

### 4.1. ADC Appliance Service

#### 4.1.1. SLB Appliance Add

```
POST /slbAppliance/add
```

##### Description

Creates ADC appliance in TCPWave IPAM.





```
GET /slbAppliance/checkGslbIP
```

### Description

This operation retrieves the list of all the associated gslb rules to the specified ADC appliance.

The following example shows a sample request URL:

```
/rest/slbAppliance/checkGslbIP?ip=10.1.0.0
```

### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>required</i>	Appliance IP address	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	string

### Consumes

- application/json
- application/xml
- text/plain

### Produces

- application/json
- application/xml
- text/plain

#### 4.1.4. Delete ADC appliance

```
POST /slbAppliance/delete
```

### Description

Checks the referential integrity checks and deletes the appliance that are not referenced with any ADC front-end.

The following example shows a sample request URL

```
/rest/slbAppliance/delete?v4_ipaddress=10.1.0.3&organizationName=Internal
```

### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizationName</b> <i>required</i>	Organization Name	string	
Query	<b>v4_ipaddress</b> <i>required</i>	Appliance address	string	

### Responses

HTTP Code	Description	Schema
500	TIMS-4402: SLB Backend does not exist with name:south_zone_hosts in organization: Internal.	No Content

### Consumes

- application/json
- application/xml

### Produces

- application/json
- application/xml

#### 4.1.5. SLB Appliance Update

```
POST /slbAppliance/edit
```

### Description

Updates ADC appliance defined in TCPWave IPAM.

Below example shows sample request JSON:

```
{ "organization_name": "Internal", "v4_ipaddress": "10.1.0.3", "name": "TCPWave00011Remote", "domain_name": "tcpwave.com", "timeZone": "GMT (GMT)", "slbApplianceTemplate": "SLBApplianceTemp", "gslb_option_template": "SLBOptionTemp", "description": "", "monitoringService": true, "gslbConfig": null, "ba default value of Banner configuration for DNS and DHCP appliances.", "enableSNMPv3": false, "resolverData": {"ns1": "", "ns2": "", "ns3": "", "ns4": "", "single_request": null, "search1": "", "search2": "", "search3": "", "search4": "", "search5": "", "search6": "", "custom_resolv_params": ""}, {"for_1min": "4", "for_5min": "2", "for_user": "70", "for_system": "30", "for_wait": "20", "system_memory_usage": "75"}, {"ldapSSHConfig": {"enable": false}}, {"syslogNgConfig": {"globalOptions": {"timewaitdead": "60", "timetoidle": "60", "messagetoBuffer": "60", "twstatic": "600", "noofMsg": "1000", "maxSize": "65536", "logtime": "true"}, {"sourcesData": [{"name": "s_sys", "allSources": [{"type": "internal"}, {"type": "system"}]}, {"sourceTypes": "internal, system"}]}, {"filtersData": [{"name": "f_default", "condition": "level(info..emerg) and not (facility(mail) or facility(authpriv) or facility(cron))", "category": "complex"}, {"name": "f_cron", "condition": "facility(cron)", "category": "complex"}, {"destinationData": [{"name": "d_mesg", "typeSNG": "File", "logDestGivenValSNG": "/var/log/messages", "syncAfterEachMsg": false}, {"name": "d_cron", "typeSNG": "File", "logDestGivenValSNG": "/var/log/cron", "syncAfterEachMsg": false}], "targetsData":
```

```
{
  "source": "s_sys",
  "logdestination": "d_mesg",
  "filter": "f_default",
  "idracSnmpCommunity": "l",
  "syncStatus": "0",
  "discoveryConfig": {
    "enable": false,
    "rtTablesJson": "l",
    "routingType": "none",
    "no@@-@-@-@",
    "snmpAcl": "",
    "frontEndList": [],
    "gslbRuleList": [],
    "nicsConfig": {
      "nics": [],
      "syncStatus": "0",
      "discoveryConfig": {
        "enable": false,
        "rtTablesJson": "l",
        "routingType": "none"
      }
    }
  }
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">SLBAppliance</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-4401: SLB appliance already exists with same name:SouthZoneWebApplications	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.1.6. SLB appliance update

```
POST /slbAppliance/editbgpcfg
```

#### Description

Updates ADC appliance defined in TCPWave IPAM.

The following example shows a sample request URL

```
/rest/slbAppliance/editbgpcfg?serverAddress=10.1.0.3&organizationName=Internal&networkList=192.168.0.16/32
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>networkList</b> <i>required</i>	List Of BGP Network To Add	string	
Query	<b>networkdeleteList</b> <i>optional</i>	List Of BGP Network To Delete	string	
Query	<b>organizationName</b> <i>required</i>	Organization Name	string	
Query	<b>serverAddress</b> <i>required</i>	ADC Appliance IP Address	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-4401: SLB appliance already exists with same name:SouthZoneWebApplications	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.1.7. Generate Configuration

```
GET /slbAppliance/genconfig
```

#### Description

From the data repository, a list of configuration files is generated and various data integrity checks are done. The files are securely transferred to the GSLB appliance.

The example listed below shows a sample request URL:

```
/rest/slbAppliance/genconfig?address=10.0.0.2&organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	

## Responses

HTTP Code	Description	Schema
500	7003 = TIMS-7003: The user is not authorized to perform this operation.	No Content

## Consumes

- application/json
- application/xml
- text/plain

## Produces

- application/json
- application/xml
- text/plain

### 4.1.8. SLB Appliance Statistics

```
GET /slbAppliance/getBackEnds
```

## Description

Displays the SLB Backends of ADC Appliances

The example listed below shows a sample request URL:

/rest/slbAppliance/getBackEnds?orgName=Internal&address=10.1.0.3

## Parameters

Type	Name	Description	Schema	Default
Query	address <i>required</i>	Appliance IP	string	
Query	orgName <i>required</i>	Organization Name	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">SLBBackEndConfig</a> > array
500		No Content

## Consumes

- text/plain

## Produces

- application/json
- text/plain
- application/xml

### 4.1.9. Gets Heap Size Setting

```
GET /slbAppliance/getCurrentHeapSize
```

## Description

Gets the current server heap size setting on the SLB/GSLB appliances managed by TCPWave IPAM.

Below example shows sample request:

/rest/slbAppliance/getCurrentHeapSize?ipaddress=10.1.10.10&type=SLB/GSLB

## Parameters

Type	Name	Description	Schema	Default
Query	ipaddress <i>required</i>	IP Address	string	
Query	type <i>required</i>	Appliance Type	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3088: Server IP address is null	No Content

## Consumes

- application/json
- application/xml

## Produces

- text/plain

- application/json
- application/xml

#### 4.1.10. SLB Appliance Statistics

```
GET /slbAppliance/getFrontEnds
```

##### Description

Displays the SLB Frontends of ADC Appliances

The example listed below shows a sample request URL:

```
/rest/slbAppliance/getFrontEnds?orgName=Internal&address=10.1.0.3
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">SLBFrontEndBasicProperties</a> > array
500		No Content

##### Consumes

- text/plain

##### Produces

- application/json
- text/plain
- application/xml

#### 4.1.11. SLb appliance front end association list

```
GET /slbAppliance/getGslbRuleReferences
```

##### Description

This operation retrieves the list of all the associated gslb rules to the specified ADC appliance.

The following example shows a sample request URL:

```
/rest/slbAppliance/getGslbRuleReferences?organization_name=Internal&address=10.1.0.3
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP address	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< string, < <a href="#">GSLBTrafficControlRules</a> > array > map

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.1.12. SLB Appliance Last Sync Status

```
GET /slbAppliance/getLastSync
```

##### Description

Displays the last sync status of ADC Appliances

The example listed below shows a sample request URL:

```
/rest/slbAppliance/getLastSync?orgName=Internal&applianceIp=10.1.0.3
```

##### Parameters

Type	Name	Description	Schema	Default

Type	Name	Description	Schema	Default
Query	<b>applianceIp</b> <i>required</i>	Appliance IP Address	string	
Query	<b>orgName</b> <i>required</i>	organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Last sync status</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.1.13. Remote Logs

```
GET /slbAppliance/getLogs
```

#### Description

Gets the logs related data from IPAM and Remote appliances.

The example listed below shows a sample request URL:

```
/rest/slbAppliance/getLogs?
```

```
applianceIp=1.0.0.8&applianceName=test&applianceType=DNS/DHCP/SLB&applianceCode=12&argc=0&start=0&length=20&logstart=2020-10-09&logend=2020-10-10
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>applianceCode</b> <i>required</i>	Appliance code	string	
Query	<b>applianceIp</b> <i>required</i>	Appliances ip	string	
Query	<b>applianceName</b> <i>required</i>	Appliances name	string	
Query	<b>applianceType</b> <i>required</i>	Appliance type	string	
Query	<b>argc</b> <i>required</i>	argc	integer(int32)	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>logend</b> <i>required</i>	Log end Date	string	
Query	<b>logstart</b> <i>required</i>	Log Start Date	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>start</b> <i>required</i>	Starting IPV4 Network Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListLogs Information</a>
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.1.14. Monit RC Params of ADC appliance

```
GET /slbAppliance/getMRCParams
```

##### Description

The following example shows a sample request URL  
/rest/slbAppliance/getMRCParams?applianceIp=10.1.0.3

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>applianceIp</b> <i>required</i>	Appliance IP	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">MonitRCParams</a>
500	TIMS-3051: Appliance address cannot be null.	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.1.15. Remote server versions

```
GET /slbAppliance/getRemoteVersions
```

##### Description

Displays the remote DNS and DHCP server versions  
The example listed below shows a sample request URL:  
/rest/home/getRemoteVersions?organizations=Internal

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization List	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Server Entity Version</a> > array
500		No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.1.16. SLB Appliance Statistics

```
GET /slbAppliance/getStatsHtml
```

##### Description

Displays the statistics of ADC Appliances  
The example listed below shows a sample request URL:  
/rest/slbAppliance/getStatsHtml?orgName=Internal&address=10.1.0.3

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	string
500		No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.1.17. View Configuration of GSLB Appliance

```
GET /slbAppliance/gslb/config/download
```

#### Description

View the configuration file for the specified DNS Appliance in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/slbAppliance/gslb/config/download?address=10.1.0.3&name=TCPWave00011Remote&organizationName=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>name</b> <i>required</i>	GSLB Appliance Name	string	
Query	<b>organizationName</b> <i>required</i>	Appliance Organization name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.1.18. Generate Configuration for GSLB Appliance

```
POST /slbAppliance/gslb/sync
```

#### Description

From the data repository, a list of configuration files is generated and various data integrity checks are done. The files are securely transferred to the GSLB appliance.

The example listed below shows a sample request URL:

```
{{"name":"TCPWave00011Remote","organization_name":"Internal","v4_ipaddress":"10.1.0.3"}}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	GSLB Appliance List	< <a href="#">SLBAppliance</a> > array	

#### Responses

HTTP Code	Description	Schema
500	7003 = TIMS-7003: The user is not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.1.19. Appliance Heartbeat Check

```
GET /slbAppliance/heartbeat
```

#### Description

Checks the heartbeat for the specified Appliance. Performs a check if the remote ADC Appliance is having a heartbeat communication with the management Appliance.

The example listed below shows a sample request URL:



## Parameters

Type	Name	Description	Schema	Default
Query	<b>applianceIp</b> <i>required</i>	Appliance IP Address	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	boolean
500	TIMS-3088: Appliance IP address is null TIMS-8230: Appliance type is null.	No Content

## Consumes

- text/plain

## Produces

- application/json
- application/xml
- text/plain

## 4.1.20. Add Notification for ADC Appliance

```
POST /slbAppliance/notification/add
```

## Description

Creates notification for ADC Appliances

The example listed below shows a sample request URL:

```
"Notifications": {
"output": "CRITICAL - Secure communication between the IPAM and the remote ADC appliance is not operational.",
"category": "GSLB_HEART_BEAT",
"service": "",
"SLB_HEART_BEAT": "",
"hostName": "TCPWave00002Remote.test.com",
"timeout_check": "",
"hostAddress": "",
"maximum_connections": "",
"hostType": "",
"timeout_connect": "",
"status": "",
"timeout_client": ""
}
```

## Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Add Notification	<a href="#">Notification Details</a>	

## Responses

HTTP Code	Description	Schema
default	successful operation	No Content

## Consumes

- application/json
- text/plain

## Produces

- application/json
- text/plain

## 4.1.21. Delete Notification for ADC Appliance

```
POST /slbAppliance/notification/delete
```

## Description

Deletes notification for ADC Appliances

The example listed below shows a sample request URL:

```
"Notifications": {
"output": "CRITICAL - Secure communication between the IPAM and the remote ADC appliance is not operational.",
"category": "GSLB_HEART_BEAT",
"service": "",
"SLB_HEART_BEAT": "",
"hostName": "TCPWave00002Remote.test.com",
"timeout_check": "",
"hostAddress": "",
"maximum_connections": "",
```

```

"hostType": "",
"timeout_connect": "",
"status": "",
"timeout_client": ""
}

```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Delete Notification	<a href="#">Notification Details</a>	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- text/plain
- application/xml

#### Produces

- application/json
- text/plain
- application/xml

#### 4.1.22. SLB Appliance paginated list

```
GET /slbAppliance/page
```

#### Description

Obtains a list of all the SLB appliances information defined and managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/slbAppliance/page?start=1&length=20&orgString=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>customFilterRules</b> <i>optional</i>	Custom Filter String	string	
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>orgString</b> <i>optional</i>	Organization list	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSLBAppliance</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.1.23. SLb appliance front end association list

```
GET /slbAppliance/ref-front-end-list
```

#### Description

This operation retrieves the list of all the associated gslb rules to the specified ADC appliance.

The following example shows a sample request URL:

/rest/slbAppliance/ref-front-end-list?organization\_name=Internal&address=10.1.0.3

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP address	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< string, < <a href="#">SLBFrontEndBasicProperties</a> > array > map

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.1.24. Restart SLB/GSLB service

```
POST /slbAppliance/restart
```

#### Description

Restarts the SLB/GSLB services of ADC appliances managed by TCPWave IPAM.

Below example shows sample request JSON:

```
{"v4_ipaddress":"10.1.10.10","server_type":"SLB"}
```

/rest/slbAppliance/restart

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	ADC Appliance	<a href="#">SLBAppliance</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	boolean
500	TIMS-3088: Server IP address is null	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- text/plain
- application/json
- application/xml

#### 4.1.25. Appliance Configuration

```
GET /slbAppliance/server-configuration
```

#### Description

This operation retrieves the ADC appliance configuration of a given object address in the TCPWave IPAM.

The following example shows a sample request URL

/rest/slbAppliance/server-configuration?

v4\_ipaddress=10.1.0.3&ApplianceName=TCPWave00011Remote&organizationName=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ApplianceName</b> <i>required</i>	SLB Appliance Name	string	
Query	<b>organizationName</b> <i>required</i>	Organization Name	string	
Query	<b>v4_ipaddress</b> <i>required</i>	SLB Appliance IP Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">SLBAppliance</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.1.26. View Configuration of ADC Appliance

```
GET /slbAppliance/slb/config/download
```

#### Description

View the configuration file for the specified DNS Appliance in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/slbAppliance/slb/config/download?address=10.1.0.3&name=TCPWave00011Remote&organizationName=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>name</b> <i>required</i>	SLB Appliance Name	string	
Query	<b>organizationName</b> <i>required</i>	Appliance Organization name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.1.27. Updates Heartbeat of the GSLB Appliance

```
GET /slbAppliance/update_heartbeat
```

#### Description

Updates Heartbeat for the GSLB Appliance present in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/slbAppliance/update_heartbeat?applianceIp=10.1.0.3&orgName=Internal&status=alive
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>applianceIp</b> <i>required</i>	Appliance IP	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Query	<b>status</b> <i>required</i>	Heartbeat Status	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1916: Organization name cannot be null. TIMS-1352: Organization does not exist: {0}, TIMS-14000: Remote appliance is not valid: {0}, TIMS-3051: Appliance address cannot be null.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

## 4.2. Acl Service

### Description

This service provides API's to get list of Access Control List(ACL) present in the TCPWave IPAM, add Access Control List(ACL) , update Access Control List(ACL), delete Access Control List(ACL), search for an Access Control List(ACL) in the TCPWave IPAM.

#### 4.2.1. ACL create

```
POST /acls/create
```

### Description

This operation creates a new ACL in the TCPWave IPAM. This list controls DNS behavior when applied to the Allow-Notify, Allow-Query, Allow-Transfer, etc. If TCPWave IPAM does not manage the object(s) or subnet(s), or network(s), then the system restricts from creating the ACL.

Sample payload with mandatory parameters to add an ACL is listed below.

```
{"aclElementList":[{"exclude":0,"value":"10.2.3.5"},"name":"test-client"]}
```

### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	ACL details	<a href="#">Access Control List(ACL)</a>	

### Responses

HTTP Code	Description	Schema
500	TIMS-2002: ACL already exists, TIMS-2007: ACL name is not valid, TIMS-14049: Cannot create the ACL as managed object(s) or subnet(s) or network(s) with IP addresses <IP Address> are not available in IPAM, TIMS-2007: The ACL name is not valid : <ACL name>	No Content

### Consumes

- application/json
- application/xml

#### 4.2.2. Custom ACL List

```
GET /acls/customACLlist
```

### Description

Obtains the list of Access Control List(ACL) defined and managed by the TCPWave IPAM that do not have mask length in the value which are used to control the behavior of DNS when applied to the also-notify.

The example listed below shows a sample request URL:

```
/tims/rest/acls/customACLlist
```

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Access Control List(ACL)</a> > array
500	TIMS-2001: ACL(s) not found	No Content

### Produces

- application/json
- application/xml

#### 4.2.3. ACL details

```
GET /acls/get
```

### Description

This operation retrieves the details of specified ACLs defined and managed by the TCPWave IPAM, which controls DNS behavior when applied to the Allow-Notify, Allow-Query, Allow-Transfer, etc.

Example:

```
/tims/rest/acls/get?name=acl
```

### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	ACL Name	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Access Control List(ACL)</a>
500	TIMS-2001: ACL(s) not found	No Content

### Produces

- application/json
- application/xml

#### 4.2.4. ACL References

GET /acls/getreferences

##### Description

Provides the list references of ACL in Option Templates, Zone Templates and AD enabled Zones in the TCPWave IPAM which use specified Access Control List(ACL)

The example listed below shows a sample request URL:

/tims/rest/acls/getreferences?name=acl

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	ACL Name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< string, < string > array > map
500	TIMS-12004: ACL Reference(s) not found.	No Content

##### Produces

- application/json
- application/xml

#### 4.2.5. ACL list

GET /acls/list

##### Description

This operation retrieves the list of ACLs defined and managed by the TCPWave IPAM, which controls DNS behavior when applied to the Allow-Notify, Allow-Query, Allow-Transfer, etc.

Example:

/rest/acls/list?page=1&rows=20

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Access Control List(ACL)</a> > array
500	TIMS-2001: ACL(s) not found	No Content

##### Produces

- application/json
- application/xml

#### 4.2.6. ACL Delete Multiple

POST /acls/multidelete

##### Description

Deletes multiple existing Access Control Lists(ACLs) from the TCPWave IPAM data repository. This action is audited.

Below example shows sample request JSON: ["test-client"]

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of ACL names	< string > array	

##### Responses

HTTP Code	Description	Schema
500	TIMS-2001: ACL(s) not found, TIMS-1307: Root zone(s) does(do) not exist.	No Content

##### Consumes

- application/json
- application/xml

#### 4.2.7. ACL edit

POST /acls/update

##### Description

This operation updates an existing ACL in the TCPWave IPAM. If the TCPWave IPAM does not manage the object(s) or subnet(s), or network(s), then the system restricts from updating the ACL..

Example:

```
{
  "name": "test-client",
  "newName": "new-test-client",
  "description": "ACL updated on the TCPWave IPAM by Professional Services",
  "aclElementList": [
    {
      "value": "10.24.6.8",
      "sequence": "1",
      "exclude": "0"
    },
    {
      "value": "10.24.6.9",
      "sequence": "2",
      "exclude": "0"
    },
    {
      "value": "10.24.11.9",
      "sequence": "3",
      "exclude": "0"
    },
    {
      "value": "10.24.15.8",
      "sequence": "4",
      "exclude": "0"
    },
    {
      "value": "10.1.1.1",
      "sequence": "5",
      "exclude": "0"
    }
  ],
  "refAclName": "localnets",
  "sequence": "6",
  "exclude": "0"
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	ACL details	<a href="#">Access Control List(ACL)</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-2001: ACL(s) not found, TIMS-2002: ACL already exists, TIMS-2006: ACL is not valid, TIMS-14050: Cannot update the ACL as managed object(s) or subnet(s) or network(s) with IP addresses {0} are not available in IPAM TIMS-1737: ACL object cannot be null.	No Content

#### Consumes

- `application/json`
- `application/xml`

### 4.3. Active Directory Service

#### Description

This service class provides REST API access to Create and Delete a mapping of existing Active Directory Domain Services (AD DS) User Principal Name (UPN) into the TCPWave IPAM.

#### 4.3.1. Authenticate Active Directory User

```
POST /activedirectory/authenticate
```

#### Description

Validates authentication between the TCPWave DNS and Active Directory Domain Services (AD DS) using Kerberos authentication to use the interoperability features provided by the Kerberos Key Distribution Center (KDC) service.

Below example shows sample request JSON:

```
{
  "service_type": "DNS",
  "principal_name": "DEV-DNSROOT-AUTH-001.plab.tcpwave.com",
  "principal_type": "KRB5_NT_PRINCIPAL",
  "realm": "TCPWAVE.COM",
  "dnsIp": "10.1.10.187",
  "encryption_type": "RC4-HMAC-NT",
  "dc_ip": "10.1.10.170"
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	ActiveDirectory details	<a href="#">Active Directory</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-1207: Please select an Active Directory user principal name (UPN) for authentication,	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `text/plain`

#### 4.3.2. Active Directory User Delete

```
POST /activedirectory/delete
```

#### Description

Removes mapping of existing Active Directory Domain Services (AD DS) User Principal Name (UPN) from the TCPWave IPAM. Below is the example

```
{
  "dnsIp": "192.168.0.215",
  "encryption_type": "RC4-HMAC-NT",
  "id": 8,
  "principal_name": "TCPWave00001Remote.domain.com",
  "principal_type": "KRB5_NT_PRINCIPAL",
  "realm": "DOMAIN.COM",
  "service_type": "LOCAL"
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of ActiveDirectory details	< <a href="#">Active Directory</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation TIMS-1203: Please select an Active Directory user principal (UPN) name to delete.	No Content

#### Consumes

- application/json
- application/xml

#### 4.3.3. Delete the keytab principals

```
POST /activedirectory/editKerberosConf
```

#### Description

Deletes the keytab principals from the Authoritative DNS Appliance.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>applianceIPs</b> <i>required</i>	DNS Appliance IP Addresses	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Body	<b>body</b> <i>optional</i>		<a href="#">ADKerberosConfig</a>	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.3.4. Active Directory Kerberos Configuration Details

```
GET /activedirectory/getkerberosconf
```

#### Description

Obtains the details of Kerberos configuration from the Authoritative DNS Appliance.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>applianceIPs</b> <i>required</i>	DNS Appliance IP Addresses	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">ADKerberosConfig</a>

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.3.5. Active Directory User Add

```
POST /activedirectory/useradd
```



#### Description

Creates a mapping of existing Active Directory Domain Services (AD DS) to User Principal Name (UPN) into the TCPWave IPAM. A UPN is the name of a system user in an e-mail address format. Example:

[username@user.associated.internet.domain](#).

Below example shows sample request JSON:

```
{ "dc_ip": "10.1.1.2.3", "dnsDomainName": "test.tcpwave.net", "dnsIp": "10.1.2.4", "dnsServerName": "server1", "encryption_type": "RC4-HMAC-NT", "file_data": "File
```

```
Data", "file_name": "filename", "principal_name": "server1@domain.com", "principal_type": "KRB5_NT_PRINCIPAL", "realm": "TCPWAVE.COM", "service_type": "Serve
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Active Directory</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation, TIMS-1312: Duplicate entry.	No Content

#### Consumes

- `application/json`
- `application/xml`
- `multipart/form-data`

#### 4.3.6. Active Directory User list

```
GET /activedirectory/userlist
```

#### Description

Obtains a list of Active Directory Domain Services (AD DS) User Principal Name (UPN) which Obtains a List of all permissions associated with a given admin group. Functional Admin can list the permissions of any admin group. Rest of the Admins are restricted to the admin groups that belong to their organization. A UPN is the name of a system user in an e-mail address format. Example: [username@user.associated.internet.domain](#).

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>applianceName</b> <i>required</i>	Appliance Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Active Directory</a> > array

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

#### 4.4. Admin Group Service

##### Description

This service provides API access to perform admin group operations. Operations include add an admin group, update an admin group, list admin group, delete an admin group, retrieve admin group permissions and update admin group permissions.

##### 4.4.1. Admin Group Add

```
POST /admingroup/add
```

##### Description

This operation creates a new admin group. Functional and User admins have the privilege to create admin groups in any organization. The super admins can create only in the organization that they belong.

Example:

```
{ "name": "QA Admin group", "description": "Admin group" "addedRoles": [ { "organization_name": "Internal", "name": "SADM" } ] }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Admin Group</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1101: Cannot find organization, TIMS-1100: Both organization name and id cannot be null, TIMS-1401: Admin group already defined	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.4.2. Admin Group Delete

POST /admingroup/delete

#### Description

This operation deletes an existing admin group. Functional and User admins have the privilege to delete an admin group belonging to any organization.

Example:

/rest/admingroup/delete?name=adminGroupName

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>id</b> <i>optional</i>	Admin Group ID	integer(int32)	
Query	<b>name</b> <i>required</i>	Admin Group Name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1140: Both admin group id and name cannot be null, TIMS-1141: Admin group does not exist, TIMS-1143: Admin group cannot be deleted as it is associated with existing users.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.4.3. Admin Group Details

GET /admingroup/get

#### Description

This operation retrieves the details of the given admin group.

Example:

/rest/admingroup/get?admin\_group\_name=testAdmin

#### Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>	Session token for authorization	string	
Query	<b>admin_group_id</b> <i>optional</i>	Admin Group ID	integer(int32)	
Query	<b>admin_group_name</b> <i>required</i>	Admin Group Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Admin Group</a>
500	TIMS-1101: Cannot find organization.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.4.4. Admin Group list

```
GET /admingroup/list
```

##### Description

This operation displays the list of all admin groups defined and managed by the TCPWave IPAM.

Example:

```
/rest/admingroup/list?page=1&rows=20
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization Names	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Admin Group</a> > array

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.4.5. Admin Group List

```
GET /admingroup/list/admin
```

##### Description

This operation displays the list of all admin groups defined and managed by the TCPWave IPAM.

The following example shows a sample request URL:

```
/tims/rest/admingroup/list/admin
```

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Admin Group</a> > array

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.4.6. Organization List

```
GET /admingroup/list/adminroles
```

##### Description

This operation retrieves the list of admin roles associated with the given admin group(s).

The following example shows a sample request URL:

```
/rest/admingroup/list/adminroles?adminroles=1
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>group_id</b> <i>optional</i>	Admin Group ID	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">AdministratorRoles</a> > array

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.4.7. Organization List

```
GET /admingroup/list/org
```

#### Description

This operation retrieves the list of associated organizations with the given admin group(s).

The following example shows a sample request URL:

/tims/rest/admingroup/list/org?group\_id=1

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>group_id</b> <i>optional</i>	Admin Group ID	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Organization</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.4.8. Roles List

```
GET /admingroup/selectedroles
```

#### Description

This operation retrieves the list of roles associated with the given admin group .

The following example shows a sample request URL:

/tims/rest/admingroup/list/selectedroles?group\_name=groupName

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>group_name</b> <i>optional</i>		string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">AdministratorRoles</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.4.9. Admin Group Modify

```
POST /admingroup/update
```

#### Description

This operation updates an existing admin group. Functional and User admins have the privilege to edit an admin group belonging to any organization.

Example:

```
{ "name": "QA Admin group2", "description": "Admin group" "addedRoles": [{ "organization_name": "Internal", "name": "TestRole2"}] "oldName": "QA Admin group", "deletedRoles": [{ "organization_name": "Internal", "name": "TestRole1"}] }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Admin Group</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1101: Cannot find organization, TIMS-1100: Both organization name and id cannot be null, TIMS-1142: Admin group does not exist	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

### 4.5. Admin Preference Service

#### Description

This service provides the API to manage the Admin preferences in TCPWave IPAM.

#### 4.5.1. Admin Preference Details

```
GET /preference/deleteByID
```

#### Description

Delete the specified grid preferences.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>dtId</b> <i>required</i>	Datatable Id	string	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.5.2. Admin Preference Details

```
GET /preference/deleteByUser
```

#### Description

Delete the specified admin preferences.

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.5.3. Admin Preference Details

```
GET /preference/get
```

#### Description

Get the details of the specified admin preferences.  
The example listed below shows a sample request URL:  
`/rest/preference/get`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>dtId</b> <i>required</i>	Datatable Id	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">AdminPreference</a>
500		No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.5.4. Add/Update Admin Preference

POST /preference/update

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>		<a href="#">AdminPreference</a>	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

### 4.6. Administrator Roles Service

#### Description

This service provides APIs to add, edit, delete and get list of Administrator Roles in TCPWave IPAM.

#### 4.6.1. Add Administrator Role

POST /adminroles/add

#### Description

Creates a new administrator role in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "name": "roleName", "description": "new desc", "addedFunctions": [{"name": "Quick Tasks"}, {"name": "Appliance Groups"}]}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Administrator role.	<a href="#">AdministratorRoles</a>	

#### Responses

HTTP Code	Description	Schema
500	An Administrator role with the given name already exists.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.6.2. Administrator Role Delete

GET /adminroles/delete

#### Description

Deletes the Administrator role present in the TCPWave IPAM. Functional Admin and User Admins can delete an Appliance group in any organization. Other Admins can delete the Appliance groups belonging to their organization only.

The example listed below shows a sample request URL:

```
/rest/adminrole/delete?name=roleName
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Administrator role Name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-2051: Administrator role is not deleted as it is being used.	No Content

#### Consumes

- text/plain
- application/json

#### Produces

- application/json
- application/xml

#### 4.6.3. Administrator Get

```
GET /adminroles/get
```

#### Description

Get the details of the Administrator role defined in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/adminroles/get?name=roleName
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>optional</i>		string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">AdministratorRoles</a>
500	TIMS-1425: Both Role id and Role name cannot be null.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.6.4. List Administrator Roles

```
GET /adminroles/list
```

#### Description

Provides a list of Administrator roles present in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/adminroles/list?start=1&length=20
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>customFilterRules</b> <i>optional</i>	Custom Filter String	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Administrator roles Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAdministratorRoles</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.6.5. List Functions

```
GET /adminroles/listfunctions
```

#### Description

Provides a list of functions present in the TCPWave IPAM.  
The example listed below shows a sample request URL:  
`/rest/adminroles/listfunctions?start=1&length=20`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting functions Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListFunctions</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.6.6. Get List Of Functions Of A Role

```
GET /adminroles/listfunctionsdata
```

#### Description

Obtains a list of functions corresponding to a given role in the TCPWave IPAM  
The example listed below shows a sample request URL:  
`/rest/adminroles/listfunctionsdata?create=YES&default_role=TRUE`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Role Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Functions</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.6.7. Administrator Role Names List

```
GET /adminroles/listroles
```

#### Description

Obtains a list of Administrator Role names in the TCPWave IPAM  
The example listed below shows a sample request URL:  
`/rest/adminroles/listroles`

#### Responses



HTTP Code	Description	Schema
200	successful operation	< <a href="#">AdministratorRoles</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.6.8. Admin Role List

```
GET /adminroles/roles/list
```

#### Description

List all the admin roles. Lists all the possible Admin Roles in the system.  
The example listed below shows a sample request URL:  
rest/adminroles/roles/list

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>group_id</b> <i>optional</i>		string	
Query	<b>org_id</b> <i>optional</i>		integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Admin Role</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.6.9. Functions List

```
GET /adminroles/selectedfunctions
```

#### Description

List all the functions list for selected administrator roles .  
The example listed below shows a sample request URL:  
/rest/adminroles/selectedfunctions?role\_name=SADM

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>role_name</b> <i>optional</i>		string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Functions</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.6.10. Edit Administration Roles

```
POST /adminroles/update
```

#### Description

Updates an existing administration role in the TCPWave IPAM. Functional and Super Admins can edit an Appliance group in any organization.

Below example shows sample request JSON:

```
{ "name": "roleName", "description": "new desc", "addedFunctions": [{"name": "Quick Tasks"}, {"name": "Appliance
```

Groups"]]"deletedFunctions":[{"name":"DNS Domains"},{"name":"Appliance Groups"}]}

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>optional</i>		string	
Body	<b>body</b> <i>required</i>	Administrator roles.	<a href="#">AdministratorRoles</a>	

#### Responses

HTTP Code	Description	Schema
500	An administration role with the given name already exists.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

## 4.7. Advanced Threat Intelligence Snapshot Dashboard Service

### 4.7.1. Lists DNS Query Rate By Zone

```
GET /atis/dnsqueryratebyzone
```

#### Description

Provides details of DNS Query Rate By Zone details Bar chart in the ATIS Dashboard.

Below are the sample query parameter values accepted:

/tims/rest/reports/dnsqueryratebymember?organizations=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>required</i>	Organizations	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">ForwardZonesCount</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

## 4.8. Alarm Subscription Service

### 4.8.1. Add Alarm Subscriptions

```
POST /alarmSubscription/add
```

#### Description

Create alarm subscriptions in the TCPWave IPAM. Alarm Subscriptions are used to send email notifications to the subscribed users in the TCPWave IPAM.

Below example shows sample request JSON:

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>	Subscription List	< <a href="#">Alarm Subscription</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation,TIMS-8338: Alarm Subscription does not exist,8339 = TIMS-8339: Alarm Component type does not exist,8340 = TIMS-8340: Monitoring threshold does not exist.	No Content

#### Consumes

- application/json

- application/xml

#### 4.8.2. Threshold Category List

```
GET /alarmSubscription/categoryList
```

##### Description

Obtains a list of monitored service categories to subscribe for email notifications in the TCPWave IPAM.

Below example shows sample request URL:

```
/rest/alarmSubscription/categoryList
```

##### Responses

HTTP Code	Description	Schema
200	successful operation	< string > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.8.3. List Alarm Subscription Components

```
GET /alarmSubscription/componentList
```

##### Description

Obtains a list of components such as Network, Subnet, Zone, IPAM etc for the given monitoring services in the TCPWave IPAM.

Below example shows sample request URL:

```
/rest/alarmSubscription/componentList?serviceList=TCPWAVE_NTP,CHECK_SSH&orgName=TCPWave
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>orgName</b> <i>required</i>	Organization name	string	
Query	<b>serviceList</b> <i>required</i>	Comma separated list of monitoring services	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Appliance Group Range	integer(int32)	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListComponent</a>
500	TIMS-7003: You are not authorized to perform this operation	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.8.4. Delete Alarm Subscriptions

```
POST /alarmSubscription/delete
```

##### Description

Delete alarm subscriptions from the TCPWave IPAM. Alarm Subscriptions are used to send email notifications to the subscribed users in the TCPWave IPAM.

Below example shows sample request JSON:

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of alarm subscriptions	< <a href="#">Alarm Subscription</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation,TIMS-8338: Alarm Subscription does not exist,8339 = TIMS-8339: Alarm Component type does not exist.	No Content

#### Consumes

- `application/json`
- `application/xml`

#### 4.8.5. Subscription List

```
GET /alarmSubscription/list
```

#### Description

Provides the list of all available subscriptions in the TCPWave IPAM. Subscriptions are used to send email notifications to the subscribed users in the TCPWave IPAM.

Below examples shows sample request URLs:

```
/rest/alarmSubscription/list?organizations=Internal&start=0&length=20
```

```
/rest/alarmSubscription/list?organizations=Internal&length=1
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organizations	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Appliance Group Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAlarm Subscription</a>
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.8.6. List Monitoring Services

```
GET /alarmSubscription/thresholdList
```

#### Description

Obtains a list of monitoring services for the given category to subscribe for alarm notifications in the TCPWave IPAM.

Below example shows sample request URL:

```
/rest/alarmSubscription/thresholdList?category=Appliance Components
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>category</b> <i>required</i>	Category	string	

#### Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Monitor Information</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.9. Algorithm Service

#### Description

This service provides API's to get list of Algorithm present in the TCPWave IPAM and list of Transaction SIGNature(TSIG)Algorithm in the TCPWave IPAM.

#### 4.9.1. Algorithm List

```
GET /algo/list
```

#### Description

Obtains a list of valid DNS signing algorithms in the TCPWave IPAM.

The example listed below shows a sample request URL:  
rest/algo/list

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Algorithm</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.9.2. Algorithm TSIG List

```
GET /algo/tsiglist
```

#### Description

Obtains a list of Transaction Signature(TSIG) key algorithms supported by the TCPWave IPAM.

The example listed below shows a sample request URL:  
rest/algo/tsiglist

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Algorithm</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.10. Appliance Group Service

#### Description

This service provides API access to perform appliance group related operations like add, edit and delete.

#### 4.10.1. Add Appliance Group

```
POST /appliancegroup/add
```

#### Description

Creates a new appliance group in the TCPWave IPAM. Functional admins can add an appliance group in any organization. Super admins can add an appliance group in their own organization only.

Below example shows sample request JSON:

```
{ "name": "applianceGroupName", "organization_name": "Internal", "description": "Appliance group" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Group of appliances, using for patch.	<a href="#">Appliance Group</a>	

#### Responses

HTTP Code	Description	Schema
500	An appliance group with the given name already exists.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

### 4.10.2. Map of Appliance Group Hierarchy

```
GET /appliancegroup/agHierarchy
```

#### Description

Returns the hierarchy as a JSON string for the TCPWave IPAM GUI consumption.

The example listed below shows a sample request URL:

/rest/appliancegroup/agHierarchy?orgName=orgName

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgName</b> <i>required</i>	organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- text/plain

#### Produces

- application/json

### 4.10.3. Appliance Group Delete

```
GET /appliancegroup/delete
```

#### Description

Deletes the Appliance group present in the TCPWave IPAM. Functional Admins can delete an Appliance group in any organization. Other Admins can delete the Appliance groups belonging to their organization only.

The example listed below shows a sample request URL:

/rest/appliancegroup/delete?name=applianceGroupName&organization=orgName

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Appliance Group Name	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-2051: Appliance group is not deleted as it is being used.	No Content

#### Consumes

- text/plain
- application/json

#### Produces

- application/json
- application/xml

### 4.10.4. Deploy a Firmware Patch

```
GET /appliancegroup/deployfirmwarepatch
```

#### Description

Deploys a Firmware patch on the given appliance group.

The example listed below shows a sample request URL:

/rest/appliancegroup/deployfirmwarepatch?

name=applianceGroupName&organization=orgName&patchName=patchNameValue

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Appliances Group Name	string	
Query	<b>organization</b> <i>required</i>	Organization	string	
Query	<b>patchName</b> <i>required</i>	Patch Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

#### 4.10.5. Edit Appliance Group

```
POST /appliancegroup/edit
```

#### Description

Updates an existing appliance group in the TCPWave IPAM. Functional and Users Admins can edit an Appliance group in any organization.

Below example shows sample request JSON:

```
{ "name": "applianceGroupName", "organization_name": "Internal" "description": "Appliance group" "prevAppGroupName": "app-group", }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Group of appliances, using for patch.	<a href="#">Appliance Group</a>	

#### Responses

HTTP Code	Description	Schema
500	A appliance group with the given name already exists.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.10.6. Details of Appliance Group

```
GET /appliancegroup/get
```

#### Description

Retrieves the details of an appliance group in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/appliancegroup/get?name=applianceGroupName&organization=orgName
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>optional</i>	Appliance Group Name	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Appliance Group</a>

HTTP Code	Description	Schema
500	TIMS-12074: Appliance group name cannot be null.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.10.7. List Appliance Group

```
GET /appliancegroup/list
```

#### Description

Provides a list of Appliance groups present in the TCPWave IPAM.

The example listed below shows a sample request URL:

/tims/rest/appliancegroup/list?start=1&length=20

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Comma Separated Organization Names	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Appliance Group Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAppliance Group</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.10.8. List appliance group by appliance type

```
GET /appliancegroup/listByType
```

#### Description

Provides a list of Appliance groups associated with specified appliance type in the TCPWave IPAM.

The example listed below shows a sample request URL:

rest/appliancegroup/listByType?applianceType=DNS

rest/appliancegroup/listByType?applianceType=DHCP

rest/appliancegroup/listByType?applianceType=IPAM

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>applianceType</b> <i>required</i>	Appliance Type. Takes either DNS, DHCP or IPAM	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Appliance Group</a> > array

#### Consumes

- text/plain



#### Produces

- application/json
- application/xml

#### 4.10.9. Appliance Group List

GET /appliancegroup/listbyorg

#### Description

Provides a list of Appliance groups present in an organization.

The example listed below shows a sample request URL:

/rest/appliancegroup/listbyorg?organization=orgName&name=applianceGroupName

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Appliance Group Name	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Appliance Group</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.10.10. References of Appliance Group

GET /appliancegroup/references

#### Description

Retrieves the list of appliances that are associated to the appliance group in the TCPWave IPAM.

The example listed below shows a sample request URL:

/tims/rest/appliancegroup/references?name=applianceGroupName&organization=orgName

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>optional</i>	Appliance Group Name	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">MonitoringHierarchy</a> > array
500	TIMS-12074: Appliance group name cannot be null.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.10.11. Update root password

POST /appliancegroup/updateRootpassword

#### Description

Updates the root password for all the associated DNS and DHCP appliances.

Below example shows sample request JSON:

```
{"name":"applianceGroupName","organization_name":"Internal","appliance_root_password":"RootPassword!23"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Appliance group entity with required fields for updating root password	<a href="#">Appliance Group</a>	

## Responses

HTTP Code	Description	Schema
500	An appliance group with the given name does not exists.	No Content

## Consumes

- application/json
- application/xml

## Produces

- application/json
- application/xml

## 4.11. Appliance Sync Status Service

### Description

This service provides API's to get the sync status for an existing DNS Appliance managed by TCPWave IPAM.

#### 4.11.1. Appliance Sync Status GET

```
GET /serversync/get
```

### Description

Provides the details of sync information for the given Appliance and Organization in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/serversync/get?address=10.1.10.183&orgName=QAOrg&serverType=BIND%20CACHE
```

### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Server IP Address	string	
Query	<b>isV6</b> <i>optional</i>	Boolean value to represent the IPv6 appliance or not	boolean	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Query	<b>serverId</b> <i>optional</i>	Appliance Id	integer(int32)	
Query	<b>serverType</b> <i>required</i>	Appliance Type	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Appliance Synchronization Status</a>
500	TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-3091: Appliance does not exist.	No Content

## Consumes

- text/plain

## Produces

- application/json
- application/xml

## 4.12. Asset Service

### Description

This service provides the API to manage Assets in the TCPWave IPAM.

#### 4.12.1. Add Asset

```
POST /asset/add
```

### Description

Creates a new asset in the TCPWave IPAM. An asset can be associated to an object so that an IP Address can be associated to a service tag number for proper inventory reconciliation.

Below example shows sample request JSON:

```
{ "service_tag": "Asset", "serial_num": "12345", "vendor": "CISCO", "name": "EXAMPLE-ROUTER", "model": "ASR10", "acquisition_type": "Merger and Acquisition", "cpu": "2", "capacity": "unlimited", "os_version": "IOS 11.0", "maintenance_cost": "500", "purchase_cost": "10000", "city": "Trash", "green_zone": "false", "disposal_reason": "Salem", "description": "Remove City or add country", "purchase_dt": "2017-08-23T00:00:00.000Z", "warranty_end_dt": "2017-08-23T00:00:00.000Z", "disposal_dt": "2017-08-23T00:00:00.000Z" }
```

### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Body	body required	Asset details	<a href="#">Asset</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7777: Specified asset already exists.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.12.2. Delete Assets

POST /asset/deleteAll

#### Description

Deletes the given assets defined in the TCPWave IPAM. This API accepts the list of Asset names to delete.

Below example shows sample request JSON:

```
["Asset","Asset2"]
```

#### Parameters

Type	Name	Description	Schema	Default
Body	body required	List of asset service tags	< string > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1703: Please select an asset to delete. TIMS-7778: The Asset cannot be deleted as it is being referred from object(s): {0} TIMS-7779: Invalid Asset specified: {0}	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.12.3. Update Asset

POST /asset/edit

#### Description

Updates an existing asset defined in the TCPWave IPAM. An asset can be associated to an object so that an IP Address can be associated to a service tag number for proper inventory reconciliation.

Below example shows sample request JSON:

```
{
  "service_tag": "Asset1",
  "serial_num": "12345",
  "vendor": "CISCO",
  "name": "EXAMPLE-ROUTER",
  "model": "ASR10",
  "acquisition_type": "Merger and Acquisition",
  "cpu": "2",
  "capacity": "unlimited",
  "os_version": "IOS 11.0",
  "maintenance_cost": "500",
  "purchase_cost": "10000",
  "city": "Salem",
  "green_zone": "false",
  "disposal_reason": "Trash",
  "description": "Remove City or add country",
  "purchase_dt": "2017-08-23T00:00:00.000Z",
  "warranty_end_dt": "2017-08-23T00:00:00.000Z",
  "disposal_dt": "2017-08-23T00:00:00.000Z",
  "previousAssetSerTag": "Asset"
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	body required	Asset details	<a href="#">Asset</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1701: Please select a single asset to edit. TIMS-1702: Please select an asset to edit.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.12.4. Get Asset Details

GET /asset/get

##### Description

Provides the details of a given asset defined in the TCPWave IPAM. An asset can be associated to an object so that an IP Address can be associated to a service tag number for proper inventory reconciliation.

The example listed below shows a sample request URL:

/rest/asset/get?service\_tag=assetServiceTagValue

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>service_tag</b> <i>required</i>	Asset Service Tag	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Asset</a>
500	TIMS-7779: Invalid Asset specified: {0}.	No Content

##### Consumes

- application/json
- application/xml
- text/plain

##### Produces

- application/json
- application/xml

#### 4.12.5. Asset List

GET /asset/list

##### Description

Obtains a list of assets defined and managed by the TCPWave IPAM. An asset can be associated to an object so that an IP Address can be associated to a service tag number for proper inventory reconciliation.

The example listed below shows a sample request URL:

/rest/asset/list?page=1&rows=20

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Asset</a> > array

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

### 4.13. Audit Logs And License Information

##### Description

This service provides the API to access the audit logs in the TCPWave IPAM and purge the audit records. This service also provides the API to access the IPAM license information and update the license key.

#### 4.13.1. Audit Logging Configuration

GET /audit/auditLoggingConfigDetails

##### Description

Returns the current Audit Logging Configuration settings, including the different components in the TCPWave IPAM and their logging status.

Below example shows sample request URL:

rest/audit/auditLoggingConfigDetails

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Log Configuration for a component</a> > array

##### Produces

- application/json
- application/xml

#### 4.13.2. Update Audit Logging Configuration Information.

POST /audit/configUpdate

##### Description

Updates the Audit Logging Configuration to enable/disable audit logging for different components in the TCPWave IPAM.

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of Audit Logging Configurations	< <a href="#">Audit Log Configuration for a component</a> > array	

##### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation, TIMS-8602: Configuration type is empty, TIMS-8603: Configuration type does not exist.	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml
- text/plain

#### 4.13.3. License Details

GET /audit/license

##### Description

Obtains the License information from the TCPWave IPAM. A new license key can be procured by contacting the TCPWave Customer Care team or a distributor or a reseller in your region.

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">License Data</a>

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.13.4. Update License

POST /audit/license/update

##### Description

Updates the TCPWave IPAM product License on the management appliance. Only Functional Admin can update the license information. A new license key can be procured by contacting the TCPWave Customer Care team or a distributor or a reseller in your region.

Below example shows sample request JSON:

```
"keyBytes":"h24fgdkfjdkh4hd8983shh85jkdjkh9"
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance Address	string	
Query	<b>name</b> <i>required</i>	Appliance Name	string	
Body	<b>body</b> <i>optional</i>		string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">License Data</a>
500	TIMS-3901: Invalid License Key specified.	No Content

HTTP Code	Description	Schema

#### Consumes

- application/json

#### Produces

- application/json
- application/xml

#### 4.13.5. Audit Log List

```
GET /audit/page
```

#### Description

Obtains a list of audit logs from the TCPWave IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>description</b> <i>optional</i>	Description of each record	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>end_date</b> <i>optional</i>	End Date for fetching Records	string	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>ipamIpAddress</b> <i>optional</i>	IPAM IP Address	string	
Query	<b>length</b> <i>optional</i>	Page Length	integer(int32)	
Query	<b>login_name</b> <i>optional</i>	Name of Admin	string	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>remote_ip</b> <i>optional</i>	IP Address	string	
Query	<b>session_id</b> <i>optional</i>	Session ID	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>optional</i>	Starting IPV4 Network Range	integer(int32)	
Query	<b>start_date</b> <i>optional</i>	Start Date for fetching Records	string	
Query	<b>success</b> <i>optional</i>	If operation is successful?(YES/NO)	boolean	
Query	<b>target</b> <i>optional</i>	Entity type(Network/Subnet/Object/Database)	string	
Query	<b>target_instance</b> <i>optional</i>	Entity(Network-192.168.1.10)	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAuditEntry</a>
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.13.6. Searches Change Tickets

GET /audit/search

### Description

Lists searched Audit History data in the TCPWave IPAM.

### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>optional</i>	Ending Network Range	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sorting Order(asc/desc)	string	
Query	<b>sort</b> <i>optional</i>	Sorting String	string	
Query	<b>start</b> <i>optional</i>	Starting Network Range	integer(int32)	

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAuditHistory</a>

### Consumes

- text/plain

### Produces

- application/json
- application/xml

## 4.14. Audit Report Service

### Description

This service provides API access to perform admin group operations. Operations include add an admin group, update an admin group, list admin group, delete an admin group, retrieve admin group permissions and update admin group permissions.

#### 4.14.1. DNS Appliance List

GET /auditreports/DNSLiveServerlist

### Description

Provides a list of existing DNS Appliances and deleted DNS Appliances for auditing purposes.

Below is the example request:

/tims/rest/reports/DNSLiveServerlist?organization=Internal

### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>required</i>	Organization	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Server Information</a> > array

### Consumes

- text/plain

### Produces

- application/json
- application/xml

#### 4.14.2. Action List

GET /auditreports/actionslist

### Description

User can obtains Action list defined in the TCPWave IPAM .Example operation:add,operation: delete .

Below example shows sample request URL:

rest/auditreports/actionslist

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.3. Admin Role List

```
GET /auditreports/adminroleslist
```

#### Description

Obtains a list of administrator types (eg. FADM, SADM etc.) defined in the TCPWave IPAM. Please refer to the product documentation for additional information about the various administrator types.

Below example shows sample request URL:

```
/rest/auditreports/adminroleslist?page=1&rows=20
```

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.4. Admin List

```
GET /auditreports/adminslist
```

#### Description

Obtains a list of administrators defined in the TCPWave IPAM. Please refer to the product documentation for additional information about the various administrator types.

Below is the example request:

```
/tims/rest/auditreports/adminslist?actionType=active
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>required</i>	Action Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.5. IPV4 Network List

```
GET /auditreports/auditnetworkslist
```

#### Description

Obtains a list of active networks or deleted networks for auditing purposes.

Below is the example request:

```
/tims/rest/auditreports/auditnetworkslist?actionType=active&org_id=1641&draw=1&start=0&length=10&filterRules=[{"field":"networkAddress","op":"contains","value":"2"}]
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>required</i>	Network status - active/deleted	string	



Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Search Network	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>org_id</b> <i>required</i>	Organization ID	integer(int32)	
Query	<b>q</b> <i>optional</i>	Filter string	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.6. Zone List

```
GET /auditreports/auditzoneslist
```

#### Description

Description: This operation returns a list of active or deleted DNS zones for auditing purposes.

Example:

```
/tims/rest/auditreports/auditzoneslist?
```

```
actionType=active&reportType=Zone&org_id=1641&draw=1&start=0&length=10&filterRules=
```

```
[{"field":"name","op":"contains","value":"m"}]
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>required</i>	Zone status - active/deleted	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Search Zone	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>org_id</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>q</b> <i>optional</i>	Filter String	string	
Query	<b>reportType</b> <i>optional</i>	Report Type	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.7. DHCP Appliance List

```
GET /auditreports/dhcpserverlist
```

##### Description

Provides a list of existing DHCP Appliances and deleted DHCP Appliances for auditing purposes.

Below is the example request:

```
/tims/rest/auditreports/dhcpserverlist?organization=Internal
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>required</i>	Organization	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Server Information</a> > array

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.14.8. Lists all Columns for DHCP Query Report

```
GET /auditreports/dhcpqueryrpt
```

##### Description

Provides list of all Columns for DHCP Query Audit Report grid in the TCPWave IPAM.

Below are the sample query parameter values accepted:

```
/tims/rest/reports/dhcpqueryrpt?
```

```
reportType=dhcpqueryrpt&organization=Internal&v4_ipaddress=10.0.0.2&fromDate=03/01/2019&toDate=03/06/2019&draw=1&start=0&length=20&q=[]&sort=[]
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>fromDate</b> <i>required</i>	Starting date for fetching records	string	
Query	<b>ip_address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	order param(asc/desc)	string	
Query	<b>organization</b> <i>required</i>	Organization	string	
Query	<b>q</b> <i>optional</i>	Filter String	string	
Query	<b>reportType</b> <i>required</i>	Report type)	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	
Query	<b>toDate</b> <i>required</i>	Ending date for fetching records	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListDHCP Appliance Statistics Details</a>
500		No Content

##### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.9. Lists DNS Query Alternate Domain Report

```
GET /auditreports/dnsqueryalternatedomainrptlist
```

#### Description

Provides details of DNS Query Alternate Domain Names Report grid in the TCPWave IPAM.

Below are the sample query parameter values accepted:

```
/tims/rest/reports/dnsqueryalternatedomainrptlist?
```

```
reportType=dnsqueryalternatedomainrpt&organization=Internal&ip_address=10.1.9.196&fromDate=12/23/2022&toDate=12/23/2022&period=dayBased
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>fromDate</b> <i>required</i>	Starting date for fetching records	string	
Query	<b>ip_address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	order param(asc/desc)	string	
Query	<b>organization</b> <i>required</i>	Organization	string	
Query	<b>period</b> <i>required</i>	Period of Date(Daily, weekly, Monthly)	string	
Query	<b>q</b> <i>optional</i>	Filter String	string	
Query	<b>reportType</b> <i>required</i>	Report type)	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	
Query	<b>toDate</b> <i>required</i>	Ending date for fetching records	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.10. Lists DNS Query Per Second Report

```
GET /auditreports/dnsquerypersecondrpt
```

#### Description

Provides details of DNS Query Per Second Report grid in the TCPWave IPAM.

Below are the sample query parameter values accepted:

```
/tims/rest/reports/dnsquerypersecondrpt?
```

```
reportType=dnsquerypersecondrpt&organization=Internal&ip_address=10.0.0.2&period=dailyBased&fromDate=03/01/2019&toDate=03/06/2019&draw=1&start
```

```
[]&sort=[]
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>fromDate</b> <i>required</i>	Starting date for fetching records	string	

Type	Name	Description	Schema	Default
Query	<b>ip_address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	order param(asc/desc)	string	
Query	<b>organization</b> <i>required</i>	Organization	string	
Query	<b>period</b> <i>required</i>	Period of Date(Daily, weekly, Monthly)	string	
Query	<b>q</b> <i>optional</i>	Filter String	string	
Query	<b>reportType</b> <i>required</i>	Report type)	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	
Query	<b>toDate</b> <i>required</i>	Ending date for fetching records	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.11. Lists DNS Query Rate By Client Report

```
GET /auditreports/dnsqueryratebymember
```

#### Description

Provides details of DNS Query Rate By Client Report details in the TCPWave IPAM.

Below are the sample query parameter values accepted:

/tims/rest/reports/dnsqueryratebymember?

reportType=dnsqueryratebymemberprt&organization=Internal&ipAddress\_domainName=10.0.0.2&fromDate=03/01/2019&toDate=03/06/2019

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>fromDate</b> <i>required</i>	Starting date for fetching records	string	
Query	<b>ipAddress_domainName</b> <i>required</i>	DNS Appliance IP Address	string	
Query	<b>organization</b> <i>required</i>	Organization	string	
Query	<b>reportType</b> <i>required</i>	Report type)	string	
Query	<b>server_name</b> <i>optional</i>	DNS Appliance Name	string	
Query	<b>toDate</b> <i>required</i>	Ending date for fetching records	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.12. Email Report

POST /auditreports/emailreport

#### Description

User can send the generated audit report to the email address of the subscribed contacts present in the TCPWave IPAM.

Below example shows sample request:

email\_recipients:[abc@gmail.com](mailto:abc@gmail.com),reportType:Network/Subnet/Object etc,Name of Network Admin:twcadm,Role of Admin:FADM/SADM/UADM/RADM,Operation executed by Admin:active/deleted

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>action</b> <i>required</i>	Operation executed by Admin(active/deleted)	string	
Query	<b>adminName</b> <i>required</i>	Name of Network Admin	string	
Query	<b>adminRole</b> <i>required</i>	Role of Admin (FADM/SADM/UADM/RADM)	string	
Body	<b>body</b> <i>optional</i>		<a href="#">Audit Report</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-9312: Current selection exceeds the allowable email rows limit than the global option default page rows. Please modify your criteria or use CSV file download.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.14.13. Admin List For Admin Hierarchy

GET /auditreports/hierarchyadminslist

#### Description

Obtains a list of administrators defined in the TCPWave IPAM. Please refer to the product documentation for additional information about the various administrator types.

Below is the example request:

/tims/rest/auditreports/hierarchyadminslist?actionType=active

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>required</i>	Action Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.14. IPv4 Network Mask Length

GET /auditreports/ipv4Network

#### Description

Obtains list of existing IPv4 networks mask lengths for auditing purposes.

Below example shows sample request URL:

rest/auditreports/ipv4Network

## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

### Consumes

- text/plain

### Produces

- application/json
- application/xml

#### 4.14.15. IPv4 Subnet Subnets mask lengths

```
GET /auditreports/ipv4Subnet
```

### Description

Obtains a list of existing IPv4 Subnets mask lengths for auditing purposes.

Below example shows sample request URL:

rest/auditreports/ipv4Subnet

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

### Consumes

- text/plain

### Produces

- application/json
- application/xml

#### 4.14.16. ccTLDs Grid List

```
GET /auditreports/ofaccountriesgridlist
```

### Description

Obtains a list of existing ccTLDs for auditing purposes.

### Responses

HTTP Code	Description	Schema
200	successful operation	< string > array

### Consumes

- text/plain

### Produces

- application/json
- application/xml

#### 4.14.17. Report chart list

```
GET /auditreports/reportchartlist
```

### Description

Obtains a list to display the chart for reports.

Below is the example request:

```
/tims/rest/auditreports/reportchartlist?actionType=active&org_id=1641&draw=1&start=0&length=10&filterRules=[{"field":"networkAddress","op":"contains","value":"2"}]
```

### Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>optional</i>	Action type	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>fromDate</b> <i>required</i>	Starting date for fetching records	string	
Query	<b>ipAddress_domainName</b> <i>optional</i>	IP address or domain name	string	

Type	Name	Description	Schema	Default
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	order param(asc/desc)	string	
Query	<b>org_id</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>organization</b> <i>required</i>	Organization Name	string	
Query	<b>period</b> <i>optional</i>	period	string	
Query	<b>reportType</b> <i>required</i>	Report types (Network/subnet/object etc)	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	
Query	<b>toDate</b> <i>required</i>	Ending date for fetching records	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.18. Admin Audit

```
GET /auditreports/reportlist
```

#### Description

Obtains a list of reports in grid for the audit reports in the TCPWave IPAM.

Below are the sample query parameter values accepted:

Report Type:Network/subnet/object etc

Starting date for fetching records:02/22/2019

Ending date for fetching records :02/22/2019

Action type:active/deleted

IP Address or domain name:10.11.0.2/8 /domain.com

User:twcadm

domain name:domain.com

Source IP address: 10.11.0.3/8

Record type:AAA/SOA etc

Change Ticket:12345/abcd etc

Organization ID:1656

Proxy value:(0/1)

Page Draw Param:1

Starting Page Number:1

Page Length:20

Filter string:

Action performed:add/edit/delete etc

Sort String:

order param(asc/desc):

MAC Address:aa:bb:cc:dd:ee:ff

Organization Name:Internal

, ID:1234

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>action</b> <i>optional</i>	Action performed	string	
Query	<b>actionType</b> <i>optional</i>	Action type	string	
Query	<b>change_ticket</b> <i>optional</i>	Change Ticket	string	
Query	<b>domain</b> <i>optional</i>	domain name	string	

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>fromDate</b> <i>required</i>	Starting date for fetching records	string	
Query	<b>id</b> <i>optional</i>	ID	string	
Query	<b>ipAddress_domainName</b> <i>optional</i>	IP address or domain name	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>mac</b> <i>optional</i>	MAC Address	string	
Query	<b>order</b> <i>optional</i>	order param(asc/desc)	string	
Query	<b>org_id</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>organization</b> <i>optional</i>	Organization Name	string	
Query	<b>period</b> <i>optional</i>	period	string	
Query	<b>proxy</b> <i>optional</i>	Proxy value(0/1)	integer(int32)	
Query	<b>record_type</b> <i>optional</i>	Record type	string	
Query	<b>reportType</b> <i>required</i>	Report types (Network/subnet/object etc)	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>source_ip</b> <i>optional</i>	Source IP address	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	
Query	<b>toDate</b> <i>required</i>	Ending date for fetching records	string	
Query	<b>user</b> <i>required</i>	User	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>
500	TIMS-8059: Please select report start date. TIMS-8060: Please select report end date.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.19. IPV4 Network List

```
GET /auditreports/switchportutilizationrpt
```

#### Description

Obtains the utilization of the switch ports.

Below is the example request:

```
/tims/rest/auditreports/switchportutilizationrpt?
```

```
reportType=switchPortUtilization&command_id=TDCE_2022041014&draw=1&start=0&length=10]
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>command_id</b> <i>required</i>	Command Id	string	



Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Search Switch Port	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>reportType</b> <i>required</i>	Report type	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.20. IPv4 Subnet Template List

```
GET /auditreports/v4SubnetTemplatelist
```

#### Description

Provides a list of existing Active IPv4 Subnet Template and deleted IPv4 Subnet Template for auditing purposes.

Below is the example request:

```
/tims/rest/auditreports/v4SubnetTemplatelist?actionType=active&organization=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>required</i>	Action type(active/deleted)	string	
Query	<b>organization</b> <i>required</i>	Oraganization	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.21. Threat Intelligence Report List

```
GET /auditreports/zeekreport
```

#### Description

Provides DNS Threat Intelligence Report details in the TCPWave IPAM.

Below is the example request:

```
rest/reports/zeekreport?
```

```
reportType=dnsuniquesubdomainrpt&server_name=testappliance&ipAddress_domainName=10.0.0.2&period=3
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ipAddress_domainName</b> <i>required</i>	Appliance IPAddress	string	
Query	<b>period</b> <i>optional</i>	DNS Query Length	string	

Type	Name	Description	Schema	Default
Query	<b>reportType</b> <i>required</i>	Report Type	string	
Query	<b>server_name</b> <i>required</i>	Appliance Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.22. DNS Appliance List

```
GET /reports/DNSLiveServerlist
```

#### Description

Provides a list of existing DNS Appliances and deleted DNS Appliances for auditing purposes.

Below is the example request:

```
/tims/rest/reports/DNSLiveServerlist?organization=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>required</i>	Organization	string	
Query	<b>reportType</b> <i>required</i>	Report Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Server Information</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.23. DHCP Active Server List

```
GET /reports/DhcpLeaseServerlist
```

#### Description

Provides a list of existing DHCP Appliances and deleted DHCP Appliances for auditing purposes.

Below is the example request:

```
/tims/rest/reports/DhcpLeaseServerlist?reportType=DhcpLeaseAudit&serverIp=10.11.0.7
```

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.24. DHCP Appliance Subnet List

```
GET /reports/DhcpServerSubnetlist
```

#### Description

Provides a list of active DHCP Appliances and deleted DHCP Appliances for auditing purposes.

Below is the example request:

```
tims/rest/reports/dhcpserversubnetreportlist?
```

&reportType=DhcpServerSubnetRpt&ipAddress\_domainName=10.11.0.8&draw=1&start=0&length=20&filterRules=[{"field":"subnet\_address","op":"contains","value":"d"}]

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>required</i>	Action type(active/deleted)	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.25. DHCP Appliance List

```
GET /reports/DhcpServerList
```

#### Description

Provides a list of existing DHCP Appliances and deleted DHCP Appliances for auditing purposes.

Below is the example request:

/tims/rest/reports/DhcpServerList?actionType=active

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>required</i>	Action type(active/deleted)	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.26. Parameter List

```
GET /reports/allparams
```

#### Description

Provides a list of all parameters in DHCP option template report for auditing purposes.

Below is the example request:

/tims/rest/reports/allparams?

server\_type\_code=DHCP&entity\_type\_code=OPTION&draw=1&start=0&length=10&filterRules=

[{"field":"display\_name","op":"contains","value":"r"}]

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>entity_type_code</b> <i>required</i>	Entity type	string	
Query	<b>filterRules</b> <i>optional</i>	Search DHCP Options	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>q</b> <i>optional</i>	Filter String	string	
Query	<b>server_type_code</b> <i>required</i>	Server Type Code	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	

## Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>

### Consumes

- text/plain

### Produces

- application/json
- application/xml

#### 4.14.27. DNS Views List

```
GET /reports/auditviewslist
```

### Description

Provides a list of existing and deleted DNS Views for auditing purposes.

Below is the example request:

```
tims/rest/reports/auditviewslist?actionType=active&org_id=1640&draw=1&start=0&length=10&filterRules=[{"field":"name","op":"contains","value":"g"}]
```

### Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>required</i>	Action type	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>org_id</b> <i>required</i>	Organization ID	integer(int32)	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>

### Consumes

- text/plain

### Produces

- application/json
- application/xml

#### 4.14.28. Object Type List

```
GET /reports/clientserverlist
```

### Description

Provides a list of client IPs for RPZ Logs auditing purposes.

Below is the example request:

```
/tims/rest/reports/clientserverlist
```

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

### Consumes

- text/plain

### Produces

- application/json
- application/xml

#### 4.14.29. Cloud Instance Provisioning Report

### Description

This report displays the AWS, Azure and google cloud add,edit and delete details.

Below are the sample query parameter values accepted:

/tims/rest/reports/cloudreportlist?fromDate=03/01/2019&toDate=03/06/2019

### Parameters

Type	Name	Description	Schema	Default
Query	<b>fromDate</b> <i>required</i>	Starting date for fetching records	string	
Query	<b>reportType</b> <i>required</i>	Report Type	string	
Query	<b>toDate</b> <i>required</i>	Ending date for fetching records	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

### Consumes

- text/plain

### Produces

- application/json
- application/xml

#### 4.14.30. CSV Report

POST /reports/csvreport

### Description

Provides a csv file for audit reports present in the TCPWave IPAM.

### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Audit Report</a>	

### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-9314: Export to CSV failed.	No Content

### Consumes

- application/json
- application/xml

### Produces

- application/json
- application/xml

#### 4.14.31. DHCP active leases audit report

GET /reports/dhcpActiveLeases

### Description

Provides report details in grid for DHCP active leases audit report in the TCPWave IPAM.

### Parameters

Type	Name	Description	Schema	Default
Query	<b>fromDate</b> <i>required</i>	Starting date for fetching records	string	
Query	<b>page</b> <i>required</i>	Total pages	integer(int32)	
Query	<b>reportType</b> <i>required</i>	Report types (Network/subnet/object etc)	string	
Query	<b>rows</b> <i>required</i>	Rows per page	integer(int32)	
Query	<b>serverIp</b> <i>required</i>	IP of the Server	string	

Type	Name	Description	Schema	Default
Query	<b>toDate</b> <i>required</i>	Ending date for fetching records	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListDHCPLeaseObject</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.32. DHCP Pool Utilization Report

```
GET /reports/dhcpAppliancePoolUtilized
```

#### Description

DHCP Pool Utilization Report provides the Scope Utilized based on the Appliances.

Below is the example request:

```
/tims/rest/reports/dhcpAppliancePoolUtilized?serverName=zxcv&ip_address=10.0.0.2&reportType=dhcpv6poolusagerpt
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip_address</b> <i>required</i>	Appliance Address	string	
Query	<b>reportType</b> <i>required</i>	Report Type	string	
Query	<b>serverName</b> <i>required</i>	Appliance Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.33. DHCP active leases Audit Report

```
GET /reports/dhcpLeaseCsvReport
```

#### Description

Provides a csv file for DHCP active leases audit report present in the TCPWave IPAM.

Below is the example request:

```
/tims/rest/reports/dhcpLeaseCsvReport?reportType=dhcpLeaseCsvReport&serverIp=10.16.0.7
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>page</b> <i>optional</i>	Starting Page Number	integer(int32)	
Query	<b>reportType</b> <i>required</i>	Report types (dhcpLeaseCsvReport)	string	
Query	<b>rows</b> <i>optional</i>	Page Length	integer(int32)	
Query	<b>serverIp</b> <i>required</i>	IP of the Appliance	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- text/plain

- application/json
- application/xml

#### 4.14.34. DHCP IPv4 Daily Peak Hour LPS Report

GET /reports/dhcpdailypeakqueryRpt

##### Description

This report displays the DORA (Discover Offer Request Acknowledgement) packets with LPS (Lease Per Seconds) details for the peak hour of the day for the selected appliances and date range.

Below are the sample query parameter values accepted:

/tims/rest/reports/dhcpdailypeakqueryRpt?

organization=Internal&ipAddress\_domainName=10.0.0.1&fromDate=03/01/2019&toDate=03/06/2019

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>fromDate</b> <i>required</i>	Starting date for fetching records	string	
Query	<b>ipAddress_domainName</b> <i>required</i>	DHCP Appliance IP Address	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	
Query	<b>reportType</b> <i>required</i>	Report Type	string	
Query	<b>toDate</b> <i>required</i>	Ending date for fetching records	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.14.35. DHCP Option Template Report

GET /reports/dhcptionconfigreportlist

##### Description

Provides report details in grid for DHCP Option Template Report in the TCPWave IPAM.

Below is the example request:

tims/rest/reports/dhcptionconfigreportlist?config\_name=subnet-mask&param\_val=&reportType=DhcpOptionTemplConfigRpt&draw=1&start=0&length=20&filterRules=[{"field":"template\_name","op":"contains","value":"c"}]

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>action</b> <i>optional</i>	Action performed	string	
Query	<b>config_name</b> <i>required</i>	Config Name	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	order param(asc/desc)	string	
Query	<b>param_val</b> <i>optional</i>	parameter value	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>reportType</b> <i>required</i>	Report types (DhcpOptionTemplConfigRpt)	string	

Type	Name	Description	Schema	Default
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.36. DHCP Option Template List

```
GET /reports/dhcptoptionemplassolist
```

#### Description

Provides a list of active DHCP option template and deleted DHCP option template for auditing purposes.

Below is the example request:

```
/tims/rest/reports/dhcptoptionemplassolist?draw=1&start=0&length=10&filterRules=[]
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>org_id</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.37. DHCP Option Template List

```
GET /reports/dhcptoptionemplauditlist
```

#### Description

Provides a list of existing DHCP option template and deleted DHCP option template for auditing purposes.

Below is the example request:

```
/tims/rest/reports/dhcptoptionemplauditlist?actionType=active&draw=1&start=0&length=10&filterRules=[{"field":"name","op":"contains","value":"c"}]
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>required</i>	Action type	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	



Type	Name	Description	Schema	Default
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>start</b> <i>required</i>	Starting Report Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.38. DHCP Policy Template List

```
GET /reports/dhcpolicytemplauditlist
```

#### Description

Provides a list of active DHCP policy template and deleted DHCP policy template for auditing purposes.

Below is the example request:

```
/tims/rest/reports/dhcpolicytemplauditlist?actionType=active
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>required</i>	Action type(active/deleted)	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.39. DHCP Appliance Association audit report

```
GET /reports/dhcpserversubnetreportlist
```

#### Description

Provides report details in grid for DHCP Appliance Association audit report in the TCPWave IPAM.

Below is the example request:

```
/tims/rest/reports/dhcpserversubnetreportlist?
&reportType=DhcpServerSubnetRpt&ipAddress_domainName=10.0.3.4&draw=1&start=0&length=20&filterRules=
[{"field":"subnet_name","op":"contains","value":"h"}]
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>action</b> <i>optional</i>	Action	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>ipAddress_domainName</b> <i>required</i>	IP Address	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	

Type	Name	Description	Schema	Default
Query	<b>order</b> <i>optional</i>	order param(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>reportType</b> <i>required</i>	Report types (DhcpServerSubnetRpt)	string	
Query	<b>server_type</b> <i>required</i>	Appliance Type	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.40. DHCP Option Template Association Report

GET /reports/dhcptemplassoreportgrid

#### Description

Provides report details in grid for DHCP Option Template Association Report in the TCPWave IPAM.

Below are the sample query parameter values accepted:

/tims/rest/reports/dhcptemplassoreportgrid?reportType=dhcpTemplAssoSubnet&optionTempl=Manual DHCP Option Template-1&asso\_type=subnet&draw=1&start=0&length=20&filterRules=[{"field":"endip","op":"contains","value":"1"}]

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>action</b> <i>required</i>	Action performed	string	
Query	<b>asso_type</b> <i>required</i>	Type of association of Option Template with DHCP Appliance	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>optionTempl</b> <i>required</i>	Name of Option Template	string	
Query	<b>order</b> <i>optional</i>	order param(asc/desc)	string	
Query	<b>organization</b> <i>optional</i>	Organization Name	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>reportType</b> <i>required</i>	Report types (dhcpTemplAssoSubnet/dhcpTemplAssoScope/dhcpTemplAssoObj)	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.41. Provide the disk size

```
GET /reports/disksizestatus
```

#### Description

Provide the disk size Information.

No parameter values accepted:

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.14.42. DNS AUTH Appliance

```
GET /reports/dnsappliancebyviewlist
```

#### Description

Provides a list of DNS Auth appliance which has views.

Below is the example request:

```
/tims/rest/reports/dnsappliancebyviewlist?actionType=active&reportType=dnsappliancebyview&org_id=1655
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>required</i>	Action type	string	
Query	<b>org_id</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>organization</b> <i>required</i>	Organization	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.43. DNS BIND and CACHE List

```
GET /reports/dnsbindandcachelist
```

#### Description

Provides a list of DNS BIND and CACHE List for auditing purposes.

Below is the example request:

```
tims/rest/reports/dnsbindandcachelist?org_id=1640
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_id</b> <i>required</i>	Organization	integer(int32)	

#### Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.14.44. DNS Cache Appliance List

```
GET /reports/dnscacheserverslist
```

#### Description

Provides a list of cache appliance for RPZ Logs auditing purposes.

Below is the example request:

```
/tims/rest/reports/dnscacheserverslist
```

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.14.45. DNS Clients By Query Type Grid

```
GET /reports/dnsclientbyquerytypegrid
```

#### Description

Provides report details of DNS Clients By Query Type in the TCPWave IPAM.

Below are the sample query parameter values accepted:

```
/tims/rest/reports/dnsclientbyquerytypegrid?
```

```
organization=Internal&ipAddress_domainName=10.0.0.1&fromDate=03/01/2019&toDate=03/06/2019
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>fromDate</b> <i>required</i>	Starting date for fetching records	string	
Query	<b>ipAddress_domainName</b> <i>required</i>	DNS Appliance IP Address	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	
Query	<b>reportType</b> <i>required</i>	Report Type	string	
Query	<b>server_name</b> <i>optional</i>	DNS Appliance Name	string	
Query	<b>toDate</b> <i>required</i>	Ending date for fetching records	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.14.46. Top DNS Clients Querying MX Records Grid

```
GET /reports/dnsclientquerymxrcdrptgrid
```

#### Description

Provides report details of Top DNS Clients Querying MX Records in the TCPWave IPAM.

Below are the sample query parameter values accepted:

/tims/rest/reports/dnsclientbyquerytypeid?

organization=Internal&ipAddress\_domainName=10.0.0.1&fromDate=03/01/2019&toDate=03/06/2019

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>fromDate</b> <i>required</i>	Starting date for fetching records	string	
Query	<b>ipAddress_domainName</b> <i>required</i>	DNS Appliance IP Address	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	
Query	<b>reportType</b> <i>required</i>	Report Type	string	
Query	<b>server_name</b> <i>optional</i>	DNS Appliance Name	string	
Query	<b>toDate</b> <i>required</i>	Ending date for fetching records	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.47. DNS Daily Peak Hour Query Rate By Appliances Report

```
GET /reports/dnsdailypeakqueryRpt
```

#### Description

Provides report details of DNS Daily Peak Hour Query Rate By Appliance in the TCPWave IPAM.

Below are the sample query parameter values accepted:

/tims/rest/reports/dnsdailypeakqueryRpt?

organization=Internal&ipAddress\_domainName=10.0.0.1&fromDate=03/01/2019&toDate=03/06/2019

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>fromDate</b> <i>required</i>	Starting date for fetching records	string	
Query	<b>ipAddress_domainName</b> <i>required</i>	DNS Appliance IP Address	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	
Query	<b>reportType</b> <i>required</i>	Report Type	string	
Query	<b>toDate</b> <i>required</i>	Ending date for fetching records	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.48. DNS and DHCP Appliance List

```
GET /reports/dnsdhcpserverslist
```

#### Description

Provides a list of existing DNS Appliances and DHCP Appliances for auditing purposes.

Below is the example request:  
/tims/rest/reports/dnsdhcpserverslist

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.49. NTP Offset List

```
GET /reports/dnsinstattrafficrpt
```

#### Description

Provides DNS Instant Traffic information of DNS appliances defined in the TCPWave IPAM.

Below is the example request:

```
rest/reports/dnsinstattrafficrpt?reportType=dnstrafficrpt&server_name=testserver&ipAddress_domainName=10.0.0.2
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>fromDate</b> <i>optional</i>	Starting date for fetching records	string	
Query	<b>ipAddress_domainName</b> <i>required</i>	Appliance IPaddress	string	
Query	<b>reportType</b> <i>required</i>	Report Type	string	
Query	<b>server_name</b> <i>required</i>	Appliance Name	string	
Query	<b>toDate</b> <i>optional</i>	Ending date for fetching records	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">ReportDNSTraffic</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.50. DNS option template List

```
GET /reports/dnsoptiontemplauditlist
```

#### Description

Provides a list of existing DNS option template and deleted DNS option template for auditing purposes.

Below is the example request:

```
/tims/rest/reports/dnsoptiontemplauditlist?actionType=active
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>required</i>	Action type(active/deleted)	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.51. Lists all Columns for DNS Query Report

GET /reports/dnsqueryrpt

##### Description

Provides list of all Columns for DNS Query Audit Report grid in the TCPWave IPAM.

Below are the sample query parameter values accepted:

/tims/rest/reports/dnsqueryrpt?

reportType=dnsqueryrpt&organization=Internal&v4\_ipaddress=10.0.0.2&fromDate=03/01/2019&toDate=03/06/2019&draw=1&start=0&length=20&q=[]&sort=[]

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>fromDate</b> <i>required</i>	Starting date for fetching records	string	
Query	<b>ip_address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	order param(asc/desc)	string	
Query	<b>organization</b> <i>required</i>	Organization	string	
Query	<b>q</b> <i>optional</i>	Filter String	string	
Query	<b>reportType</b> <i>required</i>	Report type)	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	
Query	<b>toDate</b> <i>required</i>	Ending date for fetching records	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListDNS Appliance Statistics Details</a>
500		No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.14.52. DNS Servers List

GET /reports/dnsserverslist

##### Description

Provides a list of existing DNS servers and deleted DNS servers for auditing purposes.

Below is the example request:

/tims/rest/reports/dnsserverslist?actionType=active

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>required</i>	Action type(active/deleted)	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

##### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.53. DNS SERVFAIL Responses Report Grid

```
GET /reports/dnsservfailresponsesRpt
```

#### Description

Provides Domain and SERVFAIL count details for DNS SERVFAIL Responses Report in the TCPWave IPAM.

Below are the sample query parameter values accepted:

```
/tims/rest/reports/dnsservfailresponsesRpt?
```

```
organization=Internal&ipAddress_domainName=10.0.0.1&fromDate=03/01/2019&toDate=03/06/2019
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>fromDate</b> <i>required</i>	Starting date for fetching records	string	
Query	<b>ipAddress_domainName</b> <i>required</i>	DNS Appliance IP Address	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	
Query	<b>reportType</b> <i>required</i>	Report Type	string	
Query	<b>server_name</b> <i>optional</i>	DNS Appliance Name	string	
Query	<b>toDate</b> <i>required</i>	Ending date for fetching records	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.54. DNS SOA Report CSV

```
GET /reports/dnssoareportcsv
```

#### Description

Provides a csv file for DNS SOA report present in the TCPWave IPAM.

Below is the example request:

```
/tims/rest/reports/dnssoareportgrid?
```

```
reportType=dnsSOAreport&serverIp=10.11.0.6&serverName=zxcv12&server_type=DNS PROXY
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>page</b> <i>optional</i>	Starting Page Number	integer(int32)	
Query	<b>reportType</b> <i>required</i>	Report types (Network/subnet/object etc)	string	
Query	<b>rows</b> <i>optional</i>	Page Length	integer(int32)	
Query	<b>serverIp</b> <i>required</i>	IP of the Appliance	string	
Query	<b>serverName</b> <i>required</i>	Name of the Appliance	string	
Query	<b>server_type</b> <i>required</i>	Type of the Appliance	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- text/plain



#### Produces

- application/json
- application/xml

#### 4.14.55. DNS SOA Report Grids

```
GET /reports/dnssoareportgrid
```

#### Description

Provides report details in grid for DNS SOA report in the TCPWave IPAM.

Below is the example request:

```
/rest/reports/dnssoareportgrid?reportType=dnsSOAreport&serverIp=10.11.0.3&serverName=kna81-qrs01-sl0984&server_type=BIND AUTH
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>page</b> <i>required</i>	Starting Page Number	integer(int32)	
Query	<b>reportType</b> <i>required</i>	Report types (dnsSOAreport)	string	
Query	<b>rows</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>serverIp</b> <i>required</i>	IP of the Appliance	string	
Query	<b>serverName</b> <i>required</i>	Name of the Appliance	string	
Query	<b>server_type</b> <i>required</i>	Type of the Appliance	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListSOA</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.56. DNS Statistics Per Zone Report List

```
GET /reports/dnsstatisticsperzoneaudit
```

#### Description

Provides DNS Statistics Per Zone Report information of each zone defined in the TCPWave IPAM.

Below is the example request:

```
rest/reports/dnsstatisticsperzoneaudit?reportType=dnsStatsPerZoneRpt&server_name=testserver&ipAddress_domainName=10.0.0.2&zone_name=test.com
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ipAddress_domainName</b> <i>required</i>	Appliance IP	string	
Query	<b>reportType</b> <i>required</i>	Report Type	string	
Query	<b>server_name</b> <i>required</i>	Appliance Name	string	
Query	<b>zone_name</b> <i>required</i>	Zone Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">ReportDNSStatsPerZone</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.57. DNS Template List

GET /reports/dnstemplatelist

### Description

Provides a list of active DNS templates and deleted DNS templates for auditing purposes.

Below is the example request:

/tims/rest/reports/dnstemplatelist?actionType=active

### Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>required</i>	Action type(active/deleted)	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

### Consumes

- text/plain

### Produces

- application/json
- application/xml

### 4.14.58. DNS Top talkers List

GET /reports/dnstoptalkersrpt

### Description

Provides DNS Top talkers information of DNS appliances defined in the TCPWave IPAM.

Below is the example request:

rest/reports/dnstoptalkersrpt?

reportType=dnsTopTalkersReport&server\_name=testappliance&ipAddress\_domainName=10.0.0.7

### Parameters

Type	Name	Description	Schema	Default
Query	<b>ipAddress_domainName</b> <i>required</i>	Appliance IPaddress	string	
Query	<b>reportType</b> <i>required</i>	Report Type	string	
Query	<b>server_name</b> <i>required</i>	Appliance Name	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

### Consumes

- text/plain

### Produces

- application/json
- application/xml

### 4.14.59. Large DNS Responses Report List

GET /reports/dnszeekrpt

### Description

Provides Large DNS Responses Report information of DNS appliances defined in the TCPWave IPAM.

Below is the example request:

rest/reports/dnsresponsesrpt?

reportType=dnsResponsesRpt&server\_name=testappliance&ipAddress\_domainName=10.0.0.7&length=50

### Parameters

Type	Name	Description	Schema	Default
Query	<b>ipAddress_domainName</b> <i>required</i>	Appliance IPaddress	string	
Query	<b>length</b> <i>required</i>	Query Length	string	
Query	<b>reportType</b> <i>required</i>	Report Type	string	

Type	Name	Description	Schema	Default
Query	<b>server_name</b> <i>required</i>	Appliance Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.60. DNS Zone list

```
GET /reports/dnszonebyviewlist
```

#### Description

Provides DNS Zone list.

Below is the example request:

```
/tims/rest/reports/dnszonebyviewlist?actionType=active&org_id=1655
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>required</i>	Action type	string	
Query	<b>org_id</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>organization</b> <i>required</i>	Organization	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.61. Email Report

```
POST /reports/emailreport
```

#### Description

User can send the generated audit report to the email address of the subscribed contacts present in the TCPWave IPAM.

Below example shows sample request JSON:

```
email_recipients:"abc@gmail.com,reportType:Network/Subnet/Object" etc.Name of Network Admin:twcadm,Role of Admin:FADM/SADM/UADM/RADM,Operation executed by Admin:active/deleted
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Audit Report</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-9312: Current selection exceeds the allowable Email size. Please modify your criteria or use CSV file download.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.14.62. Last 100 Event List

```
GET /reports/last100eventslist
```

#### Description

Provides a list of last 100 events performed in the TCPWave IPAM

Below is the example request:

```
/tims/rest/reports/last100eventslist?
```

```
fromDate=3/6/2019&toDate=3/6/2019&reportType=Last100Events&ipAddress_domainName=null
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>fromDate</b> <i>required</i>	Starting date for fetching records	string	
Query	<b>ipAddress_domainName</b> <i>optional</i>	IP Address or domain name	string	
Query	<b>page</b> <i>required</i>	Starting Report Range	integer(int32)	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>reportType</b> <i>required</i>	Report types (Last100Events)	string	
Query	<b>rows</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>toDate</b> <i>required</i>	Ending date for fetching records	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.63. Subnet Groups List

```
GET /reports/listsubnetgroup
```

#### Description

Provides a list of existing subnet groups for auditing purposes.

Below is the example request:

```
/tims/rest/reports/listsubnetgroup?draw=1&start=0&length=10&filterRules=[{"field":"name","op":"contains","value":"c"}]
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Search Subnet Group	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>q</b> <i>optional</i>	Filter String	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.64. Host List

```
GET /reports/monitoringhostslist
```

#### Description

Provides a list of existing hosts for monitoring purposes.

Below is the example request:

```
/tims/rest/reports/monitoringhostslist
```

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.65. Monitoring Service List

```
GET /reports/monitoringserviceslist
```

#### Description

Provides a list of existing services for monitoring purposes.

Below is the example request:

```
/tims/rest/reports/monitoringserviceslist?host_id=12345
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>host_id</b> <i>required</i>	Host ID(eg:12345)	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.66. Microsoft Active Users Report Grid

```
GET /reports/msactiveusersrptgrid
```

#### Description

Provides report details in grid for Microsoft Active Users Report in the TCPWave IPAM.

Below are the sample query parameter values accepted:

```
/tims/rest/reports/msactiveusersrptgrid?organization=Internal&ipAddress_domainName=10.1.10.121
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">MicrosoftActiveUsers</a> > array

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.67. Microsoft DHCP Pool Utilization Report Grid

```
GET /reports/msdhcppoolusageptgrid
```

#### Description

Provides report details in grid for Microsoft DHCP Pool Utilization Report in the TCPWave IPAM.

Below are the sample query parameter values accepted:

```
/tims/rest/reports/msdhcppoolusageptgrid?reportType=msdhcppoolusageRpt=1&start=0&length=20&filterRules=[{"field":"endip","op":"contains","value":"1"}]
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ipAddress_domainName</b> <i>required</i>	Microsoft DHCP Appliance IP Address	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.68. MS DHCP Appliance List

```
GET /reports/msdhcserverlist
```

#### Description

Provides a list of existing Microsoft DHCP Appliances for auditing purposes.

Below is the example request:

```
/tims/rest/reports/msdhcserverlist?organization=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization</b> <i>required</i>	Organization	string	
Query	<b>reportType</b> <i>required</i>	Report Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Microsoft Server Information</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.69. Microsoft DNS Event Report Grid

```
GET /reports/msdnsserverauditreportgrid
```

#### Description

Provides report details in grid for Microsoft DNS Appliance Report in the TCPWave IPAM.

Below are the sample query parameter values accepted:

```
/tims/rest/reports/msdnsserverauditreportgrid?reportType=msDNSServerAuditRepor=1&start=0&length=20&filterRules=[{"field":"endip","op":"contains","value":"1"}]
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>fromDate</b> <i>required</i>	Starting date for fetching records	string	
Query	<b>ip_address</b> <i>required</i>	Microsoft Appliance IP Address	string	
Query	<b>org_id</b> <i>required</i>	Organization ID	integer(int32)	
Query	<b>toDate</b> <i>required</i>	Ending date for fetching records	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.70. MS DNS Appliance List

```
GET /reports/msdnserverlist
```

#### Description

Provides a list of existing Microsoft DNS Appliances for auditing purposes.

Below is the example request:

```
/tims/rest/reports/msdnserverlist?organization=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_id</b> <i>required</i>	Organization	integer(int32)	
Query	<b>reportType</b> <i>required</i>	Report Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.71. NTP Offset List

```
GET /reports/ntpoffsetlist
```

#### Description

Provides NTP offset information of IPAM, DNS or DHCP appliances defined in the TCPWave IPAM.

Below is the example request:

```
/tims/rest/reports/ntpoffsetlist?reportType=ntpoffsetRpt&server_type=DNS
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>reportType</b> <i>required</i>	Report Type	string	
Query	<b>server_type</b> <i>required</i>	Appliance Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.72. Object Type List

```
GET /reports/objecttypelist
```

#### Description

Provides a list of existing object types for auditing purposes.

Below is the example request:

```
/tims/rest/reports/objecttypelist
```

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.73. Report chart list

```
GET /reports/reportchartlist
```

#### Description

Obtains a list to display the chart for reports.

Below is the example request:

```
/tims/rest/auditreports/auditnetworkslist?actionType=active&org_id=1641&draw=1&start=0&length=10&filterRules=[{"field":"networkAddress","op":"contains","value":"2"}]
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>optional</i>	Action type	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>fromDate</b> <i>required</i>	Starting date for fetching records	string	
Query	<b>ipAddress_domainName</b> <i>optional</i>	IP address or domain name	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	order param(asc/desc)	string	
Query	<b>org_id</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>organization</b> <i>optional</i>	Organization Name	string	
Query	<b>period</b> <i>optional</i>	period	string	
Query	<b>reportType</b> <i>required</i>	Report types (Network/subnet/object etc)	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	
Query	<b>toDate</b> <i>required</i>	Ending date for fetching records	string	

#### Responses

HTTP Code	Description	Schema



HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.74. Lists all Reports

GET /reports/reportlist

#### Description

Provides report details in grid for the audit reports in the TCPWave IPAM .

Below are the sample query parameter values accepted:

Starting date for fetching records:02/22/2019

Ending date for fetching records:02/22/2019

Action type:active/deleted

IP Address or domain name:10.11.0.3/8 /domain.com

Organization ID:1656

Organization Name:Internal

Page Draw Param:1

Starting Page Number:1

Page Length:1

Filter string:

Action performed :add/edit/delete etc

Sort String:

Appliance IP String:10.11.0.2

MAC Address:aa:bb:cc:dd:ee:ff

Host Name:abcd

order param(asc/desc):

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>action</b> <i>optional</i>	Action performed	string	
Query	<b>actionType</b> <i>required</i>	Action type	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>fromDate</b> <i>required</i>	Starting date for fetching records	string	
Query	<b>host_name</b> <i>optional</i>	Host Name	string	
Query	<b>ipAddress_domainName</b> <i>required</i>	IP Address or domain name	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>macAddress</b> <i>optional</i>	MAC Address	string	
Query	<b>order</b> <i>optional</i>	order param(asc/desc)	string	
Query	<b>org_id</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>organization</b> <i>optional</i>	Organization Name	string	
Query	<b>reportType</b> <i>required</i>	Report types (Network/subnet/object etc)	string	
Query	<b>serverIp</b> <i>optional</i>	Appliance IP String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	
Query	<b>toDate</b> <i>required</i>	Ending date for fetching records	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>
500		No Content

## Consumes

- text/plain

## Produces

- application/json
- application/xml

### 4.14.75. Lists all Columns for DNS RPZ Events By Appliance

```
GET /reports/rpzlogsgridlist
```

## Description

Provides RPZ log report details in the TCPWave IPAM.

Below are the sample query parameter values accepted:

```
/tims/rest/reports/rpzlogsgridlist?reportType=rpzLogsRpt&draw=1&start=0&length=20&filterRules=[{"field":"cache_dns_server","op":"contains","value":"d"}]
```

## Parameters

Type	Name	Description	Schema	Default
Query	<b>action</b> <i>optional</i>	Action performed	string	
Query	<b>clientId</b> <i>required</i>	Client IP	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	order param(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>reportType</b> <i>required</i>	Report type)	string	
Query	<b>serverIp</b> <i>required</i>	IP of DNS Cache server	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	

## Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>
500		No Content

## Consumes

- text/plain

## Produces

- application/json
- application/xml

### 4.14.76. Schedule Report Email

```
POST /reports/sched_emailreport
```

## Description

User can Schedule the time to email the report in PDF format to the email address of the contacts present in the TCPWave IPAM.

Below example shows the sample request JSON:

```
{ "reportType": "Zone", "a1": "all", "dropdown_status": "active", "ipAddress_domainName": "test.com", "fromDate": "08/20/2019", "toDate": "08/23/2019", "email_recipient": "test@example.com" }
```

## Parameters

Type	Name	Description	Schema	Default
Query	<b>adminName</b> <i>required</i>	Name of Network Admin who is scheduling the email	string	
Query	<b>adminRole</b> <i>required</i>	Role of the Admin (FADM/SADM/UADM/RADM)	string	
Query	<b>day</b> <i>required</i>	Day of Execution of the scheduled operation	integer(int32)	
Query	<b>description</b> <i>required</i>	Description about the scheduled operation	string	
Query	<b>endtime</b> <i>required</i>	Ending time for executing the scheduled operation	string	
Query	<b>frequency</b> <i>required</i>	Frequency of the scheduled operation	string	
Query	<b>repeat</b> <i>required</i>	Occurrences of the scheduled operation	integer(int32)	
Query	<b>repeatCount</b> <i>required</i>	Count for repetition of scheduled operation	integer(int32)	
Query	<b>repeatInterval</b> <i>required</i>	Time duration between repetition of the scheduled operation	integer(int64)	
Query	<b>runtime</b> <i>required</i>	Execution time of the scheduled operation	string	
Query	<b>starttime</b> <i>required</i>	Starting time for executing the scheduled operation	string	
Body	<b>body</b> <i>optional</i>		<a href="#">Audit Report</a>	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.14.77. Administrator List

```
GET /reports/scheduleadminauditlist
```

#### Description

Provides a list of existing administrator and deleted administrator for auditing purposes.

Below is the example request:

```
/tims/rest/reports/scheduleadminauditlist?actionType=active
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>required</i>	Action type(active/deleted)	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.78. Schedule Events Audit Report

```
GET /reports/schedulereportlist
```

#### Description

Provides report details in grid for Schedule Events audit report in the TCPWave IPAM.

Below is the example request:

/tims/rest/reports/schedulereportlist?  
fromDate=03/01/2019&toDate=03/06/2019&reportType=ScheduleAuditRpt&ipAddress\_domainName=Event,Script,Callback,Rest,Patch,&userId=2527&draw=1&  
[{"field":"action\_by","op":"contains","value":"s"}]

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>action</b> <i>optional</i>	Action performed	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>fromDate</b> <i>required</i>	Starting date for fetching records	string	
Query	<b>ipAddress_domainName</b> <i>optional</i>	Job Type	string	
Query	<b>jobId</b> <i>optional</i>	ID of the current Job	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	order param(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>reportType</b> <i>required</i>	Report types (ScheduleAuditRpt)	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	
Query	<b>toDate</b> <i>required</i>	Ending date for fetching records	string	
Query	<b>user</b> <i>optional</i>	ID of the active User	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>
500		No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.14.79. DNS Appliances List

```
GET /reports/serverConfigReportlist
```

#### Description

Provides a list of existing DNS Appliances for auditing purposes.

Below is the example request:

```
/tims/rest/reports/serverConfigReportlist
```

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.14.80. Appliance configuration audit report

### Description

Provides report details in grid for Appliance configuration audit report in the TCPWave IPAM.

Below is the example request:

/tims/rest/reports/serverConfigreportlist?

fromDate=03/01/2019&toDate=03/06/2019&reportType=serverConfigurationAuditRpt&ipAddress\_domainName=10.11.0.2&server\_type=Banner,NTP,SNMP,TACACS+  
[{"field":"action\_type","op":"contains","value":"c"}]

### Parameters

Type	Name	Description	Schema	Default
Query	<b>action</b> <i>optional</i>	Action performed	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>fromDate</b> <i>required</i>	Starting date for fetching records	string	
Query	<b>ipAddress_domainName</b> <i>required</i>	IP Address of this domain	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	order param(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>reportType</b> <i>required</i>	Report types (Network/subnet/object etc)	string	
Query	<b>server_type</b> <i>required</i>	Type of the Server (DNS/DHCP)	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	
Query	<b>toDate</b> <i>required</i>	Ending date for fetching records	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>

### Consumes

- text/plain

### Produces

- application/json
- application/xml

#### 4.14.81. DNS Server to zone count result

GET /reports/servertozonecount

### Description

Provides DNS Zone Allocation Chart in the TCPWave IPAM Dashboard.

Below are the sample query parameter values accepted:

/rest/reports/servertozonecount?organization\_name=Internal

### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization List	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListAudit Report Details</a>

### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.82. Lists all Columns for DNS Views Report

```
GET /reports/viewsgridlist
```

#### Description

Provides list of all Columns for DNS Views Audit Report grid in the TCPWave IPAM.

Below are the sample query parameter values accepted:

/tims/rest/reports/viewsgridlist?

fromDate=03/01/2019&toDate=03/06/2019&reportType=viewsAuditReport&view\_name=dns\_view&org\_id=1655&draw=1&start=0&length=20&filterRules=

[]

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>action</b> <i>optional</i>	Action performed	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Search DNS Views	string	
Query	<b>fromDate</b> <i>required</i>	Starting date for fetching records	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	order param(asc/desc)	string	
Query	<b>org_id</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>q</b> <i>optional</i>	Filter String	string	
Query	<b>reportType</b> <i>required</i>	Report type)	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	
Query	<b>toDate</b> <i>required</i>	Ending date for fetching records	string	
Query	<b>view_name</b> <i>required</i>	Name of the View	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.14.83. Zone Template List

```
GET /reports/zonetemplauditlist
```

#### Description

Provides a list of existing zone templates and deleted zone templates for auditing purposes.

Below is the example request:

/tims/rest/reports/zonetemplauditlist?actionType=active

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>required</i>	Action type(active/deleted)	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

## Consumes

- text/plain

## Produces

- application/json
- application/xml

## 4.15. Audit Data Backup Files Service

### 4.15.1. Audit Backup files List

```
GET /auditbackup/list
```

## Description

Provides a list of audit backup files uploaded in the TCPWave IPAM.

Below example shows the sample request URL:

```
/rest/auditbackup/list
```

## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">AuditBackup</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

## Consumes

- text/plain

## Produces

- application/json
- application/xml

### 4.15.2. Audit Backup files List

```
GET /auditbackup/listsearchbackupfiles
```

## Description

Provides a list of audit backup files uploaded in the TCPWave IPAM.

Below example shows the sample request URL:

```
/rest/auditbackup/listsearchbackupfiles?searchVal=test.com
```

## Parameters

Type	Name	Description	Schema	Default
Query	<b>searchVal</b> <i>required</i>	search Value	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">AuditBackup</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

## Consumes

- text/plain

## Produces

- application/json
- application/xml

### 4.15.3. Backup Audit

```
GET /auditbackup/reportlistbydate
```

## Description

Obtains a backup report in grid in the TCPWave IPAM.

Below are the sample query parameter values accepted:

Starting date for fetching records:02/22/2019

Ending date for fetching records :02/22/2019

Page Draw Param:1

Starting Page Number:1

Page Length:20

Filter string:

Sort String:

order param(asc/desc):

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>fromDate</b> <i>required</i>	Starting date for fetching records	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	order param(asc/desc)	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	
Query	<b>toDate</b> <i>required</i>	Ending date for fetching records	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>
500	TIMS-8059: Please select report start date. TIMS-8060: Please select report end date.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.15.4. Audit Backup Report by file name

```
GET /auditbackup/reportlistbyfilename
```

#### Description

Provides a list of audit backup data from the uploaded backup file in the TCPWave IPAM.

Below example shows the sample request URL:

```
/rest/auditbackup/reportlistbyfilename?fileName=audit_history_attachment_backup_7_2019.csv&start=0&length=20
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>fileName</b> <i>required</i>	File Name	string	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	order param(asc/desc)	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json



- application/xml

## 4.16. Authentication Configuration Service

### Description

This service provides the API to list and modify the current authentication configuration of the TCPWave IPAM. The information includes Minimum Password Length, Password Complexity ( 1- Alpha Numeric, 2 - Alpha Numeric with minimum one Capital Letter, 3 - Alpha Numeric with minimum one special character ), Allow Similar passwords as previous, Password Expiration time in days, Password reuse criteria, Maximum failed login attempts by the user before the account is locked, whether a newly created user has to change password during first login, and the idle time out for session etc.

#### 4.16.1. Edit Authentication

POST /authconf/edit

### Description

Modifies the TCPWave IPAM authentication configuration parameter values. Users can tune the behavior of the authentication mechanism to align with their organization security policy. Some of the parameters that can be modified from this interface includes - Minimum Password Length, Password Complexity ( 1- Alpha Numeric, 2 - Alpha Numeric with minimum one Capital Letter, 3 - Alpha Numeric with minimum one special character ), Allow Similar passwords as previous, Password Expiration time in days, Password reuse criteria, Maximum failed logins attempts by the user before the account is locked, whether a newly created user has to change password during first login and the idle time out for session. Please refer to the TCPWave IPAM Administration Reference Manual for additional information.

Below example shows sample request JSON:

```
{"min_password_length":"8","password_complexity":"2","allow_similar":"false","password_expiration":"60","password_reuse":"5","max_failed_attempts":"5","re
```

### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		<a href="#">Authentication Configuration</a>	

### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

### Consumes

- application/json
- application/xml

### Produces

- application/json
- application/xml

#### 4.16.2. Get Authentication Configuration

GET /authconf/get

### Description

Obtains the current authentication configuration parameter values. For a comprehensive list of the parameters and their significance, please refer to the TCPWave IPAM Administrator Reference Manual.

Below example shows sample request URL:

rest/authconf/get

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Authentication Configuration</a>

### Consumes

- text/plain

### Produces

- application/json
- application/xml

## 4.17. Authentication Permission Service

### Description

This service provides API's to add, edit, delete and get permission for Administrator/Administrator Groups in the TCPWave IPAM.

#### 4.17.1. Create Administrator/Administrator Group's Permission

POST /authPermission/create

### Description

Create an authentication permission

Below example shows sample request JSON:

```
{ "level":1,"privilege":4,"selectAll":0,"organizationID":1700,"organizationName":"Internal","functionName":"Appliance Groups","levelID":1014,"roleID":7,"role":"CADM","targetList":{"Appliance Groups":[118]}}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Administrator Permission Create	<a href="#">Permission</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation., TIMS-15077: Authorization function's target list cannot be empty.	No Content

#### Consumes

- `application/json`
- `application/xml`
- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.17.2. Create Administrator Permission

```
POST /authPermission/create-entity-permission
```

#### Description

Create an authentication permission

Below example shows sample request JSON:

```
{ "level":1,"privilege":4,"selectAll":0,"organizationID":1700,"organizationName":"Internal","functionName":"Appliance Groups","levelID":1014,"roleID":7,"role":"CADM","targetList":{"Appliance Groups":[118]}}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Auth Permission Create	< <a href="#">Permission</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- `application/json`
- `application/xml`
- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.17.3. Delete Administrator Permission

```
POST /authPermission/delete
```

#### Description

Delete an authentication permission

```
{ "id":118,"permissionLevel":"admin","level":0,"levelID":22327,"functionID":59,"targetID":null,"functionName":"IPv4 Objects","functionValue":"10.1.10.5","adminGroupName":null,"adminName":"nadm","privilege":2,"organizationName":"Internal","organizationID":1700,"select
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Auth Permission Delete	< <a href="#">Permission</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- application/json
- application/xml

#### 4.17.4. Permissions List

GET /authPermission/entity/list

##### Description

Get the list of all the Administrator/Administrator Groups Permissions for specified function defined in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/authPermission/list/entity/list?fnName=functionName&fnValueIDs=fnValueIDs&org=orgName

##### Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>	Session token for authorization	string	
Query	<b>fnName</b> <i>required</i>	Function Name	string	
Query	<b>fnValueIDs</b> <i>required</i>	Comma separated Function Value's IDs	string	
Query	<b>org</b> <i>required</i>	Organization Name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Permission</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.17.5. Permissions List

GET /authPermission/list

##### Description

Get the list of all the Administrator and Administrator Group Permissions defined in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/authPermission/list?start=1&length=20

##### Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>	Session token for authorization	string	
Query	<b>customFilterRules</b> <i>optional</i>	Custom Filter String	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization list	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Permission Range	integer(int32)	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListPermission</a>
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.17.6. Permission Search

GET /authPermission/search

#### Description

Searches for a given authentication permission in the TCPWave IPAM with giving input string.

The example listed below shows a sample request URL:

/rest/authPermission/search?start=1&length=20

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization list	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Template Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListPermission</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.17.7. Update Administrator Permission

POST /authPermission/update

#### Description

Update an authentication

permission({"id":118,"permissionLevel":"admin","level":0,"levelID":22327,"functionID":59,"targetID":null,"functionName":"IPv4

Objects","functionValue":"10.1.10.5","adminGroupName":null,"adminName":"nadm","privilege":"2","organizationName":"Internal","organizationID":1700,"selected":false})

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Authentication Permission Update	<a href="#">Permission</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

### 4.18. Authentication Token Management

#### Description

This service provides the API to list, generate, and deactivate authentication tokens in TCPWave IPAM. These tokens provide one way of securing the REST API to the TCPWave IPAM from third party applications.

#### 4.18.1. Session Token Deactivate

```
POST /auth_token/deactivate
```

#### Description

Deactivates a Session Token in the TCPWave IPAM. Functional Admin can deactivate any token in the system where as other admins can revoke only the tokens generated by them. Once revoked, the REST API calls from the external application using this token will no longer be authorized.

Below example shows sample request JSON (session token):  
["8ac763ea-6855-47a3-ac1d-5ebaf94cd066"]

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		< string > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7002: Permission information cannot be retrieved.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- text/plain

#### 4.18.2. Get Auth Token

```
POST /auth_token/get
```

#### Description

An internal service call used by the TCPWave IPAM to generate a Session Token based on the current logged in users credentials. This call works only if there is an HTTP Session associated that is generated through TIMS login mechanism and therefore not meant for external REST API integration.

Below example shows sample request JSON:

```
{"application": "Session-test", "ip": "10.1.0.3", "description": "session token"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		<a href="#">Authentication Token</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Authentication Token Response</a>

#### Consumes

- application/json
- application/xml

#### Produces

- application/json

#### 4.18.3. Session Token List

```
GET /auth_token/list
```

#### Description

Obtains a list of all the Session Tokens defined in the TCPWave IPAM. Functional Admin can list all the Session Tokens. Rest of the users can see only the session tokens that they generated.

The example listed below shows a sample request URL:

```
rest/auth_token/list
```

#### Responses

HTTP Code	Description	Schema
-----------	-------------	--------

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Authentication Token</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.19. Authentication Type

#### Description

This service provides the API to list the various authentication mechanisms supported by the TCPWave IPAM the and shows the current active mechanism selected. It also provides an interface to select a particular mechanism as the active authentication mechanism, provided the pre-conditions for that mechanism are satisfied.

#### 4.19.1. Active Authentication Configuration

```
GET /authype/getactive
```

#### Description

Gets the active authentication mechanism used by the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/authype/getactive
```

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Authentication Type</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.19.2. Authentication Configuration List

```
GET /authype/list
```

#### Description

Obtains a list of Authentication mechanisms supported in the TCPWave IPAM . Currently supported mechanisms include Kerberos-Active Directory, LDAP, PAM, RADIUS, TACACS+, and TIMS internal authentication mechanism.

The example listed below shows a sample request URL:

```
/tims/rest/authype/list
```

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Authentication Type</a> > array
500	TIMS-4061: TACACS+ Server is not configured. TIMS-4064: RADIUS Server is not configured. TIMS-4067: LDAP Server is not configured. TIMS-4070: KERBEROS Key Distribution Center (KDC) is not configured.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.19.3. Authentication Set Active

```
POST /authype/setactive
```

#### Description

Sets a given authentication mechanism as active in the TCPWave IPAM. This property can be changed only by the UADM or a FADM. The call will succeed only if the necessary conditions for the authentication mechanism are defined in the global options and are functional. For comprehensive list of the supported authentication mechanisms, please refer to the TCPWave IPAM Administrator Reference Manual.

The example listed below shows a sample request URL:

```
/authype/setactive?code=PAM
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>code</b> <i>required</i>	Authentication Code	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-4000: Invalid authentication type code specified.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

## 4.20. Authorization Information

### Description

This service provides the API to list and manage the permissions to network elements in the TCPWave IPAM.

#### 4.20.1. Add permissions to an entity

POST /permission/add

### Description

Manages the permissions on an Object, Subnet, Network or a Subnet Group for Admins and Admin Groups. Input is specified as AuthorizationInfo structure of the following format - target\_type - Identifies the resource for which permissions are being granted. It is a single character that can take the following valid values - 'N' (Network), 'S' (Subnet), 'O' (Object), and 'G' (Subnet Group) The instances of the entity for which the permissions are being granted are specified using either target\_ids 'or' target\_names. Using target\_ids we can identify the instance using the internal database ID of the instance. This is generally used from the GUI where the ID information is already available. From CLI and External Applications target\_names will be used to identify the instance. In case of Network and Subnet the start address is specified, for Object the address of the object is specified and in case of the Subnet Group the group name is specified. groups - List of Admin groups that are granted with the permissions, admins - List of admins that are granted with the permissions. The previous permissions on the resources are removed and permissions are granted to the specified admins and admin groups.

The example listed below shows a sample request URL:

/rest/permission/view?target\_type=N&org\_name=Internal

### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_id</b> <i>optional</i>	organization ID	integer(int32)	
Query	<b>org_name</b> <i>required</i>	organization name	string	
Body	<b>body</b> <i>optional</i>		<a href="#">Permission Information</a>	

### Responses

HTTP Code	Description	Schema
500	TIMS-4011: Target type is not valid, TIMS-4012: Admin group is not valid.	No Content

### Consumes

- application/json
- application/xml

### Produces

- application/json
- application/xml

#### 4.20.2. Add permissions

POST /permission/addmultiple

### Description

Add permissions to an entity in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "admins": [ { "name": "jdoe", "level": "N", "authorized": "true" } ], "target_names": [ "10.1.10.2", "10.1.10.3", "target_type": "N" ] }
```

### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_id</b> <i>optional</i>	organization ID	integer(int32)	

Type	Name	Description	Schema	Default
Query	<b>org_name</b> <i>required</i>	organization name	string	
Body	<b>body</b> <i>optional</i>		< <a href="#">Permission Information</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-4011: Target type is not valid, TIMS-4012: Admin group is not valid.	No Content

#### Consumes

- application/json
- application/xml

#### 4.20.3. Permissions List

```
GET /permission/list
```

#### Description

Obtains a list of permissions associated with an entity. Returns the list of users and admin groups from the organization that the entity belongs to and the permissions that the entity has in the TCPWave IPAM. This is used in the TCPWave IPAM GUI Edit Permissions screen to show the existing permissions and allow for a change of permissions. The permissions are marked if they are derived permissions - eg., permissions on an object inherited from the permission on a subnet or network, and if the permissions are granted to the individual admin or at a admin group level.

The example listed below shows a sample request URL:

```
/rest/permission/list?target_type=N&org_name=Internal&target_name=10.0.0.0
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_id</b> <i>optional</i>	organization ID	integer(int32)	
Query	<b>org_name</b> <i>required</i>	organization name	string	
Query	<b>target_id</b> <i>optional</i>	target entity id(i.e Network ID)	integer(int32)	
Query	<b>target_name</b> <i>required</i>	target entity name(i.e Network name)	string	
Query	<b>target_type</b> <i>required</i>	entity type N(network)/S(sub-net)/G(subnetgroup)/D(Domain)/O(object)	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Permission Information</a>
500	TIMS-1100: Both Organization Id and Organization Name cannot be null, TIMS-1101: Cannot find organization, TIMS-1100: Both Target Id and Target Name cannot be null, TIMS-1100: Cannot find target.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.20.4. Permissions View

```
GET /permission/view
```

#### Description

Lists the Admins and Admin Groups that have permissions on the given entity. This is used in the TCPWave IPAM GUI to show read-only view of the permissions. The permissions are marked if they are derived permissions - eg., permissions on an object inherited from the permission on a subnet or network, and if the permissions are granted to the individual admin or at a admin group level.

The example listed below shows a sample request URL:

```
/rest/permission/view?target_type=N&org_name=Internal&target_name=10.0.0.0
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_id</b> <i>optional</i>	organization ID	integer(int32)	



Type	Name	Description	Schema	Default
Query	<b>org_name</b> <i>required</i>	organization name	string	
Query	<b>target_id</b> <i>optional</i>	entity id (i.e Network ID)	integer(int32)	
Query	<b>target_name</b> <i>required</i>	entity name (Name of the subnet group or address of Network/Subnet/Object/Domain)	string	
Query	<b>target_type</b> <i>required</i>	entity type N(network)/S(subnet)/G(subnetgroup)/O(object)/N6(ipv6network)/S6(ipv6subnet)/G6(ipv6 subnetgroup)/O6(ipv6 object)/D(Domain)	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Permission Information</a>
500	TIMS-1100: Both Organization Id and Organization Name cannot be null, TIMS-1101: Cannot find organization, TIMS-1100: Both Target Id and Target Name cannot be null, TIMS-1100: Cannot find target	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

### 4.21. Autonomous System Number Service

#### 4.21.1. Add Autonomous System Number

POST /asn/add

#### Description

This operation creates a new autonomous system number in the TCPWave IPAM.

Example:

```
{ "name": "myasn", "organization_name": "Internal", "description": "test", "as_number": "12345", "email_id": "q@gmail.com" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Autonomous System Number details.	<a href="#">Autonomous System Number</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1916: Organization name cannot be null. TIMS-1352: Organization does not exist: {0}, TIMS-15111: Autonomous System Number already exists: {0}, TIMS-15112: Autonomous System Number does not exist: {0}.	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

#### 4.21.2. Delete Autonomous System Number

GET /asn/delete

#### Description

This operation deletes the autonomous system number present in the TCPWave IPAM.

Example:

```
/rest/asn/delete?name=myasn&organization=orgName
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>as_number</b> <i>required</i>	Provider Name	integer(int64)	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- text/plain
- application/json

#### Produces

- application/json
- application/xml

#### 4.21.3. Edit Autonomous System Number

POST /asn/edit

#### Description

This operation updates an existing autonomous system number in the TCPWave IPAM.

Example:

```
{name:"myasn","organization_name":"Internal""as_number":"12345""oldName":"Test","email_id":"q@gmail.com","description":"Testing"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Autonomous System Number details.	<a href="#">Autonomous System Number</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1916: Organization name cannot be null. TIMS-1352: Organization does not exist: {0}, TIMS-15111: Autonomous System Number already exists: {0},TIMS-15112: Autonomous System Number does not exist: {0}.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.21.4. Autonomous System Number details

GET /asn/get

#### Description

This operation retrieves the details of an autonomous system number in the TCPWave IPAM.

Example:

```
/rest/asn/get?name=asn&organization=orgName
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>as_number</b> <i>required</i>	AS Number	integer(int64)	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Autonomous System Number</a>
500	TIMS-12074: Provider name cannot be null.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.21.5. List AS Numbers

GET /asn/list

#### Description

This operation retrieves the list of autonomous system numbers present in the TCPWave IPAM.

Example:  
/tims/rest/asn/list?start=1&length=20

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Comma Separated Organization Names	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting AS Number Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAutonomous System Number</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

## 4.22. Bookmark Service

### Description

This service provides API's to obtain list of bookmarks defined in the TCPWave IPAM by the user and to create a new bookmark in the TCPWave IPAM.

#### 4.22.1. Add bookmark

```
POST /bookmark/add
```

### Description

Creates a new bookmark in the TCPWave IPAM. Bookmark is a shortcut created by user for easy navigation. These bookmarks are displayed in the left side navigation menu of the TCPWave IPAM GUI screens and will take the control to the bookmarked screen when clicked. Bookmarks can be placed on Networks, Subnets, and Objects and are created selecting create book mar menu item on the context-menu. Bookmarks are used from within TCPWave IPAM GUI.

Below example shows sample request JSON:

```
{"type":"ipamAppliance","value":"TIMS-125","queryString":"address=192.168.0.125&isEdit=true","user":"twcadm","orgName":null,"orgId":null}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Bookmark Details	<a href="#">Bookmark</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1025: Organization id is not valid: 59912018: Bookmarks limit has reached to maximum({0}) for the user as defined in global option. Please delete existing bookmarks or increase maximum limit of global option: Maximum Allowed Bookmarks.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.22.2. Delete Bookmark

```
POST /bookmark/delete
```

### Description

Deletes a bookmark previously created in the TCPWave IPAM by the user.

Below example shows sample request url:

/bookmark/delete?queryString=10.1.10.0/24&type=Network

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>id</b> <i>optional</i>	ID of the selected record	integer(int32)	
Query	<b>queryString</b> <i>required</i>	Information of selected record (i.e. address=192.168.0.120&type=BIND AUTH&isClone=no)	string	
Query	<b>type</b> <i>required</i>	Type of the selected record (i.e. Network)	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1052: Please enter a valid query string.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.22.3. Delete All Bookmark

```
POST /bookmark/deleteAll
```

#### Description

Deletes all the bookmark defined in the TCPWave IPAM.

Below example shows the sample request URL:

rest/bookmark/deleteAll

#### Responses

HTTP Code	Description	Schema
500	TIMS-12063: There is no bookmark to remove	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.22.4. Delete Bookmark Section

```
POST /bookmark/deleteSection
```

#### Description

Deletes a bookmark section created in the TCPWave IPAM by the user.

Below example shows the sample request JSON:

/bookmark/deleteSection?type=Location

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>type</b> <i>required</i>	Type of the selected record (i.e. Network)	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-12064: Both id and query string cannot be null.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.22.5. Get Bookmark List

GET /bookmark/List

### Description

Obtains a list of bookmarks defined in the TCPWave IPAM by the user. Bookmark is a shortcut created by user for easy navigation.

Below example shows sample request URL:  
rest/bookmark/list?page=1&rows=20

### Parameters

Type	Name	Description	Schema	Default
Query	<b>user</b> <i>required</i>	current logged-in User Name	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Tree Node</a> > array

### Consumes

- text/plain

### Produces

- application/json
- application/xml

## 4.23. Central Logging Service

### Description

This service provides the information related to the Central logging facility in the TCPWave IPAM.

#### 4.23.1. Central Logging Configuration

GET /centralLogging/centralLoggingConfig

### Description

Returns the current Central Logging Configuration settings in the TCPWave IPAM.

The example listed below shows a sample request URL:  
/rest/centralLogging/centralLoggingConfig

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">CentralLoggingConfig</a>
500	TIMS-8609: Configuration type is either null or empty.	No Content

### Consumes

- text/plain

### Produces

- application/json
- application/xml

#### 4.23.2. Central Logging Configuration

GET /centralLogging/centralLoggingFullConfig

### Description

Returns the current Central Logging Configuration settings, including the different server types logging settings in the TCPWave IPAM.

Below example shows the sample request URL:  
/rest/centralLogging/centralLoggingFullConfig

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">CentralLoggingFullConfig</a>
500	TIMS-8601: Configuration type is null, TIMS-8602: Configuration type is empty.	No Content

### Consumes

- text/plain

### Produces

- application/json
- application/xml

#### 4.23.3. Central Logging Server Logs

GET /centralLogging/centralLoggingServerLogConfig

#### Description

Returns the current Central Logging Configuration settings for a particular server type in the TCPWave IPAM.

Below example shows the sample request URL:

/rest/centralLogging/centralLoggingServerLogConfig?serverType=IPAMServer

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>serverType</b> <i>required</i>	Server Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">CentralLoggingServerLog</a> > array
500	TIMS-8610: Server type is either null or empty. 8604: Server type is null. TIMS-8605: Server type is empty.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.23.4. Update Central Logging Configuration Information.

POST /centralLogging/fullConfigUpdate

#### Description

Updates the Central Logging Configuration in the TCPWave IPAM.

Below example shows the sample request JSON:

```
{ "dnsLogs": [{"serverType": "DNS", "logStatus": "Yes", "logName": "DNS Log"}], "dhcpLogs": [{"serverType": "DHCP", "logStatus": "Yes", "logName": "DHCP Task Log"}], "ipamLogs": [{"serverType": "IPAM", "logStatus": "Yes", "logName": "TIMS Log"}], "centralLoggingConfigs": [{"configStatus": "No", "configName": "AvroSink", "configType": "AvroSink", "configProperties": {"clog_host": "localhost", "clog_port": "9999"}}, {"configStatus": "Yes", "configName": "Splunk", "configType": "Splunk", "configProperties": {"clog_host": "10.1.10.178", "clog_port": "9997"}}, {"configName": "Elasticsearch", "configType": "Elasticsearch", "configStatus": "No"}]}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Central Logging Configuration details	<a href="#">CentralLoggingFullConfig</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-8601: Configuration type is null, TIMS-8602: Configuration type is empty, TIMS-8603: Configuration type does not exist.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

#### 4.23.5. Server Central Logging Setting

POST /centralLogging/serverCentralLoggingSetting

#### Description

The Central Logging Service provides the functionality to send different IPAM logs to a data collection server, like Flume Agent.

Below example shows the sample request URL:

rest/centralLogging/serverCentralLoggingSetting

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">Server Information</a> > array	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-8611: Central Logging is not configured on the IPAM server. Please configure it first, TIMS-8612: Central Logging feature is not implemented.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- text/plain

### 4.24. Certificate Management Service

#### Description

This class provides services related to Certificate management such as import, delete, list certificates in the TCPWave IPAM. It also provides validity related information of a certificate.

#### 4.24.1. Get the number of days the server certificates are valid

```
GET /certmgmt/allcertValidDays
```

#### Description

Retrieve the number of days the server certificates are valid for in the TCPWave IPAM. Refer Administrator Reference document for more information.

Below example shows the sample request URL:

```
/rest/certmgmt/allcertValidDays
```

#### Responses

HTTP Code	Description	Schema
200	successful operation	< string > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.24.2. Certificate Delete

```
POST /certmgmt/certDelete
```

#### Description

Deletes a Secure Socket Layer (SSL) certificate from the TCPWave IPAM. SSL certificates are primarily used to secure the communication between two end points.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Certificate details	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-8307: This certificate cannot be deleted as it is the only certificate in the keystore.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.24.3. Import Certificate

```
POST /certmgmt/certImport
```

#### Description

Imports a new Secure Socket Layer (SSL) certificate into the TCPWave IPAM. SSL certificates are primarily used to secure the communication between two end points.

Below example shows the sample request URL:

```
{"cfile":"cert.pem","alias":"win-bthbu90j7o8","storepass":"","abc@123","trustCA":false,"kfile":"test.txt"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Certificate details	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-8317: Please enter Certificate file.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.24.4. Number of days Certificate is valid for

```
GET /certmgmt/certValidDays
```

#### Description

Provides the number of days that a Secure Socket Layer (SSL) certificates is valid for. SSL certificates are primarily used to secure the communication between two end points.

Below example shows the sample request URL:

```
/rest/certmgmt/certValidDays
```

#### Responses

HTTP Code	Description	Schema
200	successful operation	integer(int64)

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.24.5. Certificate validation

```
GET /certmgmt/certValidate
```

#### Description

Validates a given Secure Socket Layer (SSL) certificate defined in the TCPWave IPAM. SSL certificates are primarily used to secure the communication between two end points.

Below example shows the sample request URL:

```
/rest/certmgmt/certValidate?cfile=cfilevalue
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cfile</b> <i>required</i>	Certificate File	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Certificate</a>
500	TIMS-8304: Certificate is not valid.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain



#### 4.24.6. Lists Certificate

```
GET /certmgmt/certlist
```

##### Description

Obtains a list of all the Secure Socket Layer (SSL) certificates defined in the TCPWave IPAM. SSL certificates are primarily used to secure the communication between two end points.

Below example shows the sample request URL:

```
rest/certmgmt/certlist
```

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Certificate</a> > array
500	TIMS-8303: Certificate get list failed.	No Content

##### Consumes

- `text/plain`

##### Produces

- `application/json`
- `application/xml`

#### 4.24.7. Change Keystore Password

```
POST /certmgmt/changeKeystorePassword
```

##### Description

Change the Server keystore password in the TCPWave IPAM. For more information on managing the TCPWave Server Certificates, please refer to the Administrator Reference document.

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Server keystore password details	string	

##### Responses

HTTP Code	Description	Schema
500	TIMS-8308: An error has occurred while changing the certificate store password.	No Content

##### Consumes

- `application/json`
- `application/xml`
- `text/plain`

##### Produces

- `application/json`
- `application/xml`
- `text/plain`

#### 4.24.8. Duplicate Alias check

```
POST /certmgmt/duplicateAlias
```

##### Description

Data Integrity check defined in the TCPWave IPAM to check if a Secure Socket Layer (SSL) certificate has a duplicate definition. SSL certificates are primarily used to secure the communication between two end points.

Below example shows the sample request URL:

```
/rest/certmgmt/duplicateAlias
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Certificate details	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	string

##### Consumes

- `application/json`
- `application/xml`
- `text/plain`

##### Produces

- application/json
- application/xml
- text/plain

#### 4.24.9. Web Server Restart

POST /certmgmt/jettyRestart

##### Description

As a part of the certificate management logic, a restart of the Web server is required to put the property up certificate into use. This API call restarts the embedded web server.

The example listed below shows a sample request URL:

/rest/certmgmt/jettyRestart

##### Responses

HTTP Code	Description	Schema
500	TIMS-8102: Server address is empty, TIMS-8101: Service to restart jetty server is not defined.	No Content

##### Consumes

- application/json
- application/xml
- text/plain

##### Produces

- application/json
- application/xml
- text/plain

#### 4.25. Chart Service

##### Description

This class is used to provide service to get statistics for rendering charts in the TCPWave IPAM.

##### 4.25.1. Network Statistics

GET /chart/allocationpercent

##### Description

Get detailed statistics information of the current network in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/chart/allocationpercent?address=networkIpAddress

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Network IP Address	string	
Query	<b>id</b> <i>optional</i>	Network ID	integer(int32)	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Network Stats</a>

##### Consumes

- text/plain
- application/xml

##### Produces

- application/json
- application/xml

##### 4.25.2. Object Allocation

GET /chart/objectAlloc

##### Description

Displays the number of objects allocated based on the object allocation type in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/chart/objectAlloc?id=4

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>id</b> <i>optional</i>	ID	integer(int32)	

## Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Object Allocation</a>

## Consumes

- text/plain

## Produces

- application/json
- application/xml

### 4.25.3. Object Type

```
GET /chart/objectType
```

## Description

Displays the number of objects allocated based on the object type in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/chart/objectType?id=idValue
```

## Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>	Session token for authorization	string	
Query	<b>id</b> <i>optional</i>	ID	integer(int32)	

## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Object Type Chart</a> > array

## Consumes

- text/plain

## Produces

- application/json
- application/xml

### 4.25.4. Network Statistics

```
GET /chart/top10subnets
```

## Description

Get detailed statistics information of the current network in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/chart/top10subnets?address=networkIpAddress
```

## Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Network IP Address	string	
Query	<b>id</b> <i>optional</i>	Network ID	integer(int32)	

## Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Network Stats</a>

## Consumes

- text/plain
- application/xml

## Produces

- application/json
- application/xml

### 4.25.5. Network Statistics

```
GET /chart/top10v6subnets
```

## Description

Get top 10 subnets from the current IPv6 network in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/chart/top10v6subnets?orgName=orgName&address=networkIpAddress

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Network IP Address	string	
Query	<b>id</b> <i>optional</i>	Network ID	integer(int32)	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Network Stats</a>

#### Consumes

- text/plain
- application/xml

#### Produces

- application/json
- application/xml

#### 4.25.6. Network Statistics

```
GET /chart/v6allocationpercent
```

#### Description

Get object allocation details of the current IPv6 network in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/chart/v6allocationpercent?address=networkIpAddress&org\_name=orgNameValue

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Network IP Address	string	
Query	<b>id</b> <i>optional</i>	Network ID	integer(int32)	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Network Stats</a>

#### Consumes

- text/plain
- application/xml

#### Produces

- application/json
- application/xml

#### 4.25.7. Object Allocation

```
GET /chart/v6objectAlloc
```

#### Description

Displays the percentage of objects allocated based on the object allocation type of current IPv6 subnet in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/chart/v6objectAlloc?id=idValue

#### Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>	Session token for authorization	string	
Query	<b>id</b> <i>optional</i>	ID	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Network Stats</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.25.8. Object Type

```
GET /chart/v6objectType
```

#### Description

Displays the number of objects allocated based on the object type of current IPv6 subnet in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/chart/v6objectType?id=idValue
```

#### Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>	Session token for authorization	string	
Query	<b>id</b> <i>optional</i>	ID	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Object Type Chart</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.25.9. Cumulative Charts Information

```
GET /newchart/cumulative
```

#### Description

Get the cumulative charts information present in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/newchart/cumulative?type=DNS&duration=60
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>duration</b> <i>required</i>	Duration	string	
Query	<b>type</b> <i>required</i>	Appliance Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< string, <a href="#">ChartsData</a> > map

#### Consumes

- text/plain
- application/xml

#### Produces

- application/json
- application/xml

#### 4.25.10. DHCP Charts Information

```
GET /newchart/dhcp
```

#### Description

Get the DHCP charts information present in the TCPWave IPAM.

The example listed below shows a sample request URL:  
`/rest/newchart/dhcp?ip=1.0.0.5&name=test&duration=60`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>duration</b> <i>required</i>	Duration	string	
Query	<b>ip</b> <i>required</i>	Appliance IP	string	
Query	<b>name</b> <i>required</i>	Appliance Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">ChartsData</a>

#### Consumes

- `text/plain`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

#### 4.25.11. DNS Charts Information

```
GET /newchart/dns
```

#### Description

Get the DNS charts information present in the TCPWave IPAM.  
The example listed below shows a sample request URL:  
`/rest/newchart/dns?ip=1.0.0.5&name=test&duration=60`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>duration</b> <i>required</i>	Duration	string	
Query	<b>ip</b> <i>required</i>	IP	string	
Query	<b>name</b> <i>required</i>	Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">ChartsData</a>

#### Consumes

- `text/plain`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

#### 4.25.12. Charts Information

```
GET /newchart/dwm
```

#### Description

Get the charts information present in the TCPWave IPAM.  
The example listed below shows a sample request URL:  
`/rest/newchart/dwm?ip=1.0.0.5&name=test&type=DNS&category=`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>category</b> <i>required</i>	Chart Category	string	
Query	<b>ip</b> <i>required</i>	Appliance IP	string	
Query	<b>name</b> <i>required</i>	Appliance Name	string	

Type	Name	Description	Schema	Default
Query	<b>type</b> <i>required</i>	Appliance Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< string, <a href="#">ChartsData</a> > map

#### Consumes

- text/plain
- application/xml

#### Produces

- application/json
- application/xml

#### 4.25.13. Galera Charts Information

```
GET /newchart/galera
```

#### Description

Get the galera charts information present in the TCPWave IPAM.  
The example listed below shows a sample request URL:  
/rest/newchart/ipam?ip=1.0.0.5&name=test&duration=60

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>duration</b> <i>required</i>	Duration	string	
Query	<b>ip</b> <i>required</i>	IP	string	
Query	<b>name</b> <i>required</i>	Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">ChartsData</a>

#### Consumes

- text/plain
- application/xml

#### Produces

- application/json
- application/xml

#### 4.25.14. Grouped Charts Information

```
GET /newchart/group
```

#### Description

Get the grouped charts information present in the TCPWave IPAM.  
The example listed below shows a sample request URL:  
/rest/newchart/group?ipList=1.0.0.5,1.0.0.6&duration=d&type=DNS&category=CPU

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>category</b> <i>required</i>	Chart Category	string	
Query	<b>duration</b> <i>required</i>	Duration	string	
Query	<b>ipList</b> <i>required</i>	Appliance IP List	string	
Query	<b>type</b> <i>required</i>	Appliance Type	string	

#### Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
200	successful operation	< string, <a href="#">ChartsData</a> > map

#### Consumes

- text/plain
- application/xml

#### Produces

- application/json
- application/xml

#### 4.25.15. DNS Charts Information

```
GET /newchart/gslb
```

#### Description

Get the SLB charts information present in the TCPWave IPAM.  
The example listed below shows a sample request URL:  
/rest/newchart/gslb?ip=1.0.0.5&name=test&duration=60

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>duration</b> <i>required</i>	Duration	string	
Query	<b>ip</b> <i>required</i>	IP	string	
Query	<b>name</b> <i>required</i>	Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">ChartsData</a>

#### Consumes

- text/plain
- application/xml

#### Produces

- application/json
- application/xml

#### 4.25.16. DNS Charts Information

```
GET /newchart/gslbcharts
```

#### Description

Get the SLB charts information present in the TCPWave IPAM.  
The example listed below shows a sample request URL:  
/rest/newchart/gslbcharts?ip=1.0.0.5&name=test&duration=60

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>duration</b> <i>required</i>	Duration	string	
Query	<b>ip</b> <i>required</i>	Appliance IP	string	
Query	<b>name</b> <i>required</i>	Appliance Name	string	
Query	<b>pxname</b> <i>required</i>	Frontend/Backend Name	string	
Query	<b>svname</b> <i>required</i>	Server Name	string	
Query	<b>type</b> <i>required</i>	Appliance Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">ChartsData</a>

#### Consumes



- text/plain

- application/xml

#### Produces

- application/json

- application/xml

#### 4.25.17. DNS Charts Information

```
GET /newchart/gslbstats
```

#### Description

Get the SLB charts information present in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/newchart/gslbstats?ip=1.0.0.5&name=test&duration=60

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>duration</b> <i>required</i>	Duration	string	
Query	<b>ip</b> <i>required</i>	IP	string	
Query	<b>name</b> <i>required</i>	Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">SLBProxyData</a> > array

#### Consumes

- text/plain

- application/xml

#### Produces

- application/json

- application/xml

#### 4.25.18. IPAM Charts Information

```
GET /newchart/ipam
```

#### Description

Get the IPAM charts information present in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/newchart/ipam?ip=1.0.0.5&name=test&duration=60

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>duration</b> <i>required</i>	Duration	string	
Query	<b>ip</b> <i>required</i>	IP	string	
Query	<b>name</b> <i>required</i>	Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">ChartsData</a>

#### Consumes

- text/plain

- application/xml

#### Produces

- application/json

- application/xml

#### 4.26. Checkouts Service Details

#### Description

This service provides REST API access to retrieve the TCPWave checkouts results in the IPAM. The TCPWave Checkouts operations are performed against the TCPWave IPAM and TCPWave remotes in scheduled intervals. The default schedule interval is 12 hours and this can be changed in the TCPWave Scheduler page. The checkouts results are stored centrally in the TCPWave IPAM appliance as json format files. These checkout results can be accessed from the

## 4.26.1. Appliances Policy Compliance Information

GET /checkouts/list

## Description

This operation retrieves the list of policy compliance information for DNS/DHCP/IPAM appliances.

To list the policy compliance information on a specific DNS appliance, users must specify `server_type` parameters as 'BIND AUTH', 'BIND CACHE', 'UNBOUND', 'NSD' or 'DNS PROXY'. To list the policy compliance information on all the DNS appliances or any particular appliance group or all the appliance groups, users must specify the `server_type` parameter as DNS. To list the policy compliance information on DHCP appliance(s), the `server_type` parameter must be specified as DHCP. To list the policy compliance information on IPAM appliance(s), the `server_type` parameter must be specified as IPAM.

The following examples shows a sample request URLs:

The following is the sample URL to list checkout information for a BIND AUTH type appliance.

```
rest/checkouts/list?server_type=BIND AUTH&server_ip=172.16.0.13&level=appliance&org_name=TCPWave
```

The following is the sample URL to list checkout information for all the DNS appliances.

```
rest/checkouts/list?server_type=DNS&level=appliance
```

The following is the sample URL to list checkout information for all the DNS appliances which are associated with any appliance group.

```
rest/checkouts/list?server_type=DNS&level=appliance_group&org_name=TCPWave
```

the following is the sample URL to list checkout information for all the DNS appliances which are associated with specified appliance group.

```
rest/checkouts/list?server_type=DNS&level=appliance_group&appliance_group=Group_Name&org_name=TCPWave
```

## Parameters

Type	Name	Description	Schema	Default
Query	<b>appliance_group</b> <i>optional</i>	Appliance Group Name	string	
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>level</b> <i>required</i>	Level type. Takes either appliance or appliance_group	string	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>org_name</b> <i>optional</i>	Appliance Group organization	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>server_id</b> <i>optional</i>	ID of the DNS/DHCP Appliance	integer(int32)	
Query	<b>server_ip</b> <i>optional</i>	IP Address of the IPAM/DNS/DHCP Appliance	string	
Query	<b>server_name</b> <i>optional</i>	Name of the DHCP Appliance	string	
Query	<b>server_type</b> <i>required</i>	Type of the Appliance	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Contact Range	integer(int32)	

## Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListPolicy Compliance Entity</a>
500	TIMS-7003: You are not authorized to perform this operation, TIMS-3038: Appliance Type is not valid: {}	No Content

## Consumes

- text/plain

## Produces

- application/json
- application/xml

#### 4.26.2. Policy Compliance checks.

POST /checkouts/run

##### Description

This operation performs DNS/DHCP/IPAM Policy Compliance checks

To run policy compliance check on a specific DNS appliance, `server_type` parameter must be specified as 'BIND AUTH', 'BIND CACHE', 'UNBOUND', 'NSD' or 'DNS PROXY'. To run policy compliance check on all the DNS appliances or any particular appliance group or all the appliance groups, `server_type` parameter must be specified as DNS. To run policy compliance check on DHCP appliance(s), `server_type` parameter must be specified as DHCP. To run policy compliance check on IPAM appliance(s), `server_type` parameter must be specified as IPAM.

The following examples shows a sample request URLs:

The following is the sample URL to run checkout operation for a BIND CACHE type appliance.

`rest/checkouts/run?server_type=BIND CACHE&server_ip=172.16.0.13&level=appliance&org_name=TCPWave`

The following example is the sample URL to run checkout operation for all the DNS appliances.

`rest/checkouts/run?server_type=DNS&level=appliance&org_name=TCPWave`

The following is the sample URL to run checkout operation for all the DNS appliances which are associated with any appliance group.

`rest/checkouts/run?server_type=DNS&level=appliance_group&org_name=TCPWave`

The following is the sample URL to run checkout operation for all the DNS appliances which are associated with specified appliance group.

`rest/checkouts/run?server_type=DNS&level=appliance_group&appliance_group=Group_Name&org_name=TCPWave`

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>appliance_group</b> <i>optional</i>	Appliance Group Name	string	
Query	<b>level</b> <i>required</i>	Level type. Takes either appliance or appliance_group	string	
Query	<b>org_name</b> <i>optional</i>	Appliance Group organization	string	
Query	<b>server_ip</b> <i>optional</i>	IP Address of the DNS Appliance	string	
Query	<b>server_name</b> <i>optional</i>	Name of the DHCP Appliance	string	
Query	<b>server_type</b> <i>required</i>	Type of the Appliance	string	

##### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation, TIMS-3038: Appliance Type is not valid: {0}	No Content

##### Consumes

- text/plain
- application/json
- application/xml

##### Produces

- application/json
- application/xml

## 4.27. Class Code Logo Service

### Description

This service provides the logos for various object types in the TCPWave IPAM.

#### 4.27.1. Class Code Logo List

GET /classCodeLogo/list

### Description

Obtains a list of all the logos of the object types present in the TCPWave IPAM.

The example listed below shows a sample request URL:

`/rest/classCodeLogo/list`

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Class Code Logo</a> > array

### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.28. Class Code Service

#### Description

This class provides services related to Object Type such as Add, Delete and Update Object type in the TCPWave IPAM. It also provides a list of all available Object types in the TCPWave IPAM.

#### 4.28.1. Object Type Add

```
POST /classcode/add
```

#### Description

Creates a new object type in the TCPWave IPAM . These are used to create objects in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "code": "qacode", "description": "Object type added from rest call", "prefix": "qa", "suffix": "code", "prefix_zeros": "no", "initial_seq_num": "1", "logo": "/img/custom-object-types/logo-3dsmax-render-server.png" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Classcode details	<a href="#">Class Code</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-2030: Object Type already exists. TIMS-11012: Suffix field cannot be null TIMS-11011: Prefix field cannot be null. TIMS-9610: Prefix:{0} and Suffix:{1} combination already exists. TIMS-11013: Invalid Initial sequence number specified, valid values are 1 to 99999 TIMS-11014: Prefix-Zeros should be 'yes' or 'no'	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.28.2. Object Type Delete

```
POST /classcode/delete
```

#### Description

Deletes an existing object type in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "code": "qacode", "description": "Object type added from rest call", "logo": "/img/custom-object-types/logo-3dsmax-render-server.png", "prefix": "qa123", "suffix": "code45", "prefix_zeros": "yes", "initial_seq_num": "1", "req_mul_names": "1", "updated_seq_num": "1" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Classcode details	<a href="#">Class Code</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-2020: Object Type does not exist.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.28.3. Class Code Details

```
GET /classcode/getClassCodeDetails
```

#### Description

Obtains the details of a class code in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/classcode/getClassCodeDetails?classcodename=classcodename
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>classcodename</b> <i>required</i>	Name of the class code to get details.	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Class Code</a>

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.28.4. Object Type List

```
GET /classcode/list
```

#### Description

Obtains a list of Object types available in the TCPWave IPAM. These are used to create objects in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
rest/classcode/list?DHCP=TCPWave Remote&page=1&rows=20
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>DHCP</b> <i>optional</i>	List of the object types supported to create DHCP objects	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Class Code</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.28.5. Object Name Auto generation

```
GET /classcode/nextautohostname
```

#### Description

Generates and returns a name to assign to the object based on the object type given.

The example listed below shows a sample request URL:

```
/rest/classcode/getClassCodeDetails?classCode=classcodename
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>classCode</b> <i>required</i>	Name of the class code	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	11017 = TIMS-11017: Object Type cannot be null. 2020 = TIMS-2020: Object Type does not exist: {}.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.28.6. Object Type Update

```
POST /classcode/update
```

#### Description

Edits an existing object type in the TCPWave IPAM. These are used to create objects in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "code": "qacode", "description": "Object type added from rest call", "prefix": "qa123", "suffix": "code45", "prefix_zeros": "yes", "initial_seq_num": "1", "logo": "/img/custom-object-types/logo-3dsmax-render-server.png", "old_class_code": "qacode", "user_defined": "Y" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Classcode details	<a href="#">Class Code</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-2020: Object Type does not exist.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

### 4.29. Cloud DNS Provider Service

#### Description

This service class provides services related to Cloud DNS Provider such as add/edit/del Cloud Provider, list Cloud Providers, list Cloud Provider Templates, list Cloud Provider Types, update Cloud Provider Templates in the TCPWave IPAM.

#### 4.29.1. Add New Cloud Provider

```
POST /clouddnsprovider/add
```

#### Description

Add new Cloud Provider in the TCPWave IPAM. A cloud provider is an instance of the cloud provider type with the associated credentials to manage the data in the cloud. Please refer to the TCPWave IPAM Administrator Guide for a comprehensive list of cloud provider types supported. One Cloud Provider can be associated with multiple DNS Zone Templates.

Below example shows sample request JSON:

```
{ "user": "AKIAINLQMEG7EBWXMTQ", "api_key": "E52BxojR5f2hM802hG+Zl8Z4boxzlZRNcnPpaa+", "region": "us-east-1", "organization_name": "Internal", "cloud_dns_provider_type_name": "AWS", "name": "test_cloud_uc", "description": "testing" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">DNS Cloud Provider</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-9411: Both Provider id and Zone Template id are null.	No Content

#### Consumes

- application/json

#### Produces

- application/json
- application/xml

#### 4.29.2. Add New Resource Role Mapping in AWS Cloud Provider

```
POST /clouddnsprovider/addresourceolemapping
```

#### Description

Add new resource-role mapping in AWS cloud provider in the TCPWave IPAM. A resource such as Zone or VPC can be mapped to the IAM role and AWS account to be managed using the given account. The supported resource types are Zone and VPC. User can manage zones in multiple accounts by adding the resources. Similarly user can import virtual instances from multiple accounts from a single cloud provider.

Below example shows sample request JSON: { "cloud\_provider\_name": "AWS", "organization\_name": "Internal", "resource\_type": "zone", "resource\_name": "test.com", "account": "123457", "iam\_role": "Route53Access" }

#### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">CloudResourceWrapper</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-9411: Both Organization and cloud provider name cannot be null.	No Content

#### Consumes

- `application/json`

#### Produces

- `application/json`
- `application/xml`

#### 4.29.3. Delete Cloud Provider

```
POST /cloudnsp/provider/delete
```

#### Description

Delete existing Cloud Providers in the TCPWave IPAM.

The example listed below shows a sample request URL:

`/rest/cloudnsp/provider/delete?name=AWS&org_name=Internal`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Cloud Provider Name required to delete	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-9411: Both Provider id and Zone Template id are null. TIMS-9415: Provider is used in zone template(s). Please dissociate those template(s) from the provider and try again.	No Content

#### Produces

- `application/json`
- `application/xml`
- `text/plain`

#### 4.29.4. Delete Resource to role mapping in AWS Cloud Provider

```
POST /cloudnsp/provider/deleteresourcerolemapping
```

#### Description

Deleting resource-role mapping in AWS cloud provider in the TCPWave IPAM.

Below example shows sample request JSON:{"cloud\_provider\_name": "AWSType",

"organization\_name": "Internal",

"resource\_type": "zone",

"resource\_name": "test.com",

}

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">CloudResourceWrapper</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-9411: Both Organization and cloud provider name cannot be null.	No Content

#### Consumes

- `application/json`

#### Produces

- `application/json`
- `application/xml`

#### 4.29.5. Dis-associate Cloud Provider

```
POST /cloudnsp/provider/disassociate
```

#### Description

Dis-associate the Provider from a DNS Zone template defined in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/cloudnspvprovider/disassociate?cpname=google

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cpid</b> <i>optional</i>	Cloud Provider Id required for dis-associating Cloud Provider from Zone	integer(int32)	
Query	<b>cpname</b> <i>required</i>	Cloud Provider Name required for dis-associating Cloud Provider from Zone	string	
Query	<b>cptype</b> <i>optional</i>	Cloud Provider Type required for dis-associating Cloud Provider from Zone	string	
Query	<b>org_id</b> <i>optional</i>	Organization Id required for dis-associating Cloud Provider from Zone	integer(int32)	
Query	<b>org_name</b> <i>optional</i>	Organization Name required for dis-associating Cloud Provider from Zone	string	
Body	<b>body</b> <i>optional</i>		< <a href="#">DNS Cloud Provider Template</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-9411: Both Provider id and Zone Template id are null.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.29.6. Edit Cloud Provider

```
POST /cloudnspvprovider/edit
```

#### Description

Edit existing Cloud Providers in the TCPWave IPAM. A cloud provider is an instance of the cloud provider type with the associated credentials to manage the data in the cloud.

Below example shows sample request JSON:

```
/cloudnspvprovider/edit?oldname=aws_applet
```

```
{ "name": "aws_applet_new", "organization_name": "Internal", "cloud_dns_provider_type_name": "AWS", "description": "aws cloud provider", "user": "AKIAINLQMEG7EBWXMT00", "api_key": "E52BxojR5f2hM802hG+Zl8Z4boxzlZRNcnPpaie+", "region": "us-east-1" }
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>oldname</b> <i>required</i>	Cloud Provider Name required to modify existing Cloud Provider	string	
Body	<b>body</b> <i>optional</i>		<a href="#">DNS Cloud Provider</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-9406: Both Provider name and id cannot be null. TIMS-9407: Provider name is not valid. TIMS-9408: Provider id is not valid. TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json

#### Produces

- application/json
- application/xml

#### 4.29.7. Edit existing Resource Role Mapping in AWS Cloud Provider

```
POST /cloudnspvprovider/editresourcerolemapping
```

#### Description

Edit resource-role mapping in AWS cloud provider in the TCPWave IPAM.

Below example shows sample request JSON: { "cloud\_provider\_name": "AWSType", "organization\_name": "Internal", "cloud\_provider\_type": "AWS",



```

"old_resource_name":"c.com",
"resource_type": "zone",
"resource_name": "test.com",
"account": "123457",
"iam_role": "ZZZ"
}

```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">CloudResourceWrapper</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-9411: Both Organization and cloud provider name cannot be null.	No Content

#### Consumes

- application/json

#### Produces

- application/json
- application/xml

#### 4.29.8. Cloud Provider Details

```
GET /clouddnsprovider/get
```

#### Description

Get the cloud provider details defined in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/clouddnsprovider/get?providerName=AWS&orgName=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgID</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Query	<b>providerID</b> <i>optional</i>	Cloud Provider ID	integer(int32)	
Query	<b>providerName</b> <i>required</i>	Cloud Provider Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">DNS Cloud Provider</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.29.9. Cloud Provider List

```
GET /clouddnsprovider/list
```

#### Description

Obtains a list of all the cloud providers defined in the TCPWave IPAM. A cloud provider is an instance of the cloud provider type with the associated credentials to manage the data in the cloud. Please refer to TCPWave IPAM Administrator Guide for a comprehensive list of cloud provider types supported.

The example listed below shows a sample request URL:

```
/rest/clouddnsprovider/list?orgName=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgName</b> <i>required</i>	Organization name required for listing all cloud providers associated with that Organization.	string	
Query	<b>org_id</b> <i>optional</i>	Organization Id required for listing all cloud providers.	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DNS Cloud Provider</a> > array
500	TIMS-1020: Both Organization name and id cannot be null, TIMS-1021: Organization name is not valid, TIMS-1025: Organization id is not valid, TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.29.10. Cloud Provider Templates

```
GET /clouddnsprovider/list_provider_templates
```

#### Description

Obtains mapping of the cloud providers to the DNS zone templates defined in the TCPWave IPAM. The information includes the cloud DNS provider name and associated DNS zone template name. This mapping is used by TCPWave IPAM DNS module to keep the data in sync in the selected cloud.

The example listed below shows a sample request URL:

```
/rest/clouddnsprovider/list_provider_templates?org_name=Internal&provider=providerName
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_id</b> <i>optional</i>	Organization ID required for listing all cloud providers templates	integer(int32)	
Query	<b>org_name</b> <i>required</i>	Organization name required for listing all cloud providers templates	string	
Query	<b>provider</b> <i>required</i>	Provider name required for listing all cloud providers template	string	
Query	<b>template</b> <i>optional</i>	Template name required for listing all cloud providers templates	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DNS Cloud Provider Template</a> > array
500	TIMS-9411: Both Provider id and Zone Template id are null.	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.29.11. Cloud Provider Types

```
GET /clouddnsprovider/list_provider_types
```

#### Description

Lists the Cloud Provider Types defined in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/clouddnsprovider/list_provider_types
```

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DNS Cloud Provider Type</a> > array

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.29.12. Cloud provider Search

```
GET /clouddnsprovider/search
```

#### Description

Searches for cloud providers present in the TCPWave IPAM.  
The example listed below shows a sample request URL:  
`/rest/cloudnnsprovider/search?organizations=Internal&start=1&length=20`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organizations	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting IPV4 Object Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListDNS Cloud Provider</a>

#### Consumes

- text/plain
- application/json

#### Produces

- application/json
- application/xml

#### 4.29.13. Resource to role mapping Search

```
GET /cloudnnsprovider/searchCrossRoles
```

#### Description

Searches for a given resource to role mapping for the AWS cloud provider in the TCPWave IPAM with giving input string.

The example listed below shows a sample request URL:  
`/rest/cloudnnsprovider/searchCrossRoles?start=1&length=20`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Template Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListCloudResourceWrapper</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.29.14. Cloud Provider Templates Update

POST /clouddnsprovider/update\_template

##### Description

Updates the mapping of cloud provider to the DNS zone templates defined in the TCPWave IPAM. The mapping includes the cloud DNS provider name and associated DNS zone template name.

The example listed below shows a sample request URL:

/rest/clouddnsprovider/update\_template?org\_name=Internal&name=testTemplate&type=templateType

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Template name required to update the template	string	
Query	<b>org_id</b> <i>optional</i>	Organization Id required to update the template	integer(int32)	
Query	<b>org_name</b> <i>required</i>	Organization Name required to update the template	string	
Query	<b>type</b> <i>required</i>	Template type	string	
Body	<b>body</b> <i>optional</i>		< string > array	

##### Responses

HTTP Code	Description	Schema
500	TIMS-9411: Both Provider id and Zone Template id are null. TIMS-9412: Provider name or Zone Template name is not valid.	No Content

##### Consumes

- application/json

##### Produces

- application/json
- application/xml

### 4.30. Cloud Instance Service

##### Description

This service class provides services related to Cloud Instance such as add/edit/delete Cloud Instance Templates, list Cloud Templates and Instances in the TCPWave IPAM.

#### 4.30.1. List AWS Images

GET /cloudCompute/awsImage/page

##### Description

This operation retrieves the list of AWS Images created by users in IPAM.

The following example shows a sample request URL:

rest/cloudCompute/awsImage/page?draw=3&start=26&length=26&orgName=Internal

##### Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>		string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting AWS Images Range	integer(int32)	

##### Responses

HTTP Code	Description	Schema
-----------	-------------	--------

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAmazon Machine Image</a>

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.30.2. Create AWS Image

```
POST /cloudCompute/createAWSImage
```

#### Description

This operation creates AWS Image using the details of the cloud provider and Amazon machine Image ID.

The following example shows a sample request URL:

```
/rest/cloudCompute/createAWSImage?id=ami-0beea874&name=IMG-21&desc=test&cloudProviderName=AWS&orgName=EARTH
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cloudProviderId</b> <i>optional</i>	Cloud Provider ID	integer(int32)	
Query	<b>cloudProviderName</b> <i>required</i>	Cloud Provider Name	string	
Query	<b>desc</b> <i>optional</i>	AWS Instance Description	string	
Query	<b>id</b> <i>required</i>	AWS Image ID	string	
Query	<b>name</b> <i>required</i>	AWS Image Name	string	
Query	<b>orgId</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
<b>default</b>	successful operation	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

#### 4.30.3. Delete AWS Image

```
POST /cloudCompute/deleteAWSImage
```

#### Description

This operation deletes the AWS Image of the given ID from the TCPWave IPAM.

The following example shows a sample request URL:

```
/rest/cloudCompute/deleteAWSImage?id=ami-0beea874&cloudProvider=AWS&orgName=EARTH
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cloudProvider</b> <i>required</i>	Cloud Provider Name	string	
Query	<b>cloudProviderId</b> <i>optional</i>	Cloud provider ID	integer(int32)	
Query	<b>id</b> <i>required</i>	AWS Image ID	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.30.4. Get IAM Roles

```
GET /cloudCompute/getIAMRoles
```

#### Description

This operation retrieves the list of IAM roles defined in AWS for the given cloud provider.

The following example shows a sample request URL:

```
/rest/cloudCompute/getIAMRoles?cloudProvider=AWS&orgName=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cloudProvider</b> <i>required</i>	Cloud Provider Name	string	
Query	<b>cloudProviderId</b> <i>optional</i>	Cloud Provider ID	integer(int32)	
Query	<b>orgId</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Role</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.30.5. Get Security Groups

```
GET /cloudCompute/getSecurityGroups
```

#### Description

This operation retrieves the list of Security Groups defined in AWS.

The following example shows a sample request URL:

```
/tims/rest/cloudCompute/getSecurityGroups?cloudProvider=AWS&orgName=EARTH
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cloudProvider</b> <i>required</i>	Cloud Provider Name	string	
Query	<b>cloudProviderId</b> <i>optional</i>	Cloud Provider ID	integer(int32)	
Query	<b>orgId</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Query	<b>vpcIds</b> <i>optional</i>	Comma separated list of VPC's	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">SecurityGroup</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.30.6. Change Cloud Instance State

```
POST /cloudCompute/instance/changeState
```

#### Description

This operation changes the state of cloud instance in the respective cloud provider.

The following example shows a sample request URL:

```
/rest/cloudCompute/instance/changeState?objectAddress=10.0.0.3&orgName=Internal&action=stop
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>action</b> <i>required</i>	Action required to change the state of the cloud instance.	string	
Query	<b>objectAddress</b> <i>required</i>	Object address required to change the state of the cloud instance details.	string	
Query	<b>objectID</b> <i>optional</i>	Object ID required to change the state of the cloud instance.	integer(int32)	
Query	<b>orgName</b> <i>required</i>	Organization name required to change the state of the cloud instance details.	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### 4.30.7. Check Cloud Instances

```
GET /cloudCompute/instance/checkInstances
```

#### Description

This operation checks if one of the objects is a cloud instance.

The following example shows a sample request URL:

```
/rest/cloudCompute/instance/checkInstances?ipList=10.0.0.3&orgName=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ipList</b> <i>required</i>	IP Addresses of the Objects to be terminated	string	
Query	<b>orgName</b> <i>required</i>	Organization Name to which Subnet belongs	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	boolean

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.30.8. Create Cloud Instance

```
POST /cloudCompute/instance/create
```

#### Description

This operation creates a cloud instance in the respective cloud provider.

The following example shows a sample request JSON:

```
{ "objectName": "AWS172311623", "objectAddress": "10.31.16.23", "objectId": "501", "subnetAddress": "10.31.16.0", "templateId": "101", "templateName": "AWS-Instance-Provisioning-Template", "organizationId": "1", "organizationName": "Internal", "status": "RUNING", "publicIP": "string", "dnsName": "AWS172311623.test.com", "providerTemplate": { "name": "AWS-Instance-Provisioning-Template", "newName": "Default-AWS-Instance-Provisioning-Template", "id": "101", "organizationName": "Internal", "organizationId": "1", "cloudProviderType": "AWS", "cloudProviderName": "AWS-Provider", "cloudProviderId": "21", "instanceTplJsonStr": "{ \"zone\": \"us-east-1-b\", \"machineType\": \"f1-micro\", \"bootDiskImageFamily\": \"centos\", \"bootDiskImage\": \"centos-6-v20180401\", \"nonDepricatedImage\": true, \"bootDiskType\": \"pd-
```

```
standard","bootDiskSize":"10","bootDiskAutoDelete":true,"allowHttpTraffic":true,"allowHttpsTraffic":true},"description":"AWS Instance template test")}}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Cloud Instance Bean</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### 4.30.9. Get Cloud Instance Details

```
GET /cloudCompute/instance/get
```

#### Description

This operation retrieves the details of the cloud instance for the given IP address from the cloud provider.

The following example shows a sample request URL:

```
/rest/cloudCompute/instance/get?objectAddress=10.0.0.3&orgName=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>objectAddress</b> <i>required</i>	Object address required to get the cloud instance details.	string	
Query	<b>objectId</b> <i>optional</i>	Object ID required to get the cloud instance details.	integer(int32)	
Query	<b>orgName</b> <i>required</i>	Organization name required to get the cloud instance details.	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Cloud Instance Bean</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.30.10. Get Cloud Instance creation error

```
GET /cloudCompute/instance/getCreationError
```

#### Description

This operation retrieves the error that occurred while creating Cloud Instance.

The following example shows a sample request URL:

```
/rest/cloudCompute/instance/getCreationError
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>objectId</b> <i>optional</i>	ID of Object	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.30.11. Cloud Instance State

```
GET /cloudCompute/instance/getState
```



#### Description

This operation retrieves the state of a cloud instance from the respective cloud provider.

The following example shows a sample request URL:

/rest/cloudCompute/instance/getState?objectAddress=10.0.0.2&orgName=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>objectAddress</b> <i>required</i>	Object address required to get the state of cloud instance.	string	
Query	<b>objectID</b> <i>optional</i>	Object ID required to get the state of cloud instance.	integer(int32)	
Query	<b>orgName</b> <i>required</i>	Organization name required to get the state of cloud instance.	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.30.12. Is Reserved IP Address

```
GET /cloudCompute/instance/isReservedIP
```

#### Description

This operation retrieves the value as true if the given IP address is a reserved IP address in the AWS subnet; else, it retrieves the value as false.

The following example shows a sample request URL:

/rest/cloudCompute/instance/isReservedIP?cloudProvider=AWS&orgName=Internal&ip=1.1.0.2&subnetIpAddress=1.1.0.0

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cloudProvider</b> <i>required</i>	Cloud Provider Name	string	
Query	<b>cloudProviderId</b> <i>optional</i>	Cloud Provider ID	integer(int32)	
Query	<b>ip</b> <i>required</i>	IP Address	string	
Query	<b>orgId</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Query	<b>subnetAddress</b> <i>required</i>	Subnet Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	boolean

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.30.13. Cloud Instance Recreate

```
POST /cloudCompute/instance/recreate
```

#### Description

This operation creates a cloud instance based on a cloud provisioning template.

The following example shows a sample request URL:

/rest/cloudCompute/instance/recreate?objectAddress=10.0.0.5&orgName=Internal

#### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Query	<b>objectAddress</b> <i>required</i>	IP Addresses of the object	string	
Query	<b>orgName</b> <i>required</i>	Name of the organization to which object belongs	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### 4.30.14. Terminate Cloud Instances

POST /cloudCompute/instance/terminate

#### Description

This operation terminates one or more cloud instances.

The following example shows a sample request URL:

/rest/cloudCompute/instance/terminate?ipList=10.0.0.3&orgName=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cloudProviderId</b> <i>optional</i>	Cloud Provider ID mapped to Subnet	integer(int32)	
Query	<b>ipList</b> <i>required</i>	IP Addresses of the Objects to be terminated	string	
Query	<b>objectList</b> <i>optional</i>	ID's of the Objects to be terminated	string	
Query	<b>orgName</b> <i>required</i>	Organization Name to which Subnet belongs	string	
Query	<b>subnetAddress</b> <i>optional</i>	Subnet Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.30.15. Cloud Instance Template Add

POST /cloudCompute/instanceTemplate/add

#### Description

Creates a cloud instance template in the TCPWave IPAM.

The following example shows a sample request JSON:

```
{
  "name": "AWS-Instance-Provisioning-Template",
  "newName": "Default-AWS-Instance-Provisioning-Template",
  "id": "101",
  "organizationName": "Internal",
  "organizationId": "1",
  "cloudProviderType": "AWS",
  "cloudProviderName": "AWS-Provider",
  "cloudProviderId": "21",
  "instanceTplJsonStr": "{\"zone\": \"us-east-1-b\", \"machineType\": \"f1-micro\", \"bootDiskImageFamily\": \"centos\", \"bootDiskImage\": \"centos-6-v20180401\", \"nonDepricatedImage\": true, \"bootDiskType\": \"pd-standard\", \"bootDiskSize\": \"10\", \"bootDiskAutoDelete\": true, \"allowHttpTraffic\": true, \"allowHttpsTraffic\": true}\"",
  "description": "AWS Instance template test",
  "created_by_name": "admin",
  "updated_by": "21",
  "updated_by_name": "admin",
  "created_time_string": "2019-03-13 03:16:04",
  "updated_time_string": "2019-03-16 05:26:05"
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Cloud Instance Template</a>	

#### Responses

HTTP Code	Description	Schema
-----------	-------------	--------

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation, TIMS-1352: Cannot find organization: <Organization Name>	No Content

#### Consumes

- application/json
- application/xml

#### 4.30.16. Cloud Instance Template Delete

POST /cloudCompute/instanceTemplate/delete

#### Description

This operation deletes cloud instance template in the TCPWave IPAM.

The following example shows a sample request JSON:

```
{
  "name": "AWS-Instance-Provisioning-Template",
  "newName": "Default-AWS-Instance-Provisioning-Template",
  "id": "101",
  "organizationName": "Internal",
  "organizationId": "1",
  "cloudProviderType": "AWS",
  "cloudProviderName": "AWS-Provider",
  "cloudProviderId": "21",
  "instanceTplJsonStr": "{\"zone\": \"us-east-1-b\", \"machineType\": \"f1-micro\", \"bootDiskImageFamily\": \"centos\", \"bootDiskImage\": \"centos-6-v20180401\", \"nonDepricatedImage\": true, \"bootDiskType\": \"pd-standard\", \"bootDiskSize\": \"10\", \"bootDiskAutoDelete\": true, \"allowHttpTraffic\": true, \"allowHttpsTraffic\": true}",
  "description": "AWS Instance template test"
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Cloud Instance Template</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### 4.30.17. Cloud Instance Template Update

POST /cloudCompute/instanceTemplate/edit

#### Description

This operation updates a Cloud Instance template in the TCPWave IPAM.

The following example shows a sample request JSON:

```
{
  "name": "AWS-Instance-Provisioning-Template",
  "newName": "Default-AWS-Instance-Provisioning-Template",
  "id": "101",
  "organizationName": "Internal",
  "organizationId": "1",
  "cloudProviderType": "AWS",
  "cloudProviderName": "AWS-Provider",
  "cloudProviderId": "21",
  "instanceTplJsonStr": "{\"zone\": \"us-east-1-b\", \"machineType\": \"f1-micro\", \"bootDiskImageFamily\": \"centos\", \"bootDiskImage\": \"centos-6-v20180401\", \"nonDepricatedImage\": true, \"bootDiskType\": \"pd-standard\", \"bootDiskSize\": \"10\", \"bootDiskAutoDelete\": true, \"allowHttpTraffic\": true, \"allowHttpsTraffic\": true}",
  "description": "AWS Instance template test",
  "created_by_name": "admin",
  "updated_by": "21",
  "updated_by_name": "admin",
  "created_time_string": "2019-03-13 03:16:04",
  "updated_time_string": "2019-03-16 05:26:05"
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Cloud Instance Template</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation, TIMS-1352: Cannot find organization: <Organization Name>	No Content

#### Consumes

- application/json
- application/xml

#### 4.30.18. Cloud Instance Template Details

GET /cloudCompute/instanceTemplate/get

#### Description

This operation retrieves the details of the cloud instance for the given IP address from the cloud provider.

The following example shows a sample request URL:

/rest/cloudCompute/instanceTemplate/get?templateName=templateNameValue&orgName=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgId</b> <i>optional</i>	Organization ID required to get the cloud instance templates.	integer(int32)	
Query	<b>orgName</b> <i>required</i>	Organization name required to get the cloud instance templates.	string	
Query	<b>templateId</b> <i>optional</i>	Instance template ID required to get the cloud instance templates.	integer(int32)	
Query	<b>templateName</b> <i>required</i>	Instance template name required to get the cloud instance templates.	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Cloud Instance Template</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.30.19. Cloud Instance Template List

```
GET /cloudCompute/instanceTemplate/list
```

#### Description

This operation retrieves the lists of the cloud instance templates defined in the TCPWave IPAM.

The following example shows a sample request URL:

```
/rest/cloudCompute/instanceTemplate/list?start=1&length=20&organizations=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cloudProviderId</b> <i>optional</i>	Cloud provider ID required to get the cloud instance templates.	integer(int32)	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Search	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	order param(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization List	string	
Query	<b>providerType</b> <i>optional</i>	Cloud provider type required to get the cloud instance templates.	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListCloud Instance Template</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.30.20. List Volume Types

```
GET /cloudCompute/listAWSVolumeTypes
```

#### Description

This operation retrieves the list of AWS volume types.

The following example shows a sample request URL:

/rest/cloudCompute/listAWSVolumeTypes

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">AWS Volume Type</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.30.21. Azure Virtual Image Publisher's Offer List

```
GET /cloudCompute/listAzureImageOffers
```

#### Description

This operation retrieves the list of all the offers from an azure virtual image publisher.

The following example shows a sample request URL:

/rest/cloudCompute/listAzureImageOffers?providerName=Azure&orgName=Internal&azureRegion=East US&publisher=Canonical

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>azureRegion</b> <i>required</i>	Azure region name required to get the Azure virtual machine image offers.	string	
Query	<b>orgName</b> <i>required</i>	Organization name required to get the cloud provider associated with that organization.	string	
Query	<b>providerName</b> <i>required</i>	Cloud provider name required to get the cloud provider details.	string	
Query	<b>publisher</b> <i>required</i>	Image publisher name required to get the Azure virtual machine image offers.	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Utility Bean</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.30.22. Azure Virtual Image Publisher List

```
GET /cloudCompute/listAzureImagePublishers
```

#### Description

This operation retrieves the list of all the Azure virtual image publishers from the specified region.

The following example shows a sample request URL:

/rest/cloudCompute/listAzureImagePublishers?providerName=Azure&orgName=Internal&azureRegion=East US

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>azureRegion</b> <i>required</i>	Azure region required to get the Azure virtual image publishers.	string	
Query	<b>orgName</b> <i>required</i>	Organization name required to get the cloud provider associated with that organization.	string	
Query	<b>providerName</b> <i>required</i>	Cloud provider name required to get the cloud provider details.	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Utility Bean</a> > array

HTTP Code	Description	Schema
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.30.23. Azure Virtual Image Publisher Offer's SKU List

```
GET /cloudCompute/listAzureImageSKUs
```

#### Description

This operation retrieves the list of all the SKUs from an Azure virtual image publisher offer.

The following example shows a sample request URL:

```
/rest/cloudCompute/listAzureImageSKUs?providerName=Azure&orgName=Internal&azureRegion=EastUS&publisher=Canonical&offer=0001-com-ubuntu-minimal-focal-daily
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>azureRegion</b> <i>required</i>	Azure region name required to get the Azure virtual machine image SKUs.	string	
Query	<b>offer</b> <i>required</i>	Image publisher's offer name required to get the Azure virtual machine image SKUs.	string	
Query	<b>orgName</b> <i>required</i>	Organization name required to get the cloud provider associated with that organization.	string	
Query	<b>providerName</b> <i>required</i>	Cloud provider name required to get the cloud provider details.	string	
Query	<b>publisher</b> <i>required</i>	Image publisher name required to get the Azure virtual machine image SKUs..	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Utility Bean</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.30.24. Azure Virtual Image Version List

```
GET /cloudCompute/listAzureImageVersions
```

#### Description

This operation retrieves the list of all the versions from an Azure virtual image publisher offer SKU.

The following example shows a sample request URL:

```
/rest/cloudCompute/listAzureImageVersions?providerName=Azure&orgName=Internal&azureRegion=EastUS&publisher=Canonical&offer=0001-com-ubuntu-minimal-focal-daily&SKU=minimal-20_04-daily-lts
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>SKU</b> <i>required</i>	Image SKU name required to get the Azure virtual image versions.	string	
Query	<b>azureRegion</b> <i>required</i>	Azure region required to get the Azure virtual machine image publishers.	string	
Query	<b>offer</b> <i>required</i>	Image publisher's offer name required to get the Azure virtual machine image versions.	string	
Query	<b>orgName</b> <i>required</i>	Organization name required to get the cloud provider associated with that organization.	string	
Query	<b>providerName</b> <i>required</i>	Cloud provider name required to get the cloud provider details.	string	
Query	<b>publisher</b> <i>required</i>	Image publisher name required to get the Azure virtual machine image versions.	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Utility Bean</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.30.25. Azure Region List

```
GET /cloudCompute/listAzureRegions
```

#### Description

This operation retrieves the list of all the azure cloud regions.

The following example shows a sample request URL:

```
/rest/cloudCompute/listAzureRegions?providerName=Azure&orgName=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgName</b> <i>required</i>	Organization name required to get the cloud provider associated with that organization.	string	
Query	<b>providerName</b> <i>required</i>	Cloud provider name required to get the cloud provider details.	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Utility Bean</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.30.26. Azure Virtual Machines Size List

```
GET /cloudCompute/listAzureVMSizes
```

#### Description

This operation retrieves the list of all the Azure virtual machine sizes from the specified region.

The following example shows a sample request URL:

```
/rest/cloudCompute/listAzureVMSizes?providerName=Azure&orgName=Internal&azureRegion=East US
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>azureRegion</b> <i>required</i>	Azure region name required to get the available azure virtual machine sizes.	string	
Query	<b>orgName</b> <i>required</i>	Organization name required to get the cloud provider associated with that organization.	string	
Query	<b>providerName</b> <i>required</i>	Cloud provider name required to get the cloud provider details.	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Utility Bean</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.30.27. List Cloud Providers

```
GET /cloudCompute/listCloudProviders
```

#### Description

This operation retrieves the list of Cloud Providers created by the users.

The following example shows a sample request URL:

/rest/cloudCompute/listCloudProviders?providerType=AWS&orgName=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgId</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>orgName</b> <i>optional</i>	Organization Name	string	
Query	<b>providerType</b> <i>optional</i>	Provider Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DNS Cloud Provider</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.30.28. Google Cloud Machine Type List

```
GET /cloudCompute/listGoogleMachines
```

#### Description

This operation retrieves the list of the google machine types for the given google cloud region.

The following example shows a sample request URL:

/rest/cloudCompute/listGoogleMachines?orgName=Internal&providerName=google&googleZone=us-east1-b

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>googleZone</b> <i>required</i>	Google Cloud Zone Name.	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Query	<b>providerName</b> <i>required</i>	Cloud Provider Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<< string, object > map > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.30.29. Google Cloud OS Image List

```
GET /cloudCompute/listGoogleOsImages
```

#### Description

Obtains a list of all the Google cloud OS images.

The example listed below shows a sample request URL:

/rest/cloudCompute/listGoogleOsImages?orgName=Internal&providerName=google&imageType=centos

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>imageType</b> <i>required</i>	Google cloud OS Image Type	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	



Type	Name	Description	Schema	Default
Query	<b>providerName</b> <i>required</i>	Cloud Provider Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<< string, object > map > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.30.30. Google Cloud Zone List

```
GET /cloudCompute/listGoogleZones
```

#### Description

This operation retrieves the list of all the Google cloud zones.

The following example shows a sample request URL:

```
/rest/cloudCompute/listGoogleZones?orgName=Internal&providerName=google
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Query	<b>providerName</b> <i>required</i>	Cloud Provider Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<< string, object > map > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.30.31. List Amazon Machine Images

```
GET /cloudCompute/listImages
```

#### Description

This operation retrieves the list of Amazon machine images added by users.

The following example shows a sample request URL:

```
/rest/cloudCompute/listImages
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cloudProviderId</b> <i>optional</i>	Cloud Provider Id	integer(int32)	
Query	<b>cloudProviderName</b> <i>optional</i>	Cloud Provider Name	string	
Query	<b>orgId</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>orgName</b> <i>optional</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Amazon Machine Image</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.30.32. List AWS Instance Families

```
GET /cloudCompute/listInstanceFamilies
```

#### Description

This operation retrieves the list of AWS Instance Families.

The following example shows a sample request URL:

/rest/cloudCompute/listInstanceFamilies

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">AWS Instance Family Type</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.30.33. List Instance Types

```
GET /cloudCompute/listInstanceTypes
```

#### Description

This operation retrieves the list of AWS instance types.

The following example shows a sample request URL:

/rest/cloudCompute/listInstanceTypes?instanceFamily=General purpose

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>instanceFamily</b> <i>required</i>	Instance Family	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">AWS Instance Type</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.31. Cloud Network Service

#### Description

This service provides methods to add a VPC in cloud, delete a VPC in cloud and get next available VPC in cloud.

#### 4.31.1. Create Network in Cloud

```
POST /cloudNetwork/createNetwork
```

#### Description

Create a Cloud Network.

Below example shows sample request JSON:

```
{ "cloudProviderName": "AWS", "fullAddress": "10.1.10.0", "mask": "24", "tenancy": "Dedicated", "name": "Test", "orgName": "Internal", "dhcpOptionsSetId": "Test", "series": "M3" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Create Network Request	<a href="#">Create Network Request</a>	

#### Responses

HTTP Code	Description	Schema
-----------	-------------	--------

HTTP Code	Description	Schema
200	successful operation	<a href="#">Create Network Response</a>

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

#### 4.31.2. Delete Network in Cloud

POST /cloudNetwork/deleteNetwork

#### Description

Delete a Cloud Network.

Below example shows sample request JSON:

```
{ "vpcId": "ERTFDFD54SDS6SDS", "cloudProviderName": "AWS-Provider", "orgName": "Internal" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Delete Network Request	<a href="#">Delete Cloud Network Request</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	boolean

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

#### 4.31.3. Gets Next Available Network Address

GET /cloudNetwork/getNextAvailableNetwork

#### Description

Returns next available IP to create a VPC in the given cloud provider and given mask. If startIP and endIP are given, the next available network in that range will be returned. If series is given, the next available network in the below ranges will be returned. 10.0.0.0 - 10.255.255.255 or 172.16.0.0 - 172.31.255.255 or 192.168.0.0 - 192.168.255.255 according to the series given. Series accepts 10 or 172 or 192. If series is also not given, the above ranges will be checked in that order.

The example listed below shows a sample request URL:

```
/rest/cloudNetwork/getNextAvailableNetwork?cloudProviderName=AWS&organizationName=Internal&mask=8
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cloudProviderName</b> <i>required</i>	Cloud Provider Name	string	
Query	<b>endIP</b> <i>optional</i>	endIP	string	
Query	<b>mask</b> <i>required</i>	Mask	integer(int32)	
Query	<b>organizationName</b> <i>required</i>	Organization Name	string	
Query	<b>series</b> <i>optional</i>	Series	string	
Query	<b>startIP</b> <i>optional</i>	StartIP	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- `text/plain`

#### Produces

- text/plain

#### 4.31.4. Create the discovered cloud subnets

```
POST /cloudSubnet/createDiscoveredSubnets
```

#### Description

Creates discovered cloud subnets into IPAM.  
Below example shows sample request JSON:

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Cloud subnet discovery command ID	integer(int32)	
Body	<b>body</b> <i>optional</i>	List of discovered cloud subnets	< <a href="#">Cloud Subnet Bean</a> > array	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Cloud Subnets Creation Status in the IPAM</a>

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.31.5. Create Subnet in Cloud

```
POST /cloudSubnet/createSubnet
```

#### Description

Create a Cloud Network.  
Below example shows sample request JSON:  
{ "vpcId": "vpc-10", "subnetFullAddress": "10.1.10.0/24", "mask": 24, "name": "Test", "cloudProviderName": "AWS", "orgName": "Internal", "region": "us-east1", "networkFullAddress": "10.1.10.0/24" }

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Create Subnet Request	<a href="#">Create Subnet Request</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Create Subnet Response</a>

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.31.6. Delete Subnet in Cloud

```
POST /cloudSubnet/deleteSubnet
```

#### Description

Delete a Cloud Subnet.  
Below example shows sample request JSON:  
{ "addressList": ["192.168.20.0/24", "192.168.32.0/24"], "organizationName": "Internal", "deletedBy": "201", "isDeleteChecked": 0 }

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Delete Subnet Request	<a href="#">Delete Cloud Subnet Request</a>	

## Responses

HTTP Code	Description	Schema
200	successful operation	boolean

## Consumes

- application/json
- application/xml

## Produces

- text/plain

### 4.31.7. Discover cloud hosted subnets

```
POST /cloudSubnet/discover
```

## Description

Discovers the cloud hosted subnets from the specified cloud providers.  
Below example shows sample request JSON:

## Parameters

Type	Name	Description	Schema	Default
Query	<b>all</b> <i>optional</i>	Use all cloud providers	boolean	
Body	<b>body</b> <i>required</i>	List of cloud providers	< <a href="#">DNS Cloud Provider</a> > array	

## Responses

HTTP Code	Description	Schema
default	successful operation	No Content

## Consumes

- application/json
- application/xml

## Produces

- application/json
- application/xml

### 4.31.8. Discard discovery results

```
POST /cloudSubnet/discovery/discardCmds
```

## Description

Discard the cloud discovery results.  
Below example shows sample request data:

## Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Discovery commands	< integer(int32) > array	

## Responses

HTTP Code	Description	Schema
default	successful operation	No Content

## Consumes

- application/json
- application/xml

## Produces

- application/json
- application/xml

### 4.31.9. Discovery command

```
GET /cloudSubnet/discovery/getCmdStatus
```

## Description

Obtain the status of a cloud subnet discovery command  
The example listed below shows a sample request URL:  
/rest/cloudSubnet/discovery/getCmdStatus?cmdId=1254

## Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Cloud subnet discovery command ID	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.31.10. Discovery commands

```
GET /cloudSubnet/discovery/getCmds
```

#### Description

Obtains a list of all cloud subnet discovery commands  
The example listed below shows a sample request URL:  
/rest/cloudSubnet/discovery/getCmds

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DBDiscoveryCommand</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.31.11. Discovered cloud subnet list

```
GET /cloudSubnet/getDiscoveredSubnets
```

#### Description

Obtains a list of all discovered cloud subnets for a given discovery command.  
The example listed below shows a sample request URL:  
/rest/discovery/getDiscoveredSubnets?cmdId=cmdIdValue

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Cloud subnet discovery command ID	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Cloud Subnet Bean</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.31.12. Gets Next Available Network Address

```
GET /cloudSubnet/getNextAvailableSubnet
```

#### Description

Returns next available IP to create a VPC in the given cloud provider and given mask.  
The example listed below shows a sample request URL:  
/rest/cloudSubnet/getNextAvailableSubnet?

## Parameters

Type	Name	Description	Schema	Default
Query	<b>cloudProviderName</b> <i>required</i>	Cloud Provider Name	string	
Query	<b>mask</b> <i>required</i>	Mask	integer(int32)	
Query	<b>networkAddress</b> <i>required</i>	Network Address	string	
Query	<b>organizationName</b> <i>required</i>	Organization Name	string	
Query	<b>vpcId</b> <i>required</i>	VPC Id. For Google cloud it is network name	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	string

## Consumes

- text/plain

## Produces

- application/json
- application/xml

## 4.32. Contact Service

## Description

This service provides the information related to the Contacts associated with the TCPWave IPAM such as get, edit, delete, update and list contacts etc.

## 4.32.1. Contact Add

POST /contact/add

## Description

Creates a new contact in the TCPWave IPAM. Only Functional Admin can create contacts in any organizations. Rest of the admins can create contacts only in the organizations that they belong to.

Below example shows the sample request JSON:

```
{"first_name":"john","last_name":"K","middle_name":"Edward","email_id":"john@tcpwave.com","phone_num":"+9856328","organization_name":"QAOrg"}
```

## Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Contacts Information</a>	

## Responses

HTTP Code	Description	Schema
500	TIMS-1321: Both organization name and id cannot be null, TIMS-1322: Cannot find the organization, TIMS-1323: invalid email address specified.	No Content

## Consumes

- application/json
- application/xml

## Produces

- application/json
- application/xml

## 4.32.2. Contact List based on Roles

GET /contact/auditroleslist

## Description

Obtains a list of all the Contacts based on selected user role defined and managed in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/contact/auditroleslist?roles=roleValue
```

## Parameters

Type	Name	Description	Schema	Default
Query	<b>roles</b> <i>required</i>	User Role required to list the contacts	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Contacts Information</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.32.3. Contact Delete

POST /contact/delete

#### Description

Deletes an existing contact in the TCPWave IPAM. Functional Admin can delete contacts belonging to any organization.

Rest of the admins can delete contacts belonging to their organization only.

Below example shows the sample request JSON:

```
{
"organization_name":"QAOrg","first_name":"john","last_name":"k","middle_name":"cena","email_id":"john@tcpwave.com","phone_num":"98563289354"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Contacts Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1331: Cannot find organization, TIMS-1332: Cannot find contact for the given criteria.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.32.4. Get Contact Information

POST /contact/get

#### Description

Provides the information of the contacts present in the TCPWave IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Contact Details	<a href="#">Contacts Information</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Contacts Information</a>
500	TIMS-1352: Organization does not exist, TIMS-1202: Contact does not exist.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.32.5. Contact List

GET /contact/list

#### Description

Obtains a list of all the Contacts defined and managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/contact/list

#### Responses



HTTP Code	Description	Schema
200	successful operation	< <a href="#">Contacts Information</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.32.6. Contact List

GET /contact/paged

#### Description

Obtains a list of all the Contacts defined and managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/contact/paged?start=1&length=20

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>inEdit</b> <i>optional</i>	Edit operation	integer(int32)	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization list	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Contact Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListContacts Information</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.32.7. Contact List for selected User Roles

GET /contact/roleslist

#### Description

Obtains a list of all the Contacts based on selected user role defined and managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/contact/roleslist?roles=roleValue

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>roles</b> <i>required</i>	User Roles required to list the contacts	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Contacts Information</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.32.8. Search Contacts

GET /contact/search

#### Description

Searches for the Contacts present in the TCPWave IPAM. The example listed below shows a sample request URL: /rest/contact/search?page=1&rows=20

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>required</i>	Organization List	string	
Query	<b>page</b> <i>optional</i>	Total page	integer(int32)	
Query	<b>rows</b> <i>optional</i>	Rows per page/Page Size	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListContacts Information</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.32.9. Contact Update

POST /contact/update

#### Description

Edits an existing contact in the TCPWave IPAM. Only Functional Admin can modify contacts in any organizations. Rest of the admins can create contacts only in the organizations that they belong to.

Below example shows the sample request JSON:

```
{ "first_name": "johnson", "last_name": "K", "middle_name": "Edward", "email_id": "john@tcpwave.com", "phone_num": "+9856328", "organization_name": "QAOrg" }
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>email</b> <i>optional</i>	Email Id	string	
Query	<b>first_name</b> <i>optional</i>	First Name	string	
Query	<b>last_name</b> <i>optional</i>	Last Name	string	
Query	<b>middle_name</b> <i>optional</i>	Middle Name	string	
Body	<b>body</b> <i>required</i>	Contact Details	<a href="#">Contacts Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1323: invalid email address specified.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

### 4.33. Contingency Service Details

#### 4.33.1. Create Service

POST /contingency/service/add

#### Description

Creates a service in the TCPWave IPAM.

Below example shows the sample request JSON:

```
{ "organizationName": "TCPWave", "name": "Service1", "description": "Service1
```

```
Description", "cname": "www.tcpwave.com.", "targets": [{"serviceMode": "LIVE", "target": "prod.tcpwave.com."},
```

```
{ "serviceMode": "CONTINGENCY", "target": "192.168.2.110"} ] }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Service information	<a href="#">Service</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation., TIMS-1536: Service name cannot be null., TIMS-1537: Service already exists: <Service Name>, TIMS-1541: CNAME resource record with owner: <CNAME Record> does not exist., TIMS-1539: Service target does not exist: <Target>	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.33.2. Delete Service

POST /contingency/service/delete

#### Description

Deletes a service from TCPWave IPAM.,

Below example shows the sample request URL:

```
/rest/contingency/service/delete?service=Test_Service&orgName=TCPWave
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Query	<b>service</b> <i>required</i>	Service Name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation., TIMS-1538: Service does not exist: <Service Name>	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.33.3. Dig CNAME record

GET /contingency/service/digCname

#### Description

Query associated CNAME record of the service by performing dig operation in the TCPWave IPAM.

Below example shows the sample request URL:

```
/rest/contingency/service/digCname?service=Test_Service&orgName=TCPWave
```

#### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Type Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Query	<b>service</b> <i>required</i>	Service Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7003: You are not authorized to perform this operation., TIMS-1538: Service does not exist: <Service Name>	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.33.4. Updated Service

POST /contingency/service/edit

#### Description

Updates a service in the TCPWave IPAM.

Below example shows the sample request JSON:

```
{
  "organizationName": "TCPWave",
  "name": "Service1",
  "description": "Description update",
  "cname": "www.tcpwave.com.",
  "targets": [
    {
      "serviceMode": "LIVE",
      "target": "prod.tcpwave.com."
    },
    {
      "serviceMode": "CONTINGENCY",
      "target": "192.168.2.110"
    }
  ],
  "oldName": "Service1"
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Service	<a href="#">Service</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation., TIMS-1536: Service name cannot be null., TIMS-1538: Service does not exist: <Service Name>, TIMS-1537: Service already exists: <Service Name>, TIMS-1541: CNAME resource record with owner: <CNAME Record> does not exist., TIMS-1539: Service target does not exist: <Target>	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.33.5. Service Details

GET /contingency/service/get

#### Description

Get the details of a service defined in the TCPWave IPAM.

Below example shows the sample request URL:

/rest/contingency/service/get?service=Test\_Service&orgName=TCPWave

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Query	<b>service</b> <i>required</i>	Service	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Service</a>
500	TIMS-7003: You are not authorized to perform this operation., TIMS-1538: Service does not exist: <Service Name>	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.33.6. Check Service Current Status

```
GET /contingency/service/getCurrentStatus
```

#### Description

Checks and return the current status of a service by performing dig operation in the TCPWave IPAM.

Below example shows the sample request URL:

```
/rest/contingency/service/getCurrentStatus?service=Test_Service&orgName=TCPWave
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Query	<b>service</b> <i>required</i>	Service Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7003: You are not authorized to perform this operation., TIMS-1538: Service does not exist: <Service Name>	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.33.7. List Services

```
GET /contingency/service/list
```

#### Description

List the services defined in the TCPWave IPAM.

Below example shows the sample request URL:

```
/rest/contingency/service/list?organizations=orgValue
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Comma Separated Organization Names	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Service</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.33.8. Deletes Service Switch Schedule

```
POST /contingency/service/schedule/delete
```

#### Description

Delete Service Switch Schedules from the TCPWave IPAM.

Below example shows the sample request JSON:

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Service Schedule	< <a href="#">Service Schedule</a> > array	

#### Responses

HTTP Code	Description	Schema
-----------	-------------	--------

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.33.9. Execute Scheduled Service Switch

POST /contingency/service/schedule/execute

#### Description

Executes a scheduled service switch in the TCPWave IPAM.

Below example shows the sample request JSON:

```
{ "organizationName": "TCPWave", "serviceName": "Service2", "serviceMode": "LIVE", "schedTaskId": "service2_switch_live" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Service Schedule	<a href="#">Service Schedule</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.33.10. List Service Switch Schedules

GET /contingency/service/schedule/list

#### Description

List the service switch schedules of a service defined in the TCPWave IPAM.

Below example shows the sample request URL: /rest/contingency/service/schedule/list?

service=Service2&orgName=TCPWave

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Query	<b>service</b> <i>required</i>	Service Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Service Schedule</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.33.11. Switch Service Mode

POST /contingency/service/switch

#### Description

Perform switch mode operation for a service in the TCPWave IPAM.

Below example shows the sample request URL: /rest/contingency/service/switch?

service=Service2&orgName=TCPWave&newMode=LIVE

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>newMode</b> <i>required</i>	New Mode	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Query	<b>service</b> <i>required</i>	Service Name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation., TIMS-1542: Service target: <Target> does not point to a valid 'A' or 'AAAA' resource record.TIMS-1540: Service mode: <Mode> has not been defined for service: <Service Name>	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.33.12. Switch Multiple Services Mode

```
POST /contingency/service/switchMultiple
```

#### Description

Perform switch mode operation for multiple services in the TCPWave IPAM.

The example listed below shows a sample request URL and JSON:

/rest/contingency/service/switchMultiple?newMode=LIVE

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>newMode</b> <i>required</i>	New Mode	string	
Body	<b>body</b> <i>required</i>	Service List	< <a href="#">Service</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.33.13. Create Service Mode

```
POST /contingency/serviceMode/add
```

#### Description

Creates a service mode in the TCPWave IPAM.

Below example shows the sample request JSON:

```
{ "mode": "Test", "description": "Test Service Mode" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Service Mode information	<a href="#">Service Mode</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation., TIMS-1531: Service mode cannot be null., TIMS-1533: Service mode already exists: <Mode Name>	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.33.14. Delete Service Mode

POST /contingency/serviceMode/delete

#### Description

Deletes a service mode from the TCPWave IPAM.  
Below example shows the sample request payload:  
Test\_Mode

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Service Mode	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.,TIMS-1532: Service mode does not exist: <Mode Name>, TIMS-1535: Default service mode cannot be deleted.,TIMS-1544: Service mode cannot be deleted as it is associated with one or more contingency service(s).	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.33.15. Updated Service Mode

POST /contingency/serviceMode/edit

#### Description

Updates a service mode in the TCPWave IPAM.  
Below example shows the sample request JSON:  
{ "mode": "Test-Mode", "oldMode": "Test", "description": "Test Service Mode" }

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Service Mode	<a href="#">Service Mode</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation., TIMS-1534: Default service mode cannot be updated., TIMS-1532: Service mode does not exist: <Mode Name>, TIMS-1533: Service mode already exists: <Mode Name>	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.33.16. Get Service Mode Details

GET /contingency/serviceMode/get

#### Description

Gets the service mode information defined in the TCPWave IPAM.  
Below example shows the sample request URL:  
/rest/contingency/serviceMode/get?serviceMode=LIVE

#### Parameters

Type	Name	Description	Schema	Default



Type	Name	Description	Schema	Default
Query	<b>serviceMode</b> <i>required</i>	Service Mode	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Service Mode</a>
500	TIMS-7003: You are not authorized to perform this operation.,TIMS-1532: Service mode does not exist: <Mode Name>	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.33.17. Service Mode List

```
GET /contingency/serviceMode/list
```

#### Description

Obtains a list of all the service modes defined in the TCPWave IPAM.

Below example shows the sample request URL:

```
/rest/contingency/serviceMode/list
```

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Service Mode</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

### 4.34. Custom Dashboard Service

#### 4.34.1. Add Dashboard

```
POST /custom/dashboard/add
```

#### Description

This operation creates a new dashboard in the TCPWave IPAM.

The following example shows a sample URL request:

```
/rest/custom/dashboard/add
```

The following example shows a sample JSON data:

```
{
  "name": "UserName",
  "isDefault": 1,
  "wList": "User Sessions",
  "positions": [
    {
      "w": 4,
      "h": 5,
      "content": "<div class='widget-body'>
        <div class='widget-header'>
          <span class='widget-title'>User Sessions</span>
          <span class='delete-widget hide-btn-menu'>
            <span class='dropdown-trigger' href='\" data-target='User-Sessions_btn'>
              <i class='fa fa-ellipsis-v' aria-hidden='true'></i>
            </span>
            <ul id='User-Sessions_btn' class='dropdown-content'>
              <li id='User-Sessions_li_btn' onclick='deleteWidget('User-Sessions-Widget')'>
                <i class='fa fa-minus-circle' aria-hidden='true'></i> Remove</li>
            </ul>
          </span>
        </div>
        <div class='widget-content' id='User-Sessions-Widget'></div>
        <div class='widget-updated-time' id='User-Sessions-updateTime'></div>
      </div>
    }
  ],
  "configList": [
    {
      "categoryName": "Executive",
      "widgetName": "User Sessions",
      "url": "/rest/home/getActiveSessionsChart",
      "chartType": "bar",
      "queryParams": {
        "start_date": "2021-12-28",
        "end_date": "2022-01-04"
      },
      "callType": "GET",
      "gridType": "null"
    }
  ]
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Dashboard details	<a href="#">Dashboard</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-16022: Dashboard name cannot be null.	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- application/json
- application/xml

#### 4.34.2. Dashboard List

GET /custom/dashboard/dashlist

##### Description

This operation retrieves the list of all the dashboards.  
The following example shows a sample request URL:  
/rest/custom/dashboard/dashlist

##### Responses

HTTP Code	Description	Schema
200	successful operation	< < string, string > map > array
500	TIMS-1351: User Id cannot be null.	No Content

##### Produces

- application/json
- application/xml

#### 4.34.3. Dashboard Delete

GET /custom/dashboard/delete

##### Description

This operation deletes the existing dashboard.  
The following example shows a sample URL request :  
/rest/custom/dashboard/delete?name=dashboard1

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Dashboard Name	string	

##### Responses

HTTP Code	Description	Schema
500	TIMS-16022: Dashboard name cannot be null. TIMS-16000: Given dashboard name does not exist.: <name>. TIMS-16001: User cannot delete default dashboards.	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml

#### 4.34.4. Edit Dashboard

POST /custom/dashboard/edit

##### Description

This operation edits the existing dashboard in the TCPWave IPAM.  
The following example shows a sample URL request:  
/rest/custom/dashboard/edit

The following example shows a sample JSON data:

```
{
  "name": "UserName",
  "isDefault": 1,
  "wList": "User Sessions, Total Objects",
  "positions": [
    {
      "w": 4,
      "h": 5,
      "content": "<div class='widget-body'><div class='widget-header'><span class='widget-title'>User Sessions</span><span class='delete-widget hide-btn-menu'><span class='dropdown-trigger' href='\" data-target='User-Sessions_btn'><i class='fa fa-ellipsis-v' aria-hidden='true'></i></span><ul id='User-Sessions_btn' class='dropdown-content'><li id='User-Sessions_li_btn' onclick='deleteWidget('User-Sessions-Widget')><i class='fa fa-minus-circle' aria-hidden='true'></i> Remove</li></ul></span></div><div class='widget-content' id='User-Sessions-Widget'></div><div class='widget-updated-time' id='User-Sessions-updateTime'></div></div></div>\",
      {
        \"w\": 4,
        \"h\": 5,
        \"content\": \"<div class='widget-body'><div class='widget-header'><span class='widget-title'>Total Objects</span><span class='delete-widget hide-btn-menu'><span class='dropdown-trigger' href='\" data-target='Total-Objects_btn'><i class='fa fa-ellipsis-v' aria-hidden='true'></i></span><ul id='Total-Objects_btn' class='dropdown-content'><li id='Total-Objects_li_btn' onclick='deleteWidget('Total-Objects-Widget')><i class='fa fa-minus-circle' aria-hidden='true'></i> Remove</li></ul></span></div><div class='widget-content' id='Total-Objects-Widget'></div><div class='widget-updated-time' id='Total-Objects-updateTime'></div></div>\"}],
      \"configList\": [
        {
          \"widgetName\": \"User Sessions\",
          \"queryParams\": {
            \"end_date\": \"2022-01-04\",
            \"start_date\": \"2021-12-28\"
          },
          \"gridType\": \"null\",
          \"chartType\": \"bar\",
          \"categoryName\": \"Executive\",
          \"url\": \"rest/home/getActiveSessionsChart\",
          \"callType\": \"GET\"
        },
        {
          \"categoryName\": \"Executive\",
          \"widgetName\": \"Total Objects\",
          \"url\": \"rest/home/getTotalObjectData\",
          \"chartType\": \"line\",
          \"queryParams\": {
            \"start_date\": \"2021-12-28\",
            \"end_date\": \"2022-01-04\",
            \"organizations\": \"Internal\"
          },
          \"callType\": \"GET\",
          \"gridType\": \"null\"
        }
      ],
      \"oldName\": \"UserName\"
    }
  ]
}
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Dashboard details	<a href="#">Dashboard</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-16022: Dashboard name cannot be null.	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

#### 4.34.5. Dashboard List

```
GET /custom/dashboard/list
```

#### Description

This operation retrieves the list of all the dashboards.  
The following example shows a sample request URL:  
`/rest/custom/dashboard/list`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>dashboardName</b> <i>optional</i>	Dashboard Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">UserDashboards</a>
500	TIMS-1351: User Id cannot be null.	No Content

#### Produces

- `application/json`
- `application/xml`

#### 4.34.6. Rename Dashboard

```
GET /custom/dashboard/rename
```

#### Description

This operation rename the existing dashboard.  
The following example shows a sample URL request:  
`/rest/custom/dashboard/rename?name=Green&oldName=Red`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Dashboard Name	string	
Query	<b>oldName</b> <i>required</i>	Dashboard Old Name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-16022: Dashboard name cannot be null.TIMS-1351: User Id cannot be null.	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

#### 4.34.7. Dashboard Default

```
GET /custom/dashboard/updateDefault
```

#### Description

This operation updates the existing dashboard to default.  
 The following example shows a sample URL request:  
 /rest/custom/dashboard/updateDefault?name=Green&selected=1

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Dashboard Name	string	
Query	<b>selected</b> <i>required</i>	isDefault	boolean	

#### Responses

HTTP Code	Description	Schema
500	TIMS-16022: Dashboard name cannot be null.TIMS-1351: User Id cannot be null.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.34.8. Widget Category List

```
GET /custom/dashboard/widget/categorylist
```

#### Description

This operation retrieves the list of all the widget categories.  
 The following example shows a sample request URL:  
 /rest/custom/dashboard/widget/categorylist

#### Responses

HTTP Code	Description	Schema
200	successful operation	< < string, string > map > array
500	TIMS-1351: User Id cannot be null.TIMS-16000: Given dashboard name does not exist: <name>.TIMS-16000: Given dashboard name does not exist.TIMS-16022: Dashboard name cannot be null.	No Content

#### Produces

- application/json
- application/xml

#### 4.34.9. Delete Widget

```
GET /custom/dashboard/widget/delete
```

#### Description

This operation deletes an existing widget from the dashboard.  
 The following example shows a sample URL request:  
 /rest/custom/dashboard/widget/delete?dName=Executive&wName=CPU Utilization

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>dName</b> <i>required</i>	Dashboard Name	string	
Query	<b>wName</b> <i>required</i>	Widget Name	string	
Query	<b>widgetId</b> <i>optional</i>	Widget ID	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-16022: Dashboard name cannot be null.TIMS-1351: User Id cannot be null.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.34.10. Widget List

```
GET /custom/dashboard/widget/list
```

##### Description

This operation retrieves the list of all the widgets based on the category.

The following example shows a sample request URL:

```
/rest/custom/dashboard/widget/list?categoryName=Executive
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>categoryName</b> <i>optional</i>	WidgetCategory Name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<< string, string > map > array

##### Produces

- application/json
- application/xml

#### 4.35. DHCP Active Lease Service

##### Description

This service class provides Active Lease of a DHCP Server in the TCPWave IPAM.

##### 4.35.1. Get Active Leases

```
GET /dhcpActiveLeases/getActiveLeases
```

##### Description

Provides all the Active Leases for a given IPv4 DHCP Appliances in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/dhcpActiveLeases/getActiveLeases?serverAddress=1.0.0.3
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>serverAddress</b> <i>required</i>	DHCP Appliance Address	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DHCPLeaseObject</a> > array
500	TIMS-4017: Auth token is not specified, TIMS-4016: Auth token has expired, TIMS-7003: You are not authorized to perform this operation.	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.36. DHCP Appliance Service

##### Description

This service class provides services related to DHCP appliance such as add/edit/delete/configure/sync/list DHCP appliance in the TCPWave IPAM.

##### 4.36.1. DHCP Appliance Create

```
POST /dhcpserver/add
```

##### Description

This operation creates an IPv4 Primary/Failover DHCP Appliance in TCPWave IPAM. You can configure appliance level attributes such as NTP and DNS Resolver, Monitoring, PAM Settings, etc.

Sample payloads with mandatory parameters to add a DHCP Appliance are listed below.

```
Create DHCP Appliance<br>{"server": {"v4_ipaddress": "10.1.10.91", "name": "TCPWave00005Remote", "domain_name": "qa.com", "timeZone": "GMT (GMT)", "organization_name": "QAOrg", "dhcp_policy_template_name": "policy-temp", "dhcpcd_interfaces": "eth0,eth1", "resolverData": {"\ns1\":"10.1.10.16"}, "snmpConfig": {"\trapSink1\":"10.1.10.17", "\trapSink2\":"10.1.10.18", "\communityString\":"\public", "\systemName\":"test-dhcp-server.qa.com", "\processes\":"ntpd-1/dns-1/ssh-1/monit-1/syslogng-1/dhcpd-1 \}, "ntpConfig": "10.1.10.15", "server_type": "DHCP"}}<br>Create DHCP Appliance with MAC Exclusion<br>{"server": {"v4_ipaddress": "10.1.10.91", "name": "TCPWave00005Remote", "domain_name": "qa.com", "timeZone": "GMT (GMT)", "organization_name": "QAOrg", "dhcp_policy_template_name": "policy-temp", "resolverData": "
```

```
{
  "ns1": "10.1.10.16",
  "snmpConfig": {
    "trapSink1": "10.1.10.17",
    "trapSink2": "10.1.10.18",
    "communityString": "public",
    "systemName": "test-dhcp-server.qa.com",
    "processes": "ntpd-1/dns-1/sshd-1/monit-1/syslogng-1/dhcpd-1"
  },
  "ntpConfig": "10.1.10.15",
  "server_type": "DHCP",
  "macExclusionArray": {
    "macAddress": "aa:bb:cc:dd:ee:ff"
  }
}
<br>
Create DHCP Appliance with SNMPv3 Enabled
{
  "server": {
    "v4_ipaddress": "10.1.10.91",
    "name": "TCPWave00005Remote",
    "domain_name": "qa.com",
    "timeZone": "GMT (GMT)",
    "organization_name": "QAOrg",
    "dhcp_policy_template_name": "policy-temp",
    "resolverData": {
      "ns1": "10.1.10.16",
      "enableSNMPv3": true,
      "snmpv3Users": {
        "userName": "tcpwave",
        "password": "wxyz1234",
        "authentication_protocol": "SHA",
        "encryption_protocol": "AES"
      }
    },
    "snmpConfig": {
      "trapSink1": "10.1.10.17",
      "trapSink2": "10.1.10.18",
      "communityString": "public",
      "systemName": "test-dhcp-server.qa.com",
      "processes": "ntpd-1/dns-1/sshd-1/monit-1/syslogng-1/dhcpd-1"
    },
    "ntpConfig": "10.1.10.15",
    "server_type": "DHCP"
  }
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>required</i>	DHCP appliance details	<a href="#">DHCP Appliance</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3030: Both object id and IP Address cannot be null, TIMS-3033: An appliance already exists with the specified address, TIMS-3031: Specified object not found, TIMS-3036: Both DHCP Policy Template name and id cannot be null, TIMS-3037: Specified DHCP Policy Template not found, TIMS-3038: Invalid Appliance Type specified, TIMS-3039: Cannot create a appliance using a DHCP object.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.36.2. DHCP Appliance Delete

```
POST /dhcpserver/delete
```

#### Description

This operation deletes a given IPv4 DHCP appliance, provided it does not serve any references associated with the DHCP appliance.

The following example shows a sample request URL:

```
/rest/dhcpserver/delete?address=10.1.10.91
```

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>required</i>	Appliance details	<a href="#">Appliance Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1368: Cannot delete the DHCP Appliance as it manages one or more subnets, TIMS-1369: Cannot delete the DHCP Appliance as it manages one or more scopes, TIMS-1370: Cannot delete the DHCP Appliance, as it is a failover to a DHCP Appliance, TIMS-1371: Cannot delete the DHCP Appliance, as there are Manual-DHCP Objects associated to it, TIMS-1360: Specified appliance not found. <Server address>, TIMS-1359: Both appliance id and address cannot be null.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.36.3. DHCP Appliance Active Leases

```
GET /dhcpserver/dhcpActiveLeases
```

#### Description

This operation retrieves the list of IPv4 DHCP Appliance active leases defined and managed by the TCPWave IPAM.

The following example shows a sample request URL

```
/rest/dhcpserver/dhcpActiveLeases?serverIp=10.0.0.2
```

#### Parameters

Type	Name	Description	Schema	Default

Type	Name	Description	Schema	Default
Query	<code>serverIp</code> <i>required</i>	Required Server's IP address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListDHCPLeaseObject</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.36.4. DHCP Appliance Update

POST /dhcpserver/edit

#### Description

This operation edits an IPv4 Primary/Failover DHCP Appliance in TCPWave IPAM. You can configure appliance level attributes such as NTP and DNS Resolver, Monitoring, PAM Settings, etc.

The following example shows a sample request JSON:

```
{ "server": { "serverPreference": "Primary", "v4_ipaddress": "10.1.10.124", "name": "Sales-Remote-125", "domain_name": "adomain.com", "appliance_group": "test Detroit", "timeZone": "GMT (GMT)", "dhcp_policy_template_name": "dhcp test", "dhcp_interfaces": "eth0,eth1", "description": "", "monitoringService": "yes", "old_address": "10.1.10.125", "banner": "", "setFailoverFlag": false, "option": "no", "snmpConfig": { "trapSink1": "10.1.10.126", "trapSink2": "10.1.10.127", "communityString": "10.1.10.128", "systemContact": "", "systemName": "Sales-Remote-125.adomain.com", "processes": "ntpd-1/dns-1/sshd-1/monit-1/syslogng-1/dhcpd-1", "resolverData": { "ns1": "110.1.10.129", "ns2": "", "ns3": "", "ns4": "", "search1": "", "search2": "", "search3": "", "search4": "", "search5": "", "search6": "" }, "syslogConfig": { { "action": "/var/log/messages", "active": "yes", "selector": ".info;mail.none;authpriv.none;cron.none", "type": "File" }, { "action": "/var/log/secure", "active": "yes", "selector": "authpriv.", "type": "File" }, { "action": "/var/log/audit", "active": "yes", "selector": "audit.", "type": "File" }, { "action": "/var/log/maillog", "active": "yes", "selector": "mail.", "type": "File" }, { "action": "/var/log/cron", "active": "yes", "selector": "cron.", "type": "File" }, { "action": "omusrmsg.*", "active": "yes", "selector": ".emerg", "type": "DefaultType" }, { "action": "/var/log/spooler", "active": "yes", "selector": "uucp,news.crit", "type": "File" }, { "action": "/var/log/boot.log", "active": "yes", "selector": "local7.", "type": "File" } }, "ntpConfig": "10.1.10.130", "idracSnmpCommunity": "no-@@-@@-.", "server_type": "DHCP", "macExclusionArray": [{"macAddress": "AA:BB:CC:DD:EE:FF", "macDescription": ""}] }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<code>body</code> <i>required</i>	DHCP appliance details	<a href="#">DHCP Appliance</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3030: Both object id and IP Address cannot be null. TIMS-3031: Specified object is not found. TIMS-3036: Both DHCP Policy Template name and id cannot be null. TIMS-3037: Specified DHCP Policy Template not found.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.36.5. Form a cluster with 2 remote appliances

POST /dhcpserver/formCluster

#### Parameters

Type	Name	Description	Schema	Default
Body	<code>body</code> <i>required</i>	Remote Cluster details	<a href="#">Remote Cluster Server Information</a>	

#### Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
500	TIMS-3009: Object does not exist. TIMS-3033: An Appliance already exists with the 10.1.10.10	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.36.6. Perform cluster formation sanity check.

POST /dhcpserver/formClusterSanity

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Remote Cluster details	<a href="#">Remote Cluster Server Information</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3009: Object does not exist. TIMS-3033: An Appliance already exists with the : {0}	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.36.7. Form a cluster with 2 remote appliances

POST /dhcpserver/formImportCluster

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Remote Cluster Info	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3009: Object does not exist. TIMS-3033: An Appliance already exists with the : {0}	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.36.8. Generate appliance Configuration for sync

GET /dhcpserver/generateConfig

#### Description

This operation generates adhoc IPv4 DHCP, other miscellaneous appliance level configurations and syncs the appliance with the latest data. Configuration generation is subjected to a sanity check process that validates the syntax of the DHCP Configuration to ensure that erroneous configuration is not sent to the appliance.

**The following example shows a sample request URL**

/rest/dhcpserver/generateConfig?

address=10.0.0.2&organization\_name=QAOrg&servername=srver1&serverType=KEA\_DHCP

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Required Server's IP address	string	



Type	Name	Description	Schema	Default
Query	<b>organization_name</b> <i>required</i>	Required Organization Name	string	
Query	<b>serverType</b> <i>optional</i>	Appliance Type	string	
Query	<b>servername</b> <i>required</i>	Required Appliance Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.36.9. DHCP Appliance Heartbeat

```
GET /dhcpserver/heartbeat
```

#### Description

This operation retrieves the heartbeat status of any IPv4 DHCP appliance in the TCPWave IPAM

The example listed below shows a sample request URL:

```
rest/dhcpserver/heartbeat?server_ip=10.0.0.2&server_type=dhcpServer
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>server_ip</b> <i>required</i>	Required Server's IP address	string	
Query	<b>server_type</b> <i>required</i>	Required Server's type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.36.10. DHCP Appliance List

```
GET /dhcpserver/list
```

#### Description

This operation retrieves the list of all the IPv4 DHCP Appliances configured in the TCPWave IPAM.

The following example shows a sample request URL:

```
/rest/dhcpserver/list?organizations=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Server Information</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.36.11. DHCP Appliance List

```
GET /dhcpserver/page
```

#### Description

This operation retrieves the list of the paginated DHCP appliances defined in the TCPWave IPAM.

The following example shows a sample request url:

```
/tims/rest/dnsserver/page/?draw=1&start=0&length=20&sort=name&order=asc&filterRules=[]
```

#### Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>	Session token for authorization	string	
Query	<b>customFilterRules</b> <i>optional</i>	Custom Filter String	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization Names	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting DHCP Appliance Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">Server Information</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.36.12. Reset remote cluster

```
POST /dhcpserver/resetCluster
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Remote Cluster IP	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3009: Object does not exist.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.36.13. Appliance Configuration

```
GET /dhcpserver/server-configuration/{server_address}
```

#### Description

This operation retrieves the DHCP appliance configuration of a given object address in the TCPWave IPAM.

**The following example shows a sample request URL**

/rest/dhcpserver/server-configuration?server\_address=10.0.0.2

#### Parameters

Type	Name	Description	Schema	Default
Path	<b>server_address</b> <i>required</i>	Required Server IP Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">DHCP Appliance</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.36.14. Appliance Subnet References

```
GET /dhcpserver/server-subnet-references
```

#### Description

This operation retrieves the list of subnet references associated with an IPv4 DHCP Appliance in the TCPWave IPAM.

**The following example shows a sample request URL**

/rest/dhcpserver/server-subnet-references?address=10.0.0.2

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	IP address of the selected Server	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Subnet Information</a> > > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.36.15. DHCP Appliance IP Count

```
GET /dhcpserver/serverIPCount
```

#### Description

This operation retrieves the total count of Dynamic DHCP IP addresses managed by each IPv4 DHCP Appliance in the TCPWave IPAM.

**The following example shows a sample request URL**

/rest/dhcpserver/serverIPCount?organizations=QAOrg

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization List	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< string > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.36.16. Execute Command on DHCP Appliance

### Description

This operation retrieves information about the execution output of a given command number from an IPv4 DHCP appliance.

**The example listed below shows a sample request URL**

```
rest/dhcpserver/subsys?server_name=TCPWave00005Remote&server_ip=10.0.0.0&argc=2
```

**Note: Below are the arc values should be use in argc based on the command:**

```
/opt/tcpwave/scripts/timsdhcpRestart.sh =0
/usr/bin/sudo /sbin/service snmpd restart =1
sudo /bin/timeout 5s /usr/sbin/tcpdump -nn -i eth0 udp port 67 or tcp port 68 -c 200 -tttt =2
/usr/bin/sudo /sbin/service snmpd restart =3
/usr/bin/sudo /sbin/service dhcpd restart =4
/usr/bin/sudo /sbin/service monit restart =5
/usr/bin/sudo /sbin/service ntpd restart =6
/usr/bin/sudo /sbin/service sshd restart =7
/opt/tcpwave/scripts/powerCycle =8
/opt/tcpwave/scripts/powerOff =9
disable dhcp service =10
restart dhcp service =11
enable dhcp service =12
```

### Parameters

Type	Name	Description	Schema	Default
Query	<b>argc</b> <i>required</i>	argc	integer(int32)	
Query	<b>server_ip</b> <i>required</i>	Required Server's IP address	string	
Query	<b>server_name</b> <i>required</i>	Required Server's Name	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	string

### Consumes

- text/plain

### Produces

- application/json
- application/xml
- text/plain

### 4.36.17. Sync DHCP Active Leases

POST /dhcpserver/syncActiveLease

### Description

This operation synchronizes all the active leases data for the defined and managed appliance by the TCPWave IPAM and publishes the DDNS updates.

**The example listed below shows a sample request URL**

```
/rest/dhcpserver/syncActiveLease?
```

```
serverAddress=192.168.0.158&subnetAddress=192.168.0.0&dhcpType=DHCP&orgName=Internal&type=subnet
```

### Parameters

Type	Name	Description	Schema	Default
Query	<b>dhcpType</b> <i>required</i>	Required Appliance type	string	
Query	<b>orgName</b> <i>required</i>	Organization	string	
Query	<b>serverAddress</b> <i>required</i>	Required Appliance IP address	string	
Query	<b>subnetAddress</b> <i>required</i>	Subnet IP address	string	
Query	<b>type</b> <i>required</i>	Type	string	

### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

### Consumes

- application/json

- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.36.18. Generate Appliance Configuration for sync of all servers

```
POST /dhcpserver/syncall
```

#### Description

This operation generates Adhoc IPv4 DHCP and other miscellaneous appliance level configurations and syncs all the appliances with the latest data. Configuration generation is subjected to a sanity check process that validates the syntax of the DHCP Configuration to ensure that erroneous configuration is not sent to the appliance.

The following example shows a sample request JSON:

```
{{"name":"sit-remote-001","v4_address":"10.1.10.186","organization_name":"EARTH"},{"name":"sit-remote-002","v4_address":"10.1.10.187","organization_name":"EARTH"}}
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_name</b> <i>required</i>	Required Organization Name	string	
Body	<b>body</b> <i>required</i>	List of DHCP appliance details	< <a href="#">Server Basic Information</a> > array	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.36.19. Update remote cluster settings

```
POST /dhcpserver/updateCluster
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Remote Cluster details	<a href="#">Remote Cluster Server Information</a>	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.36.20. View Configuration

```
GET /dhcpserver/viewconfig
```

#### Description

This operation downloads the latest IPv4 DHCP Appliance configuration defined and managed by the TCPWave IPAM.

**The following example shows a sample request URL**

```
/rest/dhcpserver/viewconfig?address=10.0.0.2&organization_name=QAOrg
```

#### Parameters

Type	Name	Description	Schema	Default

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	IP address of the selected Server	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

### 4.37. DHCP Class Service

#### Description

This service class provides facility to add, modify, delete, list DHCP Client class in the TCPWave IPAM.

#### 4.37.1. Create DHCP Class

```
POST /dhcpclass/add
```

#### Description

This operation creates DHCP Client, User, and Vendor classes in the TCPWave IPAM.

The following example shows the sample request JSON:

```
{ "name": "user-class", "match_expression": "option user-class = userclass;", "description": "DHCP class added from REST API", "entity_type": "USER" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	DHCP class details	<a href="#">DHCP Class</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-2027: DHCP class with the given match expression already exists, TIMS-2028: DHCP class with the given name already exists.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.37.2. DHCP Classes Delete

```
POST /dhcpclass/delete
```

#### Description

This operation deletes the DHCP class definition, provided there are no references associated with it.

The following example shows the sample request URL:

```
/dhcpclass/delete?name=client8&entityType=CLIENT
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>entityType</b> <i>required</i>	Required Entity Type	string	
Query	<b>id</b> <i>optional</i>	Required DHCP Class Id	integer(int32)	
Query	<b>name</b> <i>required</i>	DHCP Class Name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1371: Cannot delete this class as it is being used by one or more scopes, TIMS-7003: You are not authorized to perform this operation, TIMS-1371: Cannot delete this class as it is being used by one or more scopes.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.37.3. DHCP Class Edit

POST /dhcpclass/edit

#### Description

This operation edits a given DHCP class, and the class name, the match expression can be edited.

The following example shows a sample request JSON:

```
{ "name": "Client1", "match_expression": "option dhcp-client-identifier = client", "description": "testing", "entity_type": "CLIENT", "previous_name": "Client11" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	DHCP class details	<a href="#">DHCP Class</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation, TIMS-2027: DHCP class with the given match expression already exists.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.37.4. DHCP Class List

GET /dhcpclass/get

#### Description

This operation retrieves the list of all the DHCP class definitions defined in the TCPWave IPAM.

The following example shows a sample request URL:

```
rest/dhcpclass/get?entityType=VENDOR&name=nameValue
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>entityType</b> <i>required</i>	Entity Type	string	
Query	<b>name</b> <i>required</i>	Class Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DHCP Class</a> > array

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.37.5. DHCP Class List

GET /dhcpclass/list

#### Description

This operation retrieves the paginated list of all the DHCP class definitions defined in the TCPWave IPAM.

The following example shows a sample request URL:

/rest/dhcpclass/list?entityType=VENDOR

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>entityType</b> <i>required</i>	Entity Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DHCP Class</a> > array

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.37.6. Find DHCP Class References

```
GET /dhcpclass/references
```

#### Description

This operation retrieves the list of DHCP class references like scope, DHCP manual objects in the TCPWave IPAM.

The following example shows the sample request URL:

/rest/dhcpclass/references?tables=tableName

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>count</b> <i>optional</i>	Count Flag	string	
Query	<b>id</b> <i>optional</i>	Reference Id	string	
Query	<b>page</b> <i>optional</i>	Page Number	integer(int32)	
Query	<b>rows</b> <i>optional</i>	Number of rows	integer(int32)	
Query	<b>tables</b> <i>required</i>	Table	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Reference Results</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.38. DHCP Defaults Service

#### Description

This service provides API's to get and update DHCP defaults in the TCPWave IPAM.

#### 4.38.1. Get Global DHCP Elevated Privileges

```
GET /DHCPDefaults/get
```

#### Description

Provides the details of Global DHCP Elevated Privileges

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">DHCPApplianceDefaults</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain



#### Produces

- application/json
- application/xml

### 4.38.2. Get Global DHCP Syslog-ng Configuration

```
GET /DHCPDefaults/getSyslogngConfig
```

#### Description

Provides the details of Global DHCP Syslog-ng Configuration

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">DHCPApplianceDefaults</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.38.3. Get Global DHCP TACACS+ Configuration

```
GET /DHCPDefaults/getTacacsConfig
```

#### Description

Provides the details of Global DHCP TACACS+ Configuration

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">DHCPApplianceDefaults</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

## 4.39. DHCP Failover Service

#### Description

This service class provides services related to DHCP Failover peer such as add/update/delete/list/get for DHCP failover peer defined in the TCPWave IPAM.

#### 4.39.1. Failover Peer Add

```
POST /dhcpfailoverpeer/add
```

#### Description

This operation creates the DHCP IPv4 failover peers based on peer properties such as primary, failover ports, split, etc., in the TCPWave IPAM.

The following example shows a sample request JSON:

```
{ "organizationName": "Internal", "name": "Post
```

```
peer", "primaryServerAddress": "10.1.10.3", "failoverServerAddress": "10.1.10.5", "primary_port": "647", "failover_port": "647", "mclt": "1800", "max_response_delay": "
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">DHCP Failover</a>	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

- text/plain

#### 4.39.2. Failover Peer Delete

POST /dhcpfailoverpeer/delete

##### Description

This operation deletes the DHCP IPv4 Failover Peers from the TCPWave IPAM provided there are no references associated with it.

The following example shows a sample request JSON:

```
{ "primaryServerAddress": "10.1.10.3", "failoverServerAddress": "10.1.10.5", "organizationName": "Earth", "name": "Post peer" }
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">DHCP Failover</a>	

##### Responses

HTTP Code	Description	Schema
<b>default</b>	successful operation	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml
- text/plain

#### 4.39.3. Failover Peer Details

GET /dhcpfailoverpeer/get

##### Description

This operation retrieves the peer configuration properties for the given Failover Peer name from the TCPWave IPAM.

The following example shows a sample request URL:

```
/rest/dhcpfailoverpeer/get?peerName=test
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>peerName</b> <i>optional</i>		string	

##### Responses

HTTP Code	Description	Schema
<b>200</b>	successful operation	<a href="#">DHCP Failover</a>

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml
- text/plain

#### 4.39.4. Failover Peer List

GET /dhcpfailoverpeer/list

##### Description

This operation retrieves the list of all the defined DHCP IPv4 Failover Peers in the TCPWave IPAM .

The following example shows a sample request URL:

```
/rest/dhcpfailoverpeer/list?serverAddress=1.0.0.3&organizations=Internal
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organizations	string	
Query	<b>serverAddress</b> <i>optional</i>		string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DHCP Failover</a> > array

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

#### 4.39.5. Failover Peer List

```
GET /dhcpfailoverpeer/listrows
```

#### Description

This operation retrieves the paginated list of all the DHCP IPv4 Failover Peers from the TCPWave IPAM.

The following example shows a sample request URL:

```
/rest/dhcpfailoverpeer/listrows?serverAddress=1.0.0.5&organizations=Internal&start=1&length=20
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>organizations</b> <i>optional</i>	Organizations	string	
Query	<b>serverAddress</b> <i>optional</i>		string	
Query	<b>start</b> <i>required</i>	Starting Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListDHCP Failover</a>

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

#### 4.39.6. Failover Peer Edit

```
POST /dhcpfailoverpeer/update
```

#### Description

This operation edits the DHCP IPv4 failover peers based on peer properties such as primary, failover ports, split, etc., and updates the latest information to the appliances in the TCPWave IPAM.

The following example shows a sample request JSON:

```
{ "organizationName": "Earth", "name": "Post peer", "primaryServerAddress": "10.1.10.3", "failoverServerAddress": "10.1.10.6", "primary_port": "647", "failover_port": "647", "mclt": "1800", "max_response_delay": "peer" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">DHCP Failover</a>	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json

- application/xml

#### Produces

- application/json
- application/xml
- text/plain

### 4.40. DHCP Option Space

#### 4.40.1. DHCP option space add

POST /dhcpOptionSpace/create

##### Description

This operation creates DHCP option space in the TCPWave IPAM.

The following example shows a sample request JSON:

```
{ "DHCPOptionSpace": {"optionSpaceName": "optionPXE", "vendorClassName": "DELL", "description": "DHCP option space",}}
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">DHCP Option Space</a>	

##### Responses

HTTP Code	Description	Schema
500	TIMS-4001: DHCP option space already exists with name <name>	No Content

##### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.40.2. DHCP option space delete

POST /dhcpOptionSpace/delete

##### Description

This operation deletes the given DHCP option space provided there are no references like DHCP IPv4 option template, etc., associated with it.

The following example shows a sample request URL:

```
/rest/dhcpOptionSpace/delete?optionSpaceName=Test
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>optionSpaceName</b> <i>required</i>	Option Sequence	string	

##### Responses

HTTP Code	Description	Schema
500	TIMS-3938: DHCP option space does not exist with name <name>	No Content

##### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.40.3. Option Space List

GET /dhcpOptionSpace/list

##### Description

This operation retrieves the list of DHCP option spaces defined and managed by the TCPWave IPAM.

The following example shows a sample request URL:

```
/rest/dhcpOptionSpace/list
```

##### Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DHCP Option Space</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- `text/plain`
- `application/json`

#### Produces

- `application/json`
- `application/xml`

#### 4.40.4. User Defined sub options list

```
GET /dhcpOptionSpace/list-sub-options
```

#### Description

This operation retrieves the list of all sub-options defined within option space in the TCPWave IPAM.

The following example shows a sample request URL:

```
/rest/dhcpOptionSpace/list-sub-options?optionSpaceName=Test
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>optionSpaceName</b> <i>required</i>	DHCP Option Space name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Parameters Information</a> > array

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.40.5. DHCP option space update

```
POST /dhcpOptionSpace/update
```

#### Description

This operation updates DHCP option space data in the TCPWave IPAM.

The following example shows a sample request JSON:

```
{ "DHCPOptionSpace": {"optionSpaceName": "optionPXE", "vendorClassName": "DELL", "prevoptionSpaceName": "optionTest", "description": "DHCP option space",}}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">DHCP Option Space</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3946: DHCP option space cannot be update as the sub options defined in it are used in the option template(s),TIMS-3943: DHCP option space already exists with name <name>	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

### 4.41. DNS Analytics Service

#### Description

This service provides API's such as get anomalous domains, to whitelist or block the domains, retrain "

#### 4.41.1. Block Domains

```
POST /dnsanalytics/blockdomains
```

#### Description

Block the given domains through RPZ.  
Below example shows sample request:  
domain.com,tcpcwave.com,internal.com

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- `text/plain`

#### 4.41.2. Delete anomalous Domains

```
POST /dnsanalytics/deletedomains
```

#### Description

Delete the given anomalous domains from the database. This operation does not effect the domains which are whitelisted or blocked already.  
Below example shows sample request:  
domain.com, tcpcwave.com, internal.com

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		string	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- `text/plain`

#### 4.41.3. Get Domains Reputation Data

```
GET /dnsanalytics/getanomalousdomains
```

#### Description

Gets the anomalous domains that are detected during DNS tunnel detection and the domains reputation data imported by the user and the information about the state of the domains if they are whitelisted or blocked.  
The example listed below shows a sample request URL:  
`/rest/dnsanalytics/getanomalousdomains`

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">AnomalousDomain</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.41.4. Get DNS Analytics Rules

```
GET /dnsanalytics/getrules
```

#### Description

Gets various rules defined to analyze DNS traffic.  
Below example shows the sample request URL:  
`/rest/dnsanalytics/getrules`

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">DNSAnalyticsRules</a>

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.41.5. Import Domains Reputation Data

POST /dnsanalytics/importdomains

#### Description

Imports domains with the reputational information such as whitelisted or blocked or none.

Below example shows sample request JSON:

/file.txt

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### 4.41.6. Retrain DNS Tunnel Detection ML Model

POST /dnsanalytics/retraintunneldetectionmodel

#### Description

Retrains the DNS tunnel detection machine learning model with the DNS whitelisted reputation data on all live DNS appliances. It accepts a file with header as dns.qry.name and values as the whitelisted queries. ML model will perform well if the number of rows are between 5000 to 10000.

Below example shows sample request JSON:

string

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		string	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- text/plain

#### 4.41.7. Update DNS Analytics Rules

POST /dnsanalytics/updaterules

#### Description

Updates DNS Analytics Rules in TIMS database and also send configuration to each live DNS remote.

Below example shows the sample request JSON:

```
{ "queryCountPerDomainThreshold": "20", "queryCountPerHostThreshold": "20", "fqdnLengthThreshold": "20", "subdomainLengthThreshold": "40", "intPercentThre
```

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		<a href="#">DNSAnalyticsRules</a>	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.41.8. Whitelist Domains

POST /dnsanalytics/whitelistdomains

#### Description

Whitelist the given domains.

Below example shows sample request:

domain.com, tcpwave.com, internal.com

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

### 4.42. DNS Appliance Service

#### Description

This service provides API's to get list of DNS Appliances present in the TCPWave IPAM, add DNS Appliances, update DNS Appliances, delete DNS Appliances, download configuration for DNS Appliances, dig a DNS Appliance, search for a DNS Appliance in the TCPWave IPAM.

#### 4.42.1. Add DNS Appliance

POST /dnserver/add

#### Description

Creates DNS Appliance that can be used to service the DNS requests. This remote Appliance is configured, maintained and managed by the IPAM.

**The allowed Appliance types are (1) ISC Bind Authoritative Appliance (2) ISC Bind Cache Appliance (3) NSD Authoritative Appliance (4) Unbound Cache Appliance (5) DNS Proxy Appliance**

Sample payload to add a DNS BIND AUTH Appliance is listed below.

#### Create DNS Appliance

```
{
  "server_type": "BIND",
  "AUTH": "stealthServer":0,"authAsCache":"no","internal_cache_server":1,"dmzVisible":0,"autoDNSDR":null,
  "autoRestoreConf":0,"enableDnsOverTLS":"no", "v4_ipaddress":"42.0.0.11", "name":"TCPWave00007Remote",
  "timeZone":"GMT (GMT)", "dns_server_template_name":"DNS PROXY Default Server Template",
  "dns_options_template_name":"DNS PROXY Default Template", "dns_doh_template_name":"DNS AUTH Default Template", "nsm_template":"test_template_1", "organization_name":"Internal", "snmpConfig":
  {"trapSink1":"42.0.0.11","trapSink2":"42.0.0.12","communityString":"zxcv","systemContact":"","systemName":"TCPWave00007Remote.kiran.com","processes":{"nt
  00/dns-0/ssh-0/monit-0/syslog-ng-0/dhcpd-1"}}, "enableSNMPv3":false,"monitoringService":"yes", "banner":"The default
  value of Banner configuration for DNS and DHCP appliances.", "ldapSSHConfig":{"enable":false},
  "ntpConfig":"42.0.0.11", "resolverData":
  {"ns1":"42.0.0.12","ns2":"","ns3":"","ns4":"","search1":"","search2":"","search3":"","search4":"","search5":"","search6":""}}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	DNS appliance details	<a href="#">Server Information</a>	

#### Responses

HTTP Code	Description	Schema



HTTP Code	Description	Schema
500	TIMS-3009: Object does not exist. TIMS-3030: Both object id and IP Address cannot be null TIMS-3031: Object is not deleted as it is associated with a zone TIMS-3038: Appliance Type is not valid:{0} TIMS-3033: An Appliance already exists with the : {0} TIMS-3034: Both DNS Appliance Template name and id cannot be null TIMS-3035: Specified DNS Appliance Template not found TIMS-3036: Both DNS Options Template name and id cannot be null TIMS-3037: Specified DNS Options Template not found TIMS-3039: Cannot create an Appliance using a DHCP object TIMS-1335: DNS Internal Cache Appliance cannot be created as there is no root zone defined in this organization TIMS-3079: Both DNS Options Template name and id cannot be null TIMS-3080: DNS Options Template does not exist TIMS-10102: Both view id and view name cannot be null TIMS-10103: DNS View does not exist for name	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.42.2. Check Non-Managed Name Servers

```
GET /dnsserver/checkNonManagedNS
```

#### Description

Checks whether Non-Managed Name servers exists with the given IP address in the IPAM.

The example listed below shows a sample request URL:

```
/rest/dnsserver/checkNonManagedNS?ip_address=10.1.10.191&org_name=EARTH
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip_address</b> <i>required</i>	Appliance IP address	string	
Query	<b>org_name</b> <i>required</i>	Organization name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation. TIMS-15006: Both appliance IP and name cannot be null.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.42.3. Virtual IP Address Validation

```
GET /dnsserver/checkVIP
```

#### Description

Validates Virtual IP Address

The example listed below shows a sample request URL:

```
/rest/dnsserver/checkVIP?vip=applianceIpaddress
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgName</b> <i>optional</i>	Appliance Type Code	string	
Query	<b>subnet</b> <i>optional</i>	Appliance Type Code	string	
Query	<b>vip</b> <i>required</i>	Appliance IP Address	string	

#### Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3050: Both Appliance id and address cannot be null.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.42.4. Check DNS Appliance Association with Proxy Root Zone

```
GET /dnserver/check_if_server_is_associated
```

#### Description

Checks if a DNS Appliance is associated with any Proxy Root Zone or not in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/dnserver/check_if_server_is_associated?server_ip=10.0.0.2&org_name=QAOrg&old_server_type=BIND AUTH&new_server_type=BIND CACHE
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>new_server_type</b> <i>optional</i>	New Appliance type	string	
Query	<b>old_server_type</b> <i>required</i>	Old Appliance type	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>server_ip</b> <i>required</i>	Appliance IP Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	boolean
500	TIMS-1020: Both Organization name and id cannot be null TIMS-1352: Organization does not exist TIMS-3020: Both Appliance type and id cannot be null TIMS-3088: Appliance IP Address is null TIMS-8085: Cannot change Appliance type of BIND AUTH as it is used by one or more zones as Master TIMS-8086: Cannot change Appliance type of NSD to {0} as it is used by one or more zones as Slave TIMS-8121: Appliance Type cannot be modified as it is used by proxy root zone.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.42.5. DNS Appliance Delete

```
POST /dnserver/delete
```

#### Description

Deletes an existing DNS Appliance that is used to service the DNS requests. A DNS Appliance cannot be deleted when it is actively servicing any forward zone or a reverse zone.

The example listed below shows a sample request URL:

```
dnserver/delete?address=10.1.10.87
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Appliance details	<a href="#">Appliance Information</a>	

#### Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
500	TIMS-3050: Both Appliance id and address cannot be null TIMS-3052: Appliance is not deleted as other zone(s) are using it. Please remove the referencing zone(s) and retry TIMS-3053: Appliance is not deleted as other zone template(s) are using it. Please remove the referencing zone template(s) and retry TIMS-3055: Appliance is not deleted as other network(s) are using it. Please remove the referencing network(s) and retry TIMS-3092: Appliance does not exist.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.42.6. Appliance Dig

```
GET /dnsserver/digserver
```

#### Description

Performs a basic name resolution for a given resource record using the target DNS Appliance on which the check is to be executed in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/dnsserver/digserver?server_name=TCPWave00002Remote&server_ip=10.0.0.2&server_type=BIND  
CACHE&record_fqdn=&record_type=A
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>record_fqdn</b> <i>required</i>	Record's Fully Qualified Domain Name	string	
Query	<b>record_type</b> <i>required</i>	Record Type	string	
Query	<b>server_ip</b> <i>required</i>	Appliance IP Address	string	
Query	<b>server_name</b> <i>required</i>	Appliance Name	string	
Query	<b>server_type</b> <i>required</i>	Appliance Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-1369: Request timed out from DNS Appliance.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.42.7. DNS Interface Details

```
GET /dnsserver/dns_interfaces_get
```

#### Description

Gets the detail of the DNS interface details.

The example listed below shows a sample request URL:

```
/rest/dnsserver/dns_interfaces_get?server_ip=1.2.3.4&organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>server_ip</b> <i>required</i>	Appliance IP Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">DNS Interfaces</a>

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.42.8. DNS Interfaces Update

POST /dnsserver/dns\_interfaces\_update

#### Description

Updates an existing DNS interface in the TCPWave IPAM. Functional Admin can update a DNS interface for any organization. Rest of the admins can update a DNS interface only for the organizations that they are associated with. Below example shows sample request JSON:

```
{<strong>organizationName</strong>:"QAOrganization",<strong>interfaceName</strong>:"eth0",<strong>listenOnInterfacesNames</strong>:"eth0,eth1",<strong>querySource</strong>:"eth0",<strong>notifySource</strong>:"eth0",<strong>transferSource</strong>:"eth0",<strong>serverIP</strong>:"8.9.0.1"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">DNS Interfaces</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist:<Organization Name>, TIMS-7003: You are not authorized to perform this operation., TIMS-1350: An invalid DNS appliance {0} specified., TIMS-16220: Interface {0} specified for {1} does not exist.	No Content

#### Consumes

- `application/json`
- `application/xml`
- `text/plain`

#### Produces

- `application/json`
- `application/xml`
- `text/plain`

#### 4.42.9. Flush operation on appliance

POST /dnsserver/dnsflush

#### Description

Performs flush operation on the DNS remote appliances. If the appliance is of type UNBOUND, then domain name must be provided.

Below example shows sample request JSON:

#### To perform DNS flush on complete appliance

```
{<strong>organization_name</strong>:"Internal",<strong>server_ip</strong>:"10.1.10.1",<strong>flush_type</strong>:"complete"}
```

To perform DNS flush on UNBOUND appliance

```
{<strong>organization_name</strong>:"Internal",<strong>server_ip</strong>:"10.1.1.10",<strong>domain_name</strong>:"domain.com",<strong>flush_type</strong>:"hostname"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">DNS Appliance Tool</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-15001: Domain/Record should be specified for the DNS flush operation on the appliance: {0} of type: {1}. TIMS-15002: Flush operation cannot be performed on the appliance: {0} of type: {1} as recursion is not enabled. TIMS-15003: Flush operation can be performed only on cache appliance, but the appliance: {0} is of type: {1}. TIMS-15005: Please provide the resource record type of name: {0}. TIMS-15006: Both appliance IP and name cannot be null.	No Content

#### Consumes

- `application/json`

- application/xml

#### Produces

- text/plain

#### 4.42.10. DNS Appliance Edit

POST /dnsserver/edit

#### Description

Edits a DNS appliance that is used to service the DNS requests. This remote appliance is configured, maintained and managed by the IPAM.

Below example shows sample request JSON:

```
{
  "server_type": "BIND AUTH",
  "stealthServer": 0,
  "internal_cache_server": 1,
  "dmzVisible": 0,
  "autoDNSDR": null,
  "autoRestoreConf": 0,
  "dns_server_template_name": "BIND AUTH Default Server Template",
  "dns_options_template_name": "BIND AUTH Default Template",
  "nsm_template": "test_template_1",
  "v4_ipaddress": "10.1.10.190",
  "name": "DEV-DNSROOT-AUTH-004",
  "appliance_group": "",
  "timeZone": "GMT (GMT)",
  "description": "testing QA",
  "organization_name": "Internal",
  "snmpConfig": {
    "trapSink1": "10.1.10.191",
    "trapSink2": "10.1.10.192",
    "communityString": "sph1nkx5",
    "systemContact": "",
    "systemName": "DEV-DNSROOT-AUTH-004.plab.tcpwave.com",
    "processes": "ntpd-1/dns-1/ssh-1/monit-1/syslog-1/dhcpd-1",
    "monitoringService": "yes",
    "banner": "Testing 12345678",
    "tacacsConfig": "'0-@-10.1.10.1/10.1.10.2/10.1.10.3/10.1.10.4|abc123'",
    "ntpConfig": "10.1.10.193/10.1.10.194/10.1.10.195/10.1.10.196",
    "syslogConfig": [
      {
        "action": "/var/log/messages",
        "active": "yes",
        "selector": ".info;mail.none;authpriv.none;cron.none",
        "type": "File"
      },
      {
        "action": "/var/log/secure",
        "active": "yes",
        "selector": "authpriv",
        "type": "File"
      },
      {
        "action": "/var/log/maillog",
        "active": "yes",
        "selector": "mail",
        "type": "File"
      },
      {
        "action": "/var/log/cron",
        "active": "yes",
        "selector": "cron",
        "type": "File"
      },
      {
        "action": "omusrmsg:*",
        "active": "yes",
        "selector": ".emerg",
        "type": "DefaultType"
      },
      {
        "action": "/var/log/spooler",
        "active": "yes",
        "selector": "uucp,news,crit",
        "type": "File"
      },
      {
        "action": "/var/log/boot.log",
        "active": "yes",
        "selector": "local7",
        "type": "File"
      },
      {
        "action": "/var/log/test",
        "active": "yes",
        "selector": "auth,authpriv,debug",
        "type": "File"
      }
    ],
    "mgmtIP": "10.1.10.197",
    "dns64List": [
      {
        "idracSnmpCommunity": "'no-@-@-@'",
        "resolverData": [
          {
            "ns1": "10.1.10.198",
            "ns2": "",
            "ns3": "",
            "ns4": "",
            "search1": "",
            "search2": "",
            "search3": "",
            "search4": "",
            "search5": "",
            "search6": ""
          },
          {
            "old_address": "10.1.10.199",
            "domain_name": "plab.tcpwave.com"
          }
        ]
      }
    ]
  }
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	DNS appliance details	<a href="#">Server Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3030: Both object id and IP Address cannot be null TIMS-3031: Object is not deleted as it is associated with a zone TIMS-3038: Appliance Type is not valid:{0} TIMS-3033: An Appliance already exists with the specified address TIMS-3034: Both DNS Appliance Template name and id cannot be null TIMS-3035: Specified DNS Appliance Template not found TIMS-3036: Both DNS Options Template name and id cannot be null TIMS-3037: Specified DNS Options Template not found TIMS-3039: Cannot create an Appliance using a DHCP object TIMS-10102: Both view id and view name cannot be null TIMS-10103: DNS View does not exist for name TIMS-5033: Appliance Template does not exist TIMS-3050: Both Appliance id and address cannot be null TIMS-3091: Appliance does not exist TIMS-1336: DNS Appliance cannot be changed to Internal DNS Cache Appliance as there is no root zone defined in this organization TIMS-5009: Option Template does not exist TIMS-3079: Both DNS Options Template name and id cannot be null TIMS-3009: Object does not exist.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.42.11. Form a cluster with 2 remote appliances

POST /dnsserver/formCluster

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Remote Cluster details	<a href="#">Remote Cluster Server Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3009: Object does not exist. TIMS-3033: An Appliance already exists with the : {0}	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.42.12. Perform cluster formation sanity check.

POST /dnsserver/formClusterSanity

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Remote Cluster details	<a href="#">Remote Cluster Server Information</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3009: Object does not exist. TIMS-3033: An Appliance already exists with the : {0}	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.42.13. Form a cluster with 2 remote appliances

POST /dnsserver/formImportCluster

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Remote Cluster Info	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3009: Object does not exist. TIMS-3033: An Appliance already exists with the : {0}	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.42.14. Add Forwarders

POST /dnsserver/forwarders/add

#### Description

Adds a new DNS forwarder that is used to resolve DNS zones that are not managed by the TCPWave IPAM. For additional information about the cache only DNS Appliances and the configuration of the forwarders, please refer to the product documentation.

Sample payload with mandatory parameters to add DNS Forwarder is listed below.

```
{["zoneName": "myzone1.com", "forward": "only", "forwardersIPv4": "10.1.0.1", "forwardersIPv6": "2000::", "serverType": "BIND CACHE", "serverV4Addr": "10.1.10.2"]}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of forwarders details	< <a href="#">Appliance Forwarder</a> > array	

## Responses

HTTP Code	Description	Schema
500	TIMS-1425: Both Appliance id and Appliance IP address cannot be null TIMS-1426:DNS Internal Cache Appliance does not exist TIMS-1427: Forward only zone: {0} already exists in the DNS Appliance TIMS-1429: Cannot create a forward only zone: {0} as it is already managed by IPAM.	No Content

## Consumes

- application/json
- application/xml

## Produces

- application/json
- application/xml

### 4.42.15. Delete Forwarders

```
POST /dnsserver/forwarders/delete
```

## Description

Deletes a DNS forwarder that is used to resolve DNS zones that are not managed by the TCPWave IPAM. For additional information about the cache only DNS Appliances and the configuration of the forwarders, please refer to the product documentation.

The example listed below shows a sample request URL:

```
/rest/dnsforwarders/forwarders/delete?category_name=dnsforwarder
```

## Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of forwarders details	< <a href="#">Appliance Forwarder</a> > array	

## Responses

HTTP Code	Description	Schema
500	TIMS-1425: Both Appliance id and Appliance IP address cannot be null TIMS-1426:DNS Internal Cache Appliance does not exist.	No Content

## Consumes

- application/json
- application/xml

## Produces

- application/json
- application/xml

### 4.42.16. Forwarders List

```
GET /dnsserver/forwarders/list
```

## Description

Obtains a list of forwarding DNS Appliance addresses defined in the cache only DNS Appliance properties. For additional information about the cache only DNS Appliances and the configuration of the forwarders, please refer to the product documentation.

The example listed below shows a sample request URL:

```
/rest/dnsserver/forwarders/list?address=10.0.0.8
```

## Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>id</b> <i>optional</i>	Appliance Id	integer(int32)	

## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Appliance Forwarder</a> > array
500	TIMS-1425: Both Appliance id and Appliance IP address cannot be null TIMS-1426: DNS Internal Cache Appliance does not exist.	No Content

## Consumes

- text/plain

## Produces

- application/json

- application/xml

#### 4.42.17. Update Forwarders

POST /dnsserver/forwarders/update

##### Description

Updates the DNS forwarder that is used to resolve DNS zones that are not managed by the TCPWave IPAM. For additional information about the cache only DNS Appliances and the configuration of the forwarders, please refer to the product documentation.

Below example shows sample request JSON:

```
{
  "name": "dnsforwarder",
  "addedForwarders": [
    {
      "zoneName": "zone.com",
      "forward": "only",
      "forwardersIPv4": "10.0.0.3",
      "forwardersIPv6": "1000::",
      "isPresent": true
    }
  ],
  "deletedForwarders": [
    {
      "zoneName": "zone.com",
      "forward": "only",
      "forwardersIPv4": "10.0.0.0",
      "forwardersIPv6": "1000::",
      "isPresent": true
    }
  ]
}
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of forwarders details	< <a href="#">Appliance Forwarder</a> > array	

##### Responses

HTTP Code	Description	Schema
500	TIMS-1425: Both Appliance id and Appliance IP address cannot be null TIMS-1426: DNS Internal Cache Appliance does not exist TIMS-1428: Forward only zone: {given forwarders} does not exist.	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml

#### 4.42.18. Generate Configuration

GET /dnsserver/genconfig

##### Description

From the data repository, a list of configuration files is generated and various data integrity checks are done. The files are securely transferred to the remote. Compression is used during the final transfer. On the remote, the compressed configuration files expanded and put into appropriate places and the service is refreshed or restarted depending on the global option defined for file synchronization.

The example listed below shows a sample request URL:

```
/rest/dnsserver/genconfig?server_type_code=BIND AUTH&address=10.0.0.2&organization_name=orgNameValue
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>force_sync</b> <i>optional</i>	Force Sync Appliance	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>server_type_code</b> <i>required</i>	DNS Appliance Type	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-1349: DNS Configuration sync failed with error TIMS-9212: A sync is currently in progress initiated by {0} from {1}. Please wait until it is completed TIMS-9213: A download config is currently in progress initiated by {0} from {1}. Please wait until it is completed.	No Content

##### Consumes

- application/json
- application/xml
- text/plain

##### Produces

- application/json
- application/xml



- text/plain

#### 4.42.19. DNS Appliance Details

```
GET /dnsserver/get
```

##### Description

Get DNS Appliance Detail. Functional Admin gets the list of all Appliances. Rest of the Admins get only the list of Appliances associated with the organization that they belong to. Functional Admin gets the list of all Appliances. Rest of the Admins get only the list of Appliances associated with the organization that they belong to.

The example listed below shows a sample request URL:

```
/rest/dnsserver/get?serverTypeCode=BIND AUTH&serverIp=10.0.0.8
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>serverIp</b> <i>required</i>	Appliance IP Address	string	
Query	<b>serverTypeCode</b> <i>optional</i>	Appliance Type Code	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Server Information</a>
500	TIMS-3050: Both Appliance id and address cannot be null.	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.42.20. Dnstap Logs

```
GET /dnsserver/getDnstapLogs
```

##### Description

Obtains a list of dnstap logs in the IPAM.

The example listed below shows a sample request URL:

```
/rest/dnsserver/getDnstapLogs?ip=10.1.10.191&type=BIND CACHE
```

##### Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>	Session token for authorization	string	
Query	<b>ip</b> <i>optional</i>	Appliance IP Address	string	
Query	<b>name</b> <i>optional</i>	Appliance name	string	
Query	<b>type</b> <i>optional</i>	Appliance type	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DnstapLogs</a> > array
500	TIMS-7003: You are not authorized to perform this operation. TIMS-15006: Both appliance IP and name cannot be null.	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.42.21. Get Pending External DDNS Updates Count

```
GET /dnsserver/getPendingExternalUpdatesCount
```

##### Description

Gets the pending external DDNS updates count on the given TCPWave DNS appliance.

The example listed below shows a sample request URL:

```
/rest/dnsserver/getPendingExternalUpdatesCount?ip_address=10.1.10.191
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip_address</b> <i>required</i>	Appliance IP address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	integer(int32)
500	TIMS-7003: You are not authorized to perform this operation. TIMS-15006: Both appliance IP and name cannot be null.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.42.22. Appliance Heartbeat Check

```
GET /dnsserver/heartbeat
```

#### Description

Checks the heartbeat for the specified Appliance. Performs a check if the remote DNS Appliance is having a heartbeat communication with the management Appliance.

The example listed below shows a sample request URL:

```
/rest/dnsserver/heartbeat?server_ip=10.0.0.8&server_type=dnsServer
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>server_ip</b> <i>required</i>	Appliance IP Address	string	
Query	<b>server_type</b> <i>required</i>	Appliance Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3088: Appliance IP address is null TIMS-8230: Appliance type is null.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.42.23. DNS Cache Appliance List

```
GET /dnsserver/internal_cache_list
```

#### Description

Obtains a list of all the DNS Cache and DNS Auth (recursion enabled only) Appliances defined in the TCPWave IPAM for a given Organization.

The example listed below shows a sample request URL:

```
/rest/dnsserver/internal_cache_list?orgName=orgNameValue
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgName</b> <i>required</i>	Organization name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Server Information</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.42.24. DNS Appliance List

GET /dnsserver/list

##### Description

Obtains a list of all the DNS Appliances defined in the TCPWave IPAM. Functional Admin gets the list of all Appliances. Rest of the Admins get only the list of Appliances associated with the organization that they belong to. The example listed below shows a sample request URL:  
rest/dnsserver/list?organizations=orgNameValue

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization List	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Server Information</a> > array

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.42.25. DNS Appliance List

GET /dnsserver/page

##### Description

Obtains a list of all the DNS Appliances defined in the TCPWave IPAM. Functional Admin gets the list of all Appliances. Rest of the Admins get only the list of Appliances associated with the organization that they belong to. The example listed below shows a sample request URL:  
/rest/dnsserver/page/?draw=1&start=0&length=20&sort=name&order=asc&filterRules=[]

##### Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>	Session token for authorization	string	
Query	<b>customFilterRules</b> <i>optional</i>	Custom Filter String	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization Names	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting DNS Appliance Range	integer(int32)	

##### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">Server Information</a>

##### Consumes

- text/plain

##### Produces

- application/json

- application/xml

#### 4.42.26. DNS Configuration Update

GET /dnsserver/reconfig

##### Description

Updates the DNS configuration on the specified remote.

The example listed below shows a sample request URL:

/rest/dnsserver/reconfig?server\_type\_code=BIND AUTH&address=10.0.0.2&organization\_name=orgNameValue

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>server_type_code</b> <i>required</i>	DNS Appliance Type	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-1349: DNS Configuration sync failed with error TIMS-9212: A sync is currently in progress initiated by {0} from {1}. Please wait until it is completed TIMS-9215: A DNS config update is currently in progress initiated by {0} from {1}. Please wait until it is completed. TIMS-9213: A download config is currently in progress initiated by {0} from {1}. Please wait until it is completed.	No Content

##### Consumes

- application/json
- application/xml
- text/plain

##### Produces

- application/json
- application/xml
- text/plain

#### 4.42.27. Reset remote cluster

POST /dnsserver/resetCluster

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Remote Cluster IP	string	

##### Responses

HTTP Code	Description	Schema
500	TIMS-3009: Object does not exist.	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml

#### 4.42.28. Appliance Configuration

GET /dnsserver/server-configuration/{server\_address}/{server\_type}

##### Description

Lists the configuration type and configuration data for an specified appliance in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/dnsserver/server-configuration/10.0.0.3/BIND AUTH/BIND CACHE/UNBOUND/NSD/DNS PROXY

##### Parameters

Type	Name	Description	Schema	Default

Type	Name	Description	Schema	Default
Path	<b>server_address</b> <i>required</i>	Appliance IP Address	string	
Path	<b>server_type</b> <i>required</i>	Appliance Type Code	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Server Information</a>
500	TIMS-3038: Appliance Type is not valid:<Appliance Type Code>	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.42.29. Appliance References in Zone Template

```
GET /dnsserver/server-references
```

#### Description

Obtains the list of all the zone templates which are associated with the specified DNS Appliance. For additional information about the DNS zone templates, please refer to the product documentation.

The example listed below shows a sample request URL:

```
/rest/dnsserver/server-references?address=10.0.0.8
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>id</b> <i>optional</i>	Appliance Id	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3050: Both Appliance id and address cannot be null.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.42.30. Appliance Command

```
GET /dnsserver/subsys
```

#### Description

Executes a remote DNS Appliance process controlling command that is audited and can only be invoked by the management system.

The example listed below shows a sample request URL:

```
/rest/dnsserver/subsys?server_name=TCPWave00001Remote&server_ip=10.0.0.8&level=&argc=12&argv=
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>argc</b> <i>required</i>	argc	integer(int32)	
Query	<b>argv</b> <i>required</i>	argv	string	
Query	<b>level</b> <i>required</i>	Level Number	integer(int32)	
Query	<b>server_ip</b> <i>required</i>	Appliance IP Address	string	
Query	<b>server_name</b> <i>required</i>	Appliance Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-1369: Request timed out from DNS Appliance.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.42.31. Synchronize DNS Appliances

POST /dnsserver /syncAll

#### Description

From the data repository a list of configuration files are generated and various data integrity checks are done. The files are securely transferred to the remote. Compression is used during the final transfer. On the remote, the compressed configuration files expanded and put into appropriate places and the service is refreshed or restarted depending on the global option defined for file synchronization.

Below example shows sample request JSON:

```
[{"name":"DEV-CDNS-EXT-001","organization_name":"Internal","v4_address":"10.1.10.183","server_type":"BIND AUTH"}, {"name":"DEV-CDNS-INT-001","organization_name":"Internal","v4_address":"10.1.10.185","server_type":"BIND CACHE"}, {"name":"DEV-CDNS-INT-EXTFW-002","organization_name":"Internal","v4_address":"10.1.10.186","server_type":"BIND CACHE"}, {"name":"DEV-CDNS-XDHCP-001","organization_name":"Internal","v4_address":"10.1.10.191","server_type":"BIND AUTH"}, {"name":"DEV-DNS-PROXY-001","organization_name":"Internal","v4_address":"10.1.10.182","server_type":"DNS PROXY"}, {"name":"nusgtcd-qr01-sl0984","organization_name":"Internal","v4_address":"10.171.98.71","server_type":"BIND AUTH"}, {"name":"nusruth-qr01-sl0984","organization_name":"EARTH","v4_address":"10.193.1.50","server_type":"BIND AUTH"}, {"name":"nusswdc-cxsqr01-sl0984","organization_name":"Internal","v4_address":"10.189.0.3","server_type":"BIND AUTH"}]
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>fasterSync</b> <i>optional</i>		boolean	
Body	<b>body</b> <i>optional</i>		< <a href="#">Server Basic Information</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1349: DNS Configuration sync failed with error	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.42.32. Form a cluster with 2 remote appliances

POST /dnsserver /updateCluster

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Remote Cluster details	<a href="#">Remote Cluster Server Information</a>	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json

- application/xml

#### 4.42.33. View Configuration of DNS Appliance

```
GET /dnsserver/viewconfig
```

##### Description

View the configuration file for the specified DNS Appliance in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/dnsserver/viewconfig?server_type_code=BIND AUTH&address=10.0.0.2&organizationName=orgNameValue
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>organizationName</b> <i>required</i>	Appliance Organization name	string	
Query	<b>server_type_code</b> <i>required</i>	DNS Appliance Type	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-1349: DNS Configuration sync failed with error	No Content

##### Consumes

- application/json
- application/xml
- text/plain

##### Produces

- application/json
- application/xml
- text/plain

#### 4.42.34. DNS Appliance Zone List

```
GET /dnsserver/zonelist
```

##### Description

Obtains a list of DNS zones that are actively being serviced on a given DNS Appliance. This list includes forward zones and reverse zones.

The example listed below shows a sample request URL:

```
/rest/dnsserver/zonelist?name=TCPWave00005Remote&revZone=0/1
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>allZones</b> <i>optional</i>	Both forward and reverse zones	boolean	
Query	<b>id</b> <i>optional</i>	Appliance Id	integer(int32)	
Query	<b>name</b> <i>required</i>	Appliance Name	string	
Query	<b>revZone</b> <i>optional</i>	If Reverse Zone	integer(int32)	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">ServerZone</a> > array
500	TIMS-3090: Both Appliance id and name cannot be null, TIMS-3092: Appliance does not exist.	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.43. DNS Appliance Template Service

##### Description

This service provides API's to get list of DNS Appliance Templates present in the TCPWave IPAM, add DNS Appliance

Templates, update DNS Appliance Templates, delete DNS Appliance Templates, search for a DNS Appliance Template in the TCPWave IPAM.

#### 4.43.1. DNS Appliance Template Add

```
POST /dnsserver_template/add
```

##### Description

Creates a new DNS appliance template by checking if it overlaps with the existing DNS appliance template defined in the TCPWave IPAM. Functional Admin can create a new Appliance Template for any organization. Rest of the admins can create a new appliance template only for the organizations that they are associated with. Refer to the Administrator reference documentation for additional information about the DNS appliance template.

Below example shows sample request JSON:

```
{ "server_type_code": "BIND AUTH", "name": "temp-11", "email_id": "{ "category":  
{ "category": "client", "description": "Processing["admin@gmail.com", "enable_dynamic_updates": true, "description": "test", "algos":  
[ { "code": "HMAC-SHA1", "bitSize": "8", "dnssec": false, "mandatory": false, "min": 1, "max": 160 }, "loggers": [ { "category":  
{ "category": "client", "description": "Processing" of client requests. } ], "channels":  
[ { "channel": "default_syslog", "type": 1, "type_string": "SYSLOG", "versions": 0, "size": 0, "severity": 0, "print_time": false, "print_severity": false, "print_category": false, "spe
```

##### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		<a href="#">DNS Appliance Template</a>	

##### Responses

HTTP Code	Description	Schema
500	TIMS-3026: A template with the specified name already exists, TIMS-3020: Both Appliance type and id cannot be null, TIMS-5029: Template name is not specified, TIMS-3038: Appliance Type is not valid: <Appliance type code>, TIMS-2003: ACLs are not valid, TIMS-2010: Algorithm is not valid: <Algorithm Code>, TIMS-3022: Bit size should be between <Min Algo code> and <Max Algo code> for algorithm <Algorithm code>, TIMS-3023: Logger is not valid.	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml

#### 4.43.2. DNS Appliance Template Edit

```
POST /dnsserver_template/edit
```

##### Description

Updates an existing appliance template in the TCPWave IPAM. Functional Admin can update an appliance template for any organization. Rest of the admins can update an appliance template only for the organizations that they are associated with.

Below example shows sample request JSON:

```
{ "server_type_code": "BIND CACHE", "name": "temp-  
1", "email_id": "admin@gmail.com", "enable_dynamic_updates": false, "description": "testing", "new_name": "temp-  
1133", "algos": [ ], "loggers": [ { "category": "database", "description": "Messages" relating to the databases used  
internally by the name server to store zone and cache data. } ], "channels":  
[ { "channel": "default_debug", "type": 0, "type_string": "FILE", "versions": 0, "size": 0, "severity": 0, "print_time": false, "print_severity": false, "print_category": false, "specia
```

##### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		<a href="#">DNS Appliance Template</a>	

##### Responses

HTTP Code	Description	Schema
500	TIMS-5020: Template does not exist:<Template Name>, TIMS-5031: Both template name and id cannot be null, TIMS-5028: Template does not exist, TIMS-3020: Both Appliance type and id cannot be null, TIMS-3026: A template with the specified name already exists, TIMS-3038: Appliance Type is not valid: <Appliance Type Code>, TIMS-2003: ACLs are not valid, TIMS-2010: Algorithm is not valid: <Algorithm Code>, TIMS-3022: Bit size should be between <Min Algo code> and <Max Algo code> for algorithm <Algorithm code>, TIMS-3023: Logger is not valid.	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml



#### 4.43.3. DNS Appliance Template Details

```
GET /dnsserver_template/get
```

##### Description

Lists all the Appliance Templates associated with an organization in the TCPWave IPAM. Functional Admin can list the Appliance Templates for any organization. Rest of the admins can list the Appliance Templates only for the organizations that they are associated with.

The example listed below shows a sample request URL:

```
/rest/dnsserver_template/get?name=NSD Default Server Template
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>id</b> <i>optional</i>	Template Id	integer(int32)	
Query	<b>name</b> <i>required</i>	Template Name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">DNS Appliance Template</a>
500	TIMS-5020: Template does not exist:<Template Name>, TIMS-5031: Both template name and id cannot be null.	No Content

##### Consumes

- application/json
- application/xml
- text/plain

##### Produces

- application/json
- application/xml

#### 4.43.4. DNS Appliance Template List

```
GET /dnsserver_template/list
```

##### Description

Lists all the Appliance templates defined in the TCPWave IPAM. These are used to create a DNS Appliance in the TCPWave IPAM. Functional Admin gets the list of all Appliance templates. Rest of the Admins get only the list of Appliance templates associated with the organization that they belong to.

The example listed below shows a sample request URL:

```
/tims/rest/dnsserver_template/list/server_type_code=serverTypeCodeValue
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>server_type_code</b> <i>required</i>	Appliance Type Code	string	
Query	<b>server_type_id</b> <i>optional</i>	Appliance Type Id	integer(int32)	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DNS Appliance Template</a> > array
500	TIMS-3038: Appliance Type is not valid: <Appliance Type Code>	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.43.5. Appliance Template References

```
GET /dnsserver_template/references
```

##### Description

Obtains a list of DNS Appliances that have references to the DNS Appliance Templates for which DNS Appliances associations have been defined.

The example listed below shows a sample request URL:

```
/rest/dnsserver_template/references?tables=tableName
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>count</b> <i>optional</i>	Count Flag	string	
Query	<b>id</b> <i>optional</i>	Appliance Id	string	
Query	<b>page</b> <i>optional</i>	Page Number	integer(int32)	
Query	<b>rows</b> <i>optional</i>	Number of Rows	integer(int32)	
Query	<b>tables</b> <i>required</i>	Tables	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Reference Results</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.43.6. Appliance Template Search

```
GET /dnsserver_template/search
```

#### Description

Provides the list of searched Appliance Templates on search screen in the TCPWave IPAM. Functional Admin gets the list of searched Appliance Templates for any organization. Rest of the Admins gets only the list of searched Appliance Templates associated with the organization that they belong to.

The example listed below shows a sample request URL:

```
/rest/dnsserver_template/search?page=1&rows=20
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>page</b> <i>optional</i>	Page Number	integer(int32)	
Query	<b>rows</b> <i>optional</i>	Number of Rows	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListDNS Appliance Template</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.44. DNS Defaults Service

#### Description

This service provides API's to get and update DNS defaults in the TCPWave IPAM.

#### 4.44.1. Get Global DNS Elevated Privileges

```
GET /DNSDefaults/get
```

#### Description

Provides the details of Global DNS Elevated Privileges

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">DNSApplianceDefaults</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.44.2. Get Global DNS Syslog-ng Configuration

```
GET /DNSDefaults/getSyslogngConfig
```

#### Description

Provides the details of Global DNS Syslog-ng Configuration

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">DNSApplianceDefaults</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.44.3. Get Global DNS TACACS+ Configuration

```
GET /DNSDefaults/getTacacsConfig
```

#### Description

Provides the details of Global DNS TACACS+ Configuration

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">DNSApplianceDefaults</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.45. DNS External Root Hints Service

#### Description

This service provides API's to get list of DNS External Root Hints present in the TCPWave IPAM, add DNS External Root Hints , update DNS External Root Hints, delete DNS External Root Hints, search for a DNS External Root Hints in the TCPWave IPAM.

#### 4.45.1. Add DNS External Root Hint

```
POST /externalRootHints/add
```

#### Description

Adds a new DNS External Root Hint to appliance template that is used to resolve DNS zones that are not managed by the TCPWave IPAM. For additional information about the DNS External Root Hints, please refer to the product documentation.

Below example shows sample request JSON:

```
{ "ns_fqdn": "ns1.tcpwave.com.", "ns_ipv4Address": "10.1.10.10", "ttl": 1200, "appliance_template_id": 3, "appliance_template_name": "ApplianceTemplate1" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		<a href="#">DNS External Root Hints</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1547: DNS External Root Hint: {0} with IP: {1} already exists in the specified DNS appliance template.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.45.2. DNS External Root Hints List

```
GET /externalRootHints/getExternalRootHints
```

#### Description

Obtains a list of DNS External Root Hints defined in the given appliance template.

The example listed below shows a sample request URL:

```
rest/externalRootHints/getExternalRootHints?appliance_template_name=ApplianceTemplate1
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>appliance_template_id</b> <i>optional</i>	Appliance Template Id	integer(int32)	
Query	<b>appliance_template_name</b> <i>required</i>	Appliance Template Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DNS External Root Hints</a> > array
500	TIMS-5031: Both template name and id cannot be null, TIMS-5020: Template does not exist: {0}	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.45.3. Delete External Root Hints

```
POST /externalRootHints/multiDelete
```

#### Description

Deletes a DNS External Root Hints that are used to resolve DNS zones that are not managed by the TCPWave IPAM. For additional information about the cache only DNS External Root Hints, please refer to the product documentation.

Below example shows sample request JSON:

```
[{"ns_fqdn":"ns1.tcpwave.com.,"ns_ipv4Address":"10.1.10.10","ttl":1200,"appliance_template_id":3,"appliance_template_name":"ApplianceTemplate1"}, {"ns_fqdn":"ns2.tcpwave.com.,"ns_ipv4Address":"10.1.10.20","ttl":1200,"appliance_template_id":3,"appliance_template_name":"ApplianceTemplate1"}]
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">DNS External Root Hints</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-5031: Both template name and id cannot be null, TIMS-5020: Template does not exist: {0}, TIMS-1548: DNS External Root Hint: {0} with IP: {1} does not exist in the specified DNS appliance template.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.45.4. Sync DNS Internal Caches with DNS External Root Hints

```
GET /externalRootHints/syncAppliances
```

#### Description

Does the full sync on all the internal cache appliances with external root hints.

The example listed below shows a sample request URL:

```
rest/externalRootHints/syncAppliances?appliance_template_name=ApplianceTemplate1
```

#### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Query	<b>appliance_template_id</b> <i>optional</i>	Appliance Template Id	integer(int32)	
Query	<b>appliance_template_name</b> <i>required</i>	Appliance Template Name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-5031: Both template name and id cannot be null, TIMS-5020: Template does not exist: {0}	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.45.5. Update DNS External Root Hint

POST /externalRootHints/update

#### Description

Updates the existing DNS External Root Hint that is used to resolve DNS zones that are not managed by the TCPWave IPAM. For additional information about the DNS External Root Hints, please refer to the product documentation.

Below example shows sample request JSON:

```
{ "ns_fqdn": "ns1.tcpwave.com.", "ns_ipv4Address": "10.1.10.10", "ttl": 1200, "appliance_template_id": 3, "appliance_template_name": "ApplianceTemplate1" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">DNS External Root Hints</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1548: DNS External Root Hint: {0} with IP: {1} does not exist in the specified DNS appliance template.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.46. DNS Forwarders Service

#### Description

This service provides API's to get list of DNS Forwarders present in the TCPWave IPAM.

#### 4.46.1. Add Forwarders

POST /forwarders/dnsforwarders/add

#### Description

Adds a new DNS forwarder that is used to resolve DNS zones that are not managed by the TCPWave IPAM. For additional information about the cache only DNS Appliances and the configuration of the forwarders, please refer to the product documentation.

Below example shows sample request JSON:

```
{ "zoneName": "myzone1.com", "forward": "only", "forwardersIPv4": "10.11.0.1", "forwardersIPv6": "2000::", "description": "testing qa", "serverType": "BIND CACHE", "serverV4Addr": "10.11.0.2" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">DNSForwardersList</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1427: Forward only zone: <Zone Name> already exists in the DNS Appliance, TIMS-1429: Cannot create a forward only zone: <Zone Name> as it is already managed by IPAM.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.46.2. Forwarders List

```
GET /forwarders/dnsforwarders/associateForwarders
```

#### Description

Obtains a list of Servers associated for the DNS Forwarder, please refer to the product documentation.

The example listed below shows a sample request URL:

```
/rest/forwarders/dnsforwarders/associateForwarders?category_Id=1
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>category_Id</b> <i>optional</i>		integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">AssociativeServersForForwarders</a> > array
500	TIMS-1425: Both Appliance id and Appliance IP address cannot be null, TIMS-1426: DNS Internal Cache Appliance does not exist.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.46.3. Delete Forwarders Category

```
GET /forwarders/dnsforwarders/delete
```

#### Description

Deletes a DNS forwarder that is used to resolve DNS zones that are not managed by the TCPWave IPAM. For additional information about the cache only DNS Appliances and the configuration of the forwarders, please refer to the product documentation.

Below example shows sample request JSON:

```
"/rest/forwarders/dnsforwarders/delete?category_name=categoryNameValue[{"category_name":"google","testing qa"}]
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>category_Id</b> <i>optional</i>		integer(int32)	
Query	<b>category_name</b> <i>required</i>	Forwarder category name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1425: Both Appliance id and Appliance IP address cannot be null, TIMS-1426:DNS Internal Cache Appliance does not exist.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.46.4. Forwarders List

```
GET /forwarders/dnsforwarders/list
```

#### Description

Obtains a list of forwarding DNS Appliance addresses defined in the cache only DNS Appliance properties. For additional information about the cache only DNS Appliances and the configuration of the forwarders, please refer to the product documentation.

The example listed below shows a sample request URL:

/rest/forwarders/dnsforwarders/list?category\_Id=1

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>category_Id</b> <i>optional</i>	Forwarder category id	integer(int32)	
Query	<b>category_name</b> <i>required</i>	Forwarder category name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">DNSForwardersList</a>
500	TIMS-1425: Both Appliance id and Appliance IP address cannot be null, TIMS-1426: DNS Internal Cache Appliance does not exist.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.46.5. Forwarders List

```
GET /forwarders/dnsforwarders/majorlist
```

#### Description

Obtains a list of forwarding DNS Appliance addresses defined in the cache only DNS Appliance properties. For additional information about the cache only DNS Appliances and the configuration of the forwarders, please refer to the product documentation.

The example listed below shows a sample request URL:

rest/forwarders/dnsforwarders/majorlist

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">ForwardersCategory</a> > array
500	TIMS-1425: Both Appliance id and Appliance IP address cannot be null, TIMS-1426: DNS Internal Cache Appliance does not exist.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.46.6. DNS Forwarders Search

```
GET /forwarders/dnsforwarders/search
```

#### Description

Searches for a given DNS Forwarders in the TCPWave IPAM with giving input string.

The example listed below shows a sample request URL:

/rest/forwarders/dnsforwarders/search?start=1&length=20

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Template Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListForwardersCategory</a>

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.46.7. Update Forwarders

POST /forwarders/dnsforwarders/update

#### Description

Updates the existing DNS forwarder that is used to resolve DNS zones that are not managed by the TCPWave IPAM. For additional information about the cache only DNS Appliances and the configuration of the forwarders, please refer to the product documentation.

Below example shows sample request JSON:

/rest/forwarders/dnsforwarders/update?category\_Id=1

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>category_Id</b> <i>optional</i>	Forwarder category id	integer(int32)	
Query	<b>category_name</b> <i>required</i>	Forwarder category name	string	
Body	<b>body</b> <i>optional</i>		<a href="#">DNSForwardersList</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1427: Forward only zone: <Zone Name> already exists in the DNS Appliance, TIMS-1429: Cannot create a forward only zone: <Zone Name> as it is already managed by IPAM.	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

### 4.47. DNS TSIG (Transaction Signatures) Keys Service

#### 4.47.1. TSIG Key Create

POST /tsigkeys/create

#### Description

Creates a new TSIG Key in the TCPWave IPAM. This list is used to control the behavior of DNS when applied to the Allow-Notify, Allow-Transfer etc.

Sample payload with mandatory parameters to add a TSIG Key is listed below.

```
{"name":"key1", "algoName":"HMAC-SHA512",
```

```
"secretKey":"wTrdaq6SHatfVkfYQ7sQ33dD/xVDURiF6eSBmBufGmrcr9arTy6RfMatCpI481hLaebqgq4mrzUKMF55B1gv/Q=="}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	TSIG Key details	<a href="#">DNS TSIG (Transaction Signatures) Keys</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-2117: TSIG key name cannot be null., TIMS-2118: TSIG key algorithm cannot be null., TIMS-2119: TSIG key name already exists: <keyname>., TIMS-2120: TSIG key algorithm does not exist: <algo name>.	No Content

#### Consumes

- `application/json`
- `application/xml`

#### 4.47.2. TSIG Key Details

GET /tsigkeys/get



### Description

Provides the values of TSIG Key in the TCPWave IPAM which are used to control the behavior of DNS when applied to the Allow-Notify, Allow-Transfer etc.

The example listed below shows a sample request URL:

/rest/tsigkeys/get?name=key1

### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	TSIG Key Name	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">DNS TSIG (Transaction Signatures) Keys</a>
500	TIMS-2123: TSIG key(s) not found, TIMS-2121: TSIG key name does not exist: <keyname>.	No Content

### Produces

- application/json
- application/xml

#### 4.47.3. TSIG Key References

```
GET /tsigkeys/getreferences
```

### Description

Provides the list references of TSIG Keys in DNS ACLs in the TCPWave IPAM which use specified TSIG Key

The example listed below shows a sample request URL:

/tims/rest/tsigkeys/getreferences?name=key1

### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	TSIG Key Name	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	< string, < string > array > map
500	TIMS-2126: TSIG Key Reference(s) not found.	No Content

### Produces

- application/json
- application/xml

#### 4.47.4. TSIG Keys List

```
GET /tsigkeys/list
```

### Description

Obtains the list of TSIG Keys defined and managed by the TCPWave IPAM which are used to control the behavior of DNS when applied to the Allow-Notify, Allow-Transfer etc.

The example listed below shows a sample request URL:

/rest/tsigkeys/list

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DNS TSIG (Transaction Signatures) Keys</a> > array
500	TIMS-2123: TSIG key(s) not found	No Content

### Produces

- application/json
- application/xml

#### 4.47.5. TSIG Key Delete Multiple

```
POST /tsigkeys/multidelete
```

### Description

Deletes multiple existing TSIG keys from the TCPWave IPAM data repository. This action is audited.  
 Below example shows sample request JSON: ["key1", "key2"]

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of TSIG key names	< string > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-2122: TSIG keys cannot be deleted as some of the specified keys does not exist in IPAM., TIMS-2125: TSIG Key(s) cannot be delete as there are one or more DNS ACLs are associated with this.	No Content

#### Consumes

- application/json
- application/xml

#### 4.47.6. TSIG Keys Search

```
GET /tsigkeys/search
```

#### Description

Searches for TSIG Keys in the TCPWave IPAM with given input string.  
 The example listed below shows a sample request URL:  
 /rest/tsigkeys/search&start=1&length=20

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Template Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListDNS TSIG (Transaction Signatures) Keys</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.47.7. TSIG Key Edit

```
POST /tsigkeys/update
```

#### Description

Updates an existing TSIG Key in the TCPWave IPAM.  
 Below example shows sample request JSON:  
 {"name":"key1", "newName":"key2", "algoName":"HMAC-SHA512",  
 "secretKey":"wTrdaq6SHatfVkfYQ7sQ33dD/xVDURiF6eSBmBufGrmc9arTy6RfMatCpI481hLaebqgq4mrzUKMF55B1gv/Q=="}

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	TSIG Key details	<a href="#">DNS TSIG (Transaction Signatures) Keys</a>	

#### Responses

HTTP Code	Description	Schema
-----------	-------------	--------

HTTP Code	Description	Schema
500	TIMS-2117: TSIG key name cannot be null., TIMS-2118: TSIG key algorithm cannot be null. TIMS-2120: TSIG key algorithm does not exist: <algo name>., TIMS-2121: TSIG key name does not exist: <keyname>.	No Content

#### Consumes

- application/json
- application/xml

### 4.48. DNS Tools Service

#### Description

This service provides API's to perform a basic name resolution for a given resource record upon the targeted DNS Server present in the TCPWave IPAM, to synchronize the DNS Server data for a given Server by fetching all the configuration specified from the TCPWave data repository.

#### 4.48.1. Resource Record Converge

POST /dnstools/converge

#### Description

Resource record look up in remote DNS Appliance. Performs a basic name resolution for a given resource record using the target DNS Appliance on which the check is to be executed in the TCPWave IPAM. Below example shows the sample request JSON:

```
{
  "rr_name": "record",
  "domain_name": "domain.com",
  "rr_type": "A",
  "organization_name": "Org"
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	DNS tool details	<a href="#">DNS Appliance Tool</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DNS Appliance Tool</a> > array
500	TIMS-1020: Both Organization name and id cannot be null TIMS-1352: Organization does not exist:{0} TIMS-1422: TIMS-1422: Zone does not exist:{0} TIMS-12062: Given IP address is not found in the network range for the selected reverse zone.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.48.2. IDN Converter

POST /dnstools/idnconverter

#### Description

Converts either from IDN to Punycode or from Punycode to IDN. Below example shows the sample request:

```
{
  "toIDN": true,
  "name": "domain.com"
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	IDN details	<a href="#">Idn</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- application/json

- application/xml

#### Produces

- text/plain

#### 4.48.3. Resource Record Sync

POST /dnstools/sync

#### Description

Synchronize the Resource Record of IPAM with DNS Appliance. Synchronizes the DNS Appliance data for a given Appliance by fetching all the configuration specified from the TCPWave data repository. The DNS Appliance files are constructed as per the TCPWave Product Engineering's specifications with various integrity checks embedded into them. The files are then compressed and transmitted to the remote using an encrypted T-Message secure tunnel. The compressed files are uncompressed on the remote and the DNS process on the remote is signaled to read the updated contents. The administrator performing this action is required to have a sync permission. This action is audited.

The example listed below shows a sample request URL:

/rest/dnstools/sync?

serverip=1.0.0.2&servertype=serverTypeValue&recordname=abc&recordtype=A&domainname=xyz.com

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>domainname</b> <i>required</i>	Domain Name	string	
Query	<b>recordname</b> <i>required</i>	Record Name	string	
Query	<b>recordtype</b> <i>required</i>	Record Type	string	
Query	<b>serverip</b> <i>required</i>	Appliance IP Address	string	
Query	<b>servertype</b> <i>required</i>	Appliance Type Code	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-1455: Given domain is not a valid domain name. Please give a valid domain name TIMS-1456: Invalid record type specified TIMS-3204: Invalid resource record specified TIMS-3050: Both Appliance id and address cannot be null TIMS-3088: Appliance IP address is null TIMS-8230: Appliance type is null TIMS-3050: Both Appliance id and address cannot be null	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.48.4. Resource Record Traverse

POST /dnstools/traverseRR

#### Description

Resource record look up in remote DNS Server. Performs a basic name resolution for a given resource record using the target DNS server on which the check is to be executed in the TCPWave IPAM.

Below example shows the sample request:

```
{ "rr_name": "aaaaa.m.", "domain_name": "aaaaa.m.", "organization_name": "TcPWave", "rr_type": "A", "dnssec_enabled": false, "isProxy": 0 }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	DNS tool details	<a href="#">DNS Appliance Tool</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DNS Appliance Tool</a> > array
500	TIMS-1020: Both Organization name and id cannot be null TIMS-1352: Organization does not exist:{0}, TIMS-1422: TIMS-1422: Zone does not exist:{0}	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.48.5. Resource Record Traverse

```
POST /dnstools/traverseV6RR
```

#### Description

Resource record look up in remote DNS Server. Performs a basic name resolution for a given resource record using the target DNS server on which the check is to be executed in the TCPWave IPAM.

Below example shows the sample request:

```
{ "rr_name": "aaaaa.m.", "domain_name": "aaaaa.m", "organization_name": "TcpWave", "rr_type": "A", "dnssec_enabled": false, "isProxy": 0 }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	DNS tool details	<a href="#">DNS Appliance Tool</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DNS Appliance Tool</a> > array
500	TIMS-1020: Both Organization name and id cannot be null TIMS-1352: Organization does not exist:{0}, TIMS-1422: TIMS-1422: Zone does not exist:{0}	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.49. DNSViz Service

#### Description

This service provides API's to get the DNSSEC delegation for a given DNSSEC enabled zone on a give DNS cache appliance.

#### 4.49.1. DNSViz as HTML

```
GET /dnsviz/getDNSVizHTML
```

#### Description

This service provides API's to get the DNSSEC delegation as a HTML string for a given DNSSEC enabled zone on a given DNS cache appliance.

The example listed below shows a sample request URL:

```
/rest/dnsviz/getDNSVizHTML?zoneName=text.com&orgName=Internal&cacheApplianceIp=1.0.0.3
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cacheApplianceIp</b> <i>required</i>	IP address of the cache appliance where DNSSEC validation will be performed.	string	
Query	<b>orgName</b> <i>required</i>	Name of the organization.	string	
Query	<b>zoneName</b> <i>required</i>	DNSSEC enabled zone name.	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-1211: Unable to generate DNSViz HTML for a given DNSSEC enabled zone: {0} on a given DNS Cache Appliance: {1}. Please check the IPAM logs or contact the TCPWave Customer Support. TIMS-1213: Unable to generate DNSViz Text for a given DNSSEC enabled zone: {0} on a given DNS Cache Appliance: {1}. Please check the IPAM logs or contact TCPWave Customer Support.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.49.2. DNSViz as PNG

```
GET /dnsviz/getDNSVizPNG
```

### Description

This service provides APIs to get the DNSSEC delegation as a PNG image for a given DNSSEC enabled zone on a given DNS cache appliance.

The example listed below shows a sample request URL:

/rest/dnsviz/getDNSVizPNG?zoneName=text.com&orgName=Internal&cacheApplianceIp=1.0.0.3

### Parameters

Type	Name	Description	Schema	Default
Query	<b>cacheApplianceIp</b> <i>required</i>	IP address of the cache appliance where DNSSEC validation will be performed.	string	
Query	<b>orgName</b> <i>required</i>	Name of the organization.	string	
Query	<b>zoneName</b> <i>required</i>	DNSSEC enabled zone name.	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-1212: Unable to generate DNSViz PNG for a given DNSSEC enabled zone: {0} on a given DNS Cache Appliance: {1}. Please check the IPAM logs or contact the TCPWave Customer Support.	No Content

### Consumes

- `text/plain`

### Produces

- `text/plain`

## 4.50. Database Service

### Description

This service class provides services related to Database such as dump, back-up, snapshot, restore, delete snapshot etc in the TCPWave IPAM. TCPWave IPAM supports storing database backup on AWS-S3 and restoring database from AWS-S3.

#### 4.50.1. Apply Binlog for Database

```
POST /db/apply-binlog
```

### Description

Loads the database incremental changes into a recovery database in the TCPWave IPAM.

### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Details of database incremental changes	<a href="#">Apply Binlog Request</a>	

### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

### Consumes

- `application/json`
- `application/xml`

### Produces

- `application/json`
- `application/xml`

#### 4.50.2. Apply Snapshot on Database

```
POST /db/apply-snapshot
```

### Description

Loads a database snapshot into a recovery database in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "databases": "test", "snapshotDir": "tmp/hostname_11.30P7_2020Mar15_1500.bak" }
```

### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Apply DB Snapshot Request</a>	

### Responses

HTTP Code	Description	Schema
500	TIMS-9555: Error occurred while making tar.gz file of database snapshots.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.50.3. Backup Binlog for Database

```
POST /db/backup-binlog
```

#### Description

Performs a backup of the incremental changes in the TCPWave IPAM.

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Produces

- application/json
- application/xml

#### 4.50.4. Uploads Backup Database to AWS S3

```
POST /db/backupdbtoaws
```

#### Description

Takes Backup of IPAM Database and Uploads it to AWS S3.

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.50.5. Delete Database Snapshot

```
POST /db/deletedbssnapshot
```

#### Description

Deletes the database snapshot in the TCPWave IPAM. This action is audited.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Database snapshot details	<a href="#">Apply Binlog Request</a>	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.50.6. Export DB Snapshot zip file

```
GET /db/download
```

#### Description

Exports the db snapshot data into a zip file.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>fileName</b> <i>required</i>	Zip file name	string	

#### Responses

HTTP Code	Description	Schema
500	DB Snapshot data cannot be exported.	No Content

#### Produces

- application/octet-stream

#### 4.50.7. Downloads AWS S3 File

```
POST /db/downloadaws3file
```

#### Description

Downloads a specified backup file from AWS S3 bucket in the TCPWave IPAM. Bucket name is obtained from the global option of the TCPWave IPAM.

Below example shows sample request JSON:{"bucketName":"test-bucket","fileName":"dbsnapshot\_2019\_03\_13\_12\_00\_00.tar.gz"}

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">AWS S3 File</a>	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.50.8. Dump Database

```
POST /db/dumpdb
```

#### Description

Captures a backup database snapshot of the existing data in the TCPWave IPAM . Response contains the directory where the dump snapshot is located.

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Dump DB Response</a>
500	TIMS-9554: Failed to dump the database.	No Content

#### Produces

- application/json
- application/xml

#### 4.50.9. Export Organization Data

```
GET /db/dumpexport
```

#### Description

Exports the db snapshot data into a zip file.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>fileName</b> <i>required</i>	DB Snapshot name	string	

#### Responses

HTTP Code	Description	Schema
-----------	-------------	--------



HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.50.10. Lists s3 backup files

```
GET /db/lists3files
```

#### Description

Obtains a list of all uploaded backup files from AWS S3 bucket. Bucket name is obtained from the global option of the TCPWave IPAM.

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">AWS S3 File</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.50.11. Delete Backup Files

```
POST /db/multideletes3files
```

#### Description

Deletes the specified backup files from AWS S3 bucket.

Below example shows sample request JSON:{"bucketName":"test-bucket","fileName":"dbsnapshot\_2019\_03\_13\_12\_00\_00.tar.gz"}

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">AWS S3 File</a> > array	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.50.12. Restores Database

```
POST /db/restoredb
```

#### Description

Restores the database from a given snapshot in the TCPWave IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Apply Binlog Request</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-9101: Error while restoring database. Please check the logs for details.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.50.13. Restore Database from an AWS S3 backup file

```
POST /db/restoredbwithaws3
```

#### Description

Restores the database from an AWS S3 backup file downloaded in the TCPWave IPAM.

Below example shows sample request JSON:{"bucketName":"","test-bucket","fileName":"dbsnapshot\_2019\_03\_13\_12\_00\_00.tar.gz"}

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">AWS S3 File</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-9101: Error while restoring database. Please check the logs for details.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.50.14. Validates DB Snapshot zip file

```
GET /db/validateDumpFile
```

#### Description

Validates the db snapshot zip file.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>fileName</b> <i>required</i>	Zip file name	string	

#### Responses

HTTP Code	Description	Schema
500	DB Snapshot data cannot be exported.	No Content

#### Produces

- application/octet-stream

### 4.51. Device Discovery Details Service

#### 4.51.1. Add Discovery Devices

```
POST /discovery/device/add
```

#### Description

Creates a new discovery device in the TCPWave IPAM. Functional admins can add an device in any organization. Super admins can add device in their own organization only.

Below example shows sample request JSON:

```
{"ipAddress":"1.0.0.0","deviceName":"Router-name","deviceType":"Router","statusName":"Router-name","vendor":"cisco","platform":"ios","descriptio":"Cisco router"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Discovered Devices, to be added to IPAM.	<a href="#">Device Details</a>	

#### Responses

HTTP Code	Description	Schema
500	An Device with the given IP already exists.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.51.2. Deletes switch results

```
GET /discovery/device/delete
```

#### Description

This service call deletes device information.

Below example shows sample request JSON:

```
/rest/devicedisco/deleteDevice?ip=1.0.0.0&name=Router-1"
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command Id	string	
Query	<b>deviceType</b> <i>required</i>	Device Type	string	
Query	<b>ip</b> <i>required</i>	Device IP Address	string	
Query	<b>name</b> <i>required</i>	Device Name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3501: Unable to delete the discovery device.	No Content

#### Consumes

- application/json

#### 4.51.3. Device Details

```
GET /discovery/device/list
```

#### Description

Lists all the devices discovered in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/devicedisco/discopage?start=1&length=20
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>optional</i>	Command Id	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organizations	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Device Discovery Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListDevice Details</a>

#### Consumes

- text/plain

#### Produces

- application/json

- application/xml

## 4.52. Discovery Agent Command Service

### 4.52.1. Set Accept Status of Discovery Command

```
POST /discovery_agent_task/accept
```

#### Description

This service call takes a list of discovery command Ids and sets the status of each of these to "ACCEPTED". If the update discovery results global flag is set TCPWave IPAM updates the objects in the database with the discovered information. If the object is not already present it is created, otherwise updated in the database.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Page Name	string	
Body	<b>body</b> <i>optional</i>		< string > array	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3501: Unable to retrieve the discovery commands list.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

### 4.52.2. Accepts discovery command's data

```
POST /discovery_agent_task/acceptCmd
```

#### Description

This service call takes a list of discovery command Ids and accepts the command Id's data. If the update discovery results global flag is set TCPWave IPAM updates the objects in the database with the discovered information. If the object is not already present it is created, otherwise updated in the database.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< string > array	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3501: Unable to retrieve the discovery commands list.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- text/plain

### 4.52.3. Accept Discovery Device

```
POST /discovery_agent_task/acceptDevice
```

#### Description

This rest call takes a list of discovery devices and sets the status of each of these to "ACCEPTED". If the update discovery results global flag is set TCPWave IPAM updates the objects in the database with the discovered information. If the object is not already present it is created, otherwise updated in the database.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>commandId</b> <i>required</i>	Command ID	string	
Body	<b>body</b> <i>optional</i>		< <a href="#">Device Details</a> > array	

## Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3501: Unable to retrieve the discovery commands list.	No Content

## Consumes

- application/json
- application/xml

## Produces

- text/plain

### 4.52.4. Accept Firewall Subnet

```
POST /discovery_agent_task/acceptFirewallSubnet
```

## Description

This rest call takes a list of firewall subnets, command id, device name and IP Address of a device. It sets the status of each of these to "ACCEPTED". If the update discovery results global flag is set TCPWave IPAM updates the objects in the database with the discovered information. If the object is not already present it is created, otherwise updated in the database.

## Parameters

Type	Name	Description	Schema	Default
Query	<b>commandId</b> <i>required</i>	Command ID	string	
Query	<b>deviceName</b> <i>required</i>	Device Name	string	
Query	<b>ipAddress</b> <i>required</i>	Device IP	string	
Body	<b>body</b> <i>optional</i>		< <a href="#">Firewall Subnet</a> > array	

## Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3501: Unable to retrieve the discovery commands list.	No Content

## Consumes

- application/json
- application/xml

## Produces

- text/plain

### 4.52.5. Accept Router Subnet

```
POST /discovery_agent_task/acceptRouterSubnet
```

## Description

This rest call takes a list of router subnets, command id, device name and IP Address of a device. It sets the status of each of these to "ACCEPTED". If the update discovery results global flag is set TCPWave IPAM updates the objects in the database with the discovered information. If the object is not already present it is created, otherwise updated in the database.

## Parameters

Type	Name	Description	Schema	Default
Query	<b>commandId</b> <i>required</i>	Command ID	string	
Query	<b>deviceName</b> <i>required</i>	Device Name	string	
Query	<b>ipAddress</b> <i>required</i>	Device IP	string	
Body	<b>body</b> <i>optional</i>		< <a href="#">Router Subnet</a> > array	

## Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3501: Unable to retrieve the discovery commands list.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- text/plain

#### 4.52.6. Accept Switch VLAN Subnet

```
POST /discovery_agent_task/acceptSwitchSubnet
```

#### Description

This rest call takes a list of switch VLAN subnets, command Id, device name and IP Address of a device. It sets the status of each of these to "ACCEPTED". If the update discovery results global flag is set TCPWave IPAM updates the objects in the database with the discovered information. If the object is not already present it is created, otherwise updated in the database.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>commandId</b> <i>required</i>	Command ID	string	
Query	<b>deviceName</b> <i>required</i>	Device Name	string	
Query	<b>ipAddress</b> <i>required</i>	Device IP	string	
Body	<b>body</b> <i>optional</i>		< <a href="#">Vlan Subnet Details</a> > array	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3501: Unable to retrieve the discovery commands list.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- text/plain

#### 4.52.7. Accept VRF

```
POST /discovery_agent_task/acceptVrf
```

#### Description

This rest call takes a list of VRF, command id, device name and device IP Address. It sets the status of each of these to "ACCEPTED". If the update discovery results global flag is set TCPWave IPAM updates the objects in the database with the discovered information. If the object is not already present it is created, otherwise updated in the database.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>commandId</b> <i>required</i>	Command ID	string	
Query	<b>deviceName</b> <i>required</i>	Device Name	string	
Query	<b>ipAddress</b> <i>required</i>	Device IP	string	
Body	<b>body</b> <i>optional</i>		< <a href="#">VRF</a> > array	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3501: Unable to retrieve the discovery commands list.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- text/plain

#### 4.52.8. Configurations Differences

GET /discovery\_agent\_task/getConfigDifference

#### Description

Lists the difference between the two commands configurations presented in the TCPWave IPAM.

Below example shows sample request JSON:

/rest/discovery\_agent\_task/getConfigDifference?

firstCmdId=TDCE\_20220106&secondCmdId=TDCE\_20220105&applIp=1.0.0.0&applName=TCPWaveAgent

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>applIp</b> <i>required</i>	Agent IP	string	
Query	<b>applName</b> <i>required</i>	Agent Name	string	
Query	<b>firstCmdId</b> <i>required</i>	First Command Id	string	
Query	<b>secondCmdId</b> <i>required</i>	Second Command Id	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Device Details</a> > array
500		No Content

#### Consumes

- text/plain
- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.52.9. Command Differences

GET /discovery\_agent\_task/getDifference

#### Description

Lists the difference between the two commands presented in the TCPWave IPAM.

Below example shows sample request JSON:

/rest/discovery\_agent\_task/getDifference?

firstCmdId=TDCE\_20220106&secondCmdId=TDCE\_20220105&applIp=1.0.0.0&applName=TCPWaveAgent

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>applIp</b> <i>required</i>	Agent IP	string	
Query	<b>applName</b> <i>required</i>	Agent Name	string	
Query	<b>firstCmdId</b> <i>required</i>	First Command Id	string	
Query	<b>secondCmdId</b> <i>required</i>	Second Command Id	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Device Details</a> > array
500		No Content

#### Consumes

- text/plain
- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.52.10. Add Discovery Agent Tasks

### Description

Creates new discovery agent tasks in TCPWave IPAM.

Below example shows sample request JSON:

```
{ "commandId": "TDCE_20210921162330", "applianceIp": "192.168.56.10", "status": 2, "startTime": "2021-09-21 16:23:30.934", "endTime": "2021-09-21 16:23:30.989" }
```

### Parameters

Type	Name	Description	Schema	Default
Query	<b>applianceIp</b> <i>required</i>	Discovery Appliance IP	string	
Body	<b>body</b> <i>required</i>	Discovery Agent Tasks List	< <a href="#">DiscoveryAgentCommand</a> > array	

### Responses

HTTP Code	Description	Schema
500		No Content

### Consumes

- application/json
- application/xml

#### 4.52.11. Delete Discovery Agent Tasks

POST /discovery\_agent\_task/multidelete

### Description

Deletes new discovery agent tasks from the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "commandId": "TDCE_20210921162330", "commandId": "TDCE_2021092164451" }
```

### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Discovery Agent command id list	< string > array	

### Responses

HTTP Code	Description	Schema
500		No Content

### Consumes

- application/json
- application/xml

#### 4.53. Discovery Agent Service

##### 4.53.1. Router Details

GET /discovery\_agent/agentMap

### Description

Gets the map details for a switch discovered in the TCPWave IPAM.

### Parameters

Type	Name	Description	Schema	Default
Query	<b>commandId</b> <i>required</i>	Command ID	string	
Query	<b>isNeighbor</b> <i>required</i>	Neighbour View	integer(int32)	

### Responses

HTTP Code	Description	Schema
200	successful operation	string

### Consumes

- text/plain

### Produces

- text/plain

##### 4.53.2. Discovery Map

GET /discovery\_agent/agentMap2



### Description

Gets the map details for the discovered devices in the TCPWave IPAM.

### Parameters

Type	Name	Description	Schema	Default
Query	<b>agentIp</b> <i>required</i>	Agent IP	string	
Query	<b>commandId</b> <i>required</i>	Command ID	string	
Query	<b>organization</b> <i>required</i>	Organization	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	string

### Consumes

- text/plain

### Produces

- text/plain

### 4.53.3. Get Device Details

```
GET /discovery_agent/device/get
```

### Description

Get the device details for the selected discovered device in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/discovery_agent/device/get?
```

```
commandId=TDC_20220422121&orgName=Internal&deviceIp=10.1.0.0&deviceType=Router
```

### Parameters

Type	Name	Description	Schema	Default
Query	<b>commandId</b> <i>required</i>	Command ID	string	
Query	<b>deviceIp</b> <i>required</i>	Device IP Address	string	
Query	<b>deviceType</b> <i>required</i>	Device Type	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Device Details</a>

### Consumes

- application/json
- application/xml

### Produces

- application/json
- application/xml

### 4.53.4. Device Discovery

```
POST /discovery_agent/discover/device
```

### Description

Discover the device from the discovery agent.

The example listed below shows a sample request URL:

```
/rest/discover/device?agentIp=10.0.0.0&deviceIp=10.1.0.0&deviceType=Router&isTopology=false
```

### Parameters

Type	Name	Description	Schema	Default
Query	<b>agentIp</b> <i>required</i>	Agent IP	string	
Query	<b>deviceIp</b> <i>required</i>	Device IP Address	string	

Type	Name	Description	Schema	Default
Query	<b>deviceType</b> <i>required</i>	Device Name	string	
Query	<b>isTopology</b> <i>required</i>	From Topology	boolean	
Body	<b>body</b> <i>optional</i>		< <a href="#">DiscoveryRouters</a> > array	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- application/json
- application/xml

#### Produces

- text/plain

#### 4.53.5. VRF

POST /discovery\_agent/discover/subnets

#### Description

Fetching VRF from the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/discovery\_agent/vrf/get?id=1245

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">DiscoveryElementDTO</a> > array	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- application/json
- application/xml

#### Produces

- text/plain

#### 4.53.6. Element Details

GET /discovery\_agent/elementpage

#### Description

Lists all the elements discovered for the selected switch in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/discovery\_agent/elementpage?start=1&length=20&firewallIP=20.0.0.3

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command Id	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>firewallIP</b> <i>required</i>	Switch IPAddress	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	

Type	Name	Description	Schema	Default
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Switch Element Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListFirewallElement Details</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.53.7. Firewall Configurations

```
GET /discovery_agent/firewall-configurations
```

#### Description

Obtains firewall configurations discovered by the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/discovery_agent/firewall-configurations?firewallr_ip=1.1.1.0
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command ID	string	
Query	<b>firewall_ip</b> <i>required</i>	Firewall IPAddress	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.53.8. Add Firewalls

```
POST /discovery_agent/firewall/multiadd
```

#### Description

Creates new firewalls in the TCPWave IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Firewalls List	< <a href="#">Firewall</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.53.9. Add Firewall NAT Pool

```
POST /discovery_agent/firewall/natpool_multiadd
```

#### Description

Creates new firewall NAT Pools in TCPWave IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Firewall NAT Pool List	< <a href="#">Firewall NAT Pool Details</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.53.10. Router Details

```
GET /discovery_agent/firewalldetails
```

#### Description

Gets the Router details for a switch discovered in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/discovery\_agent/routerdetails?firewall\_ip=10.0.0.3

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command ID	string	
Query	<b>firewall_ip</b> <i>required</i>	Firewall IP	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Firewall</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.53.11. Add Firewall Elements

```
POST /discovery_agent/firewallelement/multiadd
```

#### Description

Creates new firewall elements in the TCPWave IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Firewall Element List	< <a href="#">Firewall Element Details</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.53.12. Add Firewall Interfaces

```
POST /discovery_agent/firewallinterface/multiadd
```

#### Description

Creates new firewall Interfaces in the TCPWave IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Firewall Interfaces List	< <a href="#">Firewall Interface</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.53.13. Add Firewall Neighbors

```
POST /discovery_agent/firewallneighbor/multiadd
```

#### Description

Creates new firewall Neighbors in the TCPWave IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Firewall Neighbors List	< <a href="#">Firewall Neighbor</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.53.14. Add Firewall Subnets

```
POST /discovery_agent/firewallsubnet/multiadd
```

#### Description

Creates new firewall subnets in TCPWave IPAM.

Below example shows sample request JSON:

```
{{"firewallIP":"1.0.0.2","interfaceName":"loopback0","subnetIP":"1.0.0.0","subnetMask":"255.255.255.0","subnetMaskLength":"24","nextHop":"","isVrf":"false","is"
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Firewall Subnets List	< <a href="#">Firewall Subnet</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.53.15. VRFs List

```
GET /discovery_agent/firewallvrf/list
```

#### Description

Obtains a list of vrfs discovered by Firewall in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/discovery_agent/firewallvrf/list?firewall_ip=1.1.1.0&cmdId=TDCE_20220422123
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command ID	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>firewall_ip</b> <i>required</i>	Router IPAddress	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	

Type	Name	Description	Schema	Default
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Router Element Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListVRF</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.53.16. Add Firewall VRFs

```
POST /discovery_agent/firewallvrf/multiadd
```

#### Description

Creates new firewall VRFs in TCPWave IPAM.

Below example shows sample request JSON:

```
{"firewallIp":"1.0.0.2","name":"VRF","route_distinguisher":"10.1.10.15","vrf_interface":"f0/0.82","commandId":"TDCE_202204290123"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Firewall VRFs List	< <a href="#">VRF</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.53.17. Neighbor Device Details

```
GET /discovery_agent/getNeighbors
```

#### Description

Gets the neighbor device details for a device discovered in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/router_subnet/getNeighbors?
```

```
commandId=TDC_20220422121&applIp=10.0.0.0&orgName=Internal&deviceIp=10.1.0.0&deviceType=Router
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>applIp</b> <i>required</i>	Agent IP Address	string	
Query	<b>commandId</b> <i>required</i>	Command ID	string	
Query	<b>deviceIp</b> <i>required</i>	Device IP Address	string	
Query	<b>deviceType</b> <i>required</i>	Device Type	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.53.18. GET /discovery\_agent/getSnmpDetails

##### Responses

HTTP Code	Description	Schema
200	successful operation	string

##### Consumes

- text/plain

##### Produces

- application/json
- text/plain

#### 4.53.19. Subnet Details of a Device

```
GET /discovery_agent/getSubnetsByDevice
```

##### Description

Gets the subnet for the selected discovered device in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/router\_subnet/getSubnetsByDevice?

commandId=TDC\_20220422121&applIp=10.0.0.0&orgName=Internal&deviceIp=10.1.0.0&deviceType=Router

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>applIp</b> <i>required</i>	Agent IP Address	string	
Query	<b>commandId</b> <i>required</i>	Command ID	string	
Query	<b>deviceIp</b> <i>required</i>	Device IP Address	string	
Query	<b>deviceType</b> <i>required</i>	Device Type	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Device Details Map</a> > array

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml

#### 4.53.20. Discovered Subnet elements List

```
GET /discovery_agent/getsubnet_elements
```

##### Description

Fetches the list of discovered subnet elements list.

The example listed below shows a sample request URL:

/rest/discovery\_agent/getsubnet\_elements?device\_ip=10.0.0.3&subnet\_ip=10.1.10.1&mask=24

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command ID	string	
Query	<b>device_ip</b> <i>required</i>	Firewall IPAddress	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	

Type	Name	Description	Schema	Default
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>mask</b> <i>required</i>	Subnet Mask	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Router Element Range	integer(int32)	
Query	<b>subnet_ip</b> <i>required</i>	Subnet IPAddress	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListFirewallSubnetElement</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.53.21. Subnet Details

```
GET /discovery_agent/getsubnets
```

#### Description

Lists all the subnets discovered for the selected firewall in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/discovery_agent/getsubnets?start=1&length=20&firewall_ip=20.0.0.3
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command ID	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>firewall_ip</b> <i>required</i>	Router IPAddress	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Router Element Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListFirewallSubnet</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml



#### 4.53.22. Discovered VMWare elements List

```
GET /discovery_agent/getvmware_elements
```

##### Description

Fetches the list of discovered VMWare elements list in TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/discovery_agent/getvmware_elements?device_ip=10.0.0.3&cmdId=TDCE_2022040701
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command ID	string	
Query	<b>device_ip</b> <i>required</i>	VMWare IP Address	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Router Element Range	integer(int32)	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListVMWareDiscoveryElementDetails</a>

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.53.23. Interfaces List

```
GET /discovery_agent/interfaces
```

##### Description

Obtains a list of interfaces discovered by firewall in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/discovery_agent/getinterfaces?firewall_ip=1.1.1.0
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command ID	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>firewall_ip</b> <i>required</i>	Firewall IPAddress	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	

Type	Name	Description	Schema	Default
Query	<b>start</b> <i>required</i>	Starting Router Element Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListFirewall Interface</a>

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.53.24. NAT Pool Details

```
GET /discovery_agent/natpoolList
```

#### Description

Lists all the NAT Pools discovered for the selected device in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/discovery_agent/natpoolList?start=1&length=20&firewallIP=20.0.0.3&cmdId=TDCE_20220331012
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command Id	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>firewallIP</b> <i>required</i>	Switch IPAddress	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Switch Element Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListFirewall NAT Pool Details</a>

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.53.25. Interfaces List

```
GET /discovery_agent/neighbours
```

#### Description

Obtains a list of interfaces discovered by Firewall in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/discovery_agent/neighbours?firewall_ip=1.1.1.0
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command ID	string	

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>firewall_ip</b> <i>required</i>	Router IPAddress	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Router Element Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListFirewallNeighbor</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.53.26. Subnet Details

```
GET /discovery_agent/object/get
```

#### Description

Returns the Subnet details that has the DHCP Profile, Primary Router, Subnet Group, VLAN and Domain information for a given subnet for discovery.

The example listed below shows a sample request URL:

```
/rest/discovery_agent/subnet/get?address=10.0.0.0&organizationName=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Subnet Address	string	
Query	<b>organizationName</b> <i>required</i>	Organization Name	string	
Query	<b>subnet_id</b> <i>optional</i>	Subnet ID	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">TIMS Object</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.53.27. Subnet Agent Map

```
GET /discovery_agent/subnet/agentMap
```

#### Description

Fetching subnet agent from the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/discovery_agent/subnet/agentMap?ipAddress=192.168.0.0/24&organizationName=Internal&type=network
```

#### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Query	<b>ipAddress</b> <i>required</i>	Subnet IP	string	
Query	<b>organizationName</b> <i>required</i>	Organization Name	string	
Query	<b>type</b> <i>required</i>	Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< string, string > map

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.53.28. Subnet Details

```
GET /discovery_agent/subnet/get
```

#### Description

Returns the Subnet details that has the DHCP Profile, Primary Router, Subnet Group, VLAN and Domain information for a given subnet for discovery.

The example listed below shows a sample request URL:

```
/rest/discovery_agent/subnet/get?address=10.0.0.0&organizationName=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Subnet Address	string	
Query	<b>organizationName</b> <i>required</i>	Organization Name	string	
Query	<b>subnet_id</b> <i>optional</i>	Subnet ID	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Subnet Information</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.53.29. Add Firewall Subnet elements

```
POST /discovery_agent/subnetelement/multiadd
```

#### Description

Creates new firewall subnet elements in the TCPWave IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Firewall Subnets List	< <a href="#">FirewallSubnetElement</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.53.30. Add VMware

POST /discovery\_agent/vmware/multiadd

#### Description

Creates new VMware in TCPWave IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	VMWare List	< <a href="#">Discovery Agent VMWare</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.53.31. Add VMware elements

POST /discovery\_agent/vmware\_element/multiadd

#### Description

Creates new VMware elements in TCPWave IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	VMWare Element List	< <a href="#">VMWare Discovery Element Details</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.53.32. VRF

GET /discovery\_agent/vrf/get

#### Description

Fetching VRF from the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/discovery\_agent/vrf/get?id=1245

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	VRF Name	string	
Query	<b>organizationName</b> <i>required</i>	Organization Name	string	
Query	<b>vrf_id</b> <i>optional</i>	VRF ID	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">VRF</a>

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

### 4.54. Discovery Appliance Service

#### 4.54.1. Add Discovery Agent

### Description

Creates a new discovery agent that can be used to discover a network or subnet in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "applianceIP": "3.0.0.20", "organizationName": "Test", "templateName": "Default Discovery
Template", "description": "Discovery Agent", "threadPoolSize": 10 }
```

### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Discovery Agent Details	<a href="#">Discovery Appliance</a>	

### Responses

HTTP Code	Description	Schema
500	TIMS-1916: Organization name cannot be null. TIMS-1352: Organization does not exist: {0}, TIMS-14000: Remote appliance is not valid: {0}, TIMS-3051: Appliance address cannot be null., TIMS-15106: Discovery template cannot be null.,TIMS-15108: Discovery appliance is not valid.,TIMS-15109: Discovery appliance: {0} already exists.	No Content

### Consumes

- application/json
- application/xml

#### 4.54.2. Discovery Events List

```
GET /discovery_appliance/agent/events/list
```

### Description

Fetches the list of discovery events list.

The example listed below shows a sample request URL:

```
/rest/discovery_appliance/agent/events/list?organizations=Test&cmdId=TDCE_20220422123
```

### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>optional</i>	CommandId	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organizations	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Router Element Range	integer(int32)	

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListDiscoveryEvents</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

### Consumes

- text/plain

### Produces

- application/json
- application/xml

#### 4.54.3. Discovery Agent Task List

```
GET /discovery_appliance/agent/tasks/list
```

### Description

Fetches the list of discovery agent tasks present in TCPWave IPAM.

The example listed below shows a sample request URL:  
 /rest/discovery\_appliance/agent/tasks/list?organizations=Test&applianceIP=10.0.0.2

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>applianceIP</b> <i>optional</i>	Agent IP	string	
Query	<b>organizations</b> <i>optional</i>	Organizations	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DiscoveryAgentCommand</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.54.4. Delete Discovery Agent

POST /discovery\_appliance/delete

#### Description

Deletes a discovery agent in TCPWave IPAM.  
 The example listed below shows a sample request URL:  
 /rest/discovery\_appliance/delete?applIp=3.0.0.20&orgName=Test

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>applIp</b> <i>required</i>	Agent IP	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1916: Organization name cannot be null. TIMS-1352: Organization does not exist: {0}, TIMS-14000: Remote appliance is not valid: {0}, TIMS-3051: Appliance address cannot be null.	No Content

#### Consumes

- application/json
- application/xml

#### 4.54.5. Gets Discovery Agent Details

GET /discovery\_appliance/details

#### Description

Gets discovery agent details present in the TCPWave IPAM.  
 The example listed below shows a sample request URL:  
 /rest/discovery\_appliance/details?applIp=3.0.0.10&orgName=Test

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>applIp</b> <i>required</i>	Agent IP	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Discovery Appliance</a>
500	TIMS-1916: Organization name cannot be null. TIMS-1352: Organization does not exist: {0}, TIMS-14000: Remote appliance is not valid: {0}, TIMS-3051: Appliance address cannot be null.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.54.6. Discovery Devices list

```
GET /discovery_appliance/discovery_device/list
```

#### Description

Lists all the device credentials for the discovery agent in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/discovery_appliance/discovery_device/list?start=1&length=20&applIp=20.0.0.3&orgName=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>applIp</b> <i>required</i>	Appliance IP Address	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Router Element Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListDiscoveryRouters</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.54.7. Add Discovery Device

```
POST /discovery_appliance/discovery_device/multiadd
```

#### Description

Creates new discovery device credentials in TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/discovery_appliance/discovery_device/multiadd?orgName=Test&applIp=10.0.0.2
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>applIp</b> <i>required</i>	Discovery Agent	string	
Query	<b>orgName</b> <i>required</i>	Organization Id	string	
Body	<b>body</b> <i>required</i>	Discovery device credentials List	< <a href="#">DiscoveryRouters</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json



- application/xml

#### 4.54.8. Delete Discovery Device

POST /discovery\_appliance/discovery\_device/multidelete

##### Description

Deletes the discovery device in TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/discovery\_appliance/discovery\_device/multidelete?orgName=Test&applIp=10.0.0.2

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>applIp</b> <i>required</i>	Discovery Agent	string	
Query	<b>orgName</b> <i>required</i>	Organization Id	string	
Body	<b>body</b> <i>required</i>	Discovery device credentials List	< <a href="#">DiscoveryRouters</a> > array	

##### Responses

HTTP Code	Description	Schema
500		No Content

##### Consumes

- application/json
- application/xml

#### 4.54.9. Update Discovery Device

POST /discovery\_appliance/discovery\_device/update

##### Description

Updates the discovery device in TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/discovery\_appliance/discovery\_device/update?orgName=Test&applIp=10.0.0.2

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>applIp</b> <i>required</i>	Discovery Agent	string	
Query	<b>orgName</b> <i>required</i>	Organization Id	string	
Body	<b>body</b> <i>required</i>	Discovery device credentials List	<a href="#">DiscoveryRouters</a>	

##### Responses

HTTP Code	Description	Schema
500		No Content

##### Consumes

- application/json
- application/xml

#### 4.54.10. Discovery Devices list

GET /discovery\_appliance/discovery\_exclusion/list

##### Description

Lists all the device exclusions for the discovery agent in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/discovery\_appliance/discovery\_exclusion/list?start=1&length=20&applIp=10.0.0.3&orgName=Internal

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>applIp</b> <i>required</i>	Appliance IP Address	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	

Type	Name	Description	Schema	Default
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Router Element Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListDiscovery Exclusions</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.54.11. Add Discovery Device

```
POST /discovery_appliance/discovery_exclusion/multiadd
```

#### Description

Creates new discovery exclusions in TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/discovery_appliance/discovery_exclusion/multiadd?orgName=Test&applIp=10.0.0.2
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>applIp</b> <i>required</i>	Discovery Agent	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Body	<b>body</b> <i>required</i>	Discovery exclusion List	< <a href="#">Discovery Exclusions</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.54.12. Delete Discovery Device

```
POST /discovery_appliance/discovery_exclusion/multidelete
```

#### Description

Deletes the discovery exclusions in TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/discovery_appliance/discovery_exclusion/multidelete?orgName=Test&applIp=10.0.0.2
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>applIp</b> <i>required</i>	Discovery Agent	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Body	<b>body</b> <i>required</i>	Discovery Exclusion List	< <a href="#">Discovery Exclusions</a> > array	

#### Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.54.13. Update Discovery Device

```
POST /discovery_appliance/discovery_exclusion/update
```

#### Description

Updates the discovery exclusions in TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/discovery_appliance/discovery_exclusion/update?orgName=Test&applIp=10.0.0.2
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>applIp</b> <i>required</i>	Discovery Agent	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Body	<b>body</b> <i>required</i>	Discovery device credentials List	<a href="#">Discovery Exclusions</a>	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.54.14. Initiate Discovery on the agent

```
GET /discovery_appliance/initiate
```

#### Description

Initiates discovery on the agent.

The example listed below shows a sample request URL:

```
/rest/discovery_appliance/initiate?applianceIp=10.0.0.1&organizationName=Test
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>applianceIp</b> <i>optional</i>	Agent IP	string	
Query	<b>organizationName</b> <i>optional</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.54.15. Checks for Discovery Agent

```
GET /discovery_appliance/isExists
```

#### Description

Checks discovery agent is exist or not in TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/discovery_appliance/isExists?applianceIp=3.0.0.10&orgName=Test
```

#### Parameters

Type	Name	Description	Schema	Default

Type	Name	Description	Schema	Default
Query	<b>applianceIp</b> <i>required</i>	Agent IP	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	boolean
500	TIMS-1916: Organization name cannot be null. TIMS-1352: Organization does not exist: {0}, TIMS-14000: Remote appliance is not valid: {0}, TIMS-3051: Appliance address cannot be null.	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.54.16. Discovery Agents List

```
GET /discovery_appliance/list
```

#### Description

Fetches the list of discovery agents.

The example listed below shows a sample request URL:

`/rest/discovery_appliance/list?organizations=Internal`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organizations	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Discovery Appliance</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.54.17. Reset Discovery on the Agent

```
GET /discovery_appliance/reset
```

#### Description

Reset the discovery on the agent

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>applianceIp</b> <i>optional</i>	Appliance IP	string	
Query	<b>organizationName</b> <i>optional</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7003: You are not authorized to perform this operation. The example listed below shows a sample request URL: <code>/rest/discovery_appliance/reset?applianceIp=10.0.0.1&amp;organizationName=Test</code>	No Content

#### Consumes

- `text/plain`

#### Produces

- text/plain

#### 4.54.18. Agent Configuration

```
GET /discovery_appliance/server-configuration
```

##### Description

Lists the configuration type and configuration data for an specified agent in the TCPWave IPAM.  
The example listed below shows a sample request URL:  
`/rest/discovery_appliance/server-configuration?server_address=10.0.0.3`

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>server_address</b> <i>required</i>	Agent IP	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Discovery Appliance</a>
500	TIMS-3038: Appliance Type is not valid:<Appliance Type Code>	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.54.19. Sync Discovery Agent

```
GET /discovery_appliance/sync
```

##### Description

Updates the discovery agent details.  
The example listed below shows a sample request URL:  
`/rest/discovery_appliance/sync?applianceIp=192.168.0.10&organizationName=Internal`

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>applianceIp</b> <i>optional</i>	Agent IP	string	
Query	<b>organizationName</b> <i>optional</i>	Organization Name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7003: You are not authorized to perform this operation.	No Content

##### Consumes

- text/plain

##### Produces

- text/plain

#### 4.54.20. Discovery Agent List

```
GET /discovery_appliance/testcert
```

##### Description

Fetches the list of discovery agents.  
The example listed below shows a sample request URL:  
`/rest/discovery_appliance/testcert?ip=10.0.0.5`

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>optional</i>	ip	string	

##### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

##### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.54.21. Update Discovery Agent

POST /discovery\_appliance/update

#### Description

Updates an existing discovery agent that can be used to discover a network or subnet in the TCPWave IPAM.

Below example shows sample request JSON:

```
{
  "applianceIP": "3.0.0.20",
  "organizationName": "Etemp",
  "templateName": "Default Discovery Template",
  "description": "Test",
  "oldApplianceIP": "3.0.0.10",
  "oldOrganizationName": "Test",
  "oldTemplateName": "Test Discovery Template",
  "threadPoolSize": "10"
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Discovery Appliance Details	<a href="#">Discovery Appliance</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1916: Organization name cannot be null. TIMS-1352: Organization does not exist: {0}, TIMS-14000: Remote appliance is not valid: {0}, TIMS-3051: Appliance address cannot be null., TIMS-15106: Discovery template cannot be null.,TIMS-15107: Discovery template is not valid: {0},TIMS-15108: Discovery appliance is not valid.,TIMS-15109: Discovery appliance: {0} already exists.	No Content

#### Consumes

- application/json
- application/xml

#### 4.54.22. Updates Heartbeat for Discovery Agent

GET /discovery\_appliance/update\_heartbeat

#### Description

Updates Heartbeat for Discovery Agent present in TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/discovery\_appliance/update\_heartbeat?applianceIp=3.0.0.10&orgName=Test&status=alive

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>applianceIp</b> <i>required</i>	Agent IP	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Query	<b>status</b> <i>required</i>	Heartbeat Status	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1916: Organization name cannot be null. TIMS-1352: Organization does not exist: {0}, TIMS-14000: Remote appliance is not valid: {0}, TIMS-3051: Appliance address cannot be null.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.55. Discovery Engine Dashboard Service

#### 4.55.1. Discovery Logs

GET /discoverydashboard/deviceslastuptime

#### Description

Gets the top 10 devices last rebooted time.

The example listed below shows a sample request URL:

/rest/discoverydashboard/deviceslastuptime?widgetType=deviceLastuptime

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>required</i>	Organization	string	
Query	<b>widgetType</b> <i>required</i>	Widget Type (deviceelastuptime)	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DiscoDashboard</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.55.2. Discovery Logs

```
GET /discoverydashboard/discovereddevices
```

#### Description

Gets the discovered devices details based on the latest command ID.  
The example listed below shows a sample request URL:  
/rest/discoverydashboard/discovereddevices?widgetType=discovereddevices

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	order param(asc/desc)	string	
Query	<b>organizations</b> <i>required</i>	Organization	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	
Query	<b>widgetType</b> <i>required</i>	Widget Type (discovereddevices)	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListDiscoDashboard</a>
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.55.3. Discovery Logs

```
GET /discoverydashboard/getDiscoveryEvents
```

#### Description

Gets the logs Discovery Events Details based on last command ID.  
The example listed below shows a sample request URL:  
/rest/discoverydashboard/getDiscoveryEvents?widgetType=discoveryevent

#### Parameters

Type	Name	Description	Schema	Default

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	order param(asc/desc)	string	
Query	<b>organizations</b> <i>required</i>	Organization	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	
Query	<b>widgetType</b> <i>required</i>	Widget Type (discoveryevent)	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListDiscoDashboard</a>
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.55.4. Discovery Logs

```
GET /discoverydashboard/getOSTodevicecount
```

#### Description

Gets the total devices count for the OS based on latest command ID.

The example listed below shows a sample request URL:

```
/rest/discoverydashboard/getOSTodevicecount?widgetType=platformversion
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>required</i>	Organization	string	
Query	<b>widgetType</b> <i>required</i>	Widget Type (platformversion)	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DiscoDashboard</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.55.5. Discovery Logs

```
GET /discoverydashboard/topleastbusypoller
```

#### Description

Gets the top 10 busiest poller details based on the latest command ID.

The example listed below shows a sample request URL:

```
/rest/discoverydashboard/getTopAndLeaseBusyPoller?widgetType=busyleastpoller
```

#### Parameters

Type	Name	Description	Schema	Default



Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>required</i>	Organization	string	
Query	<b>widgetType</b> <i>required</i>	Widget Type (platformversion)	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DiscoDashboard</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

## 4.56. Discovery Event Service

### 4.56.1. Add Discovery Events

POST /discovery\_event/multiadd

#### Description

Creates new discovery events in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "commandId": "TDCE_20210921162330", "applianceIp": "192.168.56.10", "category": "" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Discovery Events List	< <a href="#">DiscoveryEvents</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

### 4.56.2. Delete Discovery Events

POST /discovery\_event/multidelete

#### Description

Deletes the discovery events from the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "commandId": "TDCE_20210921162330", "commandId": "TDCE_2021092164451" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Discovery Events id list	< integer(int32) > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

## 4.57. Discovery Service

#### Description

This service provides the APIs to the discovery engine of the TCPWave IPAM. The interfaces include discovery of subnets, objects, switches etc., and list the discovered information and set the status on the discovery command. TCPWave's discovery uses SNMP, PING, NetBIOS scan, VMWare Scan, Amazon AWS scan, Microsoft Azure scan, Google Cloud Engine scan, ARP table scan using a fast algorithm that has been optimized for performance. The discovery engine has the ability to automatically update the TCPWave IPAM with the data obtained from discovery.

#### 4.57.1. Accept Discovered Elements

POST /discovery/acceptelements

##### Description

This service call takes a list of discovered elements and adds to IPAM. If the update discovery results global flag is set the TCPWave IPAM updates the objects in the database with the discovered information. If the object is not already present it is created, otherwise updated in the database.

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>isExternalUser</b> <i>required</i>	External User	boolean	
Body	<b>body</b> <i>optional</i>		< <a href="#">Accept Elements Request</a> > array	

##### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3501: Unable to retrieve the discovery commands list.	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml

#### 4.57.2. Discover IP Information

POST /discovery/discover\_element

##### Description

Discovers information related to the specified IP, besides the information discovered during a subnet discovery for the same IP, as part of this call a deep discovery is done to get the open ports information.

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		string	

##### Responses

HTTP Code	Description	Schema
500	TIMS-3151: Error occurred during discovery, Please check the logs.	No Content

##### Consumes

- application/json

##### Produces

- application/json
- application/xml

#### 4.57.3. Discover Subnets

POST /discovery/discover\_multiple\_subnets

##### Description

Discovers the specified subnets. Uses ping, nmap, netbios, snmp, and reverse DNS lookup to gather information for all the IPs in the specified subnet.

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Discovery Request Details	<a href="#">Discovery Request</a>	

##### Responses

HTTP Code	Description	Schema
500	TIMS-2086: Please select a subnet to discover, TIMS-3151: Error occurred during discovery, Please check the logs.	No Content

##### Consumes

- application/json

#### Produces

- application/json
- application/xml

#### 4.57.4. Discover Subnets

```
POST /discovery/discover_reclaimable_subnets
```

#### Description

Discovers the specified subnets. Uses ping, nmap, netbios, snmp, and reverse DNS lookup to gather information for all the IPs in the specified subnet.

Below example shows sample request JSON:

```
{ "reqs": [{"address": "192.168.0.0/24", "organization": "Internal"}, {"type": "S"} ]
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Discovery Request Details	<a href="#">Discovery Request</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">TIMS Object</a> > array
500	TIMS-2086: Please select a subnet to discover, TIMS-3151: Error occurred during discovery, Please check the logs.	No Content

#### Consumes

- application/json

#### Produces

- application/json
- application/xml

#### 4.57.5. Discover Subnet of Router

```
POST /discovery/discover_router_subnets
```

#### Description

Scans the entire network, starting with seed routers, discovers the next hop elements, the subnets discovered in each of the routers discovered, and further discovers the IPs in the subnets discovered.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Discovery Command Data</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3151: Error occurred during discovery, Please check the logs.	No Content

#### Consumes

- application/json

#### Produces

- application/json
- application/xml

#### 4.57.6. Discover Subnet

```
POST /discovery/discover_subnet
```

#### Description

Discovers the specified subnets. Uses ping, nmap, netbios, snmp, and reverse DNS lookup to gather information for all the IPs in the specified subnet.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Discovery Request</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-2086: Please select a subnet to discover, TIMS-3151: Error occurred during discovery, Please check the logs.	No Content

#### Consumes

- application/json

#### Produces

- application/json
- application/xml

#### 4.57.7. Discover Subnet

```
POST /discovery/discover_switch
```

#### Description

Discovers the specified subnets. Uses ping, nmap, netbios, snmp, and reverse DNS lookup to gather information for all the IPs in the specified subnet.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< string > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-2086: Please select a subnet to discover, TIMS-3151: Error occurred during discovery, Please check the logs.	No Content

#### Consumes

- application/json

#### Produces

- application/json
- application/xml

#### 4.57.8. Discovery Commands List

```
GET /discovery/getcmds
```

#### Description

Gets the list of discovery commands and their status. Used internally by the TCPWave IPAM to show the current discovery status in GUI and CLI.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization Names	string	
Query	<b>status</b> <i>optional</i>		string	
Query	<b>subnetIP</b> <i>optional</i>	Subnet IP Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DBDiscoveryCommand</a> > array
500	TIMS-3501: Unable to retrieve the discovery commands list.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.57.9. Discover Subnet Element List

```
GET /discovery/getdiscoveredsubnetelements
```

#### Description

For the specified discovery command gets the list of elements discovered. The information includes the last seen time, discovered name, mac, location, device, vendor, port information etc., and the information for the same IP from the TCPWave IPAM database if the object is already defined in IPAM.

#### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Query	cmdId <i>optional</i>		integer(int32)	

#### Responses

HTTP Code	Description	Schema
500	TIMS-2086: Please select a subnet to discover.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.57.10. Discover Subnet Element List

POST /discovery/getsubnetelements

#### Description

For the specified discovery command gets the list of elements discovered. The information includes the last seen time, discovered name, mac, location, device, vendor, port information etc., and the information for the same IP from the TCPWave IPAM database if the object is already defined in IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		< integer(int32) > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-2086: Please select a subnet to discover.	No Content

#### Consumes

- application/json

#### Produces

- application/json
- application/xml

#### 4.57.11. Discover Subnet Element List

POST /discovery/getswitchelements

#### Description

For the specified discovery command gets the list of elements discovered. The information includes the last seen time, discovered name, mac, location, device, vendor, port information etc., and the information for the same IP from the TCPWave IPAM database if the object is already defined in IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		< <a href="#">Switch Details</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-2086: Please select a subnet to discover.	No Content

#### Consumes

- application/json

#### Produces

- application/json
- application/xml

#### 4.57.12. Object Discovery Update

POST /discovery/handle\_object\_discovery\_update

#### Description

This is an internal service call that the discovery engine invokes after a subnet discovery is complete. Based on if the auto discovery and auto discovery update flags are set in the global options, The TCPWave IPAM automatically sets the accept status on the discovery command and updates the database with the newly discovered information.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		integer	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json

#### Produces

- application/json
- application/xml

#### 4.57.13. Subnet Discovery Update

```
POST /discovery/handle_subnet_discovery_update
```

#### Description

This is an internal service call that the discovery engine invokes after a subnet is discovered as part of the router/subnet discovery. The TCPWave IPAM check if the subnet is already defined in IPAM and verifies if the discovered information matches with that of the provisioned information and generates alarms in cases of a mismatch.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< string > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3507: An error occurred during retrieval of discovered data.	No Content

#### Consumes

- application/json

#### Produces

- application/json
- application/xml

#### 4.57.14. Set Accept Status of Discovery Command

```
POST /discovery/setacceptstatus
```

#### Description

This service call takes a list of discovery command Ids and sets the status of each of these to "ACCEPTED". If the update discovery results global flag is set the TCPWave IPAM updates the objects in the database with the discovered information. If the object is not already present it is created, otherwise updated in the database.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>isExternalUser</b> <i>required</i>	External User	boolean	
Body	<b>body</b> <i>optional</i>		< integer(int32) > array	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3501: Unable to retrieve the discovery commands list.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.57.15. Set Discard Status of Discovery Command

```
POST /discovery/setdiscardstatus
```

#### Description

This service call takes a list of discovery command IDs and set the status to discarded. The discovered information is deleted from the database and the discovery commands are removed from the list of commands displayed in the GUI.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of discovery command IDs	< integer(int32) > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3501: Unable to retrieve the discovery commands list.	No Content

#### Consumes

- application/json

#### 4.57.16. Updates Object discovery data

```
POST /discovery/updateObjectDiscoveryData
```

#### Description

Update Object Discovery Data with Switch name, Port and Duplex.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Object Discovery Data	<a href="#">Object Discovery Data</a>	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json

#### Produces

- application/json
- application/xml

### 4.58. Discovery Template Service

#### Description

This service provides API's to manage Discovery Templates in the TCPWave IPAM.

#### 4.58.1. Add Discovery Template

```
POST /discovery_template/add
```

#### Description

Creates a new Discovery Template that can be used during network or subnet discovery in TCPWave IPAM.

Below example shows sample request JSON:

```
{ "name": "discotemp", "organizationName": "QAOrg", "discoveryPreferences": "SNMP,NMAP,Reverse  
DNS,NetBios,Switch,VMWare", "maxSNMPReqRetries": "2", "snmpResTimeout": "2000", "revDNSLookupTimeout": "2000", "addNonConflictingObjects": false, "conflict  
For Manual Reconciliation", "description": "test" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Discovery Template Details	<a href="#">Discovery Template</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1020: Organization does not exist, TIMS-7003: You are not authorized to perform this operation, TIMS-5006: Template already exists: {Template Name}, TIMS-11057: Invalid router option specified.	No Content

#### Consumes

- application/json
- application/xml

#### 4.58.2. Delete Discovery Template

```
POST /discovery_template/delete
```

#### Description

Deletes the discovery template.

The example listed below shows a sample request URL:  
/discovery\_template/delete?name=discotemp1&org\_name=QAOrg

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Name	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain
- application/json

#### Produces

- application/json
- application/xml

#### 4.58.3. Discovery Template References

```
POST /discovery_template/deletereferences
```

#### Description

Provides the list of networks and subnets in the TCPWave IPAM which use specific Discovery Template.

The example listed below shows a sample request URL:

/discovery\_template/deletereferences?

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Template References To Be Deleted	<a href="#">Template References To Be Deleted</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-12004: Discovery Template Reference(s) not found.	No Content

#### Consumes

- application/json
- application/xml

#### 4.58.4. Get discovery template details

```
GET /discovery_template/details
```

#### Description

Fetches the details of a discovery template.

The example listed below shows a sample request URL:

/rest/discovery\_template/details?org\_name=Internal&name=templateName

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Name	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Discovery Template</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml



#### 4.58.5. Update Discovery Template

```
POST /discovery_template/edit
```

##### Description

Updates an existing Discovery Template that can be used during network and subnet discovery in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "oldName": "discotemp", "name": "discotemp1", "organizationName": "QAOrg", "discoveryPreferences": "SNMP,NMAP,Reverse DNS,NetBios,Switch,VMWare", "maxSNMPReqRetries": "2", "snmpResTimeout": "2000", "revDNSLookupTimeout": "2000", "addNonConflictingObjects": false, "conflictResolution": "Manual Reconciliation", "description": "test" }
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Discovery Template	<a href="#">Discovery Template</a>	

##### Responses

HTTP Code	Description	Schema
500	TIMS-1020: Organization does not exist, TIMS-7003: You are not authorized to perform this operation, TIMS-5006: Template already exists: {Template Name}, TIMS-11057: Invalid router option specified.	No Content

##### Consumes

- application/json
- application/xml

#### 4.58.6. Get discovery template details by network or subnet address

```
GET /discovery_template/getdiscoverypreferences
```

##### Description

Fetches the details of discovery template associated with network or subnet.

The example listed below shows a sample request URL:

```
/rest/discovery_template/getdiscoverypreferences?org_name=Internal&address=1.0.0.&type=
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Address	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>type</b> <i>required</i>	Type	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Discovery Template</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.58.7. Discovery Template References

```
GET /discovery_template/getreferences
```

##### Description

Provides the list of networks and subnets in the TCPWave IPAM which use specific Discovery Template.

The example listed below shows a sample request URL:

```
/discovery_template/getreferences?template_name=templateNameValue&organization_name=QAOrg
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>template_name</b> <i>required</i>	Discovery Template Name	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	< string, < string > array > map
500	TIMS-12004: Discovery Template Reference(s) not found.	No Content

## Consumes

- application/json
- application/xml

### 4.58.8. Discovery Template List

```
GET /discovery_template/list
```

## Description

Fetches the list of discovery templates.

The example listed below shows a sample request URL:

/rest/discovery\_template/list?organizations=Internal

## Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organizations	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Discovery Template</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

## Consumes

- text/plain

## Produces

- application/json
- application/xml

### 4.58.9. Discovery Template List by Organization

```
GET /discovery_template/p_listbyorg
```

## Description

Obtains a list of all discovery templates that are associated to a specified Organization.

The example listed below shows a sample request URL:

/discovery\_template/p\_listbyorg?start=1&length=20&org\_name=QAOrg

## Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Ending Discovery Template Range	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sorting Order(asc/desc)	string	
Query	<b>org_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>q</b> <i>required</i>	Match Value	string	
Query	<b>sort</b> <i>optional</i>	Sorting String	string	
Query	<b>start</b> <i>required</i>	Starting Discovery Template Range	integer(int32)	

## Responses

HTTP Code	Description	Schema
-----------	-------------	--------

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListDiscoveryTemplate</a>
500	TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Organization does not exist:<Organization Name>	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

### 4.59. Domain Service

#### Description

This service provides API's to get list of Domains present in the TCPWave IPAM, add Domains, update Domains, delete Domains, search for a Domain in the TCPWave IPAM.

#### 4.59.1. Domain Add

POST /domain/add

#### Description

Creates a new Domain by checking if it overlaps with the existing Domain defined in the TCPWave IPAM. Functional Admin can create a new Domain for any organization. Rest of the admins can create a new Domain only for the organizations that they are associated with. Refer to the Administrator reference documentation for additional information about the Domain.

Below example shows sample request JSON:

```
{<strong>name</strong>:"qa.com","description":"Domain added using Rest API",<strong>organization_name</strong>:"QAOrganization"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Domain</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist: <Organization Name>, TIMS-7003: You are not authorized to perform this operation, TIMS-1300: Domain already exists: {Domain Name}, TIMS-1431: Cannot create a domain: <Domain Name> as there is a forward only zone already exists with this name.	No Content

#### Consumes

- `application/json`
- `application/xml`

#### 4.59.2. Domain List By Organization

GET /domain/adzonelistbyorg

#### Description

Obtains a list of all domains that are associated to a specified Organization.

The example listed below shows a sample request URL:

```
/rest/domain/adzonelistbyorg?start=1&length=20&org_name=Internal&zone_name=abc.com&q=matchValue
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>inSubnetEdit</b> <i>required</i>	In Subnet Edit	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>org_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	

Type	Name	Description	Schema	Default
Query	<b>q</b> <i>required</i>	Match Value	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Domain Range	integer(int32)	
Query	<b>zone_name</b> <i>required</i>	Zone Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListDomain</a>
500	TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Organization does not exist:<Organization Name>	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.59.3. Domain Details

```
GET /domain/get
```

#### Description

Gets the detail of the domain.

The example listed below shows a sample request URL:

```
/rest/domain/get?name=test.tcpwave.net&org_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>id</b> <i>optional</i>	Domain Id	integer(int32)	
Query	<b>name</b> <i>required</i>	Domain Name	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Domain</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.59.4. Domain List

```
GET /domain/hierarchy
```

#### Description

List all domains defined in the TCPWave IPAM. Functional Admin gets the list of all domains. Rest of the Admins get only the list of domains associated with the organization that they belong to.

The example listed below shows a sample request URL:

```
/rest/domain/hierarchy
```

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DomainNode</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- `text/plain`

#### Produces

- application/json
- application/xml

#### 4.59.5. Domain List

```
GET /domain/list
```

#### Description

List all domains defined in the TCPWave IPAM. Functional Admin gets the list of all domains. Rest of the Admins get only the list of domains associated with the organization that they belong to.

The example listed below shows a sample request URL:

```
/rest/domain/list?organizations=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization Names	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Domain</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.59.6. List the restricted domains in the organization.

```
GET /domain/listRestrictedDomains
```

#### Description

List the restricted domain(s) in the given organization in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/domain/listRestrictedDomains?orgName=Internal&name=domain.com
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>optional</i>	Domain Name	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Domain</a> > array
500	TIMS-7003: You are not authorized to perform this operation TIMS-1916: Organization name cannot be null. TIMS-1352: Organization does not exist: {0} TIMS-15044: Restricted domain {0} does not exist in the organization {1}.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.59.7. Domain List By Organization

```
GET /domain/listalldomainsbyorg
```

#### Description

Obtains a list of all domains that are associated to a specified Organization.

The example listed below shows a sample request URL:

```
/rest/domain/listalldomainsbyorg?page=1&org_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	

Type	Name	Description	Schema	Default
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>inSubnetEdit</b> <i>required</i>	In Subnet Edit	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>org_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>q</b> <i>required</i>	Match Value	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Domain Range	integer(int32)	
Query	<b>with_restricted</b> <i>optional</i>	With Restricted	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListDomain</a>
500	TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Organization does not exist:<Organization Name>	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.59.8. Domain List By Organization

```
GET /domain/listbyorg
```

#### Description

Obtains a list of all domains that are associated to a specified Organization.

The example listed below shows a sample request URL:

```
/rest/domain/listbyorg?page=1&org_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>inSubnetEdit</b> <i>required</i>	In Subnet Edit	string	
Query	<b>org_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>page</b> <i>required</i>	Total pages	integer(int32)	
Query	<b>q</b> <i>required</i>	Match Value	string	
Query	<b>rows</b> <i>required</i>		integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListDomain</a>
500	TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Organization does not exist:<Organization Name>	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.59.9. Domain Multidelete

POST /domain/multidelete

##### Description

Delete the current list of DNS domains in the TCPWave IPAM. All the Appliance, subnet and object associated with the current domain have to be removed before deleting the current domain. An active directory enabled domain cannot be deleted.

Below example shows sample request JSON:

```
[{"name":"updateqa.com","organization_name":"QAOrg"}]
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">Domain</a> > array	

##### Responses

HTTP Code	Description	Schema
500	TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Organization does not exist:<Organization Name>, TIMS-1422: TIMS-1422: Zone does not exist:<Zone Name>	No Content

##### Consumes

- application/json
- application/xml

#### 4.59.10. Domain List By Organization

GET /domain/p\_listbyorg

##### Description

Obtains a list of all domains that are associated to a specified Organization.

The example listed below shows a sample request URL:

```
/rest/domain/p_listbyorg?start=1&length=20
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>inSubnetEdit</b> <i>required</i>	In Subnet Edit	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>org_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>q</b> <i>required</i>	Match Value	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Domain Range	integer(int32)	
Query	<b>with_restricted</b> <i>optional</i>	With Restricted	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListDomain</a>
500	TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Organization does not exist:<Organization Name>	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.59.11. Reverse Zone List By Organization

GET /domain/p\_revzonelistbyorg

##### Description

Obtains a list of all Reverse Zones that are associated to a specified Organization.

The example listed below shows a sample request URL:

/rest/domain/p\_revzonelistbyorg?start=1&length=20&org\_name=Internal&inSubnetEdit=

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>inSubnetEdit</b> <i>required</i>	In Subnet Edit	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>org_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>q</b> <i>required</i>	Match Value	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Domain Range	integer(int32)	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListDomain</a>
500	TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Organization does not exist:<Organization Name>	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.59.12. Domain List

GET /domain/paged

##### Description

Provides a paginated list of Domains defined in the TCPWave IPAM. Functional Admin gets the list of all domains. Rest of the Admins get only the list of domains associated with the organization that they belong to.

Below example shows sample request url:

/tims/rest/domain/paged?start=1&length=20

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sorting Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization Names	string	



Type	Name	Description	Schema	Default
Query	<b>sort</b> <i>optional</i>	Sorting String	string	
Query	<b>start</b> <i>required</i>	Start Page Number	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListDomain</a>
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.59.13. Domain Search

```
GET /domain/search
```

#### Description

Provides the list of searched Domains on search screen in the TCPWave IPAM. Functional Admin gets the list of searched Domains for any organization. Rest of the Admins gets only the list of searched Domains associated with the organization that they belong to.

The example listed below shows a sample request URL:

```
/rest/domain/search?page=1&rows=20
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>required</i>	Organization List	string	
Query	<b>page</b> <i>optional</i>	Page Number	integer(int32)	
Query	<b>rows</b> <i>optional</i>	Number of rows	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListDomain</a>

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.59.14. List of Secondary domains

```
GET /domain/secondaryDomains
```

#### Description

Obtains a list of all secondary domains that are associated to a specified Subnet.

The example listed below shows a sample request URL:

```
/rest/domain/secondaryDomains?subnetAddress=10.1.10.0&organizationName=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizationName</b> <i>required</i>	Organization Name	string	
Query	<b>subnetAddress</b> <i>required</i>	Subnet Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Domain</a> > array
500	TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Organization does not exist:<Organization Name>	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.59.15. Domain Update

POST /domain/update

#### Description

Updates an existing domain in the TCPWave IPAM. Functional Admin can update a domain for any organization. Rest of the admins can update a domain only for the organizations that they are associated with.

Below example shows sample request JSON:

```
{<strong>organization_name</strong>:"QAOrganization",<strong>name</strong>:"qa.com",<strong>old_name</strong>:"qa.com","description":"Updated domain using Rest API"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Domain</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Organization does not exist:<Organization Name>, TIMS-1422: TIMS-1422: Zone does not exist:<Zone Name>, TIMS-1321: Domain does not exist: <Domain Name>, TIMS-7003: You are not authorized to perform this operation, TIMS-1300: Domain already exists: {Domain Name}, TIMS-1431: Cannot create a domain: <Domain Name> as there is a forward only zone already exists with this name.	No Content

#### Consumes

- application/json
- application/xml

#### 4.59.16. Enable/Disable Load Balance Domain

POST /domain/update/loadBalance/domain

#### Description

Updates an existing domain in the TCPWave IPAM. Functional Admin can update a domain for any organization. Rest of the admins can update a domain only for the organizations that they are associated with.

Below example shows sample request JSON:

```
/rest/domain/update/loadBalance/domain?name=tcpcwave.com&org_name=Internal&enable_gslb=true
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>enableLoadBalance</b> <i>optional</i>	Enable GSLB	boolean	
Query	<b>name</b> <i>required</i>	Domain Name	string	
Query	<b>org_name</b> <i>optional</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Organization does not exist:<Organization Name>, TIMS-1422: TIMS-1422: Zone does not exist:<Zone Name>, TIMS-1321: Domain does not exist: <Domain Name>, TIMS-7003: You are not authorized to perform this operation, TIMS-1300: Domain already exists: {Domain Name}, TIMS-1431: Cannot create a domain: <Domain Name> as there is a forward only zone already exists with this name.	No Content

#### Consumes

- application/json
- application/xml

#### 4.60. Dropdown Service

#### Description

This service provides a dropdown list functionality on UI interface for the TCPWave IPAM.

#### 4.60.1. GET /dropdown/selectValueByID

#### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Query	fieldValue <i>required</i>		integer(int32)	
Query	tableName <i>required</i>		string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Dropdown Details</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

## 4.61. Export Compliance Management Service

### Description

This service provides API's to get list of Office Of Foreign Assets Control (OFAC) Prohibited Countries present in the TCPWave IPAM, User can add country code top-level domain(ccTLD), add Office Of Foreign Assets Control (OFAC) Prohibited Country name and description. User can delete single or multiple records(ccTLDs, OFac name) from the grid in the TCPWave IPAM.

#### 4.61.1. Domain Add

```
POST /exportComplianceMgmt/add
```

### Description

Creates a new ccTLD by checking if it overlaps with the existing ccTLD defined in the TCPWave IPAM. Functional Admin can add a new ccTLD for any country. Refer to the Administrator reference documentation for additional information about the OFAC Countries .

Below example shows sample request JSON:  
 '{"countryname":"North Korea","cctld":"nk"}'

### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		<a href="#">OFAC Country</a>	

### Responses

HTTP Code	Description	Schema
500	TIMS-1352: TIMS-7003: You are not authorized to perform this operation, TIMS-12090: This ccTLD is already exist.	No Content

### Consumes

- application/json
- application/xml

#### 4.61.2. ccTLD Multidelete

```
POST /exportComplianceMgmt/multidelete
```

### Description

Delete the current list of ccTLDs in the TCPWave IPAM.

Below example shows sample request JSON:  
 '{"countryname":"North Korea","cctld":"nk"}'

### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		< <a href="#">OFAC Country</a> > array	

### Responses

HTTP Code	Description	Schema
500		No Content

### Consumes

- application/json
- application/xml

#### 4.61.3. OFAC Country name and ccTLDs List

```
GET /exportComplianceMgmt/ofaccountriesgridlist
```

#### Description

Obtains a list of existing ccTLDs for auditing purposes.  
The example listed below shows a sample request URL:  
`/rest/exportComplianceMgmt/ofacountriesgridlist`

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">OFAC Country</a> > array
500		No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

### 4.62. Export Service

#### Description

This service provides facility to export data in CSV or PDF format from TCPWave IPAM.

#### 4.62.1. Supported Export Types

```
GET /export/supported_types
```

#### Description

Supported export entity types from the TCPWave IPAM such as Admin Group, Permission, ACL, DHCP Appliance etc.  
The example listed below shows a sample request URL:  
`/rest/export/supported_types`

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Import Type Information</a> > array

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.62.2. Export

```
POST /export/{type}
```

#### Description

Export data from TCPWave IPAM into CSV files.  
The example listed below shows a sample request URL:  
`/rest/export/{type}?organization=Internal`

#### Parameters

Type	Name	Description	Schema	Default
Path	<b>type</b> <i>required</i>	Required File type to export	string	
Query	<b>adminname</b> <i>optional</i>	Admin Name	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	
Body	<b>body</b> <i>optional</i>		string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Export Response Information</a>

#### Consumes

- `application/json`

#### Produces

- `application/json`

- application/xml

## 4.63. File Distribution Management Service

### Description

This service provides APIs to add, edit, delete and get list of file sets managed by TCPWave IPAM.

#### 4.63.1. Create FileSet

POST /fileset/add

### Description

Creates a new Fileset containing set of folders and files with list of DHCP appliances present in a particular organization, please consult the product documentation.

Below example shows sample request JSON:

```
{
  "name": "FilesetTest",
  "protocol": "TFTP",
  "organization_name": "Internal",
  "description": "Test purpose only",
  "filesetData": [
    {
      "description": "new folder",
      "isFolder": "true",
      "name": "Folder1",
      "parent_name": "",
      "path": "null"
    },
    {
      "description": "new folder2",
      "isFolder": "true",
      "name": "Folder2",
      "parent_name": "Folder1",
      "path": "Folder1"
    }
  ],
  "content": "FilesetTest_Internal/Folder1/Folder2/File.txt",
  "description": "file",
  "isFolder": "false",
  "name": "File.txt",
  "parent_name": "Folder1/Folder2",
  "path": "Folder1/Folder2/"
},
{
  "filesetappliances": [
    {
      "applianceType": "DHCP",
      "applianceIp": "10.16.0.7",
      "applianceName": "QA-SDNS-FDHCP-001"
    }
  ]
}
```

### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		<a href="#">File Set</a>	

### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

### Consumes

- application/json
- application/xml

### Produces

- application/json
- application/xml

#### 4.63.2. Delete File Set

GET /fileset/delete

### Description

Deletes selected file set present in the TCPWave IPAM. Functional Admins can delete a file set in any organization. Super Admins can delete the file set that belongs to the organization they are assigned to.

The example listed below shows a sample request URL:

/rest/fileset/delete?organization=Internal&name=filesetName

### Parameters

Type	Name	Description	Schema	Default
Query	name <i>optional</i>	File Set Name	string	
Query	organization <i>required</i>	Organization Name	string	

### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

### Consumes

- text/plain

### Produces

- application/json
- application/xml

#### 4.63.3. Delete Folder

POST /fileset/deletefolder

### Description

Deletes Folder.

The example listed below shows a sample request URL:

/rest/fileset/deletefolder?fileset\_name=Test&org\_name=Internal

### Parameters

Type	Name	Description	Schema	Default
Query	<b>fileset_name</b> <i>optional</i>		string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
<b>default</b>	successful operation	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

#### 4.63.4. Edit FileSet

POST /fileset/edit

#### Description

Updates an existing file set in the TCPWave IPAM. Functional Admins can edit file sets in any organization.

Below example shows sample request JSON:

```
{
  "name": "FilesetTest",
  "protocol": "TFTP",
  "organization_name": "Internal",
  "description": "Test purpose only",
  "filesetData": [
    {
      "description": "new folder",
      "isFolder": "true",
      "name": "Folder1",
      "parent_name": "",
      "path": "null"
    },
    {
      "description": "new folder2",
      "isFolder": "true",
      "name": "Folder2",
      "parent_name": "Folder1",
      "path": "Folder1"
    }
  ],
  "content": "FilesetTest_Internal/Folder1/Folder2/File.txt",
  "description": "file",
  "isFolder": "false",
  "name": "+File.txt",
  "parent_name": "Folder1/Folder2",
  "path": "Folder1/Folder2/"
},
{
  "filesetappliances": [
    {
      "applianceType": "DHCP",
      "applianceIp": "10.16.0.7",
      "applianceName": "QA-SDNS-FDHCP-001"
    }
  ]
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">File Set</a>	

#### Responses

HTTP Code	Description	Schema
<b>500</b>	TIMS 1955: A file set with the given name already exists.	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

#### 4.63.5. Details of FileSet

GET /fileset/get

#### Description

Retrieves the details of a FileSet in the TCPWave IPAM.

Below example shows the sample request URL:

/rest/fileset/get?name=Test&organization=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>optional</i>	FileSet Name	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
<b>200</b>	successful operation	<a href="#">File Set</a>
<b>500</b>	1950 = TIMS-1950: File Set cannot be null.	No Content

#### Consumes

- `text/plain`

- application/json
- application/xml

#### 4.63.6. Get File Set List

```
GET /fileset/list
```

##### Description

Provides a list of file sets present in the TCPWave IPAM.

Below example shows the sample request URL:

```
/rest/fileset/list?draw=2&start=0&length=20&sort=name&order=asc&organizations=Internal
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>required</i>	Organizations	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting File Set Range	integer(int32)	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListFile Set</a>

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.63.7. Primary DHCP Appliance List

```
GET /fileset/primary-servers-list
```

##### Description

Obtains a list of available primary DHCP Appliances defined and managed by the TCPWave IPAM.

Below example shows the sample request URL:

```
/rest/fileset/primary-servers-list?org_name=Internal
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_name</b> <i>required</i>	Required Organization Name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Server Information</a> > array

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.63.8. FileSet Sync Operation

```
POST /fileset/sync
```

##### Description

Generates Adhoc IPv4 DHCP Configuration and syncs the servers with the latest configuration.

Below example shows sample request JSON:

```
{"name": "FilesetTest", "organization_name": "Earth"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">File Set</a> > array	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

### 4.64. File Upload Service

#### Description

This service provides facility to upload a CSV file from specified location in the TCPWave IPAM.

#### 4.64.1. Binary Upload

```
POST /files/binaryupload/{file_name}
```

#### Description

Uploads Binary File.

The example listed below shows a sample request URL:

```
/rest/files/binaryupload/{file_name}
```

#### Parameters

Type	Name	Description	Schema	Default
Path	<b>file_name</b> <i>required</i>	File Name	string	
Body	<b>body</b> <i>optional</i>		string	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- multipart/form-data

#### 4.64.2. Upload File

```
POST /files/upload/{file_name}
```

#### Description

Uploads a new File from specified location into the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/files/upload/{file_name}
```

#### Parameters

Type	Name	Description	Schema	Default
Path	<b>file_name</b> <i>required</i>	File Name	string	
Body	<b>body</b> <i>optional</i>		string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-8228: The file type is not valid.	No Content

#### Consumes

- text/plain

### 4.65. Firewall Service

#### Description



This service provides the API to manage stateful firewall template definitions in the TCPWave IPAM.

#### 4.65.1. Add Firewall Template

```
POST /firewall/template/add
```

##### Description

Creates a new firewall template which has a user defined set of rules in the TCPWave IPAM. These rules are applied to DNS Appliances managed by TCPWave IPAM.

Below example shows sample request JSON:

```
{ "name": "trem1", "organization_name": "QAOrg", "description": "tertse", "rules":  
[{"name": "ret", "action": "ACCEPT", "chain": "INPUT", "protocol": "all", "source": "", "invertSource": true, "sourcePort": "", "invertSourcePort": false, "destination": "", "invertDestination": false},  
{"name": "etrr", "action": "LOG", "chain": "INPUT", "protocol": "all", "source": "", "invertSource": true, "sourcePort": "", "invertSourcePort": false, "destination": "", "invertDestination": false}]
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Firewall template details	<a href="#">Firewall Template</a>	

##### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json

#### 4.65.2. Firewall Template List associated with the DNS Appliances

```
GET /firewall/template/assoc/list
```

##### Description

Displays the list of Firewall Templates that are associated with the DNS servers managed by the TCPWave IPAM.

Below example shows the sample request URL:

```
/rest/firewall/template/assoc/list?
```

```
org_name=Internal&address=firewallTemplateAddress&template_name=firewallTemplateNameValue
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Firewall Template Address	string	
Query	<b>org_name</b> <i>required</i>	organization name associated with Firewall Template	string	
Query	<b>template_name</b> <i>required</i>	Firewall Template Name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Firewall Template Association</a> > array
500	TIMS-1021: Organization name is not valid, TIMS-7003: You are not authorized to perform this operation.	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.65.3. Modify Firewall Template

```
POST /firewall/template/assoc/update
```

##### Description

Updates Firewall Template Association that are associated with the DNS Appliances managed by the TCPWave IPAM.

Below example shows the sample request URL:

```
/rest/firewall/template/assoc/update?address=firewallTemplateAddress&template_name=firewallTemplateNameValue
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Firewall Template Address	string	

Type	Name	Description	Schema	Default
Query	<b>template_name</b> <i>required</i>	Firewall Template Name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-4302: Server and Template do not belong to the same Organization, TIMS-4301: Appliance does not exist.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json

#### 4.65.4. Firewall Template Delete

```
POST /firewall/template/delete
```

#### Description

Deletes the specified firewall template in the TCPWave IPAM . This action is audited.

Below example shows sample request JSON:

```
{ "name": "trem2" }
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Firewall Template Name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-5020: Template does not exist, TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json

#### 4.65.5. Firewall Template List

```
GET /firewall/template/get
```

#### Description

Lists all the Firewall Templates defined in the TCPWave IPAM. A firewall has a set of rules which are applied to DNS Servers managed by the TCPWave IPAM. DNS Firewall prevents connected devices from becoming infected with malware and blocks their activity by enabling recursive DNS Appliances to stop or redirect queries from clients that want to access domains and/or IPs known to be malicious.

The example listed below shows a sample request URL parameters:

```
/rest/firewall/template/get?name=trem&org_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>for_select</b> <i>optional</i>	Indicates if the firewall template list is to display in the dropdown in UI	boolean	
Query	<b>name</b> <i>required</i>	template name associated with Firewall Template	string	
Query	<b>org_name</b> <i>required</i>	organization name associated with Firewall Template	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Firewall Template</a>
500	TIMS-1352: Organization does not exist.	No Content

#### Consumes

- text/plain

#### Produces

- application/json

- application/xml

#### 4.65.6. Firewall Template List

GET /firewall/template/list

##### Description

Lists all the Firewall Templates defined in the TCPWave IPAM. A firewall has a set of rules which are applied to DNS Servers managed by the TCPWave IPAM. DNS Firewall prevents connected devices from becoming infected with malware and blocks their activity by enabling recursive DNS Appliances to stop or redirect queries from clients that want to access domains and/or IPs known to be malicious.

Below example shows the sample request URL:

/rest/firewall/template/list?organizations=Internal

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>for_select</b> <i>optional</i>	Indicates if the firewall template list is to display in the dropdown in UI	boolean	
Query	<b>organizations</b> <i>optional</i>	organizations	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Firewall Template</a> > array
500	TIMS-1352: Organization does not exist.	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.65.7. Firewall Template Edit

POST /firewall/template/modify

##### Description

Updates the firewall template configuration in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "name": "trem1", "description": "testing", "new_name": "trem2", "rules":
```

```
[ { "name": "rule1", "action": "ACCEPT", "chain": "FORWARD", "protocol": "all", "source": "", "invertSource": true, "sourcePort": "", "invertSourcePort": false, "destination": "", "invertDestination": false, "destinationPort": "2"}, { "name": "rule2", "action": "LOG", "chain": "INPUT", "protocol": "all", "invertProtocol": false, "source": "", "invertSource": true, "destination": "", "invertDestination": false, "sourcePort": "", "invertSourcePort": false, "destinationPort": "2" } ] }
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Firewall template details	<a href="#">Firewall Template</a>	

##### Responses

HTTP Code	Description	Schema
500	TIMS-5001: Template already exists, TIMS-5002: Template name already exists in DNS Option Templates, TIMS-7003: You are not authorized to perform this operation.	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json

#### 4.66. Firmware Patch Service

##### Description

This service provides API's to upload a patch and get list of Firmware patches present in the TCPWave IPAM.

##### 4.66.1. Delete Patch

POST /ospatch/delete

##### Description

Deletes a patch file managed by the TCPWave IPAM. For additional information about the cache only DNS Appliances and the configuration of the forwarders, please refer to the product documentation.

The example listed below shows a sample request URL:

/rest/ospatch/delete?patch\_name=test.exe

Below example shows sample request JSON:

```
[{"patch_id":"21","patch_name":"test.exe"}]
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>patch_id</b> <i>optional</i>		integer(int32)	
Query	<b>patch_name</b> <i>required</i>	patch name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1425: Both Appliance id and Appliance IP address cannot be null, TIMS-1426:DNS Internal Cache Appliance does not exist.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.66.2. Deploy a Firmware Patch

```
GET /ospatch/deploy
```

#### Description

Deploys a Firmware patch on the given remote.

The example listed below shows a sample request URL:

```
/rest/ospatch/deploy?patchName=test.exe&appliances=1.0.0.2&server_type=DNS
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>appliances</b> <i>required</i>	Appliances IP Addresses	string	
Query	<b>patchName</b> <i>required</i>	Patch Name	string	
Query	<b>server_type</b> <i>required</i>	Appliances Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

#### 4.66.3. Firmware Patch List

```
GET /ospatch/list
```

#### Description

Provides a list of Firmware patches uploaded in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/ospatch/list
```

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">OSPatch</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.66.4. Firmware Patch List

GET /ospatch/serverpatchinfo

##### Description

Provides a list of Firmware patches uploaded in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/ospatch/serverpatchinfo?patch\_name=test.exe

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>patch_name</b> <i>required</i>	patch name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">OSPatchStatus</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.66.5. Patch Upload

POST /ospatch/upload

##### Description

Uploads a new Firmware patch by checking if it overlaps with the existing Firmware patch defined in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "patchName": "DB_patch1", "patchType": "dellhardware", "patchSize": 1000, "patchChecksum": 1, "patchFolderPath": "/tmp/patches", "patchLevel": "string", "patchVersion": "string" }
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Firmware patch details	<a href="#">OSPatch</a>	

##### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation, TIMS-14024: Firmware patch cannot be uploaded as there is already a patch exists with same Name: {0}, Type: {1}, Size: {2} and Checksum: {3}	No Content

##### Consumes

- application/json
- application/xml

### 4.67. Function Service

##### Description

This service provides API's to add, edit, delete and get functions in the TCPWave IPAM.

#### 4.67.1. Granular Function List

GET /function/granularFunctionList

##### Description

Get granular function list

The example listed below shows a sample request URL:

/rest/function/granularFunctionList?level=1&id=adminGroupId&role=SADM/FADM/NADM/UADM

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>id</b> <i>required</i>	Admin/Admin group ID	integer(int32)	
Query	<b>level</b> <i>required</i>	Level	string	

Type	Name	Description	Schema	Default
Query	<b>role</b> <i>required</i>	Admin Role	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Function</a> > array

#### Consumes

- application/json
- text/plain

#### Produces

- application/json
- application/xml

#### 4.67.2. Function List

```
GET /function/list
```

#### Description

Get the list of all the granular and non-granular functions defined in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/function/list?start=1&length=20
```

#### Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>	Session token for authorization	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Function Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListFunction</a>
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.68. GSLB Traffic Control RuleSet Service

#### 4.68.1. GSLB Traffic Control rules add

```
POST /gslbTrafficRules/add
```

#### Description

Creates GSLB Traffic Control rules in TCPWave IPAM.

Below example shows sample request JSON:

```
{ "organization_name": "Internal", "name": "Test", "description": "" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">GSLBTrafficControlRules</a>	

## Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

## Consumes

- application/json
- application/xml

### 4.68.2. Delete SLB Front-End bind properties

```
POST /gslbTrafficRules/delete
```

## Description

Checks the SLB Front-End bind properties by performing referential integrity checks and deletes the templates that are not associated with any SLB appliance.

Below example shows sample request JSON:

```
{ "id": "21", "name": "Test1", "organization_name": "Internal", "rule_count": "1", "gslbTrafficControlRuleList":
```

```
[], "created_by_login_name": "twcadm", "updated_by_login_name": "twcadm", "created_by": "22321", "updated_by": "22321", "created_time": "1674774449000", "updated_time": "1674774449000" }
```

## Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of GSLB Traffic Control rule details	< <a href="#">GSLBTrafficControlRules</a> > array	

## Responses

HTTP Code	Description	Schema
500	TIMS-1352: Cannot find organization: <organization name>, TIMS-7003: You are not authorized to perform this operation, TIMS-5020: Template does not exist: <Template Name>, TIMS-5012: Default template cannot be deleted: <Template Name>, TIMS-5015: Template delete failed as one or more Appliances are using this template, TIMS-5016: Template delete failed as one or more zones are using this template, TIMS-5017: Template delete failed as one or more subnets are using this template, TIMS-5018: Template delete failed as one or more scopes are using this template, TIMS-5019: Template delete failed as one or more DHCP objects are using this template.	No Content

## Consumes

- application/json
- application/xml

## Produces

- application/json
- application/xml

### 4.68.3. GSLB Traffic Control rule update

```
POST /gslbTrafficRules/edit
```

## Description

Updates GSLB Traffic Control rule in TCPWave IPAM.

Below example shows sample request JSON:

```
{ "organization_name": "Internal", "name": "Test1", "description": "", "id": "21", "old_name": "Test" }
```

## Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">GSLBTrafficControlRules</a>	

## Responses

HTTP Code	Description	Schema
500	TIMS-4401: SLB ACL rule already exists with same name.	No Content

## Consumes

- application/json
- application/xml

## Produces

- application/json
- application/xml

### 4.68.4. GSLB Traffic Control rules

```
GET /gslbTrafficRules/get
```

## Description

Get the GSLB Traffic Control rule.

The example listed below shows a sample request URL:  
/rest/gslbTrafficRules/get?name=Test1&organization\_name=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	GSLB Traffic Control rule	string	
Query	<b>organization_name</b> <i>required</i>	Organization	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">GSLBTrafficControlRules</a>
500	TIMS-4500: SLB Appliance Template does not exist with name:{1} in {2} organization.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.68.5. Zone Scope List

```
GET /gslbTrafficRules/getAssociatedList
```

#### Description

Gets the list of the zone scopes.

The example listed below shows a sample request URL:

/rest/gslbTrafficRules/getAssociatedList?name=sampleAmerica&organization\_name=Internal&type=SLB

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Name	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>type</b> <i>required</i>	Association Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">GSLBTrafficControlRules</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.68.6. SLB SSL File Properties

```
GET /gslbTrafficRules/getfiledata
```

#### Description

Get the SSL File properties.

The example listed below shows a sample request URL:

/rest/gslbTrafficRules/getfiledata?rule\_name=GT\_RULE-2&getfiledata=Test1&organization\_name=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>acl_name</b> <i>required</i>	GSLB Traffic Control Name	string	
Query	<b>frontend_ssl_file</b> <i>required</i>	GSLB Traffic Control SSL File	string	



Type	Name	Description	Schema	Default
Query	<b>organization_name</b> <i>required</i>	Organization	string	
Query	<b>rule_name</b> <i>required</i>	SLB Rule Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-4500: SLB Appliance Template does not exist with name:{1} in {2} organization.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.68.7. GSLB Traffic Control Element add

```
POST /gslbTrafficRules/gtRule/add
```

#### Description

Creates GSLB Traffic Control Element in TCPWave IPAM.

Below example shows sample request JSON:

```
{ "name": "Test1", "organization_name": "Internal", "ruleName": "GTC_RULE", "ruleType": "subnet", "ruleValue": "IP Address/Mask", "matchValue": "10.1.0.0/16", "destinationType": "frontend", "ruleDescription": "", "frontEndName": "FRONTEND@_" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">GSLBTrafficControlRules</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### 4.68.8. Delete SLB Front-End bind properties

```
POST /gslbTrafficRules/gtRule/delete
```

#### Description

Checks the SLB Front-End bind properties by performing referential integrity checks and deletes the templates that are not associated with any SLB appliance.

Below example shows sample request JSON:

```
[{"id": "61", "name": "Test1", "organization_name": "Internal", "description": null, "destinationType": "frontend", "ruleName": "GTC_RULE-2", "ruleType": "subnet", "ruleValue": "IP Address/Mask", "matchValue": "10.1.0.0/16", "frontEndName": "FRONTEND@0"}]
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>aclName</b> <i>required</i>	GSLB Traffic Control name	string	
Query	<b>organization_name</b> <i>optional</i>	Organization name	string	
Body	<b>body</b> <i>required</i>	List of GSLB Traffic Control rule details	< <a href="#">GSLBTrafficControlRules</a> > array	

#### Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
500	TIMS-1352: Cannot find organization: <organization name>, TIMS-7003: You are not authorized to perform this operation, TIMS-5020: Template does not exist:<Template Name>, TIMS-5012: Default template cannot be deleted: <Template Name>, TIMS-5015: Template delete failed as one or more Appliances are using this template, TIMS-5016: Template delete failed as one or more zones are using this template, TIMS-5017: Template delete failed as one or more subnets are using this template, TIMS-5018: Template delete failed as one or more scopes are using this template, TIMS-5019: Template delete failed as one or more DHCP objects are using this template.	No Content

#### Consumes

- application/json
- application/xml

#### 4.68.9. GSLB Traffic Control rule update

```
POST /gslbTrafficRules/gtRule/edit
```

#### Description

Updates GSLB Traffic Control rule in TCPWave IPAM.

Below example shows sample request JSON:

```
{ "name": "Test1", "organization_name": "Internal", "ruleName": "GTC_RULE-2", "ruleType": "subnet", "ruleValue": "IP Address/Mask", "matchValue": "10.1.0.0/16", "destinationType": "frontend", "ruleDescription": "", "frontEndName": "FRONTEND@.", "oldRuleName": "GTC_RULE" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		<a href="#">GSLBTrafficControlRules</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-4401: SLB ACL rule already exists with same name.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.68.10. GSLB Traffic Control rules

```
GET /gslbTrafficRules/gtRule/get
```

#### Description

Get the GSLB Traffic Control rule.

The example listed below shows a sample request URL:

```
/rest/gslbTrafficRules/gtRule/get?name=GT_RULE-2&rule=Test1&organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	name <i>required</i>	GSLB Traffic Control rule	string	
Query	organization_name <i>required</i>	Organization	string	
Query	rule <i>required</i>	GSLB Traffic Control element	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">GSLBTrafficControlRules</a>
500	TIMS-4500: SLB Appliance Template does not exist with name:{1} in {2} organization.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.68.11. GSLB Traffic Control rules paginated list

### Description

Obtains a list of all the GSLB Traffic Control rules information defined and managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/gslbTrafficRules/gtRule/page?start=1&length=20&organization\_name=Internal&ruleName=GTC\_RULE

### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organization_name</b> <i>optional</i>	Organization Name	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>ruleName</b> <i>optional</i>	GSLB Traffic Rule Name	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Range	integer(int32)	

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListGSLBTrafficControlRules</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

### Consumes

- text/plain

### Produces

- application/json
- application/xml

### 4.68.12. GSLB Traffic Control Rules List By Organization

```
GET /gslbTrafficRules/listbyorg
```

### Description

Gets the list of the GSLB Traffic Control Rules.

The example listed below shows a sample request URL:

/rest/gslbTrafficRules/listbyorg?organization\_name=Internal

### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">GSLBTrafficControlRules</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

### Consumes

- text/plain

### Produces

- application/json
- application/xml

### 4.68.13. GSLB Traffic Control rules paginated list

```
GET /gslbTrafficRules/page
```

#### Description

Obtains a list of all the GSLB Traffic Control rules information defined and managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/gslbTrafficRules/page?start=1&length=20&organizations=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization list	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListGSLBTrafficControlRules</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.68.14. ADC ACL Rule Search

```
GET /gslbTrafficRules/search
```

#### Description

Searches for a given ADC ACL Rule in the TCPWave IPAM based on a full text input.

The example listed below shows a sample request URL:

/rest/slbACLRule/search?start=1&length=20&organizations=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>required</i>	Organization List	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting ADC ACL Rule Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListGSLBTrafficControlRules</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.69. Global Options Service

#### Description

This service class provides Global Options related operation in the TCPWave IPAM such as list all Global Policies, Update Global Policy etc.

#### 4.69.1. Get Global Option

```
GET /globals/getGlobalOption
```

#### Description

Provides specified Global Option details in the TCPWave IPAM. These policies control the behavior of the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/globals/getGlobalOption?option_name=globalOptionName
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>option_name</b> <i>required</i>	Global option name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-4102: Global Option name is null.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- text/plain

#### 4.69.2. Global Policies List

```
GET /globals/list
```

#### Description

Obtains a list of all the Global policies defined and managed by TCPWave IPAM. These policies control the behavior of the TCPWave IPAM.

Below example shows the sample request URL:

```
/rest/globals/list
```

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Global Options List</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.69.3. Update Global Policies

```
POST /globals/update
```

#### Description

Updates the value of a global policy in the TCPWave IPAM. Only Functional Admin has the privileges to update a global policy. Rest of the admins will get permission error.

Below example shows the sample request JSON:

```
{ "pid":4217,"pName":"ENABLE_DNS_VIEWS","pValue":"No","pCat":"DNS","pType":"BOOLEAN" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Global option details	<a href="#">Global Policy Management(GPM)</a>	

#### Responses

HTTP Code	Description	Schema
-----------	-------------	--------

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7003: You are not authorized to perform this operation, TIMS-4100: No Global Option exist by name : '<global policy name>.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

#### 4.69.4. Update Global Policies

POST /globals/updatefadmaccess

#### Description

Enable FADM access in the TCPWave IPAM. Only UADM Admin has the privileges to update the FADM access.

Below example shows the sample request JSON:

/rest/globals/updatefadmaccess?option=Yes

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>option</b> <i>required</i>	Option Value	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

### 4.70. Hierarchy Service

#### Description

This service provides the API to manage Network Hierarchy in the TCPWave IPAM.

#### 4.70.1. Delete Address Block

POST /hierarchy/address\_block/delete

#### Description

Deletes an existing address block.

The example listed below shows a sample request URL:

/rest/hierarchy/address\_block/delete?org\_name=Internal

Below example shows sample request JSON:

"{"parentSpace":"Address\_block1","address":"10.0.1.0","mask":"24"}"

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_name</b> <i>required</i>	organization name associated with the address block	string	
Query	<b>preserve_child</b> <i>optional</i>	Specifies if the child nodes should be moved to the parent block	boolean	
Body	<b>body</b> <i>required</i>	Address block details	<a href="#">AddressBlock</a>	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json

#### 4.70.2. List of Address Blocks

```
GET /hierarchy/address_block/list
```

#### Description

Returns the list of address blocks.

The example listed below shows a sample request URL:  
/rest/hierarchy/address\_block/list?organizations=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organizations	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">AddressBlock</a> > array

#### Consumes

- text/plain

#### Produces

- application/json

#### 4.70.3. Address Block Network List

```
GET /hierarchy/address_block/network/list
```

#### Description

Gets the networks within the range of specified address block.

The example listed below shows a sample request URL:  
/rest/hierarchy/address\_block/network/list?organization=Internal&space=Internal-Space&address=192.168.0.0&mask=24

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Block Address	string	
Query	<b>mask</b> <i>required</i>	Mask	integer(int32)	
Query	<b>organization</b> <i>required</i>	Organization	string	
Query	<b>space</b> <i>required</i>	Address Space	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Network Information</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.70.4. Add Address Space

```
POST /hierarchy/address_space/add
```

#### Description

Creates a new address space.

Below example shows sample request JSON:

```
"{"orgName": "Internal", "name": "Address_block1", "contact": "", "registry": "", "description": ""}"
```

#### Parameters

Type	Name	Description	Schema	Default

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Address Space</a>	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`

#### 4.70.5. Delete Address Space

```
POST /hierarchy/address_space/delete
```

#### Description

Deletes an existing address space.

Below example shows sample request JSON:

```
"{"orgName":"Internal","name":"Address_block1"}"
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Address Space</a>	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`

#### 4.70.6. List of Address Spaces

```
GET /hierarchy/address_space/list
```

#### Description

Returns the list of address spaces.

The example listed below shows a sample request URL:

```
/rest/hierarchy/address_space/list?organizations=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	organizations	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Address Space</a> > array

#### Produces

- `application/json`

#### 4.70.7. Update Address Space

```
POST /hierarchy/address_space/update
```

#### Description

Updates an existing address space.

The example listed below shows a sample request URL:

```
/rest/hierarchy/address_space/update?name=test
```

Below example shows sample request JSON:

```
"{"orgName":"Internal","name":"Address_block1","contact":"test@gmail.com","registry":"AFRNIC&#34;,&#x22;description&quot;:"testing!"}"
```

#### Parameters



Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	name of the existing address space	string	
Body	<b>body</b> <i>optional</i>		<a href="#">Address Space</a>	

#### Responses

HTTP Code	Description	Schema
<b>default</b>	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json

#### 4.70.8. Add Blocks for selected networks

POST /hierarchy/autoCreateBlocks

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of networks	< < string, string > map > array	

#### Responses

HTTP Code	Description	Schema
<b>default</b>	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json

#### 4.70.9. List of Networks at the given node

GET /hierarchy/block/bnlist

#### Description

Returns the list of networks that are at the given node level.

The example listed below shows a sample request URL:

/rest/hierarchy/block/bnlist?org\_name=Internal&space=Internal-Space&address=192.168.0.0

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Address of the block	string	
Query	<b>isV6</b> <i>optional</i>	Is V6 Block	boolean	
Query	<b>organization</b> <i>required</i>	Organization name associated with the block	string	
Query	<b>space</b> <i>required</i>	Address space name associated with the block	string	

#### Responses

HTTP Code	Description	Schema
<b>200</b>	successful operation	< <a href="#">BlocksAndNetworks</a> > array

#### Consumes

- text/plain

#### Produces

- application/json

#### 4.70.10. Add Child Block

POST /hierarchy/child\_block/add

#### Description

Creates a new child block./rest/hierarchy/child\_block/add?org\_name=Internal

Below example shows sample request JSON:

```
{}
{"parent":"10.0.1.0/24","address":"10.0.1.0","name":"testChild","description":"","mask":"30","parentSpace":"Address_block1"}
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>adjust_hierarchy</b> <i>optional</i>	Specifies if the hierarchy should be adjusted for conflicting child nodes	boolean	
Query	<b>org_name</b> <i>required</i>	organization name associated with the address block	string	
Body	<b>body</b> <i>required</i>	Address block details	<a href="#">AddressBlock</a>	

#### Responses

HTTP Code	Description	Schema
<b>default</b>	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json

#### 4.70.11. Add Multiple Child Blocks

```
POST /hierarchy/child_block/add_multi
```

#### Description

Creates a new child blocks./rest/hierarchy/child\_block/add\_multi?org\_name=Internal

Below example shows sample request JSON:

```
{"name":"test","description":"test
description","address":"string","mask":0,"parentFullAddress":"10.1.10.0","start":0,"end":0,"isV6":true,"childBlocks":
[null],"parentSpace":"Internal Space"}
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>adjust_hierarchy</b> <i>optional</i>	Specifies if the hierarchy should be adjusted for conflicting child nodes	boolean	
Query	<b>org_name</b> <i>required</i>	organization name associated with the address block	string	
Body	<b>body</b> <i>required</i>	List of blocks	< <a href="#">AddressBlock</a> > array	

#### Responses

HTTP Code	Description	Schema
<b>default</b>	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json

#### 4.70.12. Update Child Block

```
POST /hierarchy/child_block/update
```

#### Description

Updates an existing child block./rest/hierarchy/child\_block/update?org\_name=Internal&space=addressSpaceAssociated

Below example shows sample request JSON:

```
{}
{"parent":"10.0.1.0/24","address":"10.0.1.0","name":"testChild","description":"","mask":"30","parentSpace":"Address_block1"}
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>adjust_hierarchy</b> <i>optional</i>	Specifies if the hierarchy should be adjusted for conflicting child nodes	boolean	
Query	<b>org_name</b> <i>required</i>	organization name associated with the address block	string	

Type	Name	Description	Schema	Default
Query	<b>space required</b>	Address space associated with the seed block	string	
Body	<b>body required</b>	Address block details	<a href="#">AddressBlock</a>	

#### Responses

HTTP Code	Description	Schema
<b>default</b>	successful operation	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`

#### 4.70.13. Map of Network Hierarchy

POST `/hierarchy/map`

#### Description

Returns the hierarchy as a JSON string for the TCPWave IPAM GUI consumption.

The example listed below shows a sample request URL:

`/rest/hierarchy/map`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations optional</b>	Organization List	string	
Body	<b>body optional</b>	Filter Details	< string, < string > array > map	

#### Responses

HTTP Code	Description	Schema
<b>200</b>	successful operation	string

#### Consumes

- `text/plain`
- `application/json`

#### Produces

- `application/json`

#### 4.70.14. List of Networks at the given node

GET `/hierarchy/network/list`

#### Description

Returns the list of networks that are at the given node level.

The example listed below shows a sample request URL:

`/rest/hierarchy/network/list?org_name=Internal&space=Internal-Space&address=192.168.0.0`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address required</b>	Address of the block	string	
Query	<b>org_name required</b>	organization name associated with the block	string	
Query	<b>space required</b>	Address space name associated with the block	string	

#### Responses

HTTP Code	Description	Schema
<b>200</b>	successful operation	< string > array

#### Consumes

- `text/plain`

#### Produces

- `application/json`

#### 4.70.15. Address Block

POST /hierarchy/next\_free/block

### Description

Returns the next free address block./rest/hierarchy/next\_free/block?org\_name=Internal&mask=10

Below example shows sample request JSON:

```
{ "name": "test", "description": "string", "address": "string", "mask": 0, "parentFullAddress": "10.1.10.0", "start": 0, "end": 0, "isV6": true, "childBlocks": [null], "parentSpace": "Internal Space" }
```

### Parameters

Type	Name	Description	Schema	Default
Query	<b>mask</b> <i>required</i>	New mask	integer(int32)	
Query	<b>org_name</b> <i>required</i>	organization name associated with the block	string	
Body	<b>body</b> <i>required</i>	Address block details	<a href="#">AddressBlock</a>	

### Responses

HTTP Code	Description	Schema
200	successful operation	string

### Consumes

- application/json
- application/xml

### Produces

- text/plain

### 4.70.16. Address Block

POST /hierarchy/next\_free/block/add

### Description

Returns the next free address block./rest/hierarchy/next\_free/block/add?org\_name=Internal&mask=10&name=name

Below example shows sample request JSON:

```
{ "name": "test", "description": "string", "address": "string", "mask": 0, "parentFullAddress": "10.1.10.0", "start": 0, "end": 0, "isV6": true, "childBlocks": [null], "parentSpace": "Internal Space" }
```

### Parameters

Type	Name	Description	Schema	Default
Query	<b>mask</b> <i>required</i>	New mask	integer(int32)	
Query	<b>name</b> <i>required</i>	Name	string	
Query	<b>org_name</b> <i>required</i>	organization name associated with the block	string	
Body	<b>body</b> <i>required</i>	Address block details	<a href="#">AddressBlock</a>	

### Responses

HTTP Code	Description	Schema
200	successful operation	string

### Consumes

- application/json
- application/xml

### Produces

- text/plain

### 4.70.17. List of Address Blocks

POST /hierarchy/next\_free/blocklist

### Description

Returns the list of address blocks./rest/hierarchy/next\_free/blocklist?org\_name=Internal&mask=10

Below example shows sample request JSON:

```
{ "name": "string", "description": "string", "address": "string", "mask": 0, "parentFullAddress": "10.1.10.0", "start": 0, "end": 0, "isV6": true, "childBlocks": [null], "parentSpace": "Internal Space" }
```

### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Query	<b>mask</b> <i>required</i>	New mask	integer(int32)	
Query	<b>org_name</b> <i>required</i>	organization name associated with the block	string	
Body	<b>body</b> <i>required</i>	Address block details	<a href="#">AddressBlock</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< string > array

#### Consumes

- application/json
- application/xml

#### Produces

- application/json

#### 4.70.18. List of Address Blocks

```
POST /hierarchy/next_free/network
```

#### Description

Returns the list of address blocks./rest/hierarchy/next\_free/network?org\_name=Internal&mask=10

Below example shows sample request JSON:

```
{ "name": "test", "description": "string", "address": "string", "mask": 0, "parentFullAddress": "10.1.10.0", "start": 0, "end": 0, "isV6": true, "childBlocks": [null], "parentSpace": "Internal Space" }
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>mask</b> <i>required</i>	New mask	integer(int32)	
Query	<b>org_name</b> <i>required</i>	organization name associated with the block	string	
Body	<b>body</b> <i>required</i>	Address block details	<a href="#">AddressBlock</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- application/json
- application/xml

#### Produces

- text/plain

#### 4.70.19. List of Address Blocks

```
POST /hierarchy/next_free/networklist
```

#### Description

Returns the list of address blocks./rest/hierarchy/next\_free/split?networklist=Internal&mask=10

Below example shows sample request JSON:

```
{ "name": "test", "description": "string", "address": "string", "mask": 0, "parentFullAddress": "10.1.10.0", "start": 0, "end": 0, "isV6": true, "childBlocks": [null], "parentSpace": "Internal Space" }
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>mask</b> <i>required</i>	New mask	integer(int32)	
Query	<b>org_name</b> <i>required</i>	organization name associated with the block	string	
Body	<b>body</b> <i>required</i>	Address block details	<a href="#">AddressBlock</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< string > array

#### Consumes

- application/json
- application/xml

#### Produces

- application/json

#### 4.70.20. Add Address Space

```
POST /hierarchy/seed_block/add
```

#### Description

Creates a new address space.

The example listed below shows a sample request URL:

/rest/hierarchy/seed\_block/add?org\_name=Internal

Below example shows sample request JSON:

```
"  
{ "parent": null, "address": "10.0.1.0", "name": "child_block_1", "description": "", "mask": "24", "parentSpace": "Address_block1" }
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_name</b> <i>required</i>	organization name associated with the seed block	string	
Body	<b>body</b> <i>required</i>	Address block details	<a href="#">AddressBlock</a>	

#### Responses

HTTP Code	Description	Schema
<b>default</b>	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json

#### 4.70.21. Split Seed Block

```
POST /hierarchy/seed_block/split
```

#### Description

Splits the existing seed block. /rest/hierarchy/seed\_block/split?org\_name=Internal&mask=10

Below example shows sample request JSON:

```
{ "name": "seedblock1", "description": "string", "address": "string", "mask": "0", "parentFullAddress": "10.1.10.08", "start": "0", "end": "0", "isV6": true, "childBlocks": [null], "parentSpace": "Internal Space" }
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>mask</b> <i>required</i>	New mask	integer(int32)	
Query	<b>org_name</b> <i>required</i>	organization name associated with the seed block	string	
Body	<b>body</b> <i>required</i>	Address block details	<a href="#">AddressBlock</a>	

#### Responses

HTTP Code	Description	Schema
<b>default</b>	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json

#### 4.70.22. Update Seed Block

```
POST /hierarchy/seed_block/update
```

#### Description

Updates an existing seed block. /rest/hierarchy/seed\_block/update?org\_name=Internal&space=addressSpaceAssociated

Below example shows sample request JSON:

```
"  
{ "parent": null, "address": "10.0.1.0", "name": "child_block_1", "description": "demo", "mask": "24", "parentSpace": "Address_block1" }
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>adjust_hierarchy</b> <i>optional</i>	Specifies if the hierarchy should be adjusted for conflicting child nodes	boolean	
Query	<b>org_name</b> <i>required</i>	organization name associated with the seed block	string	
Query	<b>space</b> <i>required</i>	Address space associated with the seed block	string	
Body	<b>body</b> <i>required</i>	Address block details	<a href="#">AddressBlock</a>	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json

### 4.71. History Tab Service

#### Description

This service provides execution history of Specified scheduled job executed in the TCPWave IPAM.

#### 4.71.1. List of Execution History

```
GET /historytab/historylist
```

#### Description

Obtains a list of execution history of Specified scheduled job executed since specified time in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/historytab/historylist?start=1&length=20&organization=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>id</b> <i>optional</i>	ID of the schedule job	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting IPV4 Network Range	integer(int32)	
Query	<b>type</b> <i>required</i>	Type of the schedule job	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAuditReportDetails</a>

#### Consumes

- text/plain

### 4.72. Home Service

#### Description

This service provides alerts and current active sessions summary in the TCPWave IPAM. It also provides audit log data, audit trend data, log messages, license data, widget and chart data in the TCPWave IPAM.

#### 4.72.1. Admin roles information

GET /home/adminRoles

### Description

Displays the number of administrators in each Admin role(SADM, FADM, UADM, PADM, RADM).  
The example listed below shows a sample request URL:  
/rest/home/adminRoles&organization\_name=Internal

### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization List	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Home</a> > array

### Consumes

- text/plain

### Produces

- application/json
- application/xml

### 4.72.2. Get all appliances status

GET /home/applianceStatus

### Description

Provides the status of all IPAM components and overall status of DNS and DHCP Appliances in the TCPWave IPAM.  
Below example shows sample request JSON:  
/rest/home/applianceStatus?server\_name=test&ip=1.0.0.8

### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>required</i>		string	
Query	<b>server_name</b> <i>required</i>		string	

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Module</a> > array
500		No Content

### Consumes

- text/plain

### Produces

- application/json
- application/xml

### 4.72.3. Audit Logs Data

GET /home/auditLogData

### Description

Gets the audit logs data of IPAM appliance.  
The example listed below shows a sample request URL:  
/rest/home/auditLogData?ip=1.0.0.7&type=DNS/DHCP&server\_name=testappliance&argc=&logstart=2020-10-8&logend=2020-10-9

### Parameters

Type	Name	Description	Schema	Default
Query	<b>argc</b> <i>required</i>	argc	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>ip</b> <i>required</i>		string	
Query	<b>logend</b> <i>required</i>	Log end Date	string	
Query	<b>logstart</b> <i>required</i>	Log Start Date	string	



Type	Name	Description	Schema	Default
Query	<b>server_name</b> <i>required</i>	server name	string	
Query	<b>type</b> <i>required</i>	type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Log Entry in CEF Format</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.4. Audit Logs

```
GET /home/auditLogDataNew
```

#### Description

Gets the audit logs from TCPWave IPAM appliance.

The example listed below shows a sample request URL:

```
/rest/home/auditLogDataNew?
```

```
applianceIp=1.0.0.7&applianceType=DNS/DHCP/IPAM&applianceName=testappliance&argc=0&logstart=2020-10-8&logend=2020-10-9
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>applianceIp</b> <i>required</i>	Appliances ip	string	
Query	<b>applianceName</b> <i>required</i>	Appliances name	string	
Query	<b>applianceType</b> <i>required</i>	Appliance type	string	
Query	<b>argc</b> <i>required</i>	argc	integer(int32)	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>logend</b> <i>required</i>	Log end Date	string	
Query	<b>logstart</b> <i>required</i>	Log Start Date	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>start</b> <i>required</i>	Starting IPV4 Network Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Log Entry In CEF Format</a>
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.5. Audit Summary

GET /home/auditSummary

### Description

Retrieves the detailed list of information of the recently executed commands in the TCPWave IPAM. NOTE:- This method returns Map with Widget Name as Key and Array List of Objects as Value.

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Audit Entry</a>
500		No Content

### Consumes

- text/plain

### Produces

- application/json
- application/xml

### 4.72.6. Network classification

GET /home/classnetworks

### Description

Displays the number of networks in each class  
The example listed below shows a sample request URL:  
/rest/home/classnetworks?organization\_name=Internal

### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization List	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	string
500		No Content

### Consumes

- text/plain

### Produces

- text/plain

### 4.72.7. Admin roles information

GET /home/cloudProvidersCount

### Description

Displays the number of administrators in each Admin role(SADM, FADM, UADM, PADM, RADM).  
The example listed below shows a sample request URL:  
/rest/home/cloudProvidersCount?organization\_name=Internal

### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_name</b> <i>optional</i>	Organization Name	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Home</a> > array

### Consumes

- text/plain

### Produces

- application/json
- application/xml

### 4.72.8. Delete alarms

POST /home/deletenotification

### Description

Deletes the selected one or more alarms.  
Below example shows sample request JSON:

```
[{"host_address":"192.168.56.100","host_name":"TestAppliance1","host_type":"IPAMServerAlert","category":"IPAM_LICENSE","service":"IPAM_LICENSE"}]
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">Notification Details</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.72.9. Get the details of an IP Address

```
GET /home/determineIPDetails/{ipAddress}
```

#### Description

Provides the details of an IP Address defined in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/home/determineIPDetails/{ipAddress}
```

#### Parameters

Type	Name	Description	Schema	Default
Path	<b>ipAddress</b> <i>required</i>	IP Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	integer(int32)

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.10. DHCP Appliances classification

```
GET /home/dhcpcount
```

#### Description

Displays the number of primary DHCP Appliances,secondary DHCP Appliances

The example listed below shows a sample request URL:

```
/rest/home/dhcpcount?organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization List	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.72.11. DNS tunnel detection data

```
GET /home/dnsTunnelDetectionData
```

#### Description

Fetches the DNS tunnel detection information of an appliance

The example listed below shows a sample request URL:  
/rest/home/dnsTunnelDetectionData?ip=1.0.0.8&type=DNS/DHCP

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>required</i>	IP Address of DNS server	string	
Query	<b>type</b> <i>required</i>	Type of DNS server	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< string, string > map
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.12. DNS Servers classification

```
GET /home/dnscount
```

#### Description

Displays the number of Authoritative DNS Appliances,Cache DNS Appliances

The example listed below shows a sample request URL:

/rest/home/dnscount?organization\_name=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization List	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.72.13. Export to CSV

```
GET /home/exporptoptalkerstocsv
```

#### Description

The example listed below shows a sample request URL:

/rest/home/exporptoptalkerstocsv?type=DNS/DHCP&ip=1.0.0.3&duration=10

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>duration</b> <i>required</i>		integer(int32)	
Query	<b>ip</b> <i>required</i>		string	
Query	<b>type</b> <i>required</i>		string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500		No Content

#### Consumes

- application/json

- application/xml

#### Produces

- application/json
- application/xml

#### 4.72.14. Export to CSV

```
GET /home/exportversionstocsv
```

#### Description

The example listed below shows a sample request URL:  
/rest/home/exportversionstocsv?serverType=DNS/DHCP

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>serverType</b> <i>required</i>	Type of server (DNS/DHCP)	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500		No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.72.15. Get the notifications of appliances status by service name

```
GET /home/faultMgmt
```

#### Description

Provides the notifications of appliances defined in the TCPWave IPAM as CRITICAL/WARNING/OK based on service category.

The example listed below shows a sample request URL:

```
/rest/home/faultMgmt?server_name=serverNameValue&ip=1.0.0.3&fault_level=2&start=1&length=20
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>fault_level</b> <i>required</i>	Severity Level of Fault	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>ip</b> <i>required</i>	IP Address	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>server_name</b> <i>required</i>	Server Name	string	
Query	<b>server_type</b> <i>required</i>	Server Type	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Notification Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListHome</a>

HTTP Code	Description	Schema
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.16. Get the notifications of appliances status by host name

```
GET /home/faultMgmtHosts
```

#### Description

Provides the notifications of appliances defined in the TCPWave IPAM as CRITICAL/WARNING/OK based on the Host Address.

Below example shows sample request JSON:

```
/rest/home/faultMgmtHosts?server_name=test&ip=1.0.0.8&fault_level=2&server_type=BIND AUTH
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>fault_level</b> <i>required</i>	Fault Level	integer(int32)	
Query	<b>ip</b> <i>required</i>	IP Address	string	
Query	<b>server_name</b> <i>required</i>	Server Name	string	
Query	<b>server_type</b> <i>required</i>	Server Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Home</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.17. Get Fault Management Service History

```
GET /home/faultMgmtServiceHistory
```

#### Description

Provides the monitoring information of DNS and DHCP appliances defined in the TCPWave IPAM. NOTE:- This method returns Map with Widget Name as Key and Array List of Objects as Value.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>end_date</b> <i>required</i>	End Date	string	
Query	<b>fault_level</b> <i>required</i>	Fault level	integer(int32)	
Query	<b>id</b> <i>optional</i>	Server ID	integer(int32)	
Query	<b>page_no</b> <i>required</i>	Number of pages	integer(int32)	
Query	<b>page_size</b> <i>required</i>	Page size	integer(int32)	
Query	<b>selectdb</b> <i>required</i>	Selected Database	integer(int32)	
Query	<b>server_name</b> <i>required</i>	Server Name	string	
Query	<b>start_date</b> <i>required</i>	Start Date	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Home</a>
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.18. Get the notifications of appliances status by service name

```
GET /home/faultMgmtp
```

#### Description

Provides the notifications of appliances defined in the TCPWave IPAM as CRITICAL/WARNING/OK based on service category.

Below example shows sample request JSON:

```
/rest/home/faultMgmtp?start=1&length=20&server_name=test&ip=1.0.0.8&fault_level=2&server_type=BIND AUTH
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>fault_level</b> <i>required</i>	Severity Level of Fault	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>ip</b> <i>required</i>	IP Address	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>server_name</b> <i>required</i>	Server Name	string	
Query	<b>server_type</b> <i>required</i>	Server Type	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Notification Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListHome</a>
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.19. Get AMQ Topics Stats

```
GET /home/getAMQTopicStats
```

#### Description

Get the TIMS message queue statistics. NOTE:- This method returns Map with Widget Name as Key and Array List of Objects as Value.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>end_date</b> <i>required</i>		string	

Type	Name	Description	Schema	Default
Query	<b>page_no</b> <i>required</i>		integer(int32)	
Query	<b>page_size</b> <i>required</i>		integer(int32)	
Query	<b>start_date</b> <i>required</i>		string	
Query	<b>topic_name</b> <i>required</i>		string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">IPAMTopicStats</a>
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.20. Get active sessions information

```
GET /home/getActiveSessions
```

#### Description

Provides sessions information on the IPAM server to display on dashboard.

The example listed below shows a sample request URL:

```
/rest/home/getActiveSessions?page=1&rows=20&start_date=2020-10-12&end_date=2020-10-13
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>end_date</b> <i>required</i>	ending date	string	
Query	<b>page</b> <i>required</i>	total pages	integer(int32)	
Query	<b>rows</b> <i>required</i>	rows per page	integer(int32)	
Query	<b>start_date</b> <i>required</i>	starting date	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListHome</a>
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.21. Get top ten sessions

```
GET /home/getActiveSessionsChart
```

#### Description

Gets the top ten active sessions for charting the active sessions chart

The example listed below shows a sample request URL:

```
/rest/home/getActiveSessionsChart?start_date=2020-10-15&end_date=2020-10-16
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>end_date</b> <i>required</i>	End date	string	
Query	<b>start_date</b> <i>required</i>	Start date	string	

#### Responses



HTTP Code	Description	Schema
200	successful operation	< <a href="#">Home</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.22. Active Sessions Information Summary

```
GET /home/getActiveSessionsSnapshotSummary
```

#### Description

Gets the summary of top sessions to display on the dashboard.

The example listed below shows a sample request URL:

/rest/home/getActiveSessionsSnapshotSummary

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Home</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.23. Active Sessions Summary

```
GET /home/getActiveSessionsSummary
```

#### Description

Provides the summary of all sessions to display on the dashboard.

The example listed below shows a sample request URL:

/rest/home/getActiveSessions?page=1&rows=20&start\_date=2020-10-12&end\_date=2020-10-13

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>page</b> <i>required</i>	total Pages	integer(int32)	
Query	<b>rows</b> <i>required</i>	Rows per page	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListHome</a>
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.24. Get Audit Trend Data

```
GET /home/getAuditTrendData
```

#### Description

Gets the commands success/fail information on the IPAM server. NOTE:- This method returns Map with Widget Name as Key and Array List of Objects as Value.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>date_style</b> <i>required</i>	date style	string	

Type	Name	Description	Schema	Default
Query	<b>end_date</b> <i>required</i>	ending date	string	
Query	<b>ipamIpAddress</b> <i>optional</i>	IPAM IP Address	string	
Query	<b>start_date</b> <i>required</i>	starting date	string	
Query	<b>success</b> <i>required</i>	success param	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Home</a>
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.25. Get CPU,Memory,Disk Usage

```
GET /home/getCMDStats
```

#### Description

This API provides to get the CPU,Memory,Disk Usage statistics.

Below example shows sample request JSON:

```
/rest/home/getCMDStats
```

#### Responses

HTTP Code	Description	Schema
200	successful operation	< string, integer(int32) > map
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.26. Get the notifications of appliances status by service name

```
GET /home/getCurrentAlarms
```

#### Description

Provides the notifications of appliances defined in the TCPWave IPAM as CRITICAL/WARNING/OK based on service category.

The example listed below shows a sample request URL:

```
/rest/home/getCurrentAlarms?server_name=serverNameValue&ip=1.0.0.3&fault_level=2&start=1&length=20
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>fault_level</b> <i>required</i>	Severity Level of Fault	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>ip</b> <i>required</i>	IP Address	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	

Type	Name	Description	Schema	Default
Query	<b>server_name</b> <i>required</i>	Server Name	string	
Query	<b>server_type</b> <i>required</i>	Server Type	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Notification Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListMonitoring Service Information</a>
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.27. DHCP Appliance List

```
GET /home/getDHCPServerList
```

#### Description

Displays the monitoring service enabled DHCP Appliances list  
The example listed below shows a sample request URL:  
/rest/home/getDHCPServerList?orgName=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgName</b> <i>required</i>	Organization List	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DNS/DHCP Appliance information</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.28. Get Total DNS traffic

```
GET /home/getDHCPTrafficByServer
```

#### Description

This API provides data to display cumulative DNS traffic chart by number of queries per record type and appliance.  
Below example shows sample request JSON:  
/rest/home/getDHCPTrafficByServer

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DHCPTrafficChart</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.29. Get Total DHCP traffic

```
GET /home/getDHCPTraffic
```

##### Description

This API provides data to display DHCP traffic trend by number of queries per record type.

Below example shows sample request JSON:

```
/rest/home/getDHCPTraffic
```

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DHCPTrafficChart</a> > array
500		No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.72.30. list of DNS and DHCP Appliances

```
GET /home/getDNSDHCPServerList
```

##### Description

Obtains a list of monitoring enabled DNS and DHCP appliances to display on dashboard.

The example listed below shows a sample request URL:

```
/rest/home/getDNSDHCPServerList
```

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Home Subnet List Tree</a> > array
500		No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.72.31. Server Last Sync Status

```
GET /home/getDNSLastSync
```

##### Description

Displays the monitoring service enabled DNS Appliances list

The example listed below shows a sample request URL:

```
/rest/home/getDNSLastSync?orgName=Internal&type=DNS/DHCP
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgName</b> <i>required</i>	organization Name	string	
Query	<b>type</b> <i>required</i>	Type of server(DNS/DHCP)	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Last sync status</a> > array
500		No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.72.32. DNS Server List

```
GET /home/getDNSServerList
```

### Description

Displays the monitoring service enabled DNS Appliances list  
The example listed below shows a sample request URL:  
`/rest/home/getDNSServerList?orgName=Internal`

### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgName</b> <i>required</i>	Organization List	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DNS/DHCP Appliance information</a> > array
500		No Content

### Consumes

- `text/plain`

### Produces

- `application/json`
- `application/xml`

### 4.72.33. Get IPAM Search Details

```
GET /home/getIPAMSearchDetails
```

### Description

NOTE:- This method returns Map with Widget Name as Key and Array List of Objects as Value.

### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Name	string	
Query	<b>search</b> <i>required</i>	search string	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Home</a>
500		No Content

### Consumes

- `application/json`
- `text/plain`

### Produces

- `application/json`
- `application/xml`

### 4.72.34. Get the IPAM server information

```
GET /home/getIPAMServerInfo
```

### Description

Provides the IPAM kernel information and uptime of IPAM server.  
The example listed below shows a sample request URL:  
`/rest/home/getIPAMServerInfo`

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Home</a> > array
500		No Content

### Consumes

- `text/plain`

### Produces

- `application/json`
- `application/xml`

#### 4.72.35. Get CPU, Memory, Disk Usage and other information.

```
GET /home/getIPAMSystemInfo
```

##### Description

This API provides to get the CPU, Memory, Disk Usage statistics and other information of an IPAM appliance.

Below example shows sample request JSON:

```
/rest/home/getIPAMSystemInfo
```

##### Responses

HTTP Code	Description	Schema
200	successful operation	string
500		No Content

##### Consumes

- text/plain

##### Produces

- text/plain

#### 4.72.36. Get IPAM server alerts

```
GET /home/getIpamAlerts
```

##### Description

Provides the list of IPAM appliance monitoring alerts to display on the dashboard.

The example listed below shows a sample request URL:

```
/rest/home/getIpamAlerts?start=1&length=20
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>end_date</b> <i>optional</i>	ending date	string	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting IPV4 Network Range	integer(int32)	
Query	<b>start_date</b> <i>optional</i>	starting date	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListHome</a>
500		No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.72.37. Get IPAM server alerts Summary

```
GET /home/getIpamAlertsSummary
```

##### Description

Provides the count of TCPWave IPAM events grouped by event type.

The example listed below shows a sample request URL:

```
/rest/home/getIpamAlertsSummary
```

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Home</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.38. Remote Logs

```
GET /home/getLogs
```

#### Description

Gets the logs related data from IPAM and Remote appliances.

The example listed below shows a sample request URL:

```
/rest/home/getLogs?
```

```
applianceIp=1.0.0.8&applianceName=test&applianceType=DNS/DHCP&applianceCode=12&argc=0&start=0&length=20&logstart=2020-10-09&logend=2020-10-10
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>applianceCode</b> <i>required</i>	Appliance code	string	
Query	<b>applianceIp</b> <i>required</i>	Appliances ip	string	
Query	<b>applianceName</b> <i>required</i>	Appliances name	string	
Query	<b>applianceType</b> <i>required</i>	Appliance type	string	
Query	<b>argc</b> <i>required</i>	argc	integer(int32)	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>logend</b> <i>required</i>	Log end Date	string	
Query	<b>logstart</b> <i>required</i>	Log Start Date	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>start</b> <i>required</i>	Starting IPV4 Network Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListLogs Information</a>
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.39. DHCP Server List

```
GET /home/getMSDHCPServerList
```

#### Description

Displays the monitoring service enabled DHCP Appliances list

The example listed below shows a sample request URL:

```
/rest/home/getMSDHCPServerList?orgName=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgName</b> <i>required</i>	Organization List	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DNS/DHCP Appliance information</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.40. DNS Server List

```
GET /home/getMSDNSServerList
```

#### Description

Displays the monitoring service enabled DNS Appliances list  
The example listed below shows a sample request URL:  
/rest/home/getMSDNSServerList?orgName=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgName</b> <i>required</i>	Organization List	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DNS/DHCP Appliance information</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.41. Get MySQL charts data

```
GET /home/getMYSQLCharts
```

#### Description

Provides the monitoring statistics of IPAM Database.  
The example listed below shows a sample request URL:  
/rest/home/getMYSQLCharts?address=1.0.0.7

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	IP Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500		No Content

#### Consumes

- text/plain

#### Produces

- text/html

#### 4.72.42. Get mask length list

```
GET /home/getMaskLength/{name}
```



#### Description

Gets the defined mask lengths of networks and subnets.

The example listed below shows a sample request URL:

/rest/home/getMaskLength/networktest

#### Parameters

Type	Name	Description	Schema	Default
Path	<b>name</b> <i>required</i>	Name (subnet /network/ v6network/ v6subnet)	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Mask Length</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.43. Gets IPAM Metrics

```
GET /home/getMetrics
```

#### Description

Gets IPAM Metrics such as object distribution, top 10 zones, zone distribution across appliances, critical monitoring engine alerts, IPAM, DNS and DHCP checkouts.

The example listed below shows a sample request URL:

/rest/home/getMetrics

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Produces

- application/json
- application/xml

#### 4.72.44. Monitored device statistics

```
GET /home/getMonitoredDeviceStats
```

#### Description

Displays the number of thresholds,current alerts,number of traps sent by the remote server

The example listed below shows a sample request URL:

/rest/home/getMonitoredDeviceStats?type=DNS/DHCP&organizations=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization Names	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Service Range	integer(int32)	
Query	<b>type</b> <i>optional</i>	Type of server(DNS/DHCP)	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListMonitoredDevices</a>
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.45. Get Information of all Appliances

```
GET /home/getMonitoringRRDCharts
```

#### Description

Provides the information for all appliances load,memory,swap,ping,query,response information to display on the dashboard.

The example listed below shows a sample request URL:

```
/rest/home/getMonitoringRRDCharts?ip=1.0.0.8&type=DNS/DHCP
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>required</i>	IP Address of DNS/DHCP server	string	
Query	<b>type</b> <i>required</i>	Type of server (DNS/DHCP)	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.46. Get network details by IPAddress

```
GET /home/getNetworkDetails/{ipAddress}
```

#### Description

Provides the details of a Network defined in the TCPWave IPAM based on the IP Address of the Network.

The example listed below shows a sample request URL:

```
/rest/home/getNetworkDetails/{ipAddress}
```

#### Parameters

Type	Name	Description	Schema	Default
Path	<b>ipAddress</b> <i>required</i>	IP Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Network Information</a> > array
500	TIMS-2024: This subnet does not correspond to any of the existing networks.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.47. Get object details by IP Address/Subnet ID

```
GET /home/getObjectDetails
```

#### Description

Provides the details of Object defined in the TCPWave IPAM based on the IP Address of the Object.

The example listed below shows a sample request URL:

/rest/home/getObjectDetails?ipAddress=1.0.0.8

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ipAddress</b> <i>required</i>	Object IP Address	string	
Query	<b>subnet_id</b> <i>optional</i>	Subnet ID	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">TIMS Object</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.48. GET /home/getRRDDNSInd

##### Description

Displays the number of objects allocated based on the object allocation type in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/home/getRRDDNSInd?type=DNS/DHCP&ip=1.0.0.5&service=CPU/MEMORY/DISK

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>required</i>	IP Address of DNS/DHCP server	string	
Query	<b>service</b> <i>required</i>	Service name(CPU/MEMORY/DISK)	string	
Query	<b>type</b> <i>required</i>	Type of the appliance (DNS/DHCP)	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500		No Content

#### Consumes

- text/plain

#### Produces

- text/html

#### 4.72.49. Get chart data

```
GET /home/getRRDDNSLoad
```

##### Description

Provides the appliance load,memory,swap,ping,query,response information to display on the dashboard.

The example listed below shows a sample request URL:

/rest/home/getRRDDNSLoad?service=CPU/MEMORY/DISK

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>service</b> <i>required</i>	Service name(CPU/MEMORY/DISK)	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500		No Content

#### Consumes

- text/plain

#### Produces

- text/html

#### 4.72.50. Get the appliance load ,memory and disk charts data

```
GET /home/getRRdImageLoad
```

##### Description

Provides the appliance load, memory and disk usage data to display on the dashboard.

The example listed below shows a sample request URL:

```
/rest/home/getRRdImageLoad?cpu_check=&mem_check=&disk_check=
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>cpu_check</b> <i>required</i>	Load chart flag.	string	
Query	<b>disk_check</b> <i>required</i>	Disk chart flag	string	
Query	<b>mem_check</b> <i>required</i>	Memory chart flag	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	string
500		No Content

##### Consumes

- text/plain

##### Produces

- text/html

#### 4.72.51. Get CPU, Memory, Disk Usage and other information.

```
GET /home/getRemoteSystemInfo
```

##### Description

This API provides to get the CPU, Memory, Disk Usage statistics and other information of a DNS/DHCP appliance.

Below example shows sample request JSON:

```
/rest/home/getRemoteSystemInfo?applianceIP=1.0.0.2&applianceName=test&applianceType=BIND AUTH
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>applianceIP</b> <i>required</i>	Appliance IP	string	
Query	<b>applianceName</b> <i>required</i>	Appliance Name	string	
Query	<b>applianceType</b> <i>required</i>	Appliance Type	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	string
500		No Content

##### Consumes

- text/plain

##### Produces

- text/plain

#### 4.72.52. Remote server versions

```
GET /home/getRemoteVersions
```

##### Description

Displays the remote DNS and DHCP server versions

The example listed below shows a sample request URL:

```
/rest/home/getRemoteVersions?type=DNS/DHCP&organizations=Internal
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization List	string	

Type	Name	Description	Schema	Default
Query	<b>type</b> <i>required</i>	Type of server(DNS/DHCP)	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Server Entity Version</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.53. Get server hardware information

```
GET /home/getServerHardwareInfo
```

#### Description

Provides the information regarding the DNS and DHCP appliance hardware defined in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/home/getServerHardwareInfo?server_type=BIND AUTH&server_id=2
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>server_id</b> <i>required</i>	Server ID	integer(int32)	
Query	<b>server_type</b> <i>required</i>	Sever type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Home</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.54. DNS appliance log paths

```
GET /home/getServerLogPaths
```

#### Description

Gets the DNS appliance log paths information based on appliance IP address and server type.

The example listed below shows a sample request URL:

```
/rest/home/getServerLogPaths?ip=1.0.0.7&scode=
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>required</i>	Server IP Address	string	
Query	<b>scode</b> <i>required</i>	Server Code	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Home</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json

- application/xml

#### 4.72.55. Subnet details by IP Address

```
GET /home/getSubnetDetails/{ipAddress}
```

##### Description

Provides the details of a Subnet defined in the TCPWave IPAM based on the IP Address of the Subnet. The example listed below shows a sample request URL:  
/rest/home/getSubnetDetails/{ipAddress}

##### Parameters

Type	Name	Description	Schema	Default
Path	<b>ipAddress</b> <i>required</i>	subnet IP Address	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Subnet Information</a> > array
500		No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.72.56. Server Top talker List

```
GET /home/getToptalkers
```

##### Description

Fetches the top talker information of server. The example listed below shows a sample request URL:  
/rest/home/getToptalkers?ip=1.0.0.3&type=DNS/DHCP&duration=&table=1

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>duration</b> <i>required</i>	Duration filter	integer(int32)	
Query	<b>ip</b> <i>required</i>	IP Address of DNS/DHCP server	string	
Query	<b>table</b> <i>required</i>	This value indicates if the request is for grid information or chart. Value 0 indicates chart and value 1 indicates grid.	integer(int32)	
Query	<b>type</b> <i>required</i>	Type of server(DNS/DHCP)	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Top talker</a> > array
500		No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.72.57. Get the IPAM statistics

```
GET /home/getTotalIPAMStats
```

##### Description

Provides the IPAM statistics like number of networks,subnets,objects,zones,servers,scopes,dnssec zones for displaying on the dashboard. The example listed below shows a sample request URL:  
/rest/home/getTotalIPAMStats?organizations=Internal

##### Parameters

Type	Name	Description	Schema	Default

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Comma Separated Organization List	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">IPAM statistics</a>
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.58. Get Object Line Chart Data

```
GET /home/getTotalObjectData
```

#### Description

Provides the information related to objects add/delete for displaying on the dashboard. NOTE:- This method returns Map with Widget Name as Key and Array List of Objects as Value.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>end_date</b> <i>required</i>	End date	string	
Query	<b>organizations</b> <i>optional</i>	Organization List	string	
Query	<b>range</b> <i>required</i>		string	
Query	<b>start_date</b> <i>required</i>	Start date	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Object Chart</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.59. Get Total DNS traffic

```
GET /home/getTotalTraffic
```

#### Description

This API provides data to display DNS traffic trend by number of queries per record type.

Below example shows sample request JSON:

```
/rest/home/getTotalTraffic
```

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DNSTotalTrafficChart</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.60. Get Total DNS traffic

```
GET /home/getTotalTrafficByServer
```

### Description

This API provides data to display cumulative DNS traffic chart by number of queries per record type and appliance.

Below example shows sample request JSON:

/rest/home/getTotalTafficByServer

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DNSTotalTrafficChart</a> > array
500		No Content

### Consumes

- text/plain

### Produces

- application/json
- application/xml

### 4.72.61. Get user last login information

```
GET /home/getUserLastLogin
```

### Description

Provides the login user information to display on the dashboard.

The example listed below shows a sample request URL:

/rest/home/getUserLastLogin?user\_name=sadm

### Parameters

Type	Name	Description	Schema	Default
Query	<b>user_id</b> <i>optional</i>	Logged in user id	integer(int32)	
Query	<b>user_name</b> <i>required</i>	Logged in user name	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Home</a> > array
500		No Content

### Consumes

- text/plain
- application/json

### Produces

- application/json
- application/xml

### 4.72.62. Data about Top ten Zones

```
GET /home/getZoneDistChart
```

### Description

Gets data related to the top ten zones defined in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/home/getZoneDistChart?organizations=Internal

### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization Name	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Zone Statistics for Charting</a> > array
500		No Content

### Consumes

- text/plain

### 4.72.63. Get chart data

```
GET /home/getdhcpgroupedcharts
```



#### Description

Provides the appliance load,memory,swap,ping,query,response information to display on the dashboard.

The example listed below shows a sample request URL:

/rest/home/getdhcpgroupedcharts?service=CPU/MEMORY/DISK

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>service</b> <i>required</i>	Service name(CPU/MEMORY/DISK)	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500		No Content

#### Consumes

- text/plain

#### Produces

- text/html

#### 4.72.64. DHCP scope utilization summary

```
GET /home/getdhcpscopes
```

#### Description

Displays the summary of DHCP scope utilization.

The example listed below shows a sample request URL:

/rest/home/getdhcpscopes?start=1&length=20&orgName=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter Rules	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>orgName</b> <i>required</i>	organization Name	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Scope Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListHome Scopes</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.65. Remote server configuration

```
GET /home/getdnsApplianceSummary
```

#### Description

Displays the server configuration settings defined on remote DNS/DHCP server

The example listed below shows a sample request URL:

/rest/home/getdnsApplianceSummary?type=DNS/DHCP&organizations=Internal

#### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization List	string	
Query	<b>type</b> <i>required</i>	Type of server(DNS/DHCP)	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Server Entity Version</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.66. IPAM configuration list

```
GET /home/getipamconfiglist
```

#### Description

Displays IPAM configuration settings defined in global options  
The example listed below shows a sample request URL:  
/rest/home/getipamconfiglist

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">IPAM subcomponents version</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.67. IPAM subcomponents versions

```
GET /home/getipamsubversion
```

#### Description

Displays all IPAM subcomponents versions  
The example listed below shows a sample request URL:  
/rest/home/getipamsubversion?organizations=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization List	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">IPAM Sub Versions</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.68. Get Long Queries

```
GET /home/getlongqueries
```

#### Description

Fetches the top 10 long DNS queries information on the given DNS appliance.  
The example listed below shows a sample request URL:  
`/rest/home/getlongqueries?ip=1.0.0.8&type=DNS/DHCP`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>required</i>	IP Address of DNS server	string	
Query	<b>type</b> <i>required</i>	Type of DNS server	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< string > array
500		No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.72.69. DNS Servers classification

```
GET /home/getndstats
```

#### Description

Displays the number of Authoritative DNS Appliances,Cache DNS Appliances  
The example listed below shows a sample request URL:  
`/rest/home/getndstats?id=17820`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>id</b> <i>required</i>	Network ID	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- `text/plain`

#### Produces

- `text/plain`

#### 4.72.70. Get Suspicious Queries

```
GET /home/getsuspiciousqueries
```

#### Description

Fetches the Suspicious queries information on the given DNS appliance.  
The example listed below shows a sample request URL:  
`/rest/home/getsuspiciousqueries?ip=1.0.0.8&type=DNS/DHCP`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>required</i>	IP Address of DNS server	string	
Query	<b>type</b> <i>required</i>	Type of DNS server	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500		No Content

#### Consumes

- `text/plain`

#### Produces

- text/plain

#### 4.72.71. HA IPAM Appliances List

```
GET /home/haList
```

#### Description

Gets the HA IPAM appliances List

The example listed below shows a sample request URL:

/rest/home/haList

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">HA IPAM</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.72. Get values for health index scores

```
GET /home/healthindices
```

#### Description

Provides the details of services and hosts as CRITICAL/WARNING/OK for displaying health index scores .

Below example shows sample request JSON:

/rest/home/healthindices

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">HealthIndices</a>
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.73. Network heat map

```
GET /home/heatmapdata
```

#### Description

Displays the network heat map

The example listed below shows a sample request URL:

/rest/home/heatmapdata?id=17025&ip=2.0.0.0&nstart=1.0.0.0&nend=4.0.0.0&orgName=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>id</b> <i>required</i>	Network ID	integer(int32)	
Query	<b>ip</b> <i>required</i>	Network's IP Address	string	
Query	<b>nend</b> <i>required</i>	Network's Ending IP	integer(int64)	
Query	<b>nstart</b> <i>required</i>	Network's starting IP	integer(int64)	
Query	<b>orgName</b> <i>required</i>	Network Organization	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500		No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.72.74. Get HA IPAM LIST

```
GET /home/ipamlist
```

#### Description

Returns the list of configured HA IPAM Appliances.

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">HA IPAM</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.72.75. HA Configuration status

```
GET /home/isHAConfigured
```

#### Description

Gets the status of HA configuration.

The example listed below shows a sample request URL:

/rest/home/isHAConfigured

#### Responses

HTTP Code	Description	Schema
200	successful operation	boolean
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.76. License validation Information

```
GET /home/licenseExpWarnInfo
```

#### Description

Gets the License validation information of IPAM server.

The example listed below shows a sample request URL:

/rest/home/licenseExpWarnInfo

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Home</a> > array
500		No Content

#### Consumes

- text/plain

#### 4.72.77. Remote Logs

```
GET /home/logData
```

#### Description

Gets the logs related data from IPAM and Remote appliances.

The example listed below shows a sample request URL:

/rest/home/logData?

ip=1.0.0.7&type=DNS/DHCP&argc=1&server\_name=testappliance&rcode=&noOfLine=&logstart=2020-10-12&logend=2020-10-13

#### Parameters

Type	Name	Description	Schema	Default

Type	Name	Description	Schema	Default
Query	<b>argc</b> <i>required</i>	argc	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>ip</b> <i>required</i>	appliances ip	string	
Query	<b>logend</b> <i>required</i>	Log end Date	string	
Query	<b>logstart</b> <i>required</i>	Log Start Date	string	
Query	<b>noOffline</b> <i>required</i>	line number in logs	integer(int32)	
Query	<b>scode</b> <i>required</i>	input code	string	
Query	<b>server_name</b> <i>required</i>	appliances name	string	
Query	<b>type</b> <i>required</i>	server type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Logs Information</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.78. Get the monitoring status

```
GET /home/monitoringServices
```

#### Description

Provides the overall monitoring status of DNS and DHCP appliances defined in the TCPWave IPAM.

Below example shows sample request JSON:

```
/rest/home/monitoringServices?server_name=test&ip=1.0.0.8
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>optional</i>	IP Address	string	
Query	<b>server_name</b> <i>optional</i>	Server Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Monitoring Details</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.79. Object Allocation

```
GET /home/objectAlloc
```

#### Description

Displays the number of objects allocated based on the object allocation type in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/home/objectAlloc&organizations=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization List	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Object Allocation</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.80. Object Type

GET /home/objectType

#### Description

Displays the number of objects allocated based on the object type in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/home/objectType&organizations=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization List	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Object Type Chart</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.81. Object classification

GET /home/objectcount

#### Description

Displays the number of pingable and non pingable objects

The example listed below shows a sample request URL:

/rest/home/objectcount

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.72.82. Audit Logs Data

GET /home/omreport

#### Description

Gets the audit logs data of IPAM appliance.

The example listed below shows a sample request URL:

/rest/home/omreport?ip=1.0.0.7&type=DNS/DHCP&server\_name=testappliance&score=&ip=1.0.0.7

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>required</i>	appliances ip	string	

Type	Name	Description	Schema	Default
Query	<b>scode</b> <i>required</i>	input code	string	
Query	<b>server_name</b> <i>required</i>	server name	string	
Query	<b>type</b> <i>required</i>	type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Logs Information</a> > array
500		No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.72.83. PDF Report

```
GET /home/pdfreport
```

#### Description

Provides PDF format for the audit report in the TCPWave IPAM.  
The example listed below shows a sample request URL:  
`/rest/home/pdfreport?report=&ip=ipaddress&type=DNS/DHCP&duration=`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>duration</b> <i>optional</i>		integer(int32)	
Query	<b>ip</b> <i>optional</i>		string	
Query	<b>report</b> <i>optional</i>		string	
Query	<b>type</b> <i>optional</i>		string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS:1201 Export to PDF failed	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

#### 4.72.84. Object classification

```
GET /home/schedjobcount
```

#### Description

Displays the scheduled job density  
The example listed below shows a sample request URL:  
`/rest/home/schedjobcount`

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Home</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- `text/plain`



#### Produces

- application/json
- application/xml

#### 4.72.85. Object classification

```
GET /home/schedjobcountgraph
```

#### Description

Displays the scheduled job density chart

The example listed below shows a sample request URL:

/rest/home/schedjobcountgraph?start\_time=2020-10-09

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>start_time</b> <i>required</i>	Start time	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Home</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.86. Search Admin Group

```
GET /home/searchlogs
```

#### Description

Search all logs in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/home/searchlogs?start=0&length=20

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Logs Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListLog</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.72.87. Remote appliances list

```
GET /home/serverDetailList
```

#### Description

Gets the Remote appliances versions and configuration data.

The example listed below shows a sample request URL:

## Parameters

Type	Name	Description	Schema	Default
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>order</b> <i>required</i>		string	
Query	<b>page</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>rows</b> <i>required</i>	Starting Appliance Range	integer(int32)	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>type</b> <i>required</i>	Server type	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListServer Entity Version</a>
500		No Content

## Consumes

- text/plain

## Produces

- application/json
- application/xml

## 4.72.88. DNS zone allocation chart

```
GET /home/servertozonecount
```

## Description

Provides report details in grid for Zone Data audit report in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/home/servertozonecount
```

## Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListAudit Report Details</a>

## Consumes

- text/plain

## Produces

- application/json
- application/xml

## 4.72.89. Subnet classification

```
GET /home/subnetscount
```

## Description

Displays the number of DHCP enabled and DHCP disabled subnets

The example listed below shows a sample request URL:

```
/rest/home/subnetscount?organization_name=Internal
```

## Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization List	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	string
500		No Content

## Consumes

- text/plain

#### Produces

- text/plain

#### 4.72.90. Recent Command's Time

```
GET /home/subsys
```

#### Description

Retrieves time series data of all the recent commands executed in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/home/subsys?argc=1&argv=1&arga=1&ip=10.0.0.5
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>arga</b> <i>required</i>	arga	string	
Query	<b>argc</b> <i>required</i>	argc	integer(int32)	
Query	<b>argv</b> <i>required</i>	argv	string	
Query	<b>ip</b> <i>required</i>	ip	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500		No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.72.91. Full/Underutilized Networks and Subnets

```
POST /home/top10WidgetData
```

#### Description

Get top 10 percentage full and Underutilized Network and Subnet data. 1. widget\_name - option can be specified with one of the 4 following names: - networksByPercentFullDiv, networksByFreeSpaceDiv, subnetsByPercentageFullDiv, subnetByFreeSpaceDiv, top10ScopesGrid 2. mask\_length - option can be specified with Integers 8-32 except when requested for top10ScopesGrid. 3. widget name - parameter will be the input widget\_name you provided. 4. name - parameter will hold either network\_name or subnet\_name based on the request except when requested for top10ScopesGrid. 5. percentage\_full - parameter will provide either the percentage full or underutilized percentage based on the request except when requested for top10ScopesGrid. NOTE:- This method returns Map with Widget Name as Key and Array List of Objects as Value.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Home</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Home</a>

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.72.92. Full/Underutilized Networks and Subnets

```
POST /home/top10v6WidgetData
```

#### Description

Get top 10 most utilized and Underutilized IPv6 Networks and Subnets data. 1. widget\_name - option can be specified with one of the 4 following names: - v6networksByPercentFullDiv, v6networksByFreeSpaceDiv, v6subnetsByPercentageFullDiv, v6subnetByFreeSpaceDiv, 2. mask\_length - option can be specified with Integers 28-64 3. widget name - parameter will be the input widget\_name you provided.4.This method returns Map with Widget Name as Key and Array List of Objects as Value.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Home</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Home</a>

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

#### 4.72.93. Zone classification

```
GET /home/zonecount
```

#### Description

Displays the number of forward zones,reverse zones,DNSSEC enabled zones,DNSSEC disabled zones,AD enabled zones,AD disabled zones

The example listed below shows a sample request URL:

`/rest/home/zonecount?organization_name=Internal`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization List	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- `text/plain`

#### Produces

- `text/plain`

#### 4.73. Host Naming Policy

#### Description

This class is used to provide service to Add,Edit,Delete and get List for Host Naming Policies in the TCPWave IPAM.

#### 4.73.1. Host Naming Policy Add

```
POST /hostnamingpolicy/add
```

#### Description

Creates a new host naming policy in the TCPWave IPAM .

Below example shows sample request JSON:

```
{ "policy_name":"policy","policy_value":"value","policy_type":"Contains","policy_description":"description" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Host name restriction details	<a href="#">Host Naming Policies</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-11030: Policy Name field cannot be null TIMS-11031: Policy Value field cannot be null TIMS-11032: Policy Type field cannot be null TIMS-9706: Policy Name: {0} already exists	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- application/json
- application/xml

#### 4.73.2. Host Name Restriction

GET /hostnamingpolicy/checkPolicy

##### Description

Restricts the Host name based on the Policies in the TCPWave IPAM. If the return value is greater than zero then the name is restricted. If the return value is zero then the name is a valid hostname. It returns zero if the global policy is set to 'No'.

The example listed below shows a sample request URL:

/rest/hostnamingpolicy/checkPolicy?name=test

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Name of hostname restriction	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	integer(int32)
500	TIMS-3005: Object name is null.	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.73.3. Host Naming Policy delete

POST /hostnamingpolicy/delete

##### Description

Delete the selected Host Naming policies from the TCPWave IPAM.

Below example shows sample request JSON:

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of hostname restrictions to be deleted	< <a href="#">Host Naming Policies</a> > array	

##### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

##### Consumes

- application/json
- application/xml

#### 4.73.4. Host Naming Policy Edit

POST /hostnamingpolicy/edit

##### Description

Creates a new host naming policy in the TCPWave IPAM .

Below example shows sample request JSON:

```
{
  "old_policy_name":"policy",
  "policy_name":"policy1",
  "policy_type":"Contains",
  "policy_value":"value",
  "policy_description":"description"
}
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Hostnaming policy object	<a href="#">Host Naming Policies</a>	

##### Responses

HTTP Code	Description	Schema
500	TIMS-9707: Policy Name: {0} does not exist TIMS-9706: Policy Name: {0} already exists,	No Content

##### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.73.5. Host Name Policy Name Get

```
GET /hostnamingpolicy/getdetails
```

#### Description

Gets the details of the Host Name Policy.  
The example listed below shows a sample request URL:  
`/rest/hostnamingpolicy/getdetails?name=test`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Host name restriction name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Host Naming Policies</a>
500	An exception has occurred while checking policies.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.73.6. Host Naming policies List

```
GET /hostnamingpolicy/list
```

#### Description

Obtains a list of Host Naming Policies available in the IPAM.  
The example listed below shows a sample request URL:  
`/rest/hostnamingpolicy/list`

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Host Naming Policies</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.74. IPAM Appliance Service

#### Description

This service provides API's to get list of IPAM Appliances present in the TCPWave Cluster, "

#### 4.74.1. Create IPAM Appliance

```
POST /ipamAppliance/create
```

#### Description

Create the IPAM appliance

Below example shows sample request JSON:

```
{
  "v4_ipaddress": "192.168.0.54",
  "name": "Test-IPAM",
  "appliance_template_id": null,
  "description": "This is a test IPAM appliance.",
  "nicsConfig": {
    "nics": [],
    "syncStatus": 0
  },
  "appliance_template": "",
  "rtTablesJson": [],
  "ipamTemplate": {
    "banner": "This is a Production Server. All actions are audited. Please do not make any unauthorized changes.",
    "banner_color": "red",
    "applianceType": "Production",
    "ntpConfig": "10.253.10.253",
    "snmpConfig": {
      "sendToThirdParty": "yes",
      "trapSink1": "10.1.10.1",
      "trapSink2": "10.1.10.2",
      "communityString": "sph1nKx5",
      "systemLocation": "",
      "systemContact": "",
      "processes": "n1/sshd-1/de-1/cli-1/search-1/tims-1/timsscheduler-1/mysql-1"
    },
    "enableSNMPv3": false,
    "dnsResolverConfig": {
      "ns1": "10.0.0.4",
      "ns2": "",
      "ns3": "",
      "ns4": "",
      "search1": "",
      "search2": "",
      "search3": "",
      "search4": "",
      "search5": "",
      "search6": ""
    },
    "tacacsConfig": {
      "appliance": "10.1.10.174",
      "enable": false,
      "pass_key": "abc123"
    },
    "rootConfig": "",
    "idracConfig": {
      "enable": false,
      "address": "",
      "snmp_community_string": "",
      "password": ""
    },
    "sysLogNgConfig": {
      "globalOptions": {
        "timewaitdead": "70",
        "timetoidle": "78",
        "messagetoBuffer": "60",
        "twstatic": "600",
        "noofMsg": "1000",
        "maxSize": "65536",
        "logtime": "true"
      },
      "sourcesData": [
        {
          "name": "s_sys",
          "allSources":

```

```
{
  "type": "internal",
  "filePath": null,
  "fileName": null,
  "address": null,
  "port": null,
  "protocol": null,
  "sourceTypes": "internal,system",
  "filtersData": [
    {
      "name": "f_default",
      "condition": "level(info.emerg) and not (facility(mail) or facility(authpriv) or facility(cron))",
      "category": "complex"
    }
  ],
  "destinationData": [
    {
      "name": "d_mesg",
      "typeSNG": "File",
      "logDestGivenValSNG": "/var/log/messages",
      "syncAfterEachMsg": false
    }
  ],
  "targetsData": [
    {
      "source": "s_sys",
      "logdestination": "d_mesg",
      "filter": "f_default"
    }
  ],
  "systemResources": {
    "for_1min": "4",
    "for_5min": "2",
    "for_user": "70",
    "for_system": "30",
    "for_wait": "20",
    "system_memory_usage": "75"
  }
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	IPAM Appliance Details	<a href="#">IPAMAppliance</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1104: Both Target name and id cannot be null.TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.74.2. Appliance Debug Setting

```
GET /ipamAppliance/debug-setting
```

#### Description

Debugs the existing appliance setting.Changes debug log level to Enable/Disable Remote Debugging in IPAM appliances. The example listed below shows a sample request URL:  
/rest/ipamappliance/debug-setting?address=1.0.0.5&debugPref=

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Server IP Address	string	
Query	<b>debugPref</b> <i>required</i>	Debug preference	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3088: Appliance IP address is null	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

#### 4.74.3. IPAM Appliance delete

```
POST /ipamAppliance/delete
```

#### Description

Delete the IPAM appliance by giving id or address.  
Below example shows sample request JSON:  
{
 "id": "121",
 "address": "192.168.0.135",
 "v4\_address": "192.168.0.135"
}

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Appliance details	<a href="#">Appliance Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.74.4. IPAM Template List

```
GET /ipamAppliance/get
```

#### Description

Provides the list of IPAM Templates

The example listed below shows a sample request URL:

/rest/ipamappliance/get?id=1&address=1.0.0.3

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance Address	string	
Query	<b>id</b> <i>optional</i>	Appliance ID	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">IPAMAppliance</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.74.5. GET Appliance Name

```
GET /ipamAppliance/getApplianceName
```

#### Description

Provides the IPAM name for the given IP address in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/ipamappliance/getApplianceName?address=1.0.0.3

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3091: Appliance does not exist.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.74.6. Configured type either HA or DR

```
GET /ipamAppliance/getConfiguredType
```

#### Description

GET the Configured type.

The example listed below shows a sample request URL:

/rest/ipamappliance/getConfiguredType

#### Responses

HTTP Code	Description	Schema
-----------	-------------	--------



HTTP Code	Description	Schema
200	successful operation	string

#### 4.74.7. Localhost IP address

```
GET /ipamAppliance/getLocalhostIP
```

##### Description

GET the localhost IP address.

The example listed below shows a sample request URL:

/rest/ipamappliance/getLocalhostIP

##### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### 4.74.8. Object Details

```
GET /ipamAppliance/getObjectDetails
```

##### Description

Get the object details.

The example listed below shows a sample request URL:

/rest/ipamappliance/getObjectDetails?address=1.0.0.3

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Object Address	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">TIMS Object</a> > array
500	TIMS-3010: Object does not exist.TIMS-7003: You are not authorized to perform this operation	No Content

##### Consumes

- application/json
- application/xml
- text/plain

##### Produces

- application/json
- application/xml

#### 4.74.9. Get number of Processors

```
GET /ipamAppliance/getProcessorsCount
```

##### Description

Provides the number of processors for the given Appliance IP address in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/ipamappliance/getProcessorsCount?address=1.0.0.3

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3091: Appliance does not exist.	No Content

##### Consumes

- text/plain

##### Produces

- text/plain

#### 4.74.10. Get root access management details. The example listed below shows a sample request URL:

/rest/ipamappliance/getRootAccessDtIs

```
GET /ipamAppliance/getRootAccessDtIs
```

## Responses

HTTP Code	Description	Schema
200	successful operation	string

### 4.74.11. IPAM Appliance Services Status

```
POST /ipamAppliance/getStatus
```

#### Description

Method to get services status of IPAM Appliances.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of IPAM appliances and their services	< <a href="#">IPAMServices</a> > array	

## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">IPAMServices</a> > array
500		No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

### 4.74.12. Appliance Status GET

```
GET /ipamAppliance/getSyncStatus
```

#### Description

Provides the details of sync information for the given Appliance in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/ipamappliance/getSyncStatus&address=1.0.0.3
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Server IP Address	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Appliance Synchronization Status</a>
500	TIMS-3091: Appliance does not exist.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.74.13. Get Live IPAM Traffic

```
GET /ipamAppliance/ipamtraffic
```

#### Description

Gets live IPAM traffic for the selected TCPWave IPAM appliance.

The example listed below shows a sample request URL:

```
/rest/ipamappliance/ipamtraffic&server_name=test&server_ip=1.0.0.3&argc=0
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>argc</b> <i>required</i>	argc	integer(int32)	

Type	Name	Description	Schema	Default
Query	<b>server_ip</b> <i>required</i>	IPAM appliance IP address	string	
Query	<b>server_name</b> <i>required</i>	IPAM appliance Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">IPAMApplianceTrafficData</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.74.14. IPAM Appliance List

```
GET /ipamAppliance/list
```

#### Description

Obtain a List of all the IPAM Appliances defined in the TCPWave IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>	Session token for authorization	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization Names	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting IPAM Appliance Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListIPAMAppliance</a>
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.74.15. Manage Appliance Services

```
POST /ipamAppliance/manage
```

#### Description

Method to Start/Stop/Restart services on Remote Appliance.

Below example shows sample request JSON:

```
{"appliances":
```

```
[{"name":"COMMONDEVELOPERIPAM","v4_ipaddress":"10.1.10.240","v6_ipaddress":null,"organization_id":null,"organization_name":null,"ntp":"Active","ssh":"A
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of IPAM appliances and their services	<a href="#">IPAMServicesInfo</a>	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

#### 4.74.16. Get object associated organizations list

```
GET /ipamAppliance/objectAssociatedOrgList
```

#### Description

Provides the object associated organizations list for the given Appliance IP address in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/ipamappliance/objectAssociatedOrgList?address=1.0.0.3
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">TIMS Object</a> > array

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.74.17. IPAM Appliance Search

```
GET /ipamAppliance/search
```

#### Description

Searches for a given IPAM appliance in the TCPWave IPAM with giving input string.

The example listed below shows a sample request URL:

```
/rest/ipamappliance/search&start=1&length=20
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization list	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Template Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListIPAMAppliance</a>

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.74.18. POST /ipamAppliance/syncAll

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of IPAM appliances	< <a href="#">IPAMAppliance</a> > array	

##### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- `application/json`
- `application/xml`
- `text/plain`

#### Produces

- `application/json`
- `application/xml`
- `text/plain`

#### 4.74.19. Update IPAM Appliance

```
POST /ipamAppliance/update
```

##### Description

Update the IPAM appliance

Below example shows sample request JSON:

```
{
  "v4_ipaddress": "192.168.0.54",
  "name": "Test-IPAM",
  "appliance_template_id": null,
  "description": "This is a test IPAM appliance.",
  "nicsConfig": {
    "nics": []
  },
  "syncStatus": "0",
  "mgmtIP": "192.168.0.54",
  "appliance_template": "rtTablesjson",
  "ipamTemplate": {
    "banner": "This is a Development Server. All actions are audited. Please do not make any unauthorized changes.",
    "banner_color": "green",
    "applianceType": "Development",
    "ntpConfig": "172.16.172.253",
    "snmpConfig": {
      "sendToThirdParty": "yes",
      "trapSink1": "10.1.10.1",
      "trapSink2": "10.1.10.2",
      "communityString": "sph1nx5",
      "systemLocation": "",
      "systemContact": "",
      "processes": "1/sshd-1/de-1/cli-1/search-1/tims-1/timsscheduler-1/mysql-1",
      "enableSNMPv3": false,
      "dnsResolverConfig": {
        "ns1": "10.0.0.3",
        "ns2": "",
        "ns3": "",
        "ns4": "",
        "search1": "",
        "search2": "",
        "search3": "",
        "search4": "",
        "search5": "",
        "search6": ""
      },
      "tacacsConfig": {
        "appliance": "10.1.10.174",
        "enable": false,
        "pass_key": "abc123",
        "rootConfig": "",
        "idracConfig": {
          "enable": false,
          "address": "",
          "snmp_community_string": "",
          "password": ""
        },
        "sysLogNgConfig": {
          "globalOptions": {
            "timewaitdead": "70",
            "timetoidle": "78",
            "messagetoBuffer": "60",
            "twstatic": "600",
            "noofMsg": "1000",
            "maxSize": "65536",
            "logtime": "true",
            "sourcesData": {
              "name": "s_sys",
              "allSources": [
                {
                  "type": "internal",
                  "filePath": null,
                  "fileName": null,
                  "address": null,
                  "port": null,
                  "protocol": null,
                  "type": "system",
                  "filePath": null,
                  "fileName": null,
                  "address": null,
                  "port": null,
                  "protocol": null,
                  "sourceTypes": "internal,system",
                  "filtersData": [
                    {
                      "name": "f_kernel",
                      "condition": "facility(kern)",
                      "category": "complex",
                      "name": "f_default",
                      "condition": "level(info.emerg) and not (facility(mail) or facility(authpriv) or facility(cron))",
                      "category": "complex",
                      "name": "f_auth",
                      "condition": "facility(authpriv)",
                      "category": "complex",
                      "name": "f_mail",
                      "condition": "facility(mail)",
                      "category": "complex",
                      "name": "f_emergency",
                      "condition": "level(emerg)",
                      "category": "complex",
                      "name": "f_news",
                      "condition": "facility(uucp) or (facility(news) and level(crit.emerg))",
                      "category": "complex",
                      "name": "f_boot",
                      "condition": "facility(local7)",
                      "category": "complex",
                      "name": "f_cron",
                      "condition": "facility(cron)",
                      "category": "complex"
                    ],
                    "destinationData": [
                      {
                        "name": "d_cons",
                        "typeSNG": "File",
                        "logDestGivenValSNG": "/dev/console",
                        "syncAfterEachMsg": false,
                        "name": "d_mesg",
                        "typeSNG": "File",
                        "logDestGivenValSNG": "/var/log/messages",
                        "syncAfterEachMsg": false,
                        "name": "d_auth",
                        "typeSNG": "File",
                        "logDestGivenValSNG": "/var/log/secure",
                        "syncAfterEachMsg": false,
                        "name": "d_mail",
                        "typeSNG": "File",
                        "logDestGivenValSNG": "/var/log/maillog",
                        "syncAfterEachMsg": false,
                        "name": "d_spool",
                        "typeSNG": "File",
                        "logDestGivenValSNG": "/var/log/spooler",
                        "syncAfterEachMsg": false,
                        "name": "d_boot",
                        "typeSNG": "File",
                        "logDestGivenValSNG": "/var/log/boot.log",
                        "syncAfterEachMsg": false,
                        "name": "d_cron",
                        "typeSNG": "File",
                        "logDestGivenValSNG": "/var/log/cron",
                        "syncAfterEachMsg": false,
                        "name": "d_kern",
                        "typeSNG": "File",
                        "logDestGivenValSNG": "/var/log/kern",
                        "syncAfterEachMsg": false,
                        "name": "d_mlal",
                        "typeSNG": "LoggedUsers",
                        "logDestGivenValSNG": "*",
                        "syncAfterEachMsg": false
                      ],
                      "targetsData": [
                        {
                          "source": "s_sys",
                          "logdestination": "d_kern",
                          "filter": "f_kernel",
                          "source": "s_sys",
                          "logdestination": "d_mesg",
                          "filter": "f_default",
                          "source": "s_sys",
                          "logdestination": "d_auth",
                          "filter": "f_auth",
                          "source": "s_sys",
                          "logdestination": "d_mail",
                          "filter": "f_mail",
                          "source": "s_sys",
                          "logdestination": "d_mlal",
                          "filter": "f_emergency",
                          "source": "s_sys",
                          "logdestination": "d_spool",
                          "filter": "f_news",
                          "source": "s_sys",
                          "logdestination": "d_boot",
                          "filter": "f_boot",
                          "source": "s_sys",
                          "logdestination": "d_cron",
                          "filter": "f_cron"
                        ]
                      },
                      "systemResources": {
                        "for_1min": "4",
                        "for_5min": "2",
                        "for_user": "70",
                        "for_system": "30",
                        "for_wait": "20",
                        "system_memory_usage": "75"
                      }
                    ]
                  }
                ]
              }
            }
          }
        }
      }
    }
  }
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	IPAM Appliance Details	<a href="#">IPAMAppliance</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1104: Both Target name and id cannot be null.TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.74.20. Create IPAM Appliance

```
POST /v6ipamAppliance/create
```

#### Description

Create the IPAM appliance

Below example shows sample request JSON:

```
{
  "v4_ipaddress": "192.168.0.54",
  "name": "Test-IPAM",
  "appliance_template_id": null,
  "description": "This is a test IPAM appliance.",
  "nicsConfig": {
    "nics": [],
    "syncStatus": 0,
    "appliance_template": "",
    "rtTablesJson": [],
    "ipamTemplate": {
      "banner": "This is a Production Server. All actions are audited. Please do not make any unauthorized changes.",
      "banner_color": "red",
      "applianceType": "Production",
      "ntpConfig": "10.253.10.253",
      "snmpConfig": {
        "sendToThirdParty": "yes",
        "trapSink1": "10.1.10.1",
        "trapSink2": "10.1.10.2",
        "communityString": "sph1nks5",
        "systemLocation": "",
        "systemContact": "",
        "processes": "n1/sshd-1/de-1/cli-1/search-1/tims-1/timsscheduler-1/mysql-1",
        "enableSNMPv3": false,
        "dnsResolverConfig": {
          "ns1": "10.0.0.4",
          "ns2": "",
          "ns3": "",
          "ns4": "",
          "search1": "",
          "search2": "",
          "search3": "",
          "search4": "",
          "search5": "",
          "search6": ""
        },
        "tacacsConfig": {
          "appliance": "10.1.10.174",
          "enable": false,
          "pass_key": "abc123"
        },
        "rootConfig": "",
        "idracConfig": {
          "enable": false,
          "address": "",
          "snmp_community_string": "",
          "password": ""
        },
        "sysLogNgConfig": {
          "globalOptions": {
            "timewaitdead": "70",
            "timetoidle": "78",
            "messagetoBuffer": "60",
            "twstatic": "600",
            "noofMsg": "1000",
            "maxSize": "65536",
            "logtime": "true"
          },
          "sourcesData": [
            {
              "name": "s_sys",
              "allSources": [
                {
                  "type": "internal",
                  "filePath": null,
                  "fileName": null,
                  "address": null,
                  "port": null,
                  "protocol": null
                },
                {
                  "type": "system",
                  "filePath": null,
                  "fileName": null,
                  "address": null,
                  "port": null,
                  "protocol": null
                }
              ],
              "sourceTypes": "internal,system",
              "filtersData": [
                {
                  "name": "f_default",
                  "condition": "level(info..emerg) and not (facility(mail) or facility(authpriv) or facility(cron))",
                  "category": "complex"
                }
              ],
              "destinationData": [
                {
                  "name": "d_mesg",
                  "typeSNG": "File",
                  "logDestGivenValSNG": "/var/log/messages",
                  "syncAfterEachMsg": false
                }
              ],
              "targetsData": [
                {
                  "source": "s_sys",
                  "logdestination": "d_mesg",
                  "filter": "f_default"
                }
              ],
              "systemResources": {
                "for_1min": "4",
                "for_5min": "2",
                "for_user": "70",
                "for_system": "30",
                "for_wait": "20",
                "system_memory_usage": "75"
              }
            }
          ]
        }
      }
    }
  }
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	IPAM Appliance Details	<a href="#">V6IPAMAppliance</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1104: Both Target name and id cannot be null.TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.74.21. IPAM Appliance delete

```
POST /v6ipamAppliance/delete
```

#### Description

Delete the IPAM appliance by giving id or address.

Below example shows sample request JSON:

```
{
  "id": "121",
  "address": "9000::2",
  "v4_address": "9000::2"
}
```

#### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Appliance Delete	<a href="#">Appliance Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.74.22. IPv6 IPAM Template List

```
GET /v6ipamAppliance/get
```

#### Description

Provides the list of IPv6 IPAM Templates

The example listed below shows a sample request URL:  
/rest/v6ipamappliance/get?id=1&address=1.0.0.3

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance Address	string	
Query	<b>id</b> <i>optional</i>	Appliance ID	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">V6IPAMAppliance</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.74.23. Configured type either HA or DR

```
GET /v6ipamAppliance/getConfiguredType
```

#### Description

GET the Configured type.

The example listed below shows a sample request URL:  
/rest/ipamappliance/getConfiguredType

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### 4.74.24. Localhost IP address

```
GET /v6ipamAppliance/getLocalhostIP
```

#### Description

GET the localhost IP address.

The example listed below shows a sample request URL:  
/rest/ipamappliance/getLocalhostIP

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### 4.74.25. Object Details

```
GET /v6ipamAppliance/getObjectDetails
```

##### Description

Get the object details.

The example listed below shows a sample request URL:  
/rest/v6ipamappliance/getObjectDetails?address=5000::

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Object Address	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">IPv6 object</a> > array
500	TIMS-3010: Object does not exist.TIMS-7003: You are not authorized to perform this operation	No Content

##### Consumes

- application/json
- application/xml
- text/plain

##### Produces

- application/json
- application/xml

#### 4.74.26. Appliance Status GET

```
GET /v6ipamAppliance/getSyncStatus
```

##### Description

Provides the details of sync information for the given Appliance in the TCPWave IPAM.

The example listed below shows a sample request URL:  
/rest/ipamappliance/getSyncStatus&address=4000::1

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Server IP Address	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Appliance Synchronization Status</a>
500	TIMS-3091: Appliance does not exist.	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.74.27. Get Live IPAM Traffic

```
GET /v6ipamAppliance/ipamtraffic
```

##### Description

Gets live IPAM traffic for the selected TCPWave IPAM appliance.

The example listed below shows a sample request URL:  
/rest/ipamappliance/ipamtraffic&server\_name=test&server\_ip=1.0.0.3&argc=0

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>argc</b> <i>required</i>	argc	integer(int32)	
Query	<b>server_ip</b> <i>required</i>	IPAM appliance IP address	string	
Query	<b>server_name</b> <i>required</i>	IPAM appliance Name	string	



## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">IPAMApplianceTrafficData</a> > array

## Consumes

- text/plain

## Produces

- application/json
- application/xml
- text/plain

### 4.74.28. IPAM Appliance List

```
GET /v6ipamAppliance/list
```

## Description

Obtain a List of all the IPV6 IPAM Appliances defined in the TCPWave IPAM.

## Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>	Session token for authorization	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization Names	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting IPAM Appliance Range	integer(int32)	

## Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListV6IPAMAppliance</a>
500	TIMS-7003: You are not authorized to perform this operation	No Content

## Consumes

- text/plain

## Produces

- application/json
- application/xml

### 4.74.29. Manage Appliance Services

```
POST /v6ipamAppliance/manage
```

## Description

Method to Start/Stop/Restart services on Remote Appliance.

Below example shows sample request JSON:

```
{"appliances":
```

```
 [{"name": "COMMONDEVELOPERIPAM", "v6_ipaddress": "2000:1::", "v4_ipaddress": null, "organization_id": null, "organization_name": null, "ntp": "Active", "ssh": "Active"} ]
```

## Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of IPAM appliances and their services	<a href="#">V6IPAMServicesInfo</a>	

## Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

#### 4.74.30. Get object associated organizations list

```
GET /v6ipamAppliance/objectAssociatedOrgList
```

#### Description

Provides the object associated organizations list for the given Appliance IP address in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/v6ipamappliance/objectAssociatedOrgList?address=1.0.0.3

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">IPv6 object</a> > array

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.74.31. IPv6 IPAM Appliance Search

```
GET /v6ipamAppliance/search
```

#### Description

Searches for a given IPv6 IPAM appliance in the TCPWave IPAM with giving input string.

The example listed below shows a sample request URL:

/rest/v6ipamappliance/search&start=1&length=20

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization list	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Template Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListV6IPAMAppliance</a>

#### Consumes

text/plain

#### Produces

- application/json
- application/xml

#### 4.74.32. POST /v6ipamAppliance/syncAll

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of IPAM appliances	< <a href="#">V6IPAMAppliance</a> > array	

##### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

##### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.74.33. Update IPAM Appliance

POST /v6ipamAppliance/update

##### Description

Update the IPAM appliance

Below example shows sample request JSON:

```
{
  "v4_ipaddress": "192.168.0.54",
  "name": "Test-IPAM",
  "appliance_template_id": null,
  "description": "This is a test IPAM appliance.",
  "nicsConfig": {
    "nics": [],
    "syncStatus": "0",
    "mgmtIP": "192.168.0.54",
    "appliance_template": "",
    "rtTables": {}
  },
  "ipamTemplate": {
    "banner": "This is a Development Server. All actions are audited. Please do not make any unauthorized changes.",
    "banner_color": "green",
    "applianceType": "Development",
    "ntpConfig": "172.16.172.253",
    "snmpConfig": {
      "sendToThirdParty": "yes",
      "trapSink1": "10.1.10.1",
      "trapSink2": "10.1.10.2",
      "communityString": "sphinx5",
      "systemLocation": "",
      "systemContact": "",
      "processes": {
        "1/sshhd-1/de-1/cli-1/search-1/tims-1/timsscheduler-1/mysql-1"}
    },
    "enableSNMPv3": false,
    "dnsResolverConfig": {
      "ns1": "10.0.0.3",
      "ns2": "",
      "ns3": "",
      "ns4": "",
      "search1": "",
      "search2": "",
      "search3": "",
      "search4": "",
      "search5": "",
      "search6": ""
    },
    "tacacsConfig": {
      "appliance": "10.1.10.174",
      "enable": false,
      "pass_key": "abc123",
      "rootConfig": "",
      "idracConfig": {
        "enable": false,
        "address": "",
        "snmp_community_string": "",
        "password": ""
      },
      "sysLogNgConfig": {
        "globalOptions": {
          "timewaitdead": "70",
          "timetoidle": "78",
          "messagetoBuffer": "60",
          "twstatic": "600",
          "noofMsgs": "1000",
          "maxSize": "65536",
          "logtime": "true",
          "sourcesData": [
            {
              "name": "s_sys",
              "allSources": [
                {
                  "type": "internal",
                  "filePath": null,
                  "fileName": null,
                  "address": null,
                  "port": null,
                  "protocol": null,
                  "type": "system",
                  "filePath": null,
                  "fileName": null,
                  "address": null,
                  "port": null,
                  "protocol": null,
                  "sourceTypes": "internal, system"}
              ],
              "filtersData": [
                {
                  "name": "f_kernel",
                  "condition": "facility(kern)",
                  "category": "complex",
                  "name": "f_default",
                  "condition": "level(info.emerg) and not (facility(mail) or facility(authpriv) or facility(cron))",
                  "category": "complex",
                  "name": "f_auth",
                  "condition": "facility(authpriv)",
                  "category": "complex",
                  "name": "f_mail",
                  "condition": "facility(mail)",
                  "category": "complex",
                  "name": "f_emergency",
                  "condition": "level(emerg)",
                  "category": "complex",
                  "name": "f_news",
                  "condition": "facility(uucp) or (facility(news) and level(crit.emerg))",
                  "category": "complex",
                  "name": "f_boot",
                  "condition": "facility(local7)",
                  "category": "complex",
                  "name": "f_cron",
                  "condition": "facility(cron)",
                  "category": "complex",
                  "destinationData": [
                    {
                      "name": "d_cons",
                      "typeSNG": "File",
                      "logDestGivenValSNG": "/dev/console",
                      "syncAfterEachMsg": false,
                      "name": "d_mesg",
                      "typeSNG": "File",
                      "logDestGivenValSNG": "/var/log/messages",
                      "syncAfterEachMsg": false,
                      "name": "d_auth",
                      "typeSNG": "File",
                      "logDestGivenValSNG": "/var/log/secure",
                      "syncAfterEachMsg": false,
                      "name": "d_mail",
                      "typeSNG": "File",
                      "logDestGivenValSNG": "/var/log/maillog",
                      "syncAfterEachMsg": false,
                      "name": "d_spol",
                      "typeSNG": "File",
                      "logDestGivenValSNG": "/var/log/spooler",
                      "syncAfterEachMsg": false,
                      "name": "d_boot",
                      "typeSNG": "File",
                      "logDestGivenValSNG": "/var/log/boot.log",
                      "syncAfterEachMsg": false,
                      "name": "d_cron",
                      "typeSNG": "File",
                      "logDestGivenValSNG": "/var/log/cron",
                      "syncAfterEachMsg": false,
                      "name": "d_kern",
                      "typeSNG": "File",
                      "logDestGivenValSNG": "/var/log/kern",
                      "syncAfterEachMsg": false,
                      "name": "d_mlal",
                      "typeSNG": "LoggedUsers",
                      "logDestGivenValSNG": "*",
                      "syncAfterEachMsg": false,
                      "targetsData": [
                        {
                          "source": "s_sys",
                          "logdestination": "d_kern",
                          "filter": "f_kernel",
                          "source": "s_sys",
                          "logdestination": "d_mesg",
                          "filter": "f_default",
                          "source": "s_sys",
                          "logdestination": "d_auth",
                          "filter": "f_auth",
                          "source": "s_sys",
                          "logdestination": "d_mail",
                          "filter": "f_mail",
                          "source": "s_sys",
                          "logdestination": "d_mlal",
                          "filter": "f_emergency",
                          "source": "s_sys",
                          "logdestination": "d_spol",
                          "filter": "f_news",
                          "source": "s_sys",
                          "logdestination": "d_boot",
                          "filter": "f_boot",
                          "source": "s_sys",
                          "logdestination": "d_cron",
                          "filter": "f_cron"
                        ]
                      },
                      "systemResources": {
                        "for_1min": "4",
                        "for_5min": "2",
                        "for_user": "70",
                        "for_system": "30",
                        "for_wait": "20",
                        "system_memory_usage": "75"
                      }
                    }
                  ]
                }
              ]
            }
          ]
        }
      }
    }
  }
}
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	IPAM Appliance Details	<a href="#">V6IPAMAppliance</a>	

##### Responses

HTTP Code	Description	Schema
500	TIMS-1104: Both Target name and id cannot be null.TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

### 4.75. IPAM Template Service

#### Description

This service provides API's to get list of IPAM Templates present in the TCPWave IPAM, add Templates, update Templates, delete Templates.

#### 4.75.1. IPAM Template List

```
GET /IPAMTemplate/get
```

#### Description

Provides the list of IPAM Templates

The example listed below shows a sample request URL:

```
/rest/IPAMTemplate/get
```

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">IPAMTemplate</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.76. IPAM Version Service

#### Description

This service provides version information related to Servers in the TCPWave IPAM.

#### 4.76.1. Get IPAM server version information

```
GET /ipam/version
```

#### Description

Gets IPAM server version information. Version information includes MajorVersion, BuildString, PatchLevel, MinorVersion, ServerType

The example listed below shows a sample request URL:

```
/rest/ipam/version
```

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">IPAMVersion</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.77. IPv6 Block Service

#### 4.77.1. Add IPv6 Block

```
POST /ipv6block/add
```

#### Description

Creates a new IPv6 Block in TCPWave IPAM. It checks if it is overlapping with any existing block or not.

Below example shows sample request JSON:

```
{ "address": "5000::", "mask_length": "48", "name": "tcpwave-block", "description": "", "zoneTemplateId": null, "dmzVisible": "yes", "dnssec_enable": "yes", "nsec_option": "NSEC3", "serialFormat": "DATE", "zoneTemplateName": null, "percentageFull": "90", "email_check": "0", "snmp_check": "0", "log_check": "0", "rrs": [], "created_by": "2189",
```

```
"organization_name":"QAOrg" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	IPv6 Block details	<a href="#">IPv6 Network Details</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist, TIMS-1020: Both Organization name and id cannot be null, TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

#### 4.77.2. Delete IPV6 Block

```
POST /ipv6block/delete
```

#### Description

Deletes the specified IPV6 Block present in the TCPWave IPAM . Functional Admin can delete networks belonging to any organization. Rest of the admins can delete networks belonging to their organization only.

Below example shows sample request JSON:

```
{ "address":"5000::", "ipv6FullAddress":"50000000000000000000000000000000", "organization_name":"QAOrg" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	IPv6 block details	<a href="#">IPv6 Network Details</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-2008 - Both Block address and id cannot be null.	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

#### 4.77.3. Update IPv6 Block

```
POST /ipv6block/edit
```

#### Description

Updates the existing IPV6 Block details in the TCPWave IPAM. These actions are audited.

Below example shows sample request JSON:

```
{ "address":"5000::", "mask_length":null, "name":"tcpwave-block", "description":"test", "zoneTemplateId":null, "dmzVisible":"yes", "dnssec_enable":"yes", "nsec_option":"NSEC", "serialFormat":"DATE", "zoneTemplateName":"n-nsd", "domain_id":150328, "owner":"tcp.test.com", "ttl":1200, "rrclass":"IN", "rrtype":"PTR", "data":"5000::1", "description":"","name":"tcp"}, {"oldName":"tcpwave-block", "organization_name":"QAOrg", "ipv6FullAddress":"50000000000000000000000000000000" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	IPv6 block details	<a href="#">IPv6 Network Details</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-2008 - Both Block address and id cannot be null. TIMS-7003 - You are not authorized to perform this operation.	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- application/json
- application/xml

#### 4.77.4. IPv6 Block list

GET /ipv6block/paged

##### Description

Lists all the IPv6 Blocks available in the TCPWave IPAM. Functional Admin gets the list of all Blocks. Rest of the Admins get only the list of networks to the organization that they belong to.

##### Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>	Session token for authorization	string	
Query	<b>block_addr</b> <i>optional</i>	Network Address	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Order parameter	string	
Query	<b>org_name</b> <i>optional</i>	Comma Separated Organization Names	string	
Query	<b>pool_addr</b> <i>required</i>	Network Address	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting IPV6 Block Range	integer(int32)	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListIPv6 Network Details</a>

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.77.5. Search IPv6 Blocks

GET /ipv6block/search

##### Description

Searches for all IPv6 blocks available in the TCPWave IPAM . The results can be seen on the search screen of the TCPWave IPAM.

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>required</i>	Organization List	string	
Query	<b>page</b> <i>required</i>	Page	integer(int32)	
Query	<b>rows</b> <i>required</i>	Rows	integer(int32)	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListIPv6 Network Details</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.78. IPV6 DHCP Appliance Service

#### Description

This service class provides REST API access to Add,Edit and delete DHCPv6 Appliances into the TCPWave IPAM.

#### 4.78.1. Add IPv6 DHCP Appliance

```
POST /v6dhcpserver/add
```

#### Description

Creates an IPv6 DHCP Appliance in the TCPWave IPAM. The user will have the ability to define and configure Time Zone, Banner, NTP, SNMP, Tacacs, Syslog-ng and MAC Exclusions to it .

Below example shows sample request JSON:

```
{ "server": { "banner": "Test Banner", "dhcp_policy_template_name": "policy-temp", "monitoringService": "yes", "domain_name": "test.com", "ntpConfig": "10.1.10.15", "option": "no", "organization_name": "QAOrg", "resolverData": "ns1": "10.1.10.16", "server_type": "DHCP", "serverPreference": "Primary", "snmpConfig": { "trapSink1": "10.1.10.17", "trapSink2": "10.1.10.18", "communityString": "public", "systemName": "test-dhcp-server.test.com", "processes": "ntpd-1/dns-1/sshd-1/monit-1/syslogng-1/dhcpd-1", }, "timeZone": "GMT (GMT)", "v6ShortHandAddress": "2018:2018::10" "v6_ipaddress": "201820180000000000000000000000010" setFailoverFlag": false "associated_v4_ipaddress": "10.1.10.91"}}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	IPv6 DHCP appliance details	<a href="#">DHCP Appliance</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3030: Both object id and IP Address cannot be null, TIMS-3031: Object does not exist, TIMS-3033: An appliance already exists with the specified address, TIMS-3036: Both DHCP Policy Template name and id cannot be null, TIMS-3037: DHCP Policy Template does not exist, TIMS-3039: Server cannot be created using a DHCP object.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.78.2. Delete DHCP Appliance

```
POST /v6dhcpserver/delete
```

#### Description

Deletes a given IPv6 DHCP Appliance, provided it does not serve any DHCP enabled subnets.

Below example shows sample request JSON:

```
{ "id": "121", "address": "192.168.0.135", "v4_address": "192.168.0.135" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Appliance details	<a href="#">Appliance Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3059: Server id and address both cannot be null, TIMS-3092: Server does not exist, TIMS-3060: DHCP Appliance is not deleted as it manages subnets, TIMS-3061: DHCP Appliance is not deleted as it manages scopes. TIMS-3062: DHCP Appliance is not deleted as it is a failover to a DHCP server.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.78.3. Update DHCP Appliance

### Description

Edits an IPv6 DHCP Appliance in the TCPWave IPAM. The user will have the ability to edit and configure Time Zone, Banner, NTP, SNMP, Tacacs, Syslog-ng and MAC Exclusions to it.

Below example shows sample request JSON:

```
{ "server": {"banner": "Test Banner", "dhcp_policy_template_name": "policy-temp", "monitoringService":
"yes", "domain_name": "test.com", "ntpConfig": "10.1.10.15", "option": "no", "organization_name": "QAOrg", "resolverData":
"ns1": "10.1.10.16", "server_type": "DHCP", "serverPreference": "Primary", "snmpConfig": { "trapSink1": "10.1.10.17",
"trapSink2": "10.1.10.18", "communityString": "public", "systemName": "test-dhcp-server.test.com", "processes": "ntpd-
1/dns-1/sshd-1/monit-1/syslogng-1/dhcpd-1", }, "timeZone": "GMT (GMT)", "v6ShortHandAddress":
"2018:2018::20""v6_ipaddress": "20182018000000000000000000000020"" setFailoverFlag": false
"associated_v4_ipaddress": "10.1.10.91"}}
```

### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	IPv6 DHCP appliance details	<a href="#">DHCP Appliance</a>	

### Responses

HTTP Code	Description	Schema
500	TIMS-3059: Appliance id and address both cannot be null, TIMS-3091: Server does not exist.	No Content

### Consumes

- application/json
- application/xml

### Produces

- application/json
- application/xml

#### 4.78.4. Generate Configuration

```
GET /v6dhcpserver/generateConfig
```

### Description

Generates Adhoc IPv6 DHCP Configuration and syncs the server with the latest configuration. Configuration generation is subjected to a sanity check process that validates the syntax of the DHCP Configuration to ensure that erroneous configuration is not sent to the server.

The example listed below shows a sample request URL:

```
/rest/v6dhcpserver/generateConfig?
```

```
v6Address=1500::2&serverName=test&v4Address=13.0.0.3&organization_name=Internal
```

### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_name</b> <i>required</i>	organization Name associated with the Server	string	
Query	<b>serverName</b> <i>required</i>	Name of the DHCP Appliance	string	
Query	<b>v4Address</b> <i>required</i>	IP Address of the specified Server	string	
Query	<b>v6Address</b> <i>required</i>	IPv6 Address of the DHCP Appliance	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-9212: A sync is currently in progress. Please wait until it is completed.	No Content

### Consumes

- application/json
- application/xml
- text/plain

### Produces

- application/json
- application/xml
- text/plain

#### 4.78.5. DHCP Appliance List

```
GET /v6dhcpserver/list
```



#### Description

Obtains a list of all the IPv6 DHCP Appliances configured in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/v6dhcpserver/list?orgName=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgName</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Server Information</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.78.6. DHCP Appliance List

```
GET /v6dhcpserver/listbyorg
```

#### Description

Obtains a list of all the IPv6 DHCP Appliances configured in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/v6dhcpserver/listbyorg?organization\_name=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_name</b> <i>required</i>	Organization name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Server Information</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.78.7. IPv6 DHCP Appliance List

```
GET /v6dhcpserver/page
```

#### Description

This operation retrieves the list of the paginated IPv6 DHCP appliances defined in the TCPWave IPAM.

The following example shows a sample request url:

/tims/rest/v6dhcpserver/page/?draw=1&start=0&length=20&sort=name&order=asc&filterRules=[]

#### Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>	Session token for authorization	string	
Query	<b>customFilterRules</b> <i>optional</i>	Custom Filter String	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization Names	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting DHCP Appliance Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">Server Information</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.78.8. Server Search

```
GET /v6dhcpserver/search
```

#### Description

Searches for the DNS Servers in the TCPWave IPAM. The search results will be displayed in the search window categorized based on where they occur in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/v6dhcpserver/search
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>required</i>	Organization List	string	
Query	<b>page</b> <i>optional</i>	Page Number	integer(int32)	
Query	<b>rows</b> <i>optional</i>	Number of rows	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListServer Information</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.78.9. Configuration information

```
GET /v6dhcpserver/server-configuration
```

#### Description

Provides configuration information of a DHCP Appliance defined in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/v6dhcpserver/server-configuration?address=1.0.0.2
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	DHCP Appliance Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">DHCP Appliance</a>
500	TIMS-3083: DHCP Appliance does not exist.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.78.10. Subnet Reference

```
GET /v6dhcpserver/server-subnet-references
```

#### Description

Obtains a list of subnet references that are associated with an IPv6 DHCP Appliance in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/v6dhcpserver/server-subnet-references?address=1.0.0.2
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	IPv6 DHCP appliance address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Subnet Information</a> > array
500	TIMS-1358: Location already exists.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.78.11. Execute Command on DHCP Appliance

```
GET /v6dhcpserver/subsys
```

#### Description

Executing a Command for DHCP Appliance in the TCPWave IPAM. Provides execution status of a given command number.

**The example listed below shows a sample request URL**

```
rest/dhcpserver/subsys?server_name=TCPWave00005Remote&server_ip=10.0.0.0&argc=2
```

**Note: Below are the arc values should be use in argc based on the command:**

```
/opt/tcpwave/scripts/timsdhcpRestart.sh =0  
/usr/bin/sudo /sbin/service snmpd restart =1  
sudo /bin/timeout 5s /usr/sbin/tcpdump -nn -i eth0 udp port 67 or tcp port 68 -c 200 -ttt =2  
/usr/bin/sudo /sbin/service snmpd restart =3  
/usr/bin/sudo /sbin/service dhcpd6 restart =4  
/usr/bin/sudo /sbin/service monit restart =5  
/usr/bin/sudo /sbin/service ntpd restart =6  
/usr/bin/sudo /sbin/service sshd restart =7  
/opt/tcpwave/scripts/powerCycle =8  
/opt/tcpwave/scripts/powerOff =9
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>argc</b> <i>required</i>	argc	integer(int32)	
Query	<b>server_ip</b> <i>required</i>	Required Server's IP address	string	
Query	<b>server_name</b> <i>required</i>	Required Server's Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.78.12. Generate Configuration

```
POST /v6dhcpserver/syncall
```

##### Description

Generates Adhoc IPv6 DHCP Configuration and syncs the servers with the latest configuration. Configuration generation is subjected to a sanity check process that validates the syntax of the DHCP Configuration to ensure that erroneous configuration is not sent to the server.

The example listed below shows a sample request URL:

```
/rest/v6dhcpserver/syncall?organization_name=EARTH
```

Below example shows sample request JSON:

```
{{"id":121,"name":"nusartx-est015-
```

```
sl09113","organization_id":990,"organization_name":"EARTH","v4_address":"192.1.10.200","server_type":"BIND_AUTH","v6_address":"7000::1","associated_v4_ip
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_name</b> <i>required</i>	Required Organization Name	string	
Body	<b>body</b> <i>required</i>	List of IPv6 DHCP appliance details	< <a href="#">Server Basic Information</a> > array	

##### Responses

HTTP Code	Description	Schema
500	TIMS-9212: A sync is currently in progress. Please wait until it is completed.	No Content

##### Consumes

- application/json
- application/xml
- text/plain

##### Produces

- application/json
- application/xml
- text/plain

#### 4.78.13. DHCPv6 Appliance Active Leases

```
GET /v6dhcpserver/v6dhcpActiveLeases
```

##### Description

Get the list of active leases on a given IPv6 DHCP Appliance defined and managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/v6dhcpserver/v6dhcpActiveLeases?v6serverIp=1500:5&serverIp=1.0.0.2
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>serverIp</b> <i>required</i>	Required Server's IP address	string	
Query	<b>v6serverIp</b> <i>required</i>	DHCP IPv6 appliance address	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListDHCPLeaseObject</a>

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.78.14. Get Configuration

```
GET /v6dhcpserver/viewconfig
```

##### Description

Provides a view configuration of an IPv6 DHCP Appliance defined and managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/v6dhcpserver/viewconfig?organization_name=Internal&address=1200::64
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Server Address	string	

Type	Name	Description	Schema	Default
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

## 4.79. IPV6 DNS Appliance Service

### 4.79.1. Add DNS IPv6 Appliance

POST /v6dnserver/add

#### Description

Creates DNS IPv6 Appliance that can be used to service the DNS requests. This remote Appliance is configured, maintained and managed by the IPAM.

**The allowed Appliance types are (1) ISC Bind Authoritative Appliance (2) ISC Bind Cache Appliance (3) NSD Authoritative Appliance (4) Unbound Cache Appliance (5) DNS Proxy Appliance**

Sample payload to add a DNS BIND AUTH Appliance is listed below.

#### Create DNS Appliance

```
{
  "server_type": "BIND",
  "AUTH": "stealthServer": "0", "authAsCache": "no", "internal_cache_server": "1", "dmzVisible": "0", "autoDNSDR": "null",
  "autoRestoreConf": "0", "enableDnsOverTLS": "no", "v4_ipaddress": "42.0.0.11", "name": "TCPWave00007Remote",
  "timeZone": "GMT (GMT)", "dns_server_template_name": "DNS PROXY Default Server Template",
  "dns_options_template_name": "DNS PROXY Default Template", "nsm_template": "test_template_1",
  "organization_name": "Internal", "snmpConfig": "
  {
    \"trapSink1\": \"42.0.0.11\", \"trapSink2\": \"42.0.0.12\", \"communityString\": \"zxcv\", \"systemContact\": \"\", \"systemName\": \"TCPWave00007Remote.kiran.com\", \"processes\": \"
    00/dns-0/ssh-0/monit-0/syslog-ng-0/dhcpd-1\"\", \"enableSNMPv3\": \"false\", \"monitoringService\": \"yes\", \"banner\": \"The default
    value of Banner configuration for DNS and DHCP appliances.\"\", \"ldapSSHConfig\": \"{}\"\", \"enable\": \"false\"\",
    \"ntpConfig\": \"42.0.0.11\", \"resolverData\": \"
    {
      \"ns1\": \"42.0.0.12\", \"ns2\": \"\", \"ns3\": \"\", \"ns4\": \"\", \"search1\": \"\", \"search2\": \"\", \"search3\": \"\", \"search4\": \"\", \"search5\": \"\", \"search6\": \"\"}
    }
  }
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	DNS IPv6 appliance details	<a href="#">Server Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3009: Object does not exist. TIMS-3030: Both object id and IP Address cannot be null TIMS-3031: Object is not deleted as it is associated with a zone TIMS-3038: Appliance Type is not valid:{0} TIMS-3033: An Appliance already exists with the : {0} TIMS-3034: Both DNS Appliance Template name and id cannot be null TIMS-3035: Specified DNS Appliance Template not found TIMS-3036: Both DNS Options Template name and id cannot be null TIMS-3037: Specified DNS Options Template not found TIMS-3039: Cannot create an Appliance using a DHCP object TIMS-1335: DNS Internal Cache Appliance cannot be created as there is no root zone defined in this organization TIMS-3079: Both DNS Options Template name and id cannot be null TIMS-3080: DNS Options Template does not exist TIMS-10102: Both view id and view name cannot be null TIMS-10103: DNS View does not exist for name	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

### 4.79.2. DNS IPv6 Appliance Delete

```
POST /v6dnsserver/delete
```

### Description

Deletes an existing DNS IPv6 Appliance that is used to service the DNS requests. A DNS Appliance cannot be deleted when it is actively servicing any forward zone or a reverse zone.

The example listed below shows a sample request URL:  
v6dnsserver/delete?address=2000:100::2

### Parameters

Type	Name	Description	Schema	Default
Body	body required	Appliance details	<a href="#">Appliance Information</a>	

### Responses

HTTP Code	Description	Schema
500	TIMS-3050: Both Appliance id and address cannot be null TIMS-3052: Appliance is not deleted as other zone(s) are using it. Please remove the referencing zone(s) and retry TIMS-3053: Appliance is not deleted as other zone template(s) are using it. Please remove the referencing zone template(s) and retry TIMS-3055: Appliance is not deleted as other network(s) are using it. Please remove the referencing network(s) and retry TIMS-3092: Appliance does not exist.	No Content

### Consumes

- application/json
- application/xml

### Produces

- application/json
- application/xml

#### 4.79.3. DNS IPv6 Appliance Edit

```
POST /v6dnsserver/edit
```

### Description

Edits a DNS IPv6 appliance that is used to service the DNS requests. This remote appliance is configured, maintained and managed by the IPAM.

Below example shows sample request JSON:

```
{
  "server_type": "BIND AUTH",
  "stealthServer": 0,
  "internal_cache_server": 1,
  "dmzVisible": 0,
  "autoDNSDR": null,
  "autoRestoreConf": 0,
  "dns_server_template_name": "BIND AUTH Default Server Template",
  "dns_options_template_name": "BIND AUTH Default Template",
  "nsm_template": "test_template_1",
  "v6_ipaddress": "5000::2",
  "name": "DEV-DNSROOT-AUTH-004",
  "appliance_group": "",
  "timeZone": "GMT (GMT)",
  "description": "testing QA",
  "organization_name": "Internal",
  "snmpConfig": {
    "trapSink1": "5000::3",
    "trapSink2": "5000::4",
    "communityString": "sph1nkx5",
    "systemContact": "",
    "systemName": "DEV-DNSROOT-AUTH-004.plab.tcpwave.com",
    "processes": "ntpd-1/dns-1/sshd-1/monit-1/syslogng-1/dhcpd-1",
    "monitoringService": "yes",
    "banner": "Testing 12345678",
    "tacacsConfig": "0-@-10.1.10.1/10.1.10.2/10.1.10.3/10.1.10.4|abc123",
    "ntpConfig": "3000::2/3000::3/3000::4/3000::5",
    "syslogConfig": {
      "action": "/var/log/messages",
      "active": "yes",
      "selector": ".info;mail.none;authpriv.none;cron.none",
      "type": "File",
      "action": "/var/log/secure",
      "active": "yes",
      "selector": "authpriv",
      "type": "File",
      "action": "/var/log/maillog",
      "active": "yes",
      "selector": "mail",
      "type": "File",
      "action": "/var/log/cron",
      "active": "yes",
      "selector": "cron",
      "type": "File",
      "action": "omusrmsg:*",
      "active": "yes",
      "selector": ".emerg",
      "type": "DefaultType",
      "action": "/var/log/spooler",
      "active": "yes",
      "selector": "uucp,news.crit",
      "type": "File",
      "action": "/var/log/boot.log",
      "active": "yes",
      "selector": "local7",
      "type": "File",
      "action": "/var/log/test",
      "active": "yes",
      "selector": "auth,authpriv.debug",
      "type": "File"
    },
    "mgmtIP": "10.1.10.197",
    "dns64List": [],
    "idracSnmpCommunity": "no-@-@-@",
    "resolverData": {
      "ns1": "4000::2",
      "ns2": "",
      "ns3": "",
      "ns4": "",
      "search1": "",
      "search2": "",
      "search3": "",
      "search4": "",
      "search5": "",
      "search6": ""
    },
    "old_address": "5000::4",
    "domain_name": "plab.tcpwave.com"
  }
}
```

### Parameters

Type	Name	Description	Schema	Default
Body	body required	DNS IPv6 appliance details	<a href="#">Server Information</a>	

### Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
500	<p>TIMS-3030: Both object id and IP Address cannot be null</p> <p>TIMS-3031: Object is not deleted as it is associated with a zone</p> <p>TIMS-3038: Appliance Type is not valid:{0}</p> <p>TIMS-3033: An Appliance already exists with the specified address</p> <p>TIMS-3034: Both DNS Appliance Template name and id cannot be null</p> <p>TIMS-3035: Specified DNS Appliance Template not found</p> <p>TIMS-3036: Both DNS Options Template name and id cannot be null</p> <p>TIMS-3037: Specified DNS Options Template not found</p> <p>TIMS-3039: Cannot create an Appliance using a DHCP object</p> <p>TIMS-10102: Both view id and view name cannot be null</p> <p>TIMS-10103: DNS View does not exist for name</p> <p>TIMS-5033: Appliance Template does not exist</p> <p>TIMS-3050: Both Appliance id and address cannot be null</p> <p>TIMS-3091: Appliance does not exist</p> <p>TIMS-1336: DNS Appliance cannot be changed to Internal DNS Cache Appliance as there is no root zone defined in this organization</p> <p>TIMS-5009: Option Template does not exist</p> <p>TIMS-3079: Both DNS Options Template name and id cannot be null</p> <p>TIMS-3009: Object does not exist.</p>	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.79.4. Generate Configuration

```
GET /v6dnsserver/genconfig
```

#### Description

From the data repository, a list of configuration files is generated and various data integrity checks are done. The files are securely transferred to the remote. Compression is used during the final transfer. On the remote, the compressed configuration files expanded and put into appropriate places and the service is refreshed or restarted depending on the global option defined for file synchronization.

The example listed below shows a sample request URL:

```
/rest/dnsserver/genconfig?server_type_code=BIND AUTH&address=10.0.0.2&organization_name=orgNameValue
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>force_sync</b> <i>optional</i>	Force Sync Appliance	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>server_type_code</b> <i>required</i>	DNS Appliance Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	<p>TIMS-1349: DNS Configuration sync failed with error</p> <p>TIMS-9212: A sync is currently in progress initiated by {0} from {1}. Please wait until it is completed</p> <p>TIMS-9213: A download config is currently in progress initiated by {0} from {1}. Please wait until it is completed.</p>	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.79.5. DNS IPv6 Appliance Details

```
GET /v6dnsserver/get
```

#### Description

Get DNS IPv6 Appliance Detail. Functional Admin gets the list of all Appliances. Rest of the Admins get only the list of Appliances associated with the organization that they belong to. Functional Admin gets the list of all Appliances. Rest of the Admins get only the list of Appliances associated with the organization that they belong to. The example listed below shows a sample request URL:

/rest/v6dnsserver/get?serverTypeCode=BIND AUTH&serverIp=10.0.0.8

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>serverIp</b> <i>required</i>	Appliance IPv6 Address	string	
Query	<b>serverTypeCode</b> <i>optional</i>	Appliance Type Code	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Server Information</a>
500	TIMS-3050: Both Appliance id and address cannot be null.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.79.6. Appliance Sync Status GET

```
GET /v6dnsserver/getdnslastsyncstatus
```

#### Description

Provides the details of sync information for the given Appliance and Organization in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/serversync/get?address=10.1.10.183&orgName=QAOrg&serverType=BIND%20CACHE

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Server IP Address	string	
Query	<b>isV6</b> <i>optional</i>	Boolean value to represent the IPv6 appliance or not	boolean	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Query	<b>serverId</b> <i>optional</i>	Appliance Id	integer(int32)	
Query	<b>serverType</b> <i>required</i>	Appliance Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Appliance Synchronization Status</a>
500	TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-3091: Appliance does not exist.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.79.7. Enable or Disable Monitoring

```
POST /v6dnsserver/multimonitoring
```

#### Description

Enable or disable monitoring for the current TCPWave Remote in the TCPWave IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">Server Information</a> > array	



## Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

## Consumes

- application/json
- application/xml

## Produces

- application/json
- application/xml

### 4.79.8. DNS IPV6 Appliance List

```
GET /v6dnsserver/page
```

## Description

Obtains a list of all the DNS IPV6 Appliances defined in the TCPWave IPAM. Functional Admin gets the list of all Appliances. Rest of the Admins get only the list of Appliances associated with the organization that they belong to. The example listed below shows a sample request URL:

```
/rest/v6dnsserver/page/?draw=1&start=0&length=20&sort=name&order=asc&filterRules=[]
```

## Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>	Session token for authorization	string	
Query	<b>customFilterRules</b> <i>optional</i>	Custom Filter String	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization Names	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting DNS Appliance Range	integer(int32)	

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">Server Information</a>

## Consumes

- text/plain

## Produces

- application/json
- application/xml

### 4.79.9. IPv6 DNS Configuration Update

```
GET /v6dnsserver/reconfig
```

## Description

Updates the DNS configuration on the specified IPv6 DNS remote.

The example listed below shows a sample request URL:

```
/rest/v6dnsserver/reconfig?server_type_code=BIND AUTH&v6address=5000::2&organization_name=orgNameValue
```

## Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	

Type	Name	Description	Schema	Default
Query	<b>server_type_code</b> <i>required</i>	IPv6 DNS Appliance Type	string	
Query	<b>v6address</b> <i>required</i>	IPv6 Appliance IP Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-1349: DNS Configuration sync failed with error TIMS-9212: A sync is currently in progress initiated by {0} from {1}. Please wait until it is completed TIMS-9215: A DNS config update is currently in progress initiated by {0} from {1}. Please wait until it is completed. TIMS-9213: A download config is currently in progress initiated by {0} from {1}. Please wait until it is completed.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.79.10. Appliance Configuration

```
GET /v6dnsserver/server-configuration/{server_address}/{server_type}
```

#### Description

Lists the configuration type and configuration data for an specified appliance in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/v6dnsserver/server-configuration/2000:100::2/BIND AUTH/BIND CACHE/UNBOUND/NSD/DNS PROXY
```

#### Parameters

Type	Name	Description	Schema	Default
Path	<b>server_address</b> <i>required</i>	Appliance IPv6 Address	string	
Path	<b>server_type</b> <i>required</i>	Appliance Type Code	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Server Information</a>
500	TIMS-3038: Appliance Type is not valid:<Appliance Type Code>	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.79.11. Appliance References in Zone Template

```
GET /v6dnsserver/server-references
```

#### Description

Obtains the list of all the zone templates which are associated with the specified DNS IPv6 Appliance. For additional information about the DNS zone templates, please refer to the product documentation.

The example listed below shows a sample request URL:

```
/rest/v6dnsserver/server-references?address=2000:100::2
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IPv6 Address	string	
Query	<b>id</b> <i>optional</i>	Appliance Id	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3050: Both Appliance id and address cannot be null.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

### 4.79.12. Synchronize DNS Appliances

POST /v6dnsserver/syncAll

#### Description

From the data repository a list of configuration files are generated and various data integrity checks are done. The files are securely transferred to the remote. Compression is used during the final transfer. On the remote, the compressed configuration files expanded and put into appropriate places and the service is refreshed or restarted depending on the global option defined for file synchronization.

Below example shows sample request JSON:

```
[{"name":"DEV-CDNS-EXT-001","organization_name":"Internal","v6_address":"5000::1","server_type":"BIND AUTH"}, {"name":"DEV-CDNS-INT-001","organization_name":"Internal","v6_address":"5000::1","server_type":"BIND CACHE"}, {"name":"DEV-CDNS-INT-EXTFW-002","organization_name":"Internal","v6_address":"5000::1","server_type":"BIND CACHE"}, {"name":"DEV-CDNS-XDHCP-001","organization_name":"Internal","v6_address":"5000::1","server_type":"BIND AUTH"}, {"name":"DEV-DNS-PROXY-001","organization_name":"Internal","v6_address":"5000::1","server_type":"DNS PROXY"}, {"name":"nusgtdc-qrs01-sl0984","organization_name":"Internal","v6_address":"5000::1","server_type":"BIND AUTH"}, {"name":"nusruth-qrs01-sl0984","organization_name":"EARTH","v6_address":"5000::1","server_type":"BIND AUTH"}, {"name":"nusswdc-cxsqrs01-sl0984","organization_name":"Internal","v6_address":"5000::1","server_type":"BIND AUTH"}]
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>fasterSync</b> <i>optional</i>		boolean	
Body	<b>body</b> <i>optional</i>		< <a href="#">Server Basic Information</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1349: DNS Configuration sync failed with error	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

### 4.79.13. View Configuration of DNS Appliance

GET /v6dnsserver/viewconfig

#### Description

View the configuration file for the specified DNS Appliance in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/dnsserver/viewconfig?server\_type\_code=BIND AUTH&address=10.0.0.2&organizationName=orgNameValue

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>organizationName</b> <i>required</i>	Appliance Organization name	string	
Query	<b>server_type_code</b> <i>required</i>	DNS Appliance Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-1349: DNS Configuration sync failed with error	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

## 4.80. IPV6 Object Service

### Description

This service class provides REST API access to Add, Edit and Delete an IPv6 object from the TCPWave IPAM.

#### 4.80.1. Object Duplicate Name Checker

```
GET /ipv6object/IPv6duplicateNameChecker
```

### Description

Check for the occurrence of an IPv6 object with the same name.

### Parameters

Type	Name	Description	Schema	Default
Query	<b>domain_name</b> <i>required</i>	Domain Name	string	
Query	<b>ip_addr</b> <i>required</i>	IP Address	string	
Query	<b>name</b> <i>required</i>	Object Name	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.80.2. Add IPv6 Object

```
POST /ipv6object/add
```

### Description

Adds a new IPv6 object in the TCPWave IPAM. It is highly recommended to execute the object duplicate name checker and the A-CNAME conflict checker REST API calls to validate the data before executing this call.

Below example shows sample request JSON:

```
{ "v6addr": "3000::1", "alloc_type": "1", "class_code": "3G Phone",
  "domain_name": "demo.com", "organization_name": "QAOrg", "name": "3G55071Phone", "ttl": "1200",
  "subnet_address": "3000::", "update_ns_aaaa": true, "update_ns_ptr": true, "dyn_update_rrs_aaaa": true,
  "dyn_update_rrs_cname": true, "dyn_update_rrs_ptr": true, "dyn_update_rrs_mx": true }
```

### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	IPv6Object Details	<a href="#">IPv6 object</a>	

### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

- application/json
- application/xml

#### 4.80.3. Association list of the object's IP address.

GET /ipv6object/associationList

##### Description

This operation retrieves the association list of the v6 object's IP address.

The example listed below shows a sample request URL:

/rest/object/associationList?ip\_address=1.0.0.0&org=Internal&subnet\_addr=1.0.0.0/8

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip_address</b> <i>required</i>	Object IP Address	string	
Query	<b>org</b> <i>required</i>	Organization	string	
Query	<b>subnet_addr</b> <i>required</i>	Subnet IP address with mask	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Resource Record</a> > array

##### Consumes

- text/plain

##### Produces

- text/plain
- application/json
- application/xml

#### 4.80.4. Delete IPv6 Objects

POST /ipv6object/delete-multiple

##### Description

Deletes a selection of IPv6 objects at a time in the TCPWave IPAM.

Below example shows sample request JSON:

```
{"addressArray":["3000::1"],"isDeleterrChecked":0,"organization_name":"QAOrg"}
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List Of IPv6Object Details	<a href="#">IPv6 object</a>	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Resource Record</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml

#### 4.80.5. Update IPv6 Object

POST /ipv6object/edit

##### Description

Updates the existing IPv6 object details in the TCPWave IPAM. It is highly recommended to execute the object duplicate name checker and the A-CNAME conflict checker REST API calls to validate the data before executing this call.

Below example shows sample request JSON:

```
{"v6addr":"3000::1","alloc_type":1,"class_code":"3G Phone",
"domain_name":"demo.com","organization_name":"QAOrg","name":"3G55071Phone","ttl":1200,
"subnet_address":"300::","update_ns_aaaa": true, "update_ns_ptr": true, "dyn_update_rrs_aaaa": true,
"dyn_update_rrs_cname": true, "dyn_update_rrs_ptr": true, "dyn_update_rrs_mx": true}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	IPv6 Object Details	<a href="#">IPv6 object</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.80.6. Get IPv6 Object

```
GET /ipv6object/get
```

#### Description

Provides the details of a given IPv6 object in the TCPWave IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>id</b> <i>optional</i>	Object ID	integer(int32)	
Query	<b>object_addr</b> <i>required</i>	Object Address	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">IPv6 object</a>
500	TIMS-7003: You are not authorized to perform this operation TIMS-1354: Organization does not exist. TIMS-3010: Object does not exist<IPv6 object address>	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.80.7. Object DHCP Details

```
GET /ipv6object/getDHCPDetails
```

#### Description

Get the DHCP Properties configured for a Dynamic/Manual DHCP Object. Depending on the repeat parameters setting, some of the optional URL params will be required.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Object Address	string	
Query	<b>id</b> <i>optional</i>	Object ID	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Object DHCP Details</a>
500	TIMS-7002: Permission information cannot be retrieved. TIMS-3010: Object does not exist:	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.80.8. Get the next available free IP in a given subnet.

```
GET /ipv6object/getNextFreeIPv6IP
```

#### Description

Gets the next available free IP in a given subnet.

The example listed below shows a sample request URL:

```
/rest/object/getNextFreeIP?subnet_addr=2000::1&org_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>range_end_addr</b> <i>optional</i>	Range End Address	string	
Query	<b>range_start_addr</b> <i>optional</i>	Range Start Address	string	
Query	<b>subnet_addr</b> <i>required</i>	Subnet Address	string	
Query	<b>subnet_id</b> <i>optional</i>	Subnet ID	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- text/plain

#### Produces

- text/plain
- application/json
- application/xml

#### 4.80.9. IPV6 object list

```
GET /ipv6object/page
```

#### Description

Displays ipv6 object list for associated ipv6 subnet.

The example listed below shows a sample request URL:

```
/rest/ipv6object/page?organization=Internal&start=1&length=20&subnet_address=1200::
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Order parameter	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting IPV6 Object Range	integer(int32)	
Query	<b>subnet_addr</b> <i>required</i>	subnet address	string	

Type	Name	Description	Schema	Default
Query	subnet_id <i>optional</i>	subnet id	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListIPv6 Object</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.80.10. Network Resource Record Add

```
POST /ipv6object/rr/add
```

#### Description

Add resource records to a network in the TCPWave IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		<a href="#">Resource Record</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7002: Permission information cannot be retrieved, TIMS-9561: Old owner of the resource record cannot be null, TIMS-9564: Old data of the resource record cannot be null, TIMS-1352: Cannot find organization: <Organization Name>, TIMS-7003: You are not authorized to perform this operation, TIMS-3006: Object address cannot be null, TIMS-3009: Object does not exist, TIMS-3015: Resource record does not exist, TIMS-12030: CNAME does not refer to a valid AAAA record, TIMS-12031: No AAAA record found for given owner name:<Owner Name> Please enter a valid AAAA record name, TIMS-3025: Resource Records already exist	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.80.11. Resource Record Delete

```
POST /ipv6object/rr/delete
```

#### Description

Deletes a Resource Record

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		<a href="#">Resource Record</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7002: Permission information cannot be retrieved.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.80.12. Schedule Object Job

```
POST /ipv6object/schedObjectOperation
```



### Description

Schedules an Object job.

The example listed below shows a sample request URL:

/rest/ipv6object/schedObjectOperation?jobId=64

### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Id of scheduled object operation	string	

### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

### Consumes

- application/json
- application/xml

### Produces

- application/json
- application/xml
- text/plain

### 4.80.13. Scheduled object add operation.

```
POST /ipv6object/sched_add
```

### Description

Schedule an Object Creation Operation. Depending on the repeat parameters setting, some of the optional URL params will be required.

The example listed below shows a sample request URL:

/rest/ipv6object/sched\_add?jobId=64

### Parameters

Type	Name	Description	Schema	Default
Query	<b>day</b> <i>required</i>	Operation Day	integer(int32)	
Query	<b>description</b> <i>required</i>	Operation Description String	string	
Query	<b>endtime</b> <i>required</i>	Operation Endtime	string	
Query	<b>frequency</b> <i>required</i>	Operation Frequency	string	
Query	<b>jobId</b> <i>required</i>	Job Id	string	
Query	<b>repeat</b> <i>required</i>	Operation Occurrence	integer(int32)	
Query	<b>repeatCount</b> <i>required</i>	Operation repeatCount	integer(int32)	
Query	<b>repeatInterval</b> <i>required</i>	Operation repeatInterval	integer(int64)	
Query	<b>runtime</b> <i>required</i>	Operation Runtime	string	
Query	<b>starttime</b> <i>required</i>	Operation Starttime	string	
Body	<b>body</b> <i>required</i>	Object details	<a href="#">TIMS Object</a>	

### Responses

HTTP Code	Description	Schema
500	TIMS-6105: Object cannot be created as license limit of maximum objects reached.	No Content

### Consumes

- application/json
- application/xml

### Produces

- application/json
- application/xml

#### 4.80.14. Search Objects

```
GET /ipv6object/search
```

##### Description

Provides list of Objects.

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>required</i>	Organization List	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting IPV6 Object Range	integer(int32)	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListIPv6 Object</a>
500	TIMS-7002: Permission information cannot be retrieved.	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.80.15. Ping IPv6 Address

```
GET /ipv6object/tools/ping
```

##### Description

Pings available IPv6 address.

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>required</i>	IPv6 Address	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Ping Data</a>

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.80.16. Trace Route Object

```
GET /ipv6object/tools/traceroute
```

##### Description

Traces the IPv6 object and shows the routers in between the IPAM and the IPv6 object from the TCPWave IPAM.

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>required</i>	IPv6 Address	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Ping Data</a>

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.80.17. Resource Record Traverse

POST /ipv6object/traverse

#### Description

Resource record look up in remote IPv6 DNS Server. Performs the basic name resolution for a given resource record using the target DNS server on which the check is to be executed in the TCPWave IPAM.

Sample payloads with mandatory parameters to traverse object are listed below.

```
{ "rr_name": "3G251Phone", "domain_name": "addzone.com", "organization_name": "Internal", "rr_value": "5000:", "rev_zone_name": "0.0.0.0.0.0.0.0.0.0.0.0.0.5.ip6.arpa", "obj_type": "IPv6", "dnssec_enabled": false }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">DNS Appliance Tool</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DNS Appliance Tool</a> > array
500	TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Organization does not exist:<Organization Name>, TIMS-1422: TIMS-1422: Zone does not exist:<Zone Name>	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

#### 4.80.18. IPv6 Resource Record Check CNAME Conflict

POST /ipv6object/v6rr/checkAAAAtoCNAMEconflict

#### Description

Checks AAAA to CNAME Resource Record(RR) conflict in the TCPWave IPAM. It is mandatory to have a different name for a A RR than that of existing CNAME RR and vice-versa.

The example listed below shows a sample request URL:

```
/rest/zone/v6rr/checkAAAAtoCNAMEconflict?ownerName=1tcp.com.test.com.&org_name=Internal&recordType=CNAME&data=server.test.com.
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>data</b> <i>required</i>	Resource Record Data	string	
Query	<b>org_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>ownerName</b> <i>required</i>	Resource Record owner name	string	
Query	<b>recordType</b> <i>required</i>	Resource Record Type	string	
Query	<b>view_names</b> <i>optional</i>	Resource Record View Names	string	

#### Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-1020: Both Organization name and id cannot be null, TIMS-3072: A or CNAME <Given Record Name> record already exists for an Object: <Object Name>, TIMS-1420: A or CNAME <Given Record Name> record already exists in Zone: <Zone Name>	No Content

#### Consumes

- application/json
- application/xml

### 4.81. IPV6 Pool Service

#### 4.81.1. Add IPV6 Pool

POST /ipv6pool/add

#### Description

Creates a new IPV6 Pool in the TCPWave IPAM. It checks if it is overlapping with any existing network or not.

Below example shows sample request JSON:

```
{ "address": "5000::", "mask_length": "48", "name": "tcpwave-network", "description": "", "zoneTemplateId": null, "dmzVisible": "yes", "dnssec_enable": "yes", "nsec_option": "NSEC3", "serialFormat": "DATE", "zoneTemplateName": null, "percentageFull": "90", "email_check": "0", "snmp_check": "0", "log_check": "0", "rrs": [], "created_by": "2189", "organization_name": "QAOrg" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	IPV6 Pool details	<a href="#">IPV6 Network Details</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist, TIMS-1020: Both Organization name and id cannot be null, TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.81.2. Delete IPV6 Pool

POST /ipv6pool/delete

#### Description

Deletes the specified IPV6 Pool present in the TCPWave IPAM . Functional Admin can delete networks belonging to any organization. Rest of the admins can delete networks belonging to their organization only.

Below example shows sample request JSON:

```
{ "address": "5000::", "ipv6FullAddress": "50000000000000000000000000000000", "organization_name": "QAOrg" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	IPV6 pool details	<a href="#">IPV6 Network Details</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-2008 - Both Pool address and id cannot be null.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.81.3. Update IPV6 Pool

POST /ipv6pool/edit

#### Description

Updates the existing IPV6 Pool details in the TCPWave IPAM. These actions are audited.

Below example shows sample request JSON:

```
{ "address": "5000::", "mask_length": null, "name": "tcpwave-network", "description": "test", "zoneTemplateId": null, "dmzVisible": "yes", "dnssec_enable": "yes", "nsec_option": "NSEC", "serialFormat": "DATE", "zoneTemplateName": [{"domain_id": 150328, "owner": "tcp.test.com", "ttl": 1200, "rrclass": "IN", "rrtype": "PTR", "data": "5000::1", "description": "", "name": "tcp"}], "oldName": "tcpwave-network", "organization_name": "QAOrg", "ipv6FullAddress": "50000000000000000000000000000000" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	IPv6 pool details	<a href="#">IPv6 Network Details</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-2008 - Both Pool address and id cannot be null. TIMS-7003 - You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.81.4. IPv6 Pool list

```
GET /ipv6pool/page
```

#### Description

Lists all the IPv6 Pools available in the TCPWave IPAM. Functional Admin gets the list of all Pools. Rest of the Admins get only the list of networks to the organization that they belong to.

#### Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>	Session token for authorization	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Order parameter	string	
Query	<b>organizations</b> <i>optional</i>	Comma Separated Organization Names	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting IPV6 Pool Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedList_dIPv6 Network Details</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.81.5. Search Pools

```
GET /ipv6pool/search
```

#### Description

Searches for all IPv6 pools available in the TCPWave IPAM. The results can be seen on the search screen of the TCPWave IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>required</i>	Organization List	string	
Query	<b>page</b> <i>required</i>	Page	integer(int32)	
Query	<b>rows</b> <i>required</i>	Rows	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListIPv6 Network Details</a>

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

## 4.82. IPv6 Scope Service

### Description

This service class provides REST API access to Create, Modify and Delete a DHCPv6 scope in the TCPWave IPAM.

#### 4.82.1. Scope Create

```
POST /v6scope/autoprovision
```

### Description

Creates DHCP Scopes by validating if the given start IP and end IP span through a valid free IP address in a subnet. The logic also checks if the DHCP Option Template associated to the scope has a valid Router and Subnet Mask that match with the subnet profile.

Below example shows sample request JSON:

```
{ "update_ns_a": true, "update_ns_ptr": true, "dyn_update_rrs_a": true, "dyn_update_rrs_cname": true, "dyn_update_rrs_ptr": true, "dyn_update_rrs_mx": true, "ttl": "1200", "v6Scope": { "class_code": "3G Phone", "description": "", "organization_name": "QAOrg", "primary_dhcp_server": "QA-Remote", "count": "2", "size": "2", "allocation_type": "dynamic", "template_name": "option-temp", "allowClassesArray": [], "denyClassesArray": [], "subnetAddress": "3000::" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Create Scope Request	<a href="#">Create Scope Request</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1259: Object address range does not belong to any network TIMS-1262: Subnet does not have a primary router defined and the template has the option router defined TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

#### 4.82.2. IPv6 Scope Delete

```
POST /v6scope/delete
```

### Description

Delete one or more IPv6 DHCP Scopes.

Below example shows sample request JSON:

```
{ "addressRange": "3000::4-3000::5", "subnetAddress": "3000::", "organization_name": "QAOrg" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of IPv6 scopes	< <a href="#">Delete Scope Request</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1261: Scope does not exist for object range: start ip - end ip	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.82.3. List IPv6 DHCP Scopes

```
GET /v6scope/list
```

#### Description

Provides a paginated list of IPv6 DHCP Scope Definitions in the TCPWave IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>org_name</b> <i>required</i>	Organization name	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting IPV6 Scope Range	integer(int32)	
Query	<b>subnet_address</b> <i>optional</i>	Subnet address of the scope	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListIPv6 Scope</a>
500	TIMS-7003: You are not authorized to perform this operation TIMS-2015: Subnet does not exist.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.82.4. IPv6 Scope Delete

```
POST /v6scope/singledelete
```

#### Description

Delete one or more IPv6 DHCP Scopes.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Scope delete details	< <a href="#">Delete Scope Request</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1261: Scope does not exist for object range: start ip - end ip	No Content

#### Consumes

- application/json
- application/xml

- application/json
- application/xml

#### 4.82.5. Scope Validation Request

GET /v6scope/validate\_request

##### Description

Provides the subnet address, DHCP Option Template and DHCP Appliance for a given scope. The start IP and end IP of a scope are the inputs for this REST Call.

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizationName</b> <i>required</i>	Organization Name	string	
Query	<b>subAdr</b> <i>required</i>	Subnet Address	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Scope Validate Request Data</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.83. IPV6 Subnet Group Service

##### Description

This service provides a list of subnet groups with IPv6 subnets listed in each group. Grouping of IPv6 subnets is usually desirable when allocating write permissions to normal administrators belonging to a business unit. It is more efficient to manage permissions when Admin Groups have appropriate access to Subnet Groups. When a single administrator joins or leaves the firm or if a new IPv6 subnet is added / modified / deleted, permissions become easier to manage with the grouping logic mentioned above.

##### 4.83.1. IPv6 Subnet Group Add

POST /ipv6subnetgroup/add

##### Description

Adds new IPv6 Subnet Group in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "name": "tcp-grp", "description": "test" }
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	IPv6 subnet group details	<a href="#">Subnet Group</a>	

##### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation TIMS-1352: Organization does not exist:<Organization Name> TIMS-2014: Subnet group already exists	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml

##### 4.83.2. IPv6 Subnet Group Delete All

POST /ipv6subnetgroup/deleteAll

##### Description

Deletes multiple IPv6 subnet groups by dis-associating the subnets referring to them or without dis-associating subnets referring to them. Functional Admins can delete all the subnet groups in any organization. Other Admins can delete the subnet groups belonging to their organization only.



Below example shows sample request JSON:

```
{ "subnetGroupList": [{"name": "subGroup2", "organization_name": "QAOrg"}, {"name": "tcp-  
sg1", "organization_name": "Internal"}], "deleteWithReferences": "false" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Multiple IPv6 subnet group details	<a href="#">Subnet Group Delete Request</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Subnet Group References</a>
500	TIMS-7003: You are not authorized to perform this operation TIMS-2015: Subnet does not exist	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.83.3. Disassociate Subnet

```
POST /ipv6subnetgroup/disassociate
```

#### Description

Dis-associates Subnet from the Subnet Group. This action is audited.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>fullAddress</b> <i>required</i>	Subnet address	string	
Query	<b>org_name</b> <i>required</i>	Organization Id	string	

#### Responses

HTTP Code	Description	Schema
500	Subnet does not exist.	No Content

#### Consumes

- application/json
- application/xml

#### 4.83.4. IPV6 Subnet Group Get

```
GET /ipv6subnetgroup/get
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>id</b> <i>optional</i>	Id of the subnet group	string	
Query	<b>name</b> <i>required</i>	Name of the subnet group	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Subnet Group</a>
500	TIMS-2015: Subnet does not exist	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.83.5. IPv6 Subnet Group List

```
GET /ipv6subnetgroup/list
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	organizations	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Subnet Group</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

##### Consumes

- `text/plain`

##### Produces

- `application/json`
- `application/xml`

#### 4.83.6. List Subnets present in the given Subnet Group

```
GET /ipv6subnetgroup/listSubnets
```

##### Description

Returns a list of Subnets present in the given Subnet Group.

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting IPV6 Subnet Group Range	integer(int32)	
Query	<b>subnet_grp_id</b> <i>required</i>	Subnet Group Id	integer(int32)	
Query	<b>subnet_grp_name</b> <i>required</i>	Subnet Group Name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSubnet Information</a>

##### Consumes

- `text/plain`

##### Produces

- `application/json`
- `application/xml`

#### 4.83.7. IPv6 Subnet Group Organization List

```
GET /ipv6subnetgroup/listbyorg
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_name</b> <i>optional</i>	Organization Name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Subnet Group</a> > array
500	TIMS-7003: You are not authorized to perform this operation TIMS-1352: Organization does not exist: <Organization name>	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.83.8. IPV6 Subnet Group Update

POST /ipv6subnetgroup/update

#### Description

Updates the subnet groups present in the TCPWave IPAM. Functional Admins can update a subnet group in any organization. Other Admins can update the subnet groups in their own organization only.

Below example shows sample request JSON:

```
{ "name": "v6Subgroup", "description": "", "organization_name": "QAOrg", "oldName": "Subgroupv6" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	IPV6 subnet group details	<a href="#">Subnet Group</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-2014: Subnet group already exists: <Subnet group name>	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

### 4.84. IPV6 Subnet Service

#### Description

This service class provides REST API access to Create, Modify and Delete an IPV6 subnet in the TCPWave IPAM.

#### 4.84.1. List Active Leases

GET /ipv6subnet/activeLeases

#### Description

Lists all the DHCP Objects that are holding an active lease in the given subnet that is defined in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "serverAddress": "20000000000000000000000000000009", "v4serverAddress": "192.168.56.162", "subnetAddress": "2000::", "organization_name": "Internal" }
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizationName</b> <i>required</i>	Organization Name	string	
Query	<b>page</b> <i>optional</i>	Page	integer(int32)	
Query	<b>rows</b> <i>optional</i>	Rows	integer(int32)	
Query	<b>serverAddress</b> <i>required</i>	Server Address	string	
Query	<b>subnetAddress</b> <i>required</i>	Subnet Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListDHCPLeaseObject</a>

#### Consumes

- text/plain

- application/json
- application/xml

#### 4.84.2. IPv6 Subnet Add

```
POST /ipv6subnet/add
```

##### Description

Creates a new IPv6 subnet by checking if it overlaps with the existing subnets defined in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "name": "tcp-subnet", "fullAddress": "5000:0:0:b::", "mask_length": 64,
  "primary_domain": "test.com", "routerAddress": "5000:0:0:b:1", "description": "",
  "network_address": "5000::", "organization_name": "QAOrg" }
```

##### Parameters

Type	Name	Description	Schema	Default
Body	body <i>required</i>	IPv6 subnet details	<a href="#">IPv6 Subnet</a>	

##### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation, TIMS-3101: Network does not exist: network_address	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml

#### 4.84.3. Subnet Add All

```
POST /ipv6subnet/addall
```

##### Description

Creates all the possible subnets in a given block by taking all the existing subnets into consideration.

The allowed subnet types are (1)Non-DHCP (2)DHCP Enabled (3)Cloud Hosted

Non-DHCP subnet type can be used to create static objects. DHCP Enabled subnet type is used to create DHCP objects along with static objects and Cloud Hosted subnet type is used to create cloud instances.

When Non-DHCP subnet type is selected, the parameters primary\_domain and routerAddress are mandatory.

When DHCP Enabled subnet type is selected, primary\_domain, routerAddress, template\_name and primary\_dhcp\_server are mandatory.

When Enable Discovery is yes, Objects present in the subnet will be eligible for discovery. If Enable Discovery is yes then discovery\_template is mandatory field.

When Enable Reclaim is set to yes, The objects present in the subnet will be eligible for reclaim validation and the objects that are not pingable in the reclaim period from the current time will be eligible for reclaim.

Sample payloads with mandatory parameters to add a subnet are listed below.

##### Create NON-DHCP Subnet:

```
{ "nw_mask_length": 8, "mask_length": 10, "network_address": "10.0.0.0", "subnet": { "router_option": "First IP in the subnet", "organization_name": "QAOrg", "primary_domain": "test.com" } }
```

##### Create DHCP-Enabled Subnet:

```
{ "nw_mask_length": 8, "mask_length": 10, "network_address": "10.0.0.0", "subnet": { "router_option": "First IP in the subnet", "organization_name": "QAOrg", "primary_domain": "test.com", "template_name": "dhcp_option_template", "primary_dhcp_server": "TCPWave00002Remote" } }
```

##### Create Cloud Hosted Subnet:

```
{ "nw_mask_length": 8, "mask_length": 10, "network_address": "10.0.0.0", "subnet": { "router_option": "First IP in the subnet", "organization_name": "QAOrg", "primary_domain": "test.com", "cloudProviderName": "cloudflare" } }
```

##### Create subnet with Enable Discovery:

```
{ "nw_mask_length": 8, "mask_length": 10, "network_address": "10.0.0.0", "subnet": { "router_option": "First IP in the subnet", "organization_name": "QAOrg", "primary_domain": "test.com", "enable_discovery": "yes", "discovery_template": "Default Discovery Template" } }
```

##### Create subnet with Enable Reclaim:

```
{ "nw_mask_length": 8, "mask_length": 10, "network_address": "10.0.0.0", "subnet": { "router_option": "First IP in the subnet", "organization_name": "QAOrg", "primary_domain": "test.com", "reclaim_objects": "yes", "discovery_template": "Default Discovery Template" } }
```

##### Parameters

Type	Name	Description	Schema	Default
Body	body <i>required</i>	Multiple subnets add operation	<a href="#">Multi Subnet Request</a>	

##### Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
500	TIMS-2008: Both Block address and id cannot be null, TIMS-3101: Block does not exist: <Network Address>, TIMS-1355: Organization id is null, TIMS-1321: Domain does not exist: <Domain Name>, TIMS-1449: Cannot associate a restricted domain : <Domain Name> to the subnet, TIMS-5001: Template already exists, TIMS-2018: Subnet group information does not exist, TIMS-1505: Location information does not exist, TIMS-5035: DHCP Template does not exist: <DHCP Template Name>, TIMS-3058: DHCP Appliance does not exist: <DHCP Appliance Name>, TIMS-7004: Please select a DHCP Template.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.84.4. Deletes IPv6 subnets

POST /ipv6subnet/delete

#### Description

Deletes one or more IPv6 subnets, provided there are no DNS/DHCP Appliances defined in them.

Below example shows sample request JSON:

```
{ "fullAddress": "5000000000000000B000000000000000", "ipv6Address": "5000:0:0:b::", "mask_length": 64 }
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Body	<b>body</b> <i>required</i>	List of IPv6 subnet details	< <a href="#">IPv6 Subnet</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.84.5. IPv6 Subnet Edit

POST /ipv6subnet/edit

#### Description

Edits the IPv6 subnet and modifies various attributes corresponding to the subnet.

Below example shows sample request JSON:

```
{ "subnet": { "name": "tcp-subnet", "fullAddress": "5000:0:0:a::", "ipv6Address": "5000:0:0:a::", "mask_length": null, "primary_domain": "test.com", "routerAddress": "5000:0:0:a::1", "street1": "1416 Sugar Camp Road", "city": "Spring Grove", "state": "MN", "country": "Minnesota", "zip": "55974", "primary_dhcp_server": "None", "description": "testing", "template_name": "None" } }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	IPv6 subnet details	<a href="#">Multi IPv6 Subnet Request</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.84.6. IPv6 Subnet Details

```
GET /ipv6subnet/getIPv6SubnetDetails
```

##### Description

Provides the details of a specified IPv6 subnet in a network defined in the TCPWave IPAM.

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_name</b> <i>required</i>	Required Organization name	string	
Query	<b>subnet_address</b> <i>required</i>	Required Subnet's Address	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">IPv6 Subnet</a>
500	TIMS-7002: Permission information cannot be retrieved., TIMS-7003: You are not authorized to perform this operation.	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.84.7. Get Subnet

```
GET /ipv6subnet/ip/{address}/{organization_name}
```

##### Description

Retrieves the parent subnet information of the current IP address specified in the TCPWave IPAM.

##### Parameters

Type	Name	Description	Schema	Default
Path	<b>address</b> <i>required</i>	Network IP Address	string	
Path	<b>organization_name</b> <i>required</i>	Organization Name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">IPv6 Subnet</a>
500	TIMS-2016: Subnet does not exist: <Subnet Address>	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.84.8. Subnet List Page

```
GET /ipv6subnet/listv6subnet
```

##### Description

Returns a JSON list of subnets defined in an IPv6 network.

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>network_ip</b> <i>required</i>	IP of the Network	string	
Query	<b>order</b> <i>optional</i>	Order (asc/desc)	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>page</b> <i>required</i>	Starting IPv6 Subnet Range	integer(int32)	

Type	Name	Description	Schema	Default
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>rows</b> <i>required</i>	Ending IPv6 Subnet Range	integer(int32)	
Query	<b>sort</b> <i>optional</i>	Sort String	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListIPv6 Subnet</a>
500	TIMS-7002: Permission information cannot be retrieved, TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.84.9. Subnet Add Multiple

```
POST /ipv6subnet/multiadd
```

#### Description

Creates multiple subnets by checking if they overlap with the existing subnets in the TCPWave IPAM.

The allowed subnet types are (1)Non-DHCP (2)DHCP Enabled (3)Cloud Hosted

Non-DHCP subnet type can be used to create static objects. DHCP Enabled subnet type is used to create DHCP objects along with static objects and Cloud Hosted subnet type is used to create cloud instances.

When Non-DHCP subnet type is selected, the parameters primary\_domain and routerAddress are mandatory.

When DHCP Enabled subnet type is selected, primary\_domain, routerAddress, template\_name and primary\_dhcp\_server are mandatory.

When Enable Discovery is set to yes, The Objects present in the subnet will be eligible for discovery. If Enable Discovery is yes then discovery\_template is mandatory field.

When Enable Reclaim is set to yes, The objects present in the subnet will be eligible for reclaim validation and the objects that are not pingable in the reclaim period from the current time will be eligible for reclaim.

Sample payloads with mandatory parameters to add a subnet are listed below.

##### Create NON-DHCP Subnet:

```
{ "address":["2001:dc0::","2001:dd0::"],"block_mask_length":24,"subnet":{"block_address":"2001:dc0::",
"mask_length":"12","organization_name":"QAOrg", "router_option":"First IP in the
subnet","primary_domain":"test.com"}}
```

##### Create DHCP-Enabled Subnet:

```
{ "address":["2001:dc0::","2001:dd0::"],"block_mask_length":24,"subnet":{"block_address":"10.0.0.0",
"mask_length":"12","organization_name":"QAOrg", "router_option":"First IP in the subnet","primary_domain":"test.com",
"template_name":"dhcp_option_template","primary_dhcp_server":"TCPWave00002Remote"}}
```

##### Create Cloud Hosted Subnet:

```
{ "address":["2001:dc0::","2001:dd0::"],"block_mask_length":24,"subnet":{"block_address":"10.0.0.0",
"mask_length":"12","organization_name":"QAOrg", "router_option":"First IP in the subnet","primary_domain":"test.com",
"cloudProviderName":"cloudflare"}}
```

##### Create subnet with Enable Discovery:

```
{ "address":["2001:dc0::","2001:dd0::"],"block_mask_length":24,"subnet":{"block_address":"2001:dd0::",
"mask_length":"12","organization_name":"QAOrg", "router_option":"First IP in the subnet","primary_domain":"test.com",
"enable_discovery":"yes", "discovery_template":"Default Discovery Template"}}
```

##### Create subnet with Enable Reclaim:

```
{ "address":["2001:dc0::","2001:dd0::"],"block_mask_length":24,"subnet":{"block_address":"2001:dd0::",
"mask_length":"12","organization_name":"QAOrg", "router_option":"First IP in the subnet","primary_domain":"test.com",
"reclaim_objects":"yes", "discovery_template":"Default Discovery Template"}}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Multiple subnets details	<a href="#">Multi Subnet Request</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-2008: Both Block address and id cannot be null, TIMS-3101: Block does not exist: <Network Address>, TIMS-1355: Organization id is null, TIMS-1321: Domain does not exist: <Domain Name>, TIMS-1449: Cannot associate a restricted domain : <Domain Name> to the subnet, TIMS-5001: Template already exists, TIMS-2018: Subnet group information does not exist, TIMS-1505: Location information does not exist, TIMS-5035: DHCP Template does not exist: <DHCP Template Name>, TIMS-3058: DHCP Appliance does not exist: <DHCP Appliance Name>, TIMS-7004: Please select a DHCP Template.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.84.10. Subnet list page

GET /ipv6subnet/paged

#### Description

Retrieves the detailed list of subnets of the current network in the TCPWave IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>	Session token for authorization	string	
Query	<b>block_addr</b> <i>required</i>	Network Address	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Order String	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting IPv6 Subnet Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListIPv6 Subnet</a>
500	TIMS-3001: An object exists at the given address. Please select an unallocated address, TIMS-3004: Cannot add an object at subnet boundary.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.84.11. Subnet Search

GET /ipv6subnet/search

#### Description

Search an specified subnet or list of Subnets from search screen in the TCPWave IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>required</i>	Organization List	string	
Query	<b>page</b> <i>required</i>	Page	integer(int32)	
Query	<b>rows</b> <i>required</i>	Rows	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListIPv6 Subnet</a>



#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.84.12. IPv6 Subnet Split

```
POST /ipv6subnet/split
```

#### Description

Splits a given ipv6 subnet and creates two or more smaller ipv6 subnets of a desired mask length. Note: The DHCP Definitions of the subnet that is being split are removed after the split is effective.

Sample payload with mandatory parameters to split a subnet is listed below.

```
{ "mask_length": "16", "router_option": "First IP in the subnet", "organization_name": "QAOrg", "Address": "5000::" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Subnet entity for split operation	<a href="#">IPv6 Subnet</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3088: Server IP address is null, TIMS-2015: Subnet does not exist, TIMS-2017: Choose a mask length greater than <Mask Length>	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

### 4.85. IPV6 Template Service

#### Description

This service class provides REST API access to Create, Modify and Delete an IPv6 DHCP Option Templates in the TCPWave IPAM.

#### 4.85.1. Add IPv6 DHCP Option Template

```
POST /v6templates/create
```

#### Description

Creates a IPv6 DHCP Option Template by performing a sanity check on parameters configured in the template.

Below example shows sample request JSON:

```
{ "template_name": "option-temp", "description": "", "organization_name": "QAOrg", "array_params": [{"display_name": "RAPID COMMIT", "value": "yes"}, {"display_name": "NIS DOMAIN NAME", "value": "tcpwave.com"}] }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	IPv6 option template details	<a href="#">Template</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### 4.85.2. List Configured Options Of IPv6 DHCP Option Template

```
GET /v6templates/list-params
```

#### Description

Provides a list of IPv6 DHCP Options configured in a given Option Template as well as all the DHCP Options supported by the TCPWave IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	

Type	Name	Description	Schema	Default
Query	<b>template_id</b> <i>optional</i>	Id of the template	integer(int32)	
Query	<b>template_name</b> <i>required</i>	IPv6 DHCP option template	string	
Query	<b>viewAll</b> <i>required</i>	List of all the option parameters of template	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Template</a>
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.85.3. List IPv6 DHCP Option Templates

```
GET /v6templates/option-template-list
```

#### Description

Obtains a list of all IPv6 DHCP Option Templates defined and managed by the TCPWave IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>organizations</b> <i>optional</i>	Organizations	string	
Query	<b>page</b> <i>required</i>	Starting IPv6 DHCP Option Templates Range	integer(int32)	
Query	<b>q</b> <i>required</i>	match value	string	
Query	<b>rows</b> <i>required</i>	Page Length	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListTemplate</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.85.4. Template Search

```
GET /v6templates/option-template-search
```

#### Description

Searches for a given Template in the TCPWave IPAM based on a full text input.

The example listed below shows a sample request URL:

```
/rest/templates/search?start=1&length=20
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	

Type	Name	Description	Schema	Default
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>required</i>	Organization List	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Template Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListTemplate</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.85.5. Template Page

```
GET /v6templates/page/{server_type_code}/{entity_type_code}
```

#### Description

Lists all the Templates with pagination for the given Server type code and Entity type code associated with an organization in the TCPWave IPAM. Functional Admin can list the Templates for any organization. Rest of the admins can list the Templates only for the organizations that they are associated with.

#### Parameters

Type	Name	Description	Schema	Default
Path	<b>entity_type_code</b> <i>required</i>	Entity Type Code	string	
Path	<b>server_type_code</b> <i>required</i>	Server Type Code	string	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>inEdit</b> <i>required</i>	In Edit	integer(int32)	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>page</b> <i>optional</i>	Starting IPV6 Template Range	integer(int32)	
Query	<b>q</b> <i>optional</i>	Match Value	string	
Query	<b>reference_id</b> <i>optional</i>	Reference Id	integer(int32)	
Query	<b>reference_type</b> <i>required</i>	Reference Type	string	
Query	<b>rows</b> <i>optional</i>	Page Length	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListTemplate Selection Data</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.85.6. Find IPV6 DHCP Option Template References

```
GET /v6templates/references
```

#### Description

Obtains a list of DHCP Option Template reference in TCPWave IPAM.

The example listed below shows a sample request URL:  
 /rest/templates/references?tables=tableName

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>count</b> <i>optional</i>	Count Flag	string	
Query	<b>id</b> <i>optional</i>	Reference Id	string	
Query	<b>page</b> <i>optional</i>	Page Number	integer(int32)	
Query	<b>rows</b> <i>optional</i>	Number of rows	integer(int32)	
Query	<b>tables</b> <i>required</i>	Table	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Reference Results</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.85.7. Updates IPv6 DHCP Option Template

POST /v6templates/update

#### Description

Updates a IPv6 DHCP Option Template and performs a sanity check to make sure that the options defined in the template have valid values in it. Failing which, the update will be discarded by the TCPWave IPAM. On success, An incremental update is sent to all the DHCP Appliances that have scopes and Manual DHCP Objects associated to the template.

Below example shows sample request JSON:

```
{
  "template_name": "option-temp",
  "description": "",
  "organization_name": "QAOrg",
  "old_template_name": "option-template",
  "array_params": [
    {
      "display_name": "RAPID COMMIT",
      "value": "yes"
    },
    {
      "display_name": "NIS DOMAIN NAME",
      "value": "tcpwave.com"
    }
  ]
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	IPv6 DHCP option template details	<a href="#">Template</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### 4.85.8. IPv6 Template Parameter Name Search

GET /v6templates/v6params-name/search

#### Description

Searches for DNS/DHCP Template Parameter Names in the TCPWave IPAM based on the given text input.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organizations	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Template Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListTemplate</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.85.9. IPv4 Template Parameter Value Search

```
GET /v6templates/v6params-value/search
```

#### Description

Searches for DNS/DHCP IPv6 Template Parameter Value in the TCPWave IPAM based on the given text input.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Template Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListTemplate</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.86. IPv6 Audit Report Service

#### Description

This class contains information related to all IPv6 reports. The class includes grid functionality, download reports in CSV format, PDF format, send reports via email to the selected contacts in PDF format, schedules email in a specific time and provides list of all dropdowns for all audit reports.

#### 4.86.1. CSV Report

```
POST /v6auditreports/csvreport
```

#### Description

Provides a CSV file for audit reports present in the TCPWave IPAM.

Below example shows sample request JSON:

```
"string"
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>action</b> <i>required</i>	Operation executed by Admin	string	

Type	Name	Description	Schema	Default
Body	body optional		<a href="#">Audit Report</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-9314: Export to CSV failed.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.86.2. Email Report

POST /v6auditreports/emailreport

#### Description

User can send the generated audit report to the email address of the contacts present in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "userId": 1224, "serverName": "TCPWave00002Remote", "serverIp": "10.0.0.5", "clientIp": "127.0.0.2", "mask": 24,
"patch": "string", "admin_jobs": "Rest", "execution_status": "success/failure", "execution_time": "2019-02-04 05:24:00",
"adminName": "john", "adminRole": "FADM", "action": "create/modify/delete", "vlan_id": "2456", "email_recipients":
"abc@def.com", "server_type": "BIND AUTH/DHCP", "service_name": "abcservice", "host_address": "10.1.10.241",
"host_name": "abcd", "network_status": "active/deleted", "dropdown_status": "active/deleted", "config_name": "abc",
"param_val": "abc", "optionTempl": "optiontemplate", "asso_type": "abc", "param_domainName": "abc", "organization":
"Earth", "subnet_group": "subnetgrp", "actionType": "success/failure", "obj_count": 12, "zone_name": "abc.com", "rows":
12, "stealth_server": 12, "internal_cache_server": 12, "dmz_visible": "0/1", "monitoring_service": "CHECK_MONIT",
"subnet_id": 1241, "view_name": "abcview", "host_id": 1241, "domain": "abc.com", "record_type": "SOA", "source_ip":
"10.1.10.241", "login_time": "2019-02-01 05:06:14", "logout_time": "2019-02-01 05:06:14", "ip_address": "10.1.10.241",
"name": "abc", "proxy": 12, "macAddress": "65:e1:44:a6:85:7b", "change_ticket": "abc123", "contact_first_name": "string",
"contact_last_name": "string", "mailsHeading": "string", "xmlFileName": "string", "fileName":
"audit_history_attachment_backup_4_2019.csv"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	body optional		<a href="#">Audit Report</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-9312: Current selection exceeds the allowable Email size. Please modify your criteria or use CSV file download.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.86.3. IPv6 Network List (Audit Report)

GET /v6auditreports/ipv6Network

#### Description

Obtains a list of existing IPv6 networks and deleted IPv6 networks for auditing purposes.

The example listed below shows a sample request URL:

/rest/v6auditreports/ipv6Network

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

- application/json
- application/xml

#### 4.86.4. IPv6 Subnet List (Audit Report)

```
GET /v6auditreports/ipv6Subnet
```

##### Description

Obtains a list of existing IPv6 networks and deleted IPv6 networks for auditing purposes.  
The example listed below shows a sample request URL:  
/rest/v6auditreports/ipv6Subnet

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.86.5. IPv6 DHCP Appliance List

```
GET /v6auditreports/ipv6dhcpserverlist
```

##### Description

Provides a list of existing IPv6 DHCP Appliances and deleted IPv6 DHCP Appliances for auditing purposes.  
Below is the example request:  
/tims/rest/v6auditreports/ipv6dhcpserverlist?actionType=active

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>required</i>	Action type(active/deleted)	string	
Query	<b>organization</b> <i>required</i>	Organization	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.86.6. IPv6 Subnet Template List

```
GET /v6auditreports/ipv6subnetTemplatelist
```

##### Description

Provides a list of existing IPv6 Subnet Templates and deleted IPv6 Subnet Templates for auditing purposes.  
Below is the example request:  
/tims/rest/v6auditreports/ipv6subnetTemplatelist?actionType=active

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>required</i>	Action type(active/deleted)	string	
Query	<b>organization</b> <i>required</i>	Organization	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

##### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.86.7. DHCP IPv6 Appliance List

GET /v6auditreports/livev6applianceList

#### Description

Provides a list of existing DHCP IPv6 Appliance List.

Below is the example request:

/tims/rest/v6auditreports/livev6applianceList?organization=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>required</i>	Organization	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Server Information</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.86.8. PDF Report

POST /v6auditreports/pdfreport

#### Description

Provides a PDF format report for the audit report in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "userId": 1224, "serverName": "TCPWave00002Remote", "serverIp": "10.0.0.5", "clientIp": "127.0.0.2", "mask": 24, "patch": "string", "admin_jobs": "Rest", "execution_status": "success/failure", "execution_time": "2019-02-04 05:24:00", "adminName": "john", "adminRole": "FADM", "action": "create/modify/delete", "vlan_id": "2456", "email_recipients": "abc@def.com", "server_type": "BIND AUTH/DHCP", "service_name": "abcservice", "host_address": "10.1.10.241", "host_name": "abcd", "network_status": "active/deleted", "dropdown_status": "active/deleted", "config_name": "abc", "param_val": "abc", "optionTempl": "optiontemplate", "asso_type": "abc", "param_domainName": "abc", "organization": "Earth", "subnet_group": "subnetgrp", "actionType": "success/failure", "obj_count": 12, "zone_name": "abc.com", "rows": 12, "stealth_server": 12, "internal_cache_server": 12, "dmz_visible": "0/1", "monitoring_service": "CHECK_MONIT", "subnet_id": 1241, "view_name": "abcview", "host_id": 1241, "domain": "abc.com", "record_type": "SOA", "source_ip": "10.1.10.241", "login_time": "2019-02-01 05:06:14", "logout_time": "2019-02-01 05:06:14", "ip_address": "10.1.10.241", "name": "abc", "proxy": 12, "macAddress": "65:e1:44:a6:85:7b", "change_ticket": "abc123", "contact_first_name": "string", "contact_last_name": "string", "mailsHeading": "string", "xmlFileName": "string", "fileName": "audit_history_attachment_backup_4_2019.csv" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Audit Report</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-9313: Current selection exceeds the allowable PDF rows limit than the global option default page rows. Please modify your criteria or use CSV file download.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.86.9. IPv6 Report chart list

GET /v6auditreports/reportchartlist

#### Description



Obtains a list to display the chart for reports.

Below is the example request:

```
/tims/rest/v6auditreports/reportchartlist?actionType=active&org_id=1641&draw=1&start=0&length=10&filterRules=[{"field":"networkAddress","op":"contains","value":"2"}]
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>optional</i>	Action type	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>fromDate</b> <i>required</i>	Starting date for fetching records	string	
Query	<b>ipAddress_domainName</b> <i>optional</i>	IP address or domain name	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	order param(asc/desc)	string	
Query	<b>org_id</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>organization</b> <i>optional</i>	Organization Name	string	
Query	<b>period</b> <i>optional</i>	period	string	
Query	<b>reportType</b> <i>required</i>	Report types (Network/subnet/object etc)	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Page Number	integer(int32)	
Query	<b>toDate</b> <i>required</i>	Ending date for fetching records	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.86.10. IPv6 Audit

```
GET /v6auditreports/reportlist
```

#### Description

Obtains a list of IPv6 reports in grid for the audit reports in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/v6auditreports/reportlist?
```

```
reportType=Network&fromDate=2020/10/22&toDate=2020/11/22&ipAddress_domainName=domain.com&org_id=1400&organization=Internal&draw=1&start=1
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>action</b> <i>required</i>	Action performed	string	
Query	<b>actionType</b> <i>optional</i>	Action Type(active/deleted)	string	
Query	<b>draw</b> <i>required</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>fromDate</b> <i>required</i>	From Date	string	

Type	Name	Description	Schema	Default
Query	<b>ipAddress_domainName</b> <i>required</i>	Domain name	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>mask_length</b> <i>optional</i>	Mask Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	order param(asc/desc)	string	
Query	<b>org_id</b> <i>required</i>	Organization ID	integer(int32)	
Query	<b>organization</b> <i>required</i>	Organization Name	string	
Query	<b>reportType</b> <i>required</i>	Report types (Network/subnet/object etc)	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Report Range	integer(int32)	
Query	<b>toDate</b> <i>required</i>	Up to Date	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>
500	TIMS-8059: Please select report start date. TIMS-8060: Please select report end date.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.86.11. Schedule Report Email

```
POST /v6auditreports/sched_emailreport
```

#### Description

User can Schedule the time to email the report in PDF format to the email address of the contacts present in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/v6auditreports/sched_emailreport?repeat=1&frequency=1&runtime=2029-12-01 05:06:14&starttime=2029-12-01 04:06:14&endtime=2029-12-01
```

```
06:06:14&day=2&description=test&repeatInterval=12546&repeatCount=2&adminName=admin&adminRole=SADM
```

Below example shows sample request JSON:

```
{ "userId": 1224, "serverName": "TCPWave00002Remote", "serverIp": "10.0.0.5", "clientIp": "127.0.0.2", "mask": 24, "patch": "string", "admin_jobs": "Rest", "execution_status": "success/failure", "execution_time": "2019-02-04 05:24:00", "adminName": "john", "adminRole": "FADM", "action": "create/modify/delete", "vlan_id": "2456", "email_recipients": "abc@def.com", "server_type": "BIND AUTH/DHCP", "service_name": "abcservice", "host_address": "10.1.10.241", "host_name": "abcd", "network_status": "active/deleted", "dropdown_status": "active/deleted", "config_name": "abc", "param_val": "abc", "optionTempl": "optiontemplate", "asso_type": "abc", "param_domainName": "abc", "organization": "Earth", "subnet_group": "subnetgrp", "actionType": "success/failure", "obj_count": 12, "zone_name": "abc.com", "rows": 12, "stealth_server": 12, "internal_cache_server": 12, "dmz_visible": "0/1", "monitoring_service": "CHECK_MONIT", "subnet_id": 1241, "view_name": "abcview", "host_id": 1241, "domain": "abc.com", "record_type": "SOA", "source_ip": "10.1.10.241", "login_time": "2019-02-01 05:06:14", "logout_time": "2019-02-01 05:06:14", "ip_address": "10.1.10.241", "name": "abc", "proxy": 12, "macAddress": "65:e1:44:a6:85:7b", "change_ticket": "abc123", "contact_first_name": "string", "contact_last_name": "string", "mailsHeading": "string", "xmlFileName": "string", "fileName": "audit_history_attachment_backup_4_2019.csv" }
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>adminName</b> <i>required</i>	Name of Network Admin who is scheduling the email	string	
Query	<b>adminRole</b> <i>required</i>	Role of the Admin (FADM/SADM/UADM/RADM)	string	
Query	<b>day</b> <i>required</i>	Day of Execution of the scheduled operation	integer(int32)	
Query	<b>description</b> <i>required</i>	Description about the scheduled operation	string	

Type	Name	Description	Schema	Default
Query	<b>endtime</b> <i>required</i>	Ending time for executing the scheduled operation	string	
Query	<b>frequency</b> <i>required</i>	Frequency of the scheduled operation	string	
Query	<b>repeat</b> <i>required</i>	Occurrences of the scheduled operation	integer(int32)	
Query	<b>repeatCount</b> <i>required</i>	Count for repetition of scheduled operation	integer(int32)	
Query	<b>repeatInterval</b> <i>required</i>	Time duration between repetition of the scheduled operation	integer(int64)	
Query	<b>runtime</b> <i>required</i>	Execution time of the scheduled operation	string	
Query	<b>starttime</b> <i>required</i>	Starting time for executing the scheduled operation	string	
Body	<b>body</b> <i>optional</i>		<a href="#">Audit Report</a>	

#### Responses

HTTP Code	Description	Schema
<b>default</b>	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.86.12. IPv6 Block List

```
GET /v6auditreports/v6blocklist
```

#### Description

Obtains a list of existing IPv6 block and deleted IPv6 block for auditing purposes in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/v6auditreports/v6blocklist?org\_id=1544&actionType=active&q=abc

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>required</i>	Action type	string	
Query	<b>org_id</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>page</b> <i>optional</i>	Total pages	integer(int32)	
Query	<b>q</b> <i>required</i>	Search string	string	
Query	<b>rows</b> <i>optional</i>	Rows per page	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListAudit Report Details</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.86.13. IPv6 Option Template List (Audit Report)

```
GET /v6auditreports/v6dhcptiontmp1list
```

#### Description

Obtains a list of existing DHCP IPv6 Option Templates and deleted DHCP IPv6 Option Templates for auditing purposes.

The example listed below shows a sample request URL:

## Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>required</i>	Action type(active/deleted)	string	
Query	<b>organization</b> <i>required</i>	Organization	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

## Consumes

- text/plain

## Produces

- application/json
- application/xml

## 4.86.14. IPv6 DNS Servers List

```
GET /v6auditreports/v6dnsserverslist
```

## Description

Provides a list of existing IPv6 DNS servers and deleted IPv6 DNS servers for auditing purposes.

Below is the example request:

```
/tims/rest/v6auditreports/v6dnsserverslist?actionType=active&organization=Internal
```

## Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>required</i>	Action type(active/deleted)	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

## Consumes

- text/plain

## Produces

- application/json
- application/xml

## 4.86.15. IPv6 Network List

```
GET /v6auditreports/v6networkslist
```

## Description

Obtains a list of existing IPv6 networks and deleted IPv6 networks for auditing purposes in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/v6auditreports/v6networkslist?actionType=active&q=abc
```

## Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>required</i>	Action type	string	
Query	<b>org_id</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>page</b> <i>optional</i>	Total pages	integer(int32)	
Query	<b>q</b> <i>required</i>	Search string	string	
Query	<b>rows</b> <i>optional</i>	Rows per page	integer(int32)	

## Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListAudit Report Details</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.86.16. IPv6 Reverse Zones List

```
GET /v6auditreports/v6revzonelist
```

#### Description

Provides a list of existing IPv6 Reverse Zones and deleted IPv6 Reverse zones for auditing purposes.

Below is the example request:

```
/tims/rest/v6auditreports/v6revzonelist?actionType=active&organization=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>actionType</b> <i>required</i>	Action type(active/deleted)	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Audit Report Details</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.86.17. IPv6 Subnet Group List (Audit Report)

```
GET /v6auditreports/v6subnetgrplist
```

#### Description

Obtains a list of existing IPv6 subnet groups and deleted IPv6 subnet groups for auditing purposes.

The example listed below shows a sample request URL:

```
/rest/v6auditreports/v6subnetgrplist?rows=10&page=1&q=abc
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_id</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>page</b> <i>required</i>	Total pages	integer(int32)	
Query	<b>q</b> <i>required</i>	Search string	string	
Query	<b>rows</b> <i>required</i>	Rows per page	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListAudit Report Details</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.87. IPv6 IPAM Template Service

##### 4.87.1. IPAM Template List

```
GET /v6IPAMTemplate/get
```

### Description

Provides the list of IPv6 IPAM Templates  
The example listed below shows a sample request URL:  
`/rest/v6IPAMTemplate/get`

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">V6IPAMTemplate</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

### Consumes

- `text/plain`

### Produces

- `application/json`
- `application/xml`

## 4.88. IPv6 Policy Compliance Service Details

### 4.88.1. IPv6 Appliances Policy Compliance Information

```
GET /v6policyCompliance/list
```

### Description

This operation retrieves the list of IPv6 policy compliance information for DNS/DHCP/IPAM appliances.  
To list the policy compliance information on a specific DNS appliance, users must specify `server_type` parameters as 'BIND AUTH', 'BIND CACHE', 'UNBOUND', 'NSD' or 'DNS PROXY'. To list the policy compliance information on all the DNS appliances or any particular appliance group or all the appliance groups, users must specify the `server_type` parameter as DNS. To list the policy compliance information on DHCP appliance(s), the `server_type` parameter must be specified as DHCP. To list the policy compliance information on IPAM appliance(s), the `server_type` parameter must be specified as IPAM.

The following examples shows a sample request URLs:

The following is the sample URL to list checkout information for a BIND AUTH type appliance.  
`rest/checkouts/list?applianceType=BIND AUTH&applianceAddress=172.16.0.13&level=appliance&orgName=TCPWave`

The following is the sample URL to list checkout information for all the DNS appliances.  
`rest/v6policyCompliance/list?applianceType=DNS&level=appliance`

The following is the sample URL to list checkout information for all the DNS appliances which are associated with any appliance group.  
`rest/v6policyCompliance/list?applianceType=DNS&level=appliance_group&orgName=TCPWave`

the following is the sample URL to list checkout information for all the DNS appliances which are associated with specified appliance group.  
`rest/v6policyCompliance/list?applianceType=DNS&level=appliance_group&applianceGroup=Group_Name&orgName=TCPWave`

### Parameters

Type	Name	Description	Schema	Default
Query	<b>applianceAddress</b> <i>optional</i>	IP Address of the IPAM/DNS/DHCP Appliance	string	
Query	<b>applianceGroup</b> <i>optional</i>	Appliance Group Name	string	
Query	<b>applianceId</b> <i>optional</i>	ID of the DNS/DHCP Appliance	integer(int32)	
Query	<b>applianceName</b> <i>optional</i>	Name of the DHCP Appliance	string	
Query	<b>applianceType</b> <i>required</i>	Type of the Appliance	string	
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>level</b> <i>required</i>	Level type. Takes either <code>appliance</code> or <code>appliance_group</code>	string	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>orgName</b> <i>optional</i>	Appliance Group organization	string	

Type	Name	Description	Schema	Default
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Contact Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListPolicy Compliance Entity</a>
500	TIMS-7003: You are not authorized to perform this operation, TIMS-3038: Appliance Type is not valid: {0}	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.88.2. Policy Compliance checks.

```
POST /v6policyCompliance/run
```

#### Description

This operation performs DNS/DHCP/IPAM Policy Compliance checks

To run policy compliance check on a specific DNS appliance, `server_type` parameter must be specified as 'BIND AUTH', 'BIND CACHE', 'UNBOUND', 'NSD' or 'DNS PROXY'. To run policy compliance check on all the DNS appliances or any particular appliance group or all the appliance groups, `server_type` parameter must be specified as DNS. To run policy compliance check on DHCP appliance(s), `server_type` parameter must be specified as DHCP. To run policy compliance check on IPAM appliance(s), `server_type` parameter must be specified as IPAM.

The following examples shows a sample request URLs:

The following is the sample URL to run checkout operation for a BIND CACHE type appliance.

```
rest/v6policyCompliance/run?applianceType=BIND
CACHE&applianceAddress=172.16.0.13&level=appliance&orgName=TCPWave
```

The following example is the sample URL to run checkout operation for all the DNS appliances.

```
rest/v6policyCompliance/run?applianceType=DNS&level=appliance&orgName=TCPWave
```

The following is the sample URL to run checkout operation for all the DNS appliances which are associated with any appliance group.

```
rest/v6policyCompliance/run?applianceType=DNS&level=appliance_group&orgName=TCPWave
```

The following is the sample URL to run checkout operation for all the DNS appliances which are associated with specified appliance group.

```
rest/v6policyCompliance/run?
applianceType=DNS&level=appliance_group&applianceGroup=Group_Name&orgName=TCPWave
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>applianceAddress</b> <i>optional</i>	IP Address of the DNS Appliance	string	
Query	<b>applianceGroup</b> <i>optional</i>	Appliance Group Name	string	
Query	<b>applianceName</b> <i>optional</i>	Name of the DHCP Appliance	string	
Query	<b>applianceType</b> <i>required</i>	Type of the Appliance	string	
Query	<b>level</b> <i>required</i>	Level type. Takes either appliance or appliance_group	string	
Query	<b>orgName</b> <i>optional</i>	Appliance Group organization	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation, TIMS-3038: Appliance Type is not valid: {0}	No Content

#### Consumes

- text/plain

- application/json
- application/xml

#### Produces

- application/json
- application/xml

### 4.89. IPv6 Subnet Template Service

#### Description

This service provides API's to manage IPv6 Subnet Templates in the TCPWave IPAM.

#### 4.89.1. IPv6 Subnet Template Add

POST /v6subnet\_template/add

#### Description

Creates a new IPv6 Subnet Template that can be used during creation of IPv6 subnets in TCPWave IPAM.

Below example shows sample request JSON:

```
{ "name": "v6_subnet_template_1", "organizationName": "Internal", "primaryDomain": "Domainpostman", "dhcpServerName": "", "dhcpOptionTemplateName": "", "sv6StartOffset": "10", "sv6EndOffset": "20", "domain": "Domainpostman", "classCode": "3G Phone", "allocationType": "1", "clientClassAllow": "", "clientClassDeny": "", "userClassAllow": "", "userClassDeny": "", "vendorClassAllow": "", "vendorClassDeny": "", "ttl": "
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	IPv6 Subnet Template details.	<a href="#">Subnet Template</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1020: Organization does not exist, TIMS-7003: You are not authorized to perform this operation, TIMS-5006: Template already exists: {Template Name}, TIMS-11057: Invalid router option specified.	No Content

#### Consumes

- application/json
- application/xml

#### 4.89.2. IPv6 Subnet Template Delete

POST /v6subnet\_template/delete

#### Description

Deletes the specified IPv6 subnet template.

The example listed below shows a sample request URL:

/v6subnet\_template/delete?name=v6\_subnet\_template\_1&org\_name=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Name	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Subnet Template</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain
- application/json

#### Produces

- application/json
- application/xml

#### 4.89.3. IPv6 Subnet Template Get

GET /v6subnet\_template/details

#### Description

Fetches the details of an IPv6 subnet template.

The example listed below shows a sample request URL:

/rest/v6subnet\_template/details?org\_name=Internal&name=testTemplate

#### Parameters



Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Name	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Subnet Template</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.89.4. Update IPv6 Subnet Template

```
POST /v6subnet_template/edit
```

#### Description

Update an existing IPv6 Subnet Template that can be used during creation of IPv6 subnets in TCPWave IPAM.

Below example shows sample request JSON:

```
{
  "oldName": "v6_subnet_template_1",
  "name": "v6_subnet_template_1",
  "organizationName": "Internal",
  "primaryDomain": "Domainpostman",
  "dhcpServerName": "Template Edit",
  "addressAllocationList": [
    {
      "v6StartOffset": 10,
      "v6EndOffset": 20,
      "classCode": "3G Phone",
      "allocationType": 1,
      "domain": "Domainpostman",
      "ttl": 1200
    }
  ]
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	IPv6 Subnet Template details.	<a href="#">Subnet Template</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1020: Organization does not exist, TIMS-7003: You are not authorized to perform this operation, TIMS-5006: Template already exists: {Template Name}, TIMS-11057: Invalid router option specified.	No Content

#### Consumes

- application/json
- application/xml

#### 4.89.5. IPv6 Subnet Template List

```
GET /v6subnet_template/list
```

#### Description

Fetches the list of IPv6 subnet templates.

The example listed below shows a sample request URL:

```
/rest/v6subnet_template/list?organizations=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	organizations	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Subnet Template</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.89.6. IPv6 Subnet Template List By Organization

GET /v6subnet\_template/p\_listbyorg

### Description

Obtains a list of all IPv6 subnet templates that are associated to a specified Organization.

The example listed below shows a sample request URL:

/v6subnet\_template/p\_listbyorg?start=1&length=20&org\_name=Internal

### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>inSubnetEdit</b> <i>optional</i>	In Subnet Edit	string	
Query	<b>length</b> <i>required</i>	Ending Subnet Template Range	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sorting Order(asc/desc)	string	
Query	<b>org_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>q</b> <i>required</i>	Match Value	string	
Query	<b>sort</b> <i>optional</i>	Sorting String	string	
Query	<b>start</b> <i>required</i>	Starting Subnet Template Range	integer(int32)	

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSubnet Template</a>
500	TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Organization does not exist:<Organization Name>	No Content

### Consumes

- text/plain

### Produces

- application/json
- application/xml

### 4.89.7. List of IPv6 Subnet Template Search Elements

GET /v6subnet\_template/search

### Description

Returns a list of IPv6 subnet template searched by User in the TCPWave IPAM.

The example listed below shows a sample request URL:

/v6subnet\_template/search?start=1&length=20

### Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>		string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Subnet_Template Object Range	integer(int32)	

## Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSubnet Template</a>

## Consumes

- text/plain

## Produces

- application/json
- application/xml

## 4.90. Import Cloud Service

### Description

This Service avails facility of Importing entities such as Subnet, Object etc in the TCPWave IPAM.

#### 4.90.1. Import from cloud

```
POST /importcloud/import
```

### Description

Import subnets or objects from cloud

Below example shows sample request JSON:

```
[{"cloudProvider": "101", "orgName": "Internal"}]
```

### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">Import Instances From Cloud Subnet</a> > array	

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Import Cloud Response</a>

## Consumes

- application/json
- application/xml

## Produces

- application/json
- application/xml

#### 4.90.2. Page

```
GET /importcloud/subnet/page
```

### Description

The example listed below shows a sample request URL:

```
/rest/importcloud/subnet/page?organization=Internal
```

### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organization</b> <i>optional</i>	Organization Name	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Service Range	integer(int32)	

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListCloud Hosted Subnet</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.90.3. updateAutoImportSubnets

POST /importcloud/updateAutoImportSubnets

#### Description

Below example shows sample request JSON:  
 "[\"string\"]"

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< string > array	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

### 4.91. Import Service

#### Description

This service provides facility to import data from CSV files in the TCPWave the IPAM.

#### 4.91.1. Comma Separated Files Name

GET /import/checkAndDeleteExistingFile

#### Description

Check files existence. /tmp/acl.out,/tmp/acl.err,/tmp/failed-acl.csv

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>files</b> <i>required</i>	Comma Separated Files Name	string	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.91.2. Download the file

GET /import/downloadFile

#### Description

Download the file from /tmp directory from UI

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>fileName</b> <i>required</i>		string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500		No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.91.3. Import Field's Type

GET /import/fields

#### Description

Supported Import Fields in the TCPWave IPAM.  
The example listed below shows a sample request URL:  
/rest/import/fields?type=remote\_license

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>type</b> <i>required</i>	Supported Field Types	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Column Metadata</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.91.4. Supported Import File Types

GET /import/supported\_types

#### Description

Supported Import File types in the TCPWave IPAM.  
The example listed below shows a sample request URL:  
/rest/import/supported\_types

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Import Type Information</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.91.5. Import

POST /import/{type}

#### Description

Import data from csv files into the TCPWave IPAM.  
{ "input\_file": "string", "output\_file": "string", "error\_file": "string", "max\_permmissible\_errors": 0, "failed\_entries\_file": "string" }

#### Parameters

Type	Name	Description	Schema	Default
Path	<b>type</b> <i>required</i>	Import File Type	string	
Body	<b>body</b> <i>optional</i>		<a href="#">Import Command</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Import Response Information</a>

#### Consumes

- application/json

#### Produces

- application/json
- application/xml

## 4.92. Internet Root Hints Service

### Description

This service provides API's to list, add, update and delete the names and addresses of root DNS servers available in the root hint file in the TCPWave IPAM.

#### 4.92.1. Internet Root Hint Edit

POST /roothints/edit

### Description

Updates the names and address of root DNS Appliances that are defined in the root hint file available in the TCPWave IPAM.

Below example shows sample request JSON:

```
{
  "id":23,"zoneName":".", "ttl":3600000,"ns":"A.ROOT-SERVERS.NET","ipv4":"198.41.0.4","ipv6":"2001:503:ba3e::2:30","description":"FORMERLY NS.INTERNIC.NET"}

```

### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		<a href="#">Internet Root Hint</a>	

### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation, TIMS-1318: Both Internet Root Hints id and NS should not be null, TIMS-1319: Internet Root Hints id cannot find for given NS: <The given NS>.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.92.2. Internet Root Hint List

GET /roothints/list

### Description

List all the Internet Root Hint. Lists the names and addresses of root DNS Appliances available in the root hint file of the TCPWave IPAM. It contains the names and addresses of root DNS Appliances.

The example listed below shows a sample request URL:

/rest/roothints/list

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Internet Root Hint</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.92.3. Internet Root Hints Sync

GET /roothints/sync

### Description

Synchronizes the names and address of root DNS Appliances defined in the root hint file with the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/roothints/sync

## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">InternetRootHints Sync</a> > array
500	TIMS-7003: You are not authorized to perform this operation, TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Organization does not exist: <Given Organization ID>, TIMS-3050: Both server id and address cannot be null, TIMS-5013: Template Name is null, TIMS-3090: Both server id and name cannot be null, TIMS-3092: Server does not exist: <Given server>.	No Content

## Consumes

- text/plain

## Produces

- application/json
- application/xml

## 4.93. Location Service

### Description

Provides the information that is relevant to a location such as the street, address, city, state , zip code etc.

#### 4.93.1. Add Location

POST /location/add

### Description

Creates a new Location. Functional Admin can create a location for any organization. Rest of the admins can create locations only for the organizations that they are associated with.

Below example shows sample request JSON:

```
{ "organization_name": "QAOrg", "street1": "1416 Sugar Camp Road", "street2": "", "city": "Spring Grove", "state": "MN", "zip": "55974", "country": "Minnesota" }
```

### Parameters

Type	Name	Description	Schema	Default
Body	body optional		<a href="#">Locations</a>	

## Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist, TIMS-1020: Both Organization name and id cannot be null.	No Content

## Consumes

- application/json
- application/xml

## Produces

- application/json
- application/xml

#### 4.93.2. Delete Location

POST /location/delete

### Description

Deletes an existing Location in the TCPWave IPAM. Functional Admin can delete a location for any organization. Rest of the admins can create locations only for the organizations that they are associated with.

Below example shows sample request JSON:

```
{ "organization_name": "QAOrg", "street1": "1417 Sugar Camp Road", "street2": "", "city": "Spring Grove", "state": "MN", "zip": "55974", "country": "Minnesota", "full_location": "1417 Sugar Camp Road, Spring Grove, MN, Minnesota, 55974" }
```

### Parameters

Type	Name	Description	Schema	Default
Body	body optional		<a href="#">Locations</a>	

## Responses

HTTP Code	Description	Schema
500	TIMS-1504: Location does not exist, TIMS-1354: Organization does not exist.	No Content

## Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.93.3. Get Location

POST /location/get

#### Description

Lists the locations associated with an organization in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "organization_name": "QAOrg1", "street1": "1416 Sugar Camp Road", "street2": "", "city": "Spring Grove", "state": "MN", "country": "Minnesota", "zip": "55974" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Locations</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Locations</a>
500	TIMS-1504: Location does not exist. TIMS-1354: Organization does not exist.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.93.4. Get Location

GET /location/getFullLocations

#### Description

Provides the properties of a specified IPv6 network in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/location/getFullLocations?page=1&rows=20&q=abc

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>required</i>	Page Draw Param	integer(int32)	
Query	<b>inEdit</b> <i>required</i>	If edit location is enabled	integer(int32)	
Query	<b>length</b> <i>required</i>	Size	integer(int32)	
Query	<b>organization_id</b> <i>optional</i>	ID of the Organization	string	
Query	<b>organization_name</b> <i>optional</i>	Name of the Organization	string	
Query	<b>page</b> <i>required</i>	Total pages	integer(int32)	
Query	<b>q</b> <i>required</i>	Search String to get Location	string	
Query	<b>rows</b> <i>required</i>		integer(int32)	
Query	<b>start</b> <i>required</i>	Start	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListLocations</a>
500		No Content

#### Consumes

- text/plain

#### Produces



- application/json
- application/xml

#### 4.93.5. Location List References

POST /location/locationReferences

##### Description

Lists all the Locations which are referenced in the TCPWave IPAM.

Below example shows sample request JSON:

```
{
  "id": "22",
  "organization_id": "3401",
  "organization_name": "QAOrg",
  "street1": "22 Main street",
  "street2": "Opp. white mall",
  "city": "WARNERTOWN",
  "state": "Sydney",
  "zip": "5540",
  "country": "Australia",
  "new_street1": "32 Main street",
  "new_street2": "Opp. Red Bungalow",
  "new_city": "Toronto",
  "new_state": "Ontario",
  "new_zip": "6580",
  "new_country": "Canada",
  "full_location": "22 Main street, Opp. white mall, WARNERTOWN, Sydney, Australia-5540"
}
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Locations</a>	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Location References</a> > array

##### Consumes

- application/json
- text/plain

##### Produces

- application/json
- application/xml

#### 4.93.6. Location List References

GET /location/references

##### Description

Lists all the Locations which are referenced in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/location/references?tables=1&id=20&count=abc

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>count</b> <i>required</i>	Total Count param	string	
Query	<b>id</b> <i>required</i>	Reference ID	string	
Query	<b>page</b> <i>optional</i>	Page	integer(int32)	
Query	<b>rows</b> <i>optional</i>	Rows	integer(int32)	
Query	<b>tables</b> <i>required</i>	Reference Table	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Reference Results</a>

##### Consumes

- application/json
- text/plain

##### Produces

- application/json
- application/xml

#### 4.93.7. Search Location

GET /location/search

##### Description

Provides the list of searched locations on search screen in the TCPWave IPAM.

The example listed below shows a sample request URL:

## Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>required</i>	Organization List	string	
Query	<b>page</b> <i>required</i>	Total page	integer(int32)	
Query	<b>rows</b> <i>required</i>	Rows per page	integer(int32)	

## Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListLocations</a>

## Consumes

- text/plain

## Produces

- application/json
- application/xml

## 4.93.8. Edit Location

```
POST /location/update
```

## Description

Updates an existing location in the TCPWave IPAM. Functional Admin can edit a location for any organization. Rest of the admins can create locations only for the organizations that they are associated with.

Below example shows sample request JSON:

```
{ "street1": "1416 Sugar Camp Road street", "street2": "", "city": "Spring Grove City", "state": "MN", "zip": "55874", "country": "Minnesota" }
```

## Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Locations</a>	

## Responses

HTTP Code	Description	Schema
500	TIMS-1360: No changes detected to update, TIMS-1501: Please select a single location to edit.	No Content

## Consumes

- application/json
- application/xml
- text/plain

## Produces

- application/json
- application/xml

## 4.94. Log Category Service

## Description

This Service provides Logger Category information. The information includes the Id, Name and its description.

## 4.94.1. Log Categories List

```
GET /logcat/list
```

## Description

Obtains a list of all the Log Categories defined and managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/logcat/list
```

## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Logger Category</a> > array

## Consumes

- text/plain

## Produces

- application/json
- application/xml

## 4.95. Log Channel Service

### Description

This Service class provides information about Log Channel. This includes log channel name, type, version, severity and debug level etc.

#### 4.95.1. Add Log Channel

POST /logchannel/add

### Description

Creates a new log channel in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "id": 21, "channel": "named", "type": 0, "type_string": "SYSLOG", "versions": 6, "size": 1024000, "facility": "syslog", "severity": 1, "print_time": true, "print_severity": true, "print_category": true, "special_channel": false, "severity_text": "debug", "debug_level": 0, "file_path": "/var/named/log/named.log" }
```

### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Logger Channel</a>	

### Responses

HTTP Code	Description	Schema
500	TIMS-1304: Log channel already exists: <Channel Name>	No Content

### Consumes

- application/json
- application/xml

### Produces

- application/json
- application/xml

#### 4.95.2. Delete Log Channels

POST /logchannel/delete

### Description

Deletes an existing log channel defined in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/logchannel/delete?channel=test

### Parameters

Type	Name	Description	Schema	Default
Query	<b>channel</b> <i>required</i>	Channel Name	string	
Query	<b>id</b> <i>optional</i>	Channel ID	integer(int32)	

### Responses

HTTP Code	Description	Schema
500	TIMS-1305: Log channel in use. Please remove the references from DNS Appliances and retry: <channel name>	No Content

### Consumes

- application/json
- application/xml

### Produces

- application/json
- application/xml

#### 4.95.3. Delete Multiple Log Channels

POST /logchannel/deleteAll

### Description

Deletes the specified log channels defined in the TCPWave IPAM.

### Parameters

Type	Name	Description	Schema	Default

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< string > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1301: Both channel Id and Name cannot be null. TIMS-1302: Specified log channel not found <channel name>. TIMS-1303: Cannot delete special channel <channel name>. TIMS-1305: Log channel in use. Please remove the references from DNS Appliances and retry: <channel name> Below example shows sample request: "[logchannel]"	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.95.4. Update Log Channels

POST /logchannel/edit

#### Description

Updates an existing log channel defined in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "id": 21, "channel": "named", "type": 0, "type_string": "SYSLOG/FILE/STDERR/ NULL", "versions": 6, "size": 1024000, "facility": "syslog", "severity": 1, "print_time": true, "print_severity": true, "print_category": true, "special_channel": false, "severity_text": "debug", "debug_level": 0, "file_path": "/var/named/log/named.log" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Logger Channel</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1304: Log channel already exists: <Channel Name>	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.95.5. Get Log Channel

GET /logchannel/get

#### Description

Provides the details of the specified log channel defined in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/logchannel/get?channel=test

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>channel</b> <i>required</i>	channel name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Logger Channel</a>
500	TIMS-1302: Log channel does not exist, TIMS-1301: Both channel name and id cannot be null.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.95.6. List of Log Channel

```
GET /logchannel/list
```

##### Description

Provides the list of all Log Channels defined in the TCPWave IPAM. Functional Admin gets the list of all log channels. Rest of the Admins get only the list of log channels associated with the organization that they belong to. The example listed below shows a sample request URL:  
/rest/logchannel/list?organizations=Internal

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization Names	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Logger Channel</a> > array

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.95.7. Log Channel References

```
GET /logchannel/references
```

##### Description

Finds the list of Log Channels that are referenced in the TCPWave IPAM. The example listed below shows a sample request URL:  
/rest/logchannel/references?page=1&rows=20&tables=tableName&id=tableId&count=25

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>count</b> <i>required</i>	total records found	string	
Query	<b>id</b> <i>required</i>	reference ID	string	
Query	<b>page</b> <i>required</i>	total pages	integer(int32)	
Query	<b>rows</b> <i>required</i>	rows per page	integer(int32)	
Query	<b>tables</b> <i>required</i>	reference table	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Reference Results</a>

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.95.8. Search Log Channels

```
GET /logchannel/search
```

##### Description

Searches for a DNS Log Channels defined in the TCPWave IPAM. The example listed below shows a sample request URL:  
/rest/logchannel/search?page=1&rows=20

##### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Query	page required	total pages	integer(int32)	
Query	rows required	rows per page	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListLogger Channel</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

## 4.96. Manage Appliance Services

### Description

This service provides API's to Start/Stop/Restart services on Remote Appliance.

#### 4.96.1. Appliance Status

POST /services/getStatus

### Description

Method to get status of services on multiple Remote Appliances.

Below example shows sample request JSON:

```
[ { "id": 21, "is_primary": "0/1", "object_id": 101, "name": "Test-appliance", "organization_id": 101, "organization_name": "Internal", "v4_ipaddress": "192.168.0.101", "server_type": "DHCP/BIND AUTH/BIND CACHE/NSD", "dhcpd": "yes/no", "dns": "yes/no", "monit": "yes/no", "bgpd": "yes/no", "ospfd": "yes/no", "zebra": "yes/no", "snmpd": "yes/no", "ntpd": "yes/no", "sshd": "yes/no", "timsdns": "yes/no", "named": "yes/no", "unbound": "yes/no", "nsd": "yes/no", "timsdhp": "yes/no", "tftp": "yes/no", "stunnel": "yes/no", "zeek": "yes/no", "suricata": "yes/no", "anomalydetection": "yes/no" } ]
```

### Parameters

Type	Name	Description	Schema	Default
Body	body optional		< <a href="#">ApplianceService</a> > array	

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">ApplianceService</a> > array
500		No Content

### Consumes

- application/json
- application/xml

### Produces

- application/json
- application/xml

#### 4.96.2. Manage Appliance Services

POST /services/manage

### Description

Method to Start/Stop/Restart services on Remote Appliance.

### Parameters

Type	Name	Description	Schema	Default
Body	body optional		<a href="#">Server Information</a>	

### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

### Consumes

- application/json

- application/xml

#### Produces

- application/json
- application/xml
- text/plain

### 4.97. Message Certificate Management Service

#### Description

Certificate class service represents an SSL certificate in the TCPWave IPAM. It holds the information related to SSL certificate including the serial number, issuer, validity, signature and other information.

#### 4.97.1. Get number of days all certificates are valid

```
GET /msgcertmgmt/allcertValidDays
```

#### Description

Retrieve the number of days the message certificates are valid for in the TCPWave IPAM. Refer Administrator Reference document for more information.

#### Responses

HTTP Code	Description	Schema
200	successful operation	< string > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.97.2. Delete Certificate

```
POST /msgcertmgmt/certDelete
```

#### Description

Delete the current SSL/TLS certificate from the TCPWave Secure Message Channel keystore in the TCPWave IPAM. For more information on managing the TCPWave Secure Channel certificates, please refer the Administrator Reference document.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Certificate details	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-8307: This certificate cannot be deleted as it is the only certificate in the keystore.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.97.3. Validation Certificate

```
GET /msgcertmgmt/certValidate
```

#### Description

Validate the current SSL/TLS certificate before uploading in the TCPWave IPAM. Refer the Administrator Reference document for more information.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cfile</b> <i>required</i>	Certificate File	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">MsgCert</a>
500	TIMS-8304: Certificate is not valid.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.97.4. List Certificate

```
GET /msgcertmgmt/certlist
```

#### Description

Retrieves the list of SSL/TLS certificates available in the TIMS IPAM, along with their details. TCPWave IPAM uses SSL/TLS certificates for secure communication with the remotes.

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">MsgCert</a> > array
500	TIMS-8303: Certificate get list failed.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.97.5. Change Keystore Password

```
POST /msgcertmgmt/changeKeystorePassword
```

#### Description

Change the TCPWave Secure Message Channel keystore password in the TCPWave IPAM. For more information on managing the TCPWave Secure Message Channel certificates, please refer the Administrator Reference document.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-8308: An error has occurred while changing the certificate store password.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.97.6. Create and Import a Self-Signed Message Certificate

```
POST /msgcertmgmt/createSelfSignedCert
```

#### Description

Create a self-signed certificate for messaging sub-system. For more information on managing the TCPWave Secure Message certificates, please refer to the Administrator Reference document.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		string	



Type	Name	Description	Schema	Default

#### Responses

HTTP Code	Description	Schema
500	TIMS-8317: Please enter Certificate file.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.97.7. Duplicate Alias check

POST /msgcertmgmt/duplicateAlias

#### Description

Check if the current SSL/TLS certificate is already available in the TCPWave IPAM SSL certificate repository. Refer the Administrator Reference document for more information.

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.97.8. Restart Jetty Server

POST /msgcertmgmt/jettyRestart

#### Description

Put a request to restart the TIMS IPAM Web application, after successfully publishing a SSL/TLS certificate in the TCPWave IPAM. After the restart, TCPWave IPAM will use the recently published SSL/TLS certificate.

#### Responses

HTTP Code	Description	Schema
500	TIMS-8102: Server address is empty. TIMS-8101: Service to restart jetty server is not defined.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.97.9. Validate Keystore

POST /msgcertmgmt/keystoreValidate

#### Description

Validate the current SSL/TLS certificate keystore before uploading in the TCPWave IPAM. Refer the Administrator Reference document for more information.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">MsgCert</a>

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.97.10. Import Message Certificate

```
POST /msgcertmgmt/msgcertImport
```

#### Description

Import a certificate for messaging sub-system. For more information on managing the TCPWave Secure Message certificates, please refer to the Administrator Reference document.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Certificate details	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-8317: Please enter Certificate file.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.97.11. Download Truststore

```
GET /msgcertmgmt/truststoreDownload
```

#### Description

Retrieve the TCPWave Secure Message Channel truststore file. For more information on managing the TCPWave Secure Channel certificates, please refer to the Administrator Reference document.

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-8313: An error has occurred while retrieving the truststore.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.97.12. Publish Truststore

```
POST /msgcertmgmt/truststorePublish
```

##### Description

Publish the current TCPWave Secure Message truststore to the TCPWave Remote Appliances. For more information on managing the TCPWave Secure Channel certificates, please refer the Administrator Reference document.

##### Responses

HTTP Code	Description	Schema
500	TIMS-8313: An error has occurred while publishing the truststore to remote appliances.	No Content

##### Consumes

- application/json
- application/xml
- text/plain

##### Produces

- application/json
- application/xml
- text/plain

### 4.98. Microsoft AD Sites Service

#### 4.98.1. Add Microsoft AD site

```
POST /adsites/add
```

##### Description

This operation creates a Microsoft AD site in the TCPWave IPAM.

Example:

```
{ "sites": { "organization_name": "QAOrg", "name": "AD appliance", "server_ip": "10.1.10.91", "description": "Microsoft AD Sites." } }
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgname</b> <i>required</i>	Organization Name	string	
Query	<b>serverIp</b> <i>required</i>	Microsoft AD Appliance IP	string	
Body	<b>body</b> <i>required</i>	Microsoft AD Site Details	<a href="#">AD Sites Information</a>	

##### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist: {0} TIMS-7003: You are not authorized to perform this operation	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml

#### 4.98.2. List subnets

```
GET /adsites/associatedsub
```

##### Description

This operation retrieves a list of subnets present in the given subnet group.

Example:

```
/rest/subnetgroup/listSubnets?subnet_grp_name=subnetGroupName&org_name=Internal&length=20&start=1
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>subnet_grp_name</b> <i>required</i>	Subnet Group Name	string	

##### Responses

HTTP Code	Description	Schema
-----------	-------------	--------

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSubnet Information</a>
500	An exception has occurred while deleting the Microsoft AD sites.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.98.3. Microsoft AD site delete

POST /adsites/delete

#### Description

This operation deletes the selected Microsoft AD site from the TCPWave IPAM.

Example:

/rest/adsites/delete?name=TestSite&serverIp=10.1.10.91

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Microsoft AD Site Name	string	
Query	<b>serverIp</b> <i>required</i>	Microsoft AD Appliance IP	string	

#### Responses

HTTP Code	Description	Schema
500	An exception has occurred while deleting the Microsoft AD sites.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.98.4. Microsoft AD sites edit

POST /adsites/edit

#### Description

This operation updates the Microsoft AD site in the TCPWave IPAM. Functional admins can edit the Microsoft AD site for any organization. The rest of the admins can update the Microsoft AD site for the organizations they are associated with.

Example:

```
{ "adsite": { "name": "ADSite", "subnet": "subnetGrp", "description": "Microsoft AD Site."}}
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgname</b> <i>required</i>	Organization Name	string	
Query	<b>serverIp</b> <i>required</i>	IP Address	string	
Body	<b>body</b> <i>required</i>	Microsoft appliance details	<a href="#">ADSites Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist:{0} TIMS-7003: You are not authorized to perform this operation TIMS-1916: Organization name cannot be null	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- text/plain

- application/json

#### 4.98.5. Microsoft AD site details

GET /adsites/getdetails

##### Description

This operation retrieves the details of the Microsoft AD site.

Example:

/rest/adsites/getdetails?name=test&serverIp=10.1.10.91

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Microsoft AD Site Name	string	
Query	<b>serverIp</b> <i>required</i>	Microsoft AD Appliance IP	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">AD Sites Information</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.98.6. Microsoft AD sites list

GET /adsites/page

##### Description

This operation retrieves the list of the Microsoft AD sites and services defined in the TCPWave IPAM. Functional admins has the privilege to fetch the list of all the Microsoft AD sites and services.

Example:

/rest/adsites/page?serverIp=10.1.10.91&orgname=TCPWave

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>mode</b> <i>required</i>	Operation Mode	string	
Query	<b>orgname</b> <i>required</i>	Organization Name	string	
Query	<b>serverIp</b> <i>required</i>	Microsoft AD Appliance IP	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">AD Sites Information</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.98.7. Add Microsoft AD appliances

POST /windowsadsites/add

##### Description

This operation creates the Microsoft AD appliances in the TCPWave IPAM.

Example:

```
{ "windowsadsites": { "organization_name": "QAOrg", "server_name": "AD appliance", "user_name": "administrator", "server_ip": "10.1.10.91", "password": "abc123", "description": "Microsoft AD Appliance." } }
```

##### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Microsoft appliance details	<a href="#">Microsoft Server Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist: {0} TIMS-7003: You are not authorized to perform this operation TIMS-1025: Organization id is not valid:{0} TIMS-15089: The Microsoft AD appliance name cannot be null TIMS-15090: The Microsoft AD appliance {0} cannot be created, as an object of type Microsoft Remote does not exist TIMS-15091: The Microsoft AD appliance with IP address {0} is already being managed by the TCPWave IPAM.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.98.8. Microsoft AD appliance delete

POST /windowsadsites/delete

#### Description

This operation deletes the selected Microsoft AD appliances from the TCPWave IPAM.

Example:

/rest/windowsadsites/delete?ip=192.168.0.45

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>required</i>	Required Server's IP Address	string	

#### Responses

HTTP Code	Description	Schema
500	An exception has occurred while deleting the Microsoft AD appliance.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.98.9. Microsoft AD appliances edit

POST /windowsadsites/edit

#### Description

This operation updates the Microsoft AD appliances in the TCPWave IPAM. Functional admin has the privilege to update the new or existing Microsoft AD appliance for any organization. The rest of the admins can update the Microsoft AD appliance associated with the respective organization.

Example:

```
{ "windowsadsites": { "organization_name": "QAOrg", "server_name": "AD appliance", "user_name": "administrator", "server_ip": "10.1.10.91", "description": "Microsoft AD appliance."}}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Microsoft appliance details	<a href="#">Microsoft Server Information</a>	

#### Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist:{0} TIMS-7003: You are not authorized to perform this operation TIMS-1916: Organization name cannot be null TIMS-15092: The Microsoft AD appliance with IP address {0} does not exist TIMS-15093: The Microsoft AD appliance {0} cannot be updated, as an object of type Microsoft Remote does not exist TIMS-15091: The Microsoft AD appliance with IP address {0} is already being managed by the TCPWave IPAM.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- text/plain
- application/json

#### 4.98.10. Microsoft AD appliances

```
GET /windowsadsites/getdetails
```

#### Description

This operation retrieves the Microsoft AD appliance details present in the TCPWave IPAM.

Example:

```
/rest/windowsadsites/getdetails?ip=10.0.0.3
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>required</i>	Server IP	string	
Query	<b>orgname</b> <i>optional</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Microsoft Server Information</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.98.11. Microsoft AD appliances

```
GET /windowsadsites/page
```

#### Description

This operation retrieves the list of the Microsoft AD appliances defined in the TCPWave IPAM. Functional admins have the privilege to fetch the list of all the Microsoft AD appliances. The rest of the admins can fetch the Microsoft AD appliances associated with the respective organization.

Example:

```
/rest/windowsdns/page?start=1&length=20
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Size	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sorting Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization name	string	
Query	<b>sort</b> <i>optional</i>	Sorting String	string	
Query	<b>start</b> <i>required</i>	Starting Range	integer(int32)	

## Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListMicrosoft Server Information</a>
500	TIMS-7003: You are not authorized to perform this operation	No Content

## Consumes

- `text/plain`

## Produces

- `application/json`
- `application/xml`

## 4.99. Microsoft DHCP Appliance Service

### Description

This service provides APIs related to "

#### 4.99.1. Microsoft DHCP Appliance Add

```
POST /v6wsdhcpserver/add
```

### Description

Creates an IPv4 Microsoft DHCP Appliance in the TCPWave IPAM. IPAM can connect to the appliance through HTTP/HTTPS protocol. Please refer the Admin document for the steps to configure winRm listener either in HTTPS or HTTP mode.

Below example shows sample request JSON:

```
{ "WindowsServer": {"organization_name": "QAOrg","server_name": "DHCP appliance","user_name": "administrator","server_ip": "5000::2","macExclusionArray": [{"macAddress": "aa:bb:cc:dd:ee:45", macDescription: "blocked list"}],"password": "abc123","httpsEnabled": 0,"description": "Microsoft DHCP appliance."}}
```

### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Microsoft DHCP appliance details	<a href="#">Microsoft Server Information</a>	

## Responses

HTTP Code	Description	Schema
500	TIMS-3033: An appliance already exists with the specified address, TIMS-1917: Organization name and id cannot be null, TIMS-3009: Object does not exist, TIMS-3906: Microsoft DHCP appliance already exist with specified IP address	No Content

## Consumes

- `application/json`
- `application/xml`

## Produces

- `application/json`
- `application/xml`

#### 4.99.2. Microsoft DHCP Appliance Delete

```
POST /v6wsdhcpserver/delete
```

### Description

Deletes the given IPv4 DHCP Appliance. Reference checks will take place while deleting the appliance.

The example listed below shows a sample request URL:

```
/rest/wsdhcpserver/delete?address=5000::2
```

### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	IP Address of the selected DHCP Appliance	string	
Query	<b>orgName</b> <i>optional</i>		string	

## Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation, TIMS-3917: Microsoft DHCP Appliance address cannot be null, TIMS-3919: Microsoft DHCP Appliance is not deleted as it manages scopes, TIMS-3918: Microsoft DHCP Appliance is not deleted as it manages subnets	No Content

## Consumes

- `application/json`



- application/xml

#### Produces

- application/json
- application/xml

#### 4.99.3. Get DHCP Appliances Active Leases

```
GET /v6wsdhcpserver/dhcpActiveLeases
```

#### Description

Obtains list of active leases from the given Microsoft IPv4 DHCP Appliance.

The example listed below shows a sample request URL:

```
/rest/wsdhcpserver/dhcpActiveLeases?serverIp=1.0.0.3&organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_name</b> <i>optional</i>	Organization name	string	
Query	<b>serverIp</b> <i>required</i>	IP Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListDHCPLeaseObject</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.99.4. Get Appliance Configuration

```
GET /v6wsdhcpserver/getdetails
```

#### Description

Provides Microsoft DHCP appliance configuration details of the given IP Address in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/wsdhcpserver/getdetails?ip=5000::2&orgname=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>required</i>	Appliance IP Address	string	
Query	<b>orgname</b> <i>optional</i>	Organization	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Microsoft Server Information</a>
500	TIMS-3905: Microsoft DHCP appliance does not exist with specified IP address <IP Address>	No Content

#### Consumes

- text/plain

#### Produces

- application/json

#### 4.99.5. Microsoft DHCP appliance list

```
GET /v6wsdhcpserver/list
```

#### Description

Obtains a list of all Microsoft IPV4 DHCP appliances configured in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/wsdhcpserver/list?org_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_name</b> <i>required</i>	Required Organization Name	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Microsoft Server Information</a> > array

## Consumes

- text/plain

## Produces

- application/json
- application/xml

### 4.99.6. Microsoft DHCP Appliance List

```
GET /v6wsdhcpserver/page
```

## Description

Obtains a list of all the Microsoft DHCP appliances defined and managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/wsdhcpserver/page?start=1&length=20
```

## Parameters

Type	Name	Description	Schema	Default
Query	<b>customFilterRules</b> <i>optional</i>	Custom Filter String	string	
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization Name	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting appliance Range	integer(int32)	

## Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListMicrosoft Server Information</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

## Consumes

- text/plain

## Produces

- application/json
- application/xml

### 4.99.7. Microsoft DHCP Appliance Update

```
POST /v6wsdhcpserver/update
```

## Description

Updates the selected IPv4 Microsoft DHCP Appliance in the TCPWave IPAM. IPAM can connect to the appliance through HTTP/HTTPS protocol. Please refer the Admin document for the steps to configure winRm listener either in HTTPS or HTTP mode.

Below example shows sample request JSON:

```
{ "WindowsServer": {"organization_name": "QAOrg", "server_name": "DHCP appliance", "user_name": "administrator", "server_ip": "5000::2", "httpsEnabled": 0, "macExclusionArray": [{"macAddress": "aa:bb:cc:dd:ee:45", "macDescription": "blocked list"}], "description": "Microsoft DHCP appliance.", "old_server_ip": "5000::2"}}
```

## Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Microsoft DHCP appliance details	<a href="#">Microsoft Server Information</a>	

## Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation, TIMS-3906: Microsoft DHCP appliance already exist with specified IP address, TIMS-3905: Microsoft DHCP appliance does not exist with specified IP address	No Content

## Consumes

- application/json
- application/xml

## Produces

- application/json
- application/xml

### 4.99.8. Microsoft DHCP Appliance Add

```
POST /wsdhcpserver/add
```

## Description

This operation creates an IPv4 Microsoft DHCP appliance in the TCPWave IPAM. IPAM can connect to the appliance through HTTP/HTTPS protocol based on the defined configurations.

The following example shows a sample request JSON:

```
{ "WindowsServer": {"organization_name": "QAOrg", "server_name": "DHCP appliance", "user_name": "administrator", "server_ip": "10.1.10.91", "macExclusionArray": [{"macAddress": "aa:bb:cc:dd:ee:45", "macDescription": "blocked list"}], "password": "abc123", "httpsEnabled": 0, "description": "Microsoft DHCP appliance."}
```

## Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Microsoft DHCP appliance details	<a href="#">Microsoft Server Information</a>	

## Responses

HTTP Code	Description	Schema
500	TIMS-3033: An appliance already exists with the specified address, TIMS-1917: Organization name and id cannot be null, TIMS-3009: Object does not exist, TIMS-3906: Microsoft DHCP appliance already exist with specified IP address	No Content

## Consumes

- application/json
- application/xml

## Produces

- application/json
- application/xml

### 4.99.9. Microsoft DHCP Appliance Delete

```
POST /wsdhcpserver/delete
```

## Description

This operation deletes the given IPv4 Microsoft DHCP appliance provided the appliance should not have any references associated with it.

The following example shows a sample request URL:

```
/rest/wsdhcpserver/delete?address=10.1.10.91
```

## Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	IP Address of the selected DHCP Appliance	string	
Query	<b>orgName</b> <i>optional</i>		string	

## Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation, TIMS-3917: Microsoft DHCP Appliance address cannot be null, TIMS-3919: Microsoft DHCP Appliance is not deleted as it manages scopes, TIMS-3918: Microsoft DHCP Appliance is not deleted as it manages subnets	No Content

## Consumes

- application/json
- application/xml

## Produces

- application/json
- application/xml

#### 4.99.10. Get DHCP Appliances Active Leases

```
GET /wsdhcpserver/dhcpActiveLeases
```

##### Description

This operation retrieves the list of active leases from the given IPv4 Microsoft DHCP appliance.

The following example shows a sample request URL:

```
/rest/wsdhcpserver/dhcpActiveLeases?serverIp=1.0.0.3&organization_name=Internal
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_name</b> <i>optional</i>	Organization name	string	
Query	<b>serverIp</b> <i>required</i>	IP Address	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListDHCPLeaseObject</a>

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.99.11. Get Appliance Properties

```
GET /wsdhcpserver/getdetails
```

##### Description

This operation provides IPv4 Microsoft DHCP appliance details of the given IP address in the TCPWave IPAM.

The following example shows a sample request URL:

```
/rest/wsdhcpserver/getdetails?ip=192.168.0.34&orgname=Internal
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>required</i>	Appliance IP Address	string	
Query	<b>orgname</b> <i>optional</i>	Organization	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Microsoft Server Information</a>
500	TIMS-3905: Microsoft DHCP appliance does not exist with specified IP address <IP Address>	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.99.12. Microsoft DHCP appliance list

```
GET /wsdhcpserver/list
```

##### Description

This operation retrieves the list of all Microsoft IPV4 DHCP appliances configured in the TCPWave IPAM.

The following example shows a sample request URL:

```
/rest/wsdhcpserver/list?org_name=Internal
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_name</b> <i>required</i>	Required Organization Name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Microsoft Server Information</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.99.13. Microsoft DHCP Appliance List

```
GET /wsdhcserver/page
```

#### Description

This operation retrieves the paginated list of all the IPv4 Microsoft DHCP appliances defined and managed by the TCPWave IPAM.

The following example shows a sample request URL:

```
/rest/wsdhcserver/page?start=1&length=20
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>customFilterRules</b> <i>optional</i>	Custom Filter String	string	
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization Name	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting appliance Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListMicrosoft Server Information</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.99.14. Restart DHCP Service on Microsoft DHCP Appliance

```
POST /wsdhcserver/restartService
```

#### Description

This operation executes a command on the Microsoft DHCP appliance to restart the dhcp service.

The following example shows a sample request URL:

```
/rest/wsdhcserver/restartService?server_ip=1.0.0.3
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_name</b> <i>optional</i>	Organization	string	
Query	<b>server_ip</b> <i>required</i>	IP address	string	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.99.15. Generate Appliance Configuration for Sync

```
GET /wsdhcpserver/syncConfig
```

#### Description

This operation generates IPv4 DHCP configuration XML and imports the latest DHCP configuration details.

The following example shows a sample request URL:

```
/rest/wsdhcpserver/syncConfig?address=10.0.0.5&organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7003: You are not authorized to perform this operation, TIMS-9212: A sync is currently in progress initiated by <User name> from <Login user IP Address>. Please wait until it is completed.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.99.16. Microsoft DHCP Appliance Update

```
POST /wsdhcpserver/update
```

#### Description

This operation updates the selected IPv4 Microsoft DHCP appliance properties in the TCPWave IPAM.

The following example shows a sample request JSON:

```
{ "WindowsServer": { "organization_name": "QAOrg", "server_name": "DHCP appliance", "user_name": "administrator", "server_ip": "10.1.10.91", "httpsEnabled": 0, "macExclusionArray": [{"macAddress": "aa:bb:cc:dd:ee:45"}, {"macAddress": "blocked list"}], "description": "Microsoft DHCP appliance.", "old_server_ip": "10.1.10.92" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Microsoft DHCP appliance details	<a href="#">Microsoft Server Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation, TIMS-3906: Microsoft DHCP appliance already exist with specified IP address, TIMS-3905: Microsoft DHCP appliance does not exist with specified IP address	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

## 4.100. Microsoft DHCP Exclusion Range Service

### 4.100.1. Add Exclusion Range

POST /wsExclusion/add

#### Description

This operation creates IPv4 Microsoft DHCP exclusion ranges by validating the given start IP and end IP range. The system allows ranges within the available scope of a given subnet.

The following example shows a sample request JSON:

```
{ "description": "", "organization_name": "QAOrg", "primary_dhcp_server": "QA-Remote", "addressRanges": [{ "startIP": "10.1.10.55", "endIP": "10.1.10.60"}], "subnetAddress": "10.1.10.0" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Exclusion range details	<a href="#">Microsoft DHCP Exclusion range Information</a>	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

### 4.100.2. Exclusion Range Delete

POST /wsExclusion/delete

#### Description

This operation deletes one or more IPv4 Microsoft DHCP exclusion ranges defined in the TCPWave IPAM.

The following example shows a sample request JSON:

```
{ "organization_name": "QAOrg", "addressRanges": [{ "startIP": "10.1.10.55", "endIP": "10.1.10.60"}], "subnetAddress": "10.1.10.0" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of exclusion range details	<a href="#">Microsoft DHCP Exclusion range Information</a>	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

### 4.100.3. Exclusion Range List

GET /wsExclusion/page

#### Description

This operation retrieves the paginated list of IPv4 Microsoft DHCP exclusion ranges in the TCPWave IPAM for a given subnet.

The following example shows a sample request URL:

```
/rest/wsExclusion/list?page=1&length=20
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	

Type	Name	Description	Schema	Default
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>orgName</b> <i>optional</i>	Organization(s) list	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting exclusion Range	integer(int32)	
Query	<b>subnetAddress</b> <i>optional</i>	Subnet address of exclusion range	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListMicrosoft DHCP Exclusion Range Information</a>
500	TIMS-7003: You are not authorized to perform this operation,TIMS-2015: Subnet does not exist.	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

### 4.101. Microsoft DNS Appliance Service

#### Description

This service provides API's to get list of the Microsoft DNS appliances present in the TCPWave IPAM"

#### 4.101.1. Add Microsoft DNS Appliance

```
POST /v6windowsdns/add
```

#### Description

Creates an IPv4 Microsoft DNS Appliance in the TCPWave IPAM. IPAM can connect to the appliance though HTTP/HTTPS protocol. Please refer the Admin document for the steps to configure winRm listener either in HTTPS or HTTP mode.

Below example shows sample request JSON:

```
{ "windowsserver": { "organization_name": "QAOrg", "server_name": "DNS appliance", "user_name": "administrator", "server_ip": "5000::2", "password": "abc123", "httpsEnabled": 0, "description": "Microsoft DNS appliance.", "is_auto_sync_enabled": "yes", "auto_sync_interval": "10", "read_write_option": "1" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Microsoft appliance details	<a href="#">Microsoft Server Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist: {0} TIMS-7003: You are not authorized to perform this operation TIMS-1025: Organization id is not valid:{0} TIMS-1704: The Microsoft DNS appliance name cannot be null TIMS-1722: The Microsoft appliance {0} cannot be created, as an object of type Microsoft Remote does not exist TIMS-1708: The Microsoft DNS appliance with IP address {0} is already being managed by the TCPWave IPAM.	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

#### 4.101.2. The Microsoft DNS appliance delete



POST /v6windowsdns/delete

### Description

Delete the selected Microsoft DNS appliance from the TCPWave IPAM.  
The example listed below shows a sample request URL:  
`/rest/windowsdns/delete?ip=5000::2`

### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>required</i>	Required Server's IP Address	string	

### Responses

HTTP Code	Description	Schema
500	An exception has occurred while deleting the Microsoft DNS IPv6 appliance.	No Content

### Consumes

- application/json
- application/xml

### Produces

- application/json
- application/xml

### 4.101.3. The Microsoft DNS appliance Edit

POST /v6windowsdns/edit

### Description

Updates the Microsoft DNS appliance in the TCPWave IPAM. Functional Admin can update the new Microsoft DNS appliance for any organization. Rest of the admins can update the Microsoft DNS appliance only for the organizations that they are associated with. IPAM can connect to the appliance through HTTP/HTTPS protocol. Please refer the Admin document for the steps to configure winRm listener either in HTTPS or HTTP mode.

Below example shows sample request JSON:

```
{ "windowsserver": { "organization_name": "QAOrg", "server_name": "DNS appliance", "user_name": "administrator", "server_ip": "5000::2", "httpsEnabled": 0, "description": "Microsoft DNS appliance."}}
```

### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Microsoft appliance details	<a href="#">Microsoft Server Information</a>	

### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist:{0} TIMS-7003: You are not authorized to perform this operation TIMS-1916: Organization name cannot be null TIMS-1709: The Microsoft DNS appliance with IP address {0} does not exist TIMS-1723: The Microsoft appliance {0} cannot be updated, as an object of type Microsoft Remote does not exist TIMS-1708: The Microsoft DNS appliance with IP address {0} is already being managed by the TCPWave IPAM.	No Content

### Consumes

- application/json
- application/xml

### Produces

- text/plain
- application/json

### 4.101.4. Object Details

GET /v6windowsdns/get

### Description

Get the object details.  
The example listed below shows a sample request URL:  
`/rest/server/get?address=5000::2&organization=Internal`

### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Object Address	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">IPv6 object</a>
500	TIMS-7002: Permission information cannot be retrieved.	No Content

## Consumes

- application/json
- application/xml
- text/plain

## Produces

- application/json
- application/xml

### 4.101.5. Server Configuration

```
GET /v6windowsdns/getdetails
```

## Description

Provides the Microsoft DNS appliance details of the given IP Address present in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/windowsdns/getdetails?ip=5000::2

## Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>required</i>	Server IP	string	
Query	<b>orgname</b> <i>optional</i>	Organization Name	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Microsoft Server Information</a> > array

## Consumes

- text/plain

## Produces

- application/json

### 4.101.6. Server Configuration

```
GET /v6windowsdns/getdetailsbyorg
```

## Description

Provides the Microsoft DNS appliance details present in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/windowsdns/getdetailsbyorg?orgName=Internal

## Parameters

Type	Name	Description	Schema	Default
Query	<b>orgId</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Microsoft Server Information</a> > array

## Consumes

- text/plain

## Produces

- application/json
- application/xml

### 4.101.7. The Microsoft DNS IPv6 Appliance List

```
GET /v6windowsdns/page
```

## Description

Provides a paginated list of the Microsoft DNS appliances defined in the TCPWave IPAM. Functional Admin gets the list of all the Microsoft DNS appliances. Rest of the Admins get only the list of the Microsoft DNS appliances associated with the organization that they belong to.  
 The example listed below shows a sample request URL:  
 /rest/windowsdns/page?start=1&length=20

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>customFilterRules</b> <i>optional</i>	Custom Filter String	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Size	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sorting Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization name	string	
Query	<b>sort</b> <i>optional</i>	Sorting String	string	
Query	<b>start</b> <i>required</i>	Starting Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListMicrosoft Server Information</a>
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.101.8. Microsoft Appliance References In Zones

```
GET /v6/windowsdns/references
```

#### Description

Obtains a list of DNS zones that have references to the Microsoft DNS Appliance for which DNS Zone associations have been defined.

The example listed below shows a sample request URL:  
 /rest/windowsdns/references?tables=tableName

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>count</b> <i>optional</i>	Count Flag	string	
Query	<b>id</b> <i>optional</i>	Appliance Reference Id	string	
Query	<b>page</b> <i>optional</i>	Page Number	integer(int32)	
Query	<b>rows</b> <i>optional</i>	Number of rows	integer(int32)	
Query	<b>tables</b> <i>required</i>	Tables	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Reference Results</a>
500	TIMS-3050: Both Appliance id and address cannot be null, TIMS-3092: Appliance does not exist: <given IP Address>	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.101.9. Appliance Search

```
GET /v6windowsdns/search
```

#### Description

Searches for the Microsoft DNS Appliances in the TCPWave IPAM. The search results will be displayed in the search window categorized as Microsoft Appliance. Zone references for the appliances will be displayed in the references page.

The example listed below shows a sample request URL:

```
/rest/windowsdns/search
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization list	string	
Query	<b>page</b> <i>optional</i>	Page Number	integer(int32)	
Query	<b>rows</b> <i>optional</i>	Number of rows	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListMicrosoft Server Information</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.101.10. Add Microsoft DNS Appliance

```
POST /windowsdns/add
```

#### Description

Creates an IPv4 Microsoft DNS Appliance in the TCPWave IPAM. IPAM can connect to the appliance though HTTP/HTTPS protocol. Please refer the Admin document for the steps to configure winRm listener either in HTTPS or HTTP mode.

Below example shows sample request JSON:

```
{ "windowsserver": { "organization_name": "QAOrg", "server_name": "DNS appliance", "user_name": "administrator", "server_ip": "10.1.10.91", "password": "abc123", "httpsEnabled": 0, "description": "Microsoft DNS appliance.", "is_auto_sync_enabled": "yes", "auto_sync_interval": "10", "read_write_option": "1" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Microsoft appliance details	<a href="#">Microsoft Server Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist: {0} TIMS-7003: You are not authorized to perform this operation TIMS-1025: Organization id is not valid:{0} TIMS-1704: The Microsoft DNS appliance name cannot be null TIMS-1722: The Microsoft appliance {0} cannot be created, as an object of type Microsoft Remote does not exist TIMS-1708: The Microsoft DNS appliance with IP address {0} is already being managed by the TCPWave IPAM.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.101.11. The Microsoft DNS appliance delete

```
POST /windowsdns/delete
```

#### Description

Delete the selected Microsoft DNS appliance from the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/windowsdns/delete?ip=192.168.0.45

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>required</i>	Required Server's IP Address	string	

#### Responses

HTTP Code	Description	Schema
500	An exception has occurred while deleting the Microsoft DNS appliance.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.101.12. The Microsoft DNS appliance Edit

```
POST /windowsdns/edit
```

#### Description

Updates the Microsoft DNS appliance in the TCPWave IPAM. Functional Admin can update the new Microsoft DNS appliance for any organization. Rest of the admins can update the Microsoft DNS appliance only for the organizations that they are associated with. IPAM can connect to the appliance through HTTP/HTTPS protocol. Please refer the Admin document for the steps to configure winRm listener either in HTTPS or HTTP mode.

Below example shows sample request JSON:

```
{ "windowsserver": { "organization_name": "QAOrg", "server_name": "DNS appliance", "user_name": "administrator", "server_ip": "10.1.10.91", "httpsEnabled": 0, "description": "Microsoft DNS appliance." }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Microsoft appliance details	<a href="#">Microsoft Server Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist:{0} TIMS-7003: You are not authorized to perform this operation TIMS-1916: Organization name cannot be null TIMS-1709: The Microsoft DNS appliance with IP address {0} does not exist TIMS-1723: The Microsoft appliance {0} cannot be updated, as an object of type Microsoft Remote does not exist TIMS-1708: The Microsoft DNS appliance with IP address {0} is already being managed by the TCPWave IPAM.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- text/plain
- application/json

#### 4.101.13. Server Configuration

```
GET /windowsdns/getassociatedmicrosoftappliances
```

#### Description

Provides the Microsoft DNS appliance details associated with the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/windowsdns/getassociatedmicrosoftappliances?orgname=Internal&templateName=testtemplate

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgname</b> <i>optional</i>	Organization Name	string	
Query	<b>templateName</b> <i>required</i>	Template Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Microsoft Server Information</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.101.14. Server Configuration

```
GET /windowsdns/getdetails
```

#### Description

Provides the Microsoft DNS appliance details of the given IP Address present in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/windowsdns/getdetails?ip=10.0.0.3
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>required</i>	Server IP	string	
Query	<b>orgname</b> <i>optional</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Microsoft Server Information</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.101.15. Server Configuration

```
GET /windowsdns/getdetailsbyorg
```

#### Description

Provides the Microsoft DNS appliance details present in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/windowsdns/getdetailsbyorg?orgName=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgId</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Microsoft Server Information</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.101.16. The Microsoft DNS Appliance List

```
GET /windowsdns/page
```

#### Description

Provides a paginated list of the Microsoft DNS appliances defined in the TCPWave IPAM. Functional Admin gets the list of all the Microsoft DNS appliances. Rest of the Admins get only the list of the Microsoft DNS appliances associated with the organization that they belong to.

The example listed below shows a sample request URL:  
`/rest/windowsdns/page?start=1&length=20`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>customFilterRules</b> <i>optional</i>	Custom Filter String	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Size	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sorting Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization name	string	
Query	<b>sort</b> <i>optional</i>	Sorting String	string	
Query	<b>start</b> <i>required</i>	Starting Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListMicrosoft Server Information</a>
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.101.17. The Microsoft DNS appliance ping and port availability check

POST `/windowsdns/pingPortCheck`

#### Description

Checks if the IP Address is reachable or not and checks the port 53 availability for the IPAM - Microsoft DNS appliance communication.

Below example shows sample request JSON:

```
{ "windowsserver": { "organization_name": "QAOrg", "server_name": "DNS appliance", "user_name": "administrator", "server_ip": "10.1.10.91", "password": "*****", "description": "Microsoft DNS appliance." }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Microsoft Server Information</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-1352: Organization does not exist: <Organization Name>	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`
- `text/plain`

#### 4.101.18. Microsoft Appliance References In Zones

GET `/windowsdns/references`

#### Description

Obtains a list of DNS zones that have references to the Microsoft DNS Appliance for which DNS Zone associations have been defined.

The example listed below shows a sample request URL:  
 /rest/windowsdns/references?tables=tableName

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>count</b> <i>optional</i>	Count Flag	string	
Query	<b>id</b> <i>optional</i>	Appliance Reference Id	string	
Query	<b>page</b> <i>optional</i>	Page Number	integer(int32)	
Query	<b>rows</b> <i>optional</i>	Number of rows	integer(int32)	
Query	<b>tables</b> <i>required</i>	Tables	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Reference Results</a>
500	TIMS-3050: Both Appliance id and address cannot be null, TIMS-3092: Appliance does not exist: <given IP Address>	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.101.19. Appliance Search

```
GET /windowsdns/search
```

#### Description

Searches for the Microsoft DNS Appliances in the TCPWave IPAM. The search results will be displayed in the search window categorized as Microsoft Appliance. Zone references for the appliances will be displayed in the references page.

The example listed below shows a sample request URL:  
 /rest/windowsdns/search

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization list	string	
Query	<b>page</b> <i>optional</i>	Page Number	integer(int32)	
Query	<b>rows</b> <i>optional</i>	Number of rows	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListMicrosoft Server Information</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.101.20. Server Configuration

```
GET /windowsdns/sync
```

#### Description

Provides the Microsoft DNS appliance details associated with the TCPWave IPAM.

The example listed below shows a sample request URL:  
 /rest/windowsdns/sync?orgname=Internal

#### Parameters

Type	Name	Description	Schema	Default



Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>optional</i>	Server IP Address	string	
Query	<b>orgid</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>orgname</b> <i>optional</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml
- text/plain

## 4.102. Microsoft DNS Charts

### 4.102.1. Get CPU usage

```
GET /ms-charts/cpu
```

#### Description

Get The total CPU usage for a Microsoft DNS Appliance.

Below example shows sample request URL:

```
/rest/ms-charts/cpu/?appliance_ip=1.0.0.0
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>appliance_ip</b> <i>required</i>	Appliance IP address	string	
Query	<b>duration</b> <i>required</i>	Duration	string	
Query	<b>name</b> <i>required</i>	Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">ChartsData</a>
500	TIMS-1425: Both Appliance id and Appliance IP address cannot be null	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

### 4.102.2. Get CPU usage

```
GET /ms-charts/dhcpcharts
```

#### Description

Get The charts for a Microsoft DHCP Appliance.

Below example shows sample request URL:

```
/rest/ms-charts/dhcpcharts/?appliance_ip=1.0.0.0
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>appliance_ip</b> <i>required</i>	Appliance IP address	string	
Query	<b>duration</b> <i>required</i>	Duration	string	
Query	<b>name</b> <i>required</i>	Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">ChartsData</a>
500	TIMS-1425: Both Appliance id and Appliance IP address cannot be null	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.102.3. Get Query Logs

```
GET /ms-charts/mswineventlogs
```

#### Description

Get The query logs for a Microsoft DNS Appliance.  
Below example shows sample request URL:  
/rest/ms-charts/msdnswineventlogs/?appliance\_ip=1.0.0.0

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>appliance_ip</b> <i>required</i>	Appliance IP address	string	
Query	<b>category</b> <i>optional</i>	Category	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>endDate</b> <i>required</i>	End Date & Time	string	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>logType</b> <i>required</i>	Log Type	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>start</b> <i>required</i>	Starting IPV4 Network Range	integer(int32)	
Query	<b>startDate</b> <i>required</i>	Start Date & Time	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListMS DNS Logs Wrapper</a>
500	TIMS-1425: Both Appliance id and Appliance IP address cannot be null	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.102.4. Get Query Logs

```
GET /ms-charts/querylogs
```

#### Description

Get The query logs for a Microsoft DNS Appliance.  
Below example shows sample request URL:  
/rest/ms-charts/memory/?appliance\_ip=1.0.0.0

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>appliance_ip</b> <i>required</i>	Appliance IP address	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">MS DNS Logs Wrapper</a> > array
500	TIMS-1425: Both Appliance id and Appliance IP address cannot be null	No Content

## Consumes

- application/json
- application/xml

## Produces

- application/json
- application/xml

## 4.103. Mirrored Zone Service

### 4.103.1. Add Mirrored Zones

```
POST /mirroredzone/add
```

## Description

Creates mirrored zones for the given zone in the TCPWave IPAM. Below example shows the sample JSON:

```
{"zone_name":"domain.com",  
"mirrored_zone_list":"mirror.com,local.com",  
"org_name":"Org",  
"description":"This is the description of the mirrored zone."  
}
```

## Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Mirrored zone details	<a href="#">Mirrored Zones</a>	

## Responses

HTTP Code	Description	Schema
500	TIMS-1020: Both Organization name and id cannot be null TIMS-1352: Organization does not exist: {0} TIMS-12050: Both Zone id and Zone name cannot be null, TIMS-1422: Zone does not exist: {0} TIMS-1421: Both Domain name and id cannot be null TIMS-12055: Mirrored Zone name cannot be null TIMS-12058: Mirrored Zones cannot be created as it is exceeding maximum limit {0} defined in the global options for the zone {1} TIMS-12057: Duplicate Mirrored Zone name entry for {0} TIMS-3007: Object already exists: {0} TIMS-12052: The name: {0} conflicts with an existing Mirrored Zone TIMS-12051: A resource record with the Owner name: {0} already exists	No Content

## Consumes

- application/json
- application/xml

## Produces

- application/json
- application/xml

### 4.103.2. Delete Mirrored Zone

```
POST /mirroredzone/delete
```

## Description

Deletes the selected mirrored zones from the TCPWave IPAM.

Below example shows sample request JSON:

```
[ { "zone_id": 10, "org_id": 12, "zone_name": "zone.com", "org_name": "Org", "mirror_name": "zone.com",  
"old_mirror_name": "zone.com", "old_description": "This is the mirrored zone for the zone domain.com.",  
"mirrored_zone_list": "example.com,mirror.com", "description": "Description of Mirrored Zones."}]
```

## Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of mirrored zones	< <a href="#">Mirrored Zones</a> > array	

## Responses

HTTP Code	Description	Schema
-----------	-------------	--------

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist: {0} TIMS-1422: Zone does not exist: {0} TIMS-12056: Mirrored Zone does not exist.	No Content

#### Consumes

- application/json
- application/xml

#### 4.103.3. Edit Mirrored Zone

POST /mirroredzone/edit

#### Description

Updates the given mirrored zone. Below is the example that shows the sample JSON: {

```
"zone_name": "domain.com",
"org_name": "Org",
"description": "This is the edit of the mirrored zone.",
"old_mirror_name": "mirror.com",
"mirror_name": "newmirror.com"
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Mirrored zone details	<a href="#">Mirrored Zones</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1020: Both Organization name and id cannot be null TIMS-12065: Both ID and name of Mirrored Zone cannot be null TIMS-12056: Mirrored Zone does not exist TIMS-12052: The name: {0} conflicts with an existing mirrored zone.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.103.4. Get Mirrored Zone Details

GET /mirroredzone/getdetails

#### Description

Gets the details of the mirrored zone for the given name.

The example listed below shows a sample request URL:

/rest/mirroredzone/getdetails?name=zoneabc.com

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>id</b> <i>optional</i>	Zone ID	integer(int32)	
Query	<b>name</b> <i>required</i>	Zone Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Mirrored Zones</a>
500	An exception has occurred while checking Mirrored Zones.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.103.5. Mirrored Zones List

GET /mirroredzone/listbypage

### Description

Obtains a list of Mirrored Zones available in the IPAM.  
 The example listed below shows a sample request URL:  
 /rest/mirroredzone/listbypage?start=1&length=20

### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization List	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Mirrored Zone Range	integer(int32)	

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListMirroredZones</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

### Consumes

- text/plain

### Produces

- application/json
- application/xml

## 4.104. Monitor Service

### Description

This service class provides REST API access to Edit existing monitoring services based on host types which are managed by the TCPWave IPAM.

#### 4.104.1. Monitoring Service

```
POST /monitor/edit
```

### Description

Edits an existing Monitoring Service.

Below example shows sample request JSON:

```
{ "serviceId": 1, "serviceName": "SYSTEM_CPU", "serviceDescription": "Monitor the % CPU of all host types", "category": "Appliance Components", "bindAuth": "true/false", "bindCache": "true/false", "unboundCache": "true/false", "nsdAuth": "1", "dhcp": "true/false", "ipam": "true/false", "enableFlapping": "1", "enableAlertAck": "1", "enableCritical": "1", "enableWarning": "1", "enableUnknown": "0", "scheduledDownTime": "10/1/2021 12:00:00", "criticalThresholdVal": "70", "warningThresholdVal": "50", "disableAlertFromString": "10/1/2021 12:00:00", "disableAlertToString": "12/1/2021 12:00:00", "userScriptPath": "string" }
```

### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Monitor Information</a>	

### Responses

HTTP Code	Description	Schema
500		No Content

### Consumes

- application/json
- application/xml

### Produces

- application/json

- application/xml

#### 4.104.2. Get Monitoring Configuration

```
GET /monitor/getConfig
```

##### Description

Gives the monitoring configuration details for an appliance in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/monitor/getConfig?applianceAddress=10.1.10.170&applianceType=DHCP&configType=monitor
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>applianceAddress</b> <i>required</i>	Appliance Address	string	
Query	<b>applianceType</b> <i>required</i>	Appliance Type	string	
Query	<b>configType</b> <i>required</i>	Configuration Type	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7003: You are not authorized to perform this operation.	No Content

##### Consumes

- text/plain

##### Produces

- text/plain

#### 4.104.3. Get QPS Threshold Values

```
GET /monitor/getQpsThresholds
```

##### Description

Get the QPS monitoring maximum and minimum threshold values for a DNS appliance in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/monitor/getQpsThresholds?applianceAddress=10.1.10.170
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>applianceAddress</b> <i>required</i>	Appliance Address	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7003: You are not authorized to perform this operation.	No Content

##### Consumes

- text/plain

##### Produces

- text/plain

#### 4.104.4. Monitoring Service Details

```
GET /monitor/getServiceDetails
```

##### Description

get monitoring services details in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/monitor/getServiceDetails?service_name=test
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>service_name</b> <i>required</i>	Service name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Monitor Information</a>

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.104.5. Monitoring Services History

GET /monitor/history

#### Description

Obtains monitored service history on the remote host group for DNS and DHCP Appliances defined and managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/monitoring/history?service\_name=test&start=1&length=20

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>service_name</b> <i>required</i>	Service Name	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Monitoring History Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListNotification Details</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.104.6. List Monitoring Services

GET /monitor/listconfig

#### Description

Obtains a list of services to be monitored on the remote host group for DNS and DHCP Appliances defined and managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/monitor/listconfig

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	

Type	Name	Description	Schema	Default
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Service Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListMonitor Information</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.104.7. IPAM System Maintenance Information

```
GET /monitor/maintenance_list
```

#### Description

Obtains list of maintenance operations in progress.  
The example listed below shows a sample request URL:  
`/rest/monitoring/maintenance_list`

#### Responses

HTTP Code	Description	Schema
200	successful operation	< string > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.104.8. Enable or Disable Monitoring

```
POST /monitor/monitoring
```

#### Description

Enable or disable monitoring for the current TCPWave Remote in the TCPWave IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Server Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.104.9. Enables or Disables Monitoring on specified resources

```
POST /monitor/monitoringUpdate
```

#### Description

Enables or disables monitoring for the specified resources in the TCPWave IPAM.

Below example shows sample request JSON:

```
[ { "name": "Network-1", "type": "network", "ip": "network", "organization": "network", "monitor": true, "stype": "DHCP" } ]
```

#### Parameters



Type	Name	Description	Schema	Default
Body	body <i>optional</i>		< <a href="#">MonitoringUpdateRequest</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.104.10. Monitoring Hierarchy Details

```
GET /monitor/monitoring_hierarchy
```

#### Description

Get monitoring hierarchy details in the TCPWave IPAM.  
The example listed below shows a sample request URL:  
`/rest/monitor/monitoring_hierarchy?orgName=Internal`

#### Parameters

Type	Name	Description	Schema	Default
Query	orgName <i>required</i>	organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">MonitoringHierarchy</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.104.11. Enable or Disable Monitoring

```
POST /monitor/multimonitoring
```

#### Description

Enable or disable monitoring for the current TCPWave Remote in the TCPWave IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		< <a href="#">Server Information</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.104.12. Re-check An Alert

```
POST /monitor/recheckAlert
```

#### Description

Manually checks the specified alert in the TCPWave IPAM.  
Below example shows sample request JSON:

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">Notification Details</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation, 14102 = TIMS-14102: Force re-check is not supported for the specified alert., 14100 = TIMS-14100: Alert error message cannot be null or empty., 14101 = TIMS-14101: Alert category value cannot be null or empty.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.104.13. Setup QPS monitoring maximum and minimum values

```
POST /monitor/setQpsMonitoring
```

#### Description

Setup QPS monitoring maximum and minimum values for a DNS appliance in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/monitor/setQpsMonitoring?applianceAddress=10.1.10.170&maxQPS=10000&minQPS=1
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>applianceAddress</b> <i>required</i>	Appliance Address	string	
Query	<b>maxQPS</b> <i>optional</i>	Maximum QPS value	integer(int32)	
Query	<b>minQPS</b> <i>optional</i>	Minimum QPS value	integer(int32)	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.104.14. Update Monitoring Service

```
POST /monitor/update
```

#### Description

Update monitoring services configuration in the TCPWave IPAM.

Below example shows sample request JSON:

```
[ { "serviceId": 1, "serviceName": "SYSTEM_CPU", "serviceDescription": "Monitor the % CPU of all host types", "category": "Appliance Components", "bindAuth": "true/false", "bindCache": "true/false", "unboundCache": "true/false", "nsdAuth": "1", "dhcp": "true/false", "ipam": "true/false", "enableFlapping": "1", "enableAlertAck": "1", "enableCritical": "1", "enableWarning": "1", "enableUnknown": "0", "scheduledDownTime": "10/1/2019 12:00:00", "criticalThresholdVal": "70", "warningThresholdVal": "50", "disableAlertFromString": "10/1/2019 12:00:00", "disableAlertToString": "12/1/2019 12:00:00", "userScriptPath": "string" } ]
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">Monitor Information</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### 4.104.15. Monitoring Service

POST /monitor/updateServiceStatus

#### Description

Enables/disables an existing monitoring service.

The example listed below shows a sample request URL:

/rest/monitoring/updateServiceStatus?status=1

Below example shows sample request JSON:

```
[ { "serviceId": 1, "serviceName": "SYSTEM_CPU", "serviceDescription": "Monitor the % CPU of all host types",
"category": "Appliance Components", "bindAuth": "true/false", "bindCache": "true/false", "unboundCache": "true/false",
"nsdAuth": "1", "dhcp": "true/false", "ipam": "true/false", "enableFlapping": "1", "enableAlertAck": "1", "enableCritical":
"1", "enableWarning": "1", "enableUnknown": "0", "scheduledDownTime": "10/1/2019 12:00:00", "criticalThresholdVal":
"70", "warningThresholdVal": "50", "disableAlertFromString": "10/1/2019 12:00:00", "disableAlertToString": "12/1/2019
12:00:00", "userScriptPath": "string" } ]
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>status</b> <i>required</i>	Monitoring Service status	integer(int32)	
Body	<b>body</b> <i>optional</i>		< <a href="#">Monitor Information</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.105. Network Security Monitoring Service

##### 4.105.1. Delete NSM Domain

POST /nsm/domain/delete

#### Description

This operation deletes single or multiple domains based on the whitelisted or blacklisted category associated with the NSM templates.

The following example shows a sample request URL:

/rest/nsm/domain/delete?name=templateName&organization=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>optional</i>	Template Name	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	
Body	<b>body</b> <i>required</i>	NSM Domains	< <a href="#">Whitelist and Blacklist domain</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.105.2. NSM Domains

GET /nsm/domain/get

#### Description

This operation retrieves the list of all the whitelisted and blacklisted domains defined in the NSM template.

The following example shows a sample request URL:

/rest/nsm/domain/get?name=test&organization=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>name</b> <i>optional</i>	Template Name	string	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Start Page Number	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListWhitelist And Blacklist Domain</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.105.3. Update Domains

POST /nsm/domain/update

#### Description

This operation updates the whitelisted or blacklisted domains associated with the NSM template.

The following example shows a sample request URL:

/rest/nsm/domain/update?name=templateName&organization=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>optional</i>	Template Name	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	
Body	<b>body</b> <i>required</i>	NSM Domain	< <a href="#">Whitelist and Blacklist domain</a> > array	

#### Responses

HTTP Code	Description	Schema
-----------	-------------	--------

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.105.4. Update IPS Rules

POST /nsm/ipsRule/changeStatus

#### Description

This operation updates the IPS rule on the DNS Appliance.

The following example shows a sample request URL:

/rest/nsm/ipsRule/changeStatus?name=templateName&organization=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>optional</i>	Template Name	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	
Body	<b>body</b> <i>required</i>	IPS Rule	< <a href="#">Intrusion Provision System Rule</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.105.5. Delete IPS Rules

POST /nsm/ipsRule/delete

#### Description

This operation deletes the IPS rules associated with the NSM template.

The following example shows a sample request URL:

/rest/nsm/ipsRule/delete?name=test&organization=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>optional</i>	Template Name	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	
Body	<b>body</b> <i>required</i>	IPS Rule	< <a href="#">Intrusion Provision System Rule</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.105.6. Delete IPS Rules

```
POST /nsm/ipsRule/deleteFromAppliance
```

##### Description

This operation deletes the IPS rules associated with the NSM template.

The following example shows a sample request URL:

```
/rest/nsm/ipsRule/deleteFromAppliance?name=test&organization=Internal
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>optional</i>	Template Name	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	
Body	<b>body</b> <i>required</i>	IPS Rule	< <a href="#">Intrusion Provision System Rule</a> > array	

##### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

##### Consumes

- application/json
- application/xml
- text/plain

##### Produces

- application/json
- application/xml

#### 4.105.7. IPS Rules

```
GET /nsm/ipsRule/get
```

##### Description

This operation retrieves the list of IPS rules associated with the NSM template.

The following example shows a sample request URL:

```
/rest/nsm/ipsRule/get?name=test&organization=Internal
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>name</b> <i>optional</i>	Template Name	string	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Start Page Number	integer(int32)	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListIntrusion Provision System Rule</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

##### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.105.8. Import

```
POST /nsm/ipsRule/import/{fileName}
```

#### Description

Import data from text file into the TCPWave IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Path	<b>fileName</b> <i>required</i>		string	
Query	<b>name</b> <i>optional</i>	Template Name	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Intrusion Provision System Rule</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.105.9. Import

```
POST /nsm/ipsRule/importDefaultRules
```

#### Description

Import default IPS rules into the TCPWave IPAM.

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>optional</i>	Template Name	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### 4.105.10. Update IPS Rules

```
POST /nsm/ipsRule/update
```

#### Description

This operation updates the IPS rules with the latest configurations such as signature ID, class category, etc.

The following example shows a sample request URL:

```
/rest/nsm/ipsRule/update?name=templateName&organization=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>optional</i>	Template Name	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	IPS Rule	< <a href="#">Intrusion Provision System Rule</a> > array	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Intrusion Provision System Rule</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.105.11. Create NSM Template

POST /nsm/template/create

#### Description

This operation creates the NSM template with configurations such as organization, network interface, rule variables, etc.

The following example shows a sample request JSON:

```
{
  "name": "NSM_TEMPLATE_TEST",
  "description": "Testing template",
  "organizationId": "1690",
  "configuration": {
    "interface": "eth0",
    "enable_anomaly_detection": true,
    "enable_intrusion_prevention": true,
    "ml_model": "3",
    "enable_doh": "1",
    "entropy": "3",
    "ipsRuleVariables": [
      {
        "name": "TEST_HOME_VARIABLE",
        "value": "test"
      }
    ],
    "ipsRuleList": [
      {
        "ruleDefinition": "Test Rule",
        "status": true
      }
    ]
  }
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	NSM Template Configuration	<a href="#">Network Security Monitoring Template</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.105.12. NSM Template Delete

POST /nsm/template/delete

#### Description

This operation deletes the NSM template defined in the TCPWave IPAM, provided it should not have the DNS appliances references.

The following example shows a sample request URL:

/rest/nsm/template/delete?name=test&organization=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	NSM Template Name	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-5020: Template does not exist, TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes



- application/json
- application/xml

#### Produces

- application/json

#### 4.105.13. NSM Template Dropdown List

```
GET /nsm/template/dropdown/list
```

#### Description

This operation retrieves the list of all the Network Security Monitoring (NSM) templates defined in the TCPWave IPAM. The following example shows a sample request URL:  
/rest/nsm/template/dropdown/list?organizations=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization Names	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Network Security Monitoring Template</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.105.14. NSM Template

```
GET /nsm/template/get
```

#### Description

This operation retrieves the NSM template details such as network interface, organization, etc. The following example shows a sample request URL:  
/rest/nsm/template/get?name=test&organization=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>optional</i>	Template Name	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Network Security Monitoring Template</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.105.15. Get Appliances

```
GET /nsm/template/get-associated-appliance
```

#### Description

This operation retrieves the list of the appliances associated with the NSM template. The following example shows a sample request URL:  
/rest/nsm/template/get-associated-appliance?name=test&organization=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>optional</i>	Template Name	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Server Information</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.105.16. TCPWave's Default IPS Rules

```
GET /nsm/template/getDefaultIPSRules
```

#### Description

This operation retrieves the list of the default IPS rules defined in the TCPWave IPAM.

The following example shows a sample request URL:

```
/rest/nsm/template/getDefaultIPSRules
```

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- text/plain

#### 4.105.17. NSM Template List

```
GET /nsm/template/list
```

#### Description

This operation retrieves the list of all the Network Security Monitoring (NSM) templates defined in the TCPWave IPAM.

The following example shows a sample request URL:

```
/rest/nsm/template/list?organization=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>	Session token for authorization	string	
Query	<b>customFilterRules</b> <i>optional</i>	Custom Filter String	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>optional</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization Names	string	

Type	Name	Description	Schema	Default
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>optional</i>	Starting Template Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListNetwork Security Monitoring Template</a>
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.105.18. Update NSM Template

```
POST /nsm/template/update
```

#### Description

This operation updates the NSM template with the latest configurations such as network interface, rule variables, machine learning models such KNN, Random Forests, etc.

The following example shows a sample request JSON:

```
{
  "name": "nsm_template_1",
  "description": "Network Security Monitoring Template",
  "organizationId": "1690",
  "configuration": {
    "interface": "eth0",
    "enable_anomaly_detection": true,
    "enable_intrusion_prevention": true,
    "ml_model": "3",
    "ipsRuleVariables": [
      {
        "name": "HOME_NET",
        "value": "[192.168.0.0/16,10.0.0.0/8,172.16.0.0/12]"
      },
      {
        "name": "EXTERNAL_NET",
        "value": "!$HOME_NET"
      },
      {
        "name": "TEST",
        "value": "TEST_VALUE"
      }
    ],
    "ipsRuleList": [
      {
        "id": "1",
        "ruleDefinition": "Test Rule",
        "status": true,
        "id": "12",
        "ruleDefinition": "Test Rule10",
        "status": false
      },
      {
        "oldName": "nsm_template_1",
        "id": "1"
      }
    ]
  }
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	NSM Template Configuration	<a href="#">Network Security Monitoring Template</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

### 4.106. Network Service

#### Description

This service class provides REST API access to Create, Modify and Delete a Network in the TCPWave IPAM.

#### 4.106.1. Network Add

```
POST /network/add
```

#### Description

Creates a new IPv4 Network in the TCPWave IPAM. The API checks if the specified network is overlapping with any existing network or not.

Sample payload with mandatory parameters to add a network are listed below.

##### Create network

```
{
  "addr1": "10",
  "addr2": "0",
  "addr3": "0",
  "addr4": "2",
  "mask_length": "16",
  "name": "test",
  "organization_name": "QAOrg"
}
```

##### Create network with zone template:

```
{
  "addr1": "10",
  "addr2": "0",
  "addr3": "0",
  "addr4": "2",
  "mask_length": "16",
  "name": "test",
  "organization_name": "QAOrg",
  "zoneTemplateName": "z_t"
}
```

##### Create network with DMZ Visibility:

```
{
  "addr1": "10",
  "addr2": "0",
  "addr3": "0",
  "addr4": "2",
  "mask_length": "16",
  "name": "test",
  "organization_name": "QAOrg",
  "zoneTemplateName": "z_t",
  "dmzVisible": "yes"
}
```

**Create network with DNSSEC Enabled:**

```
{"addr1":10,"addr2":0,"addr3":0,"addr4":2,"mask_length":16,"name":"test","organization_name":"QAOrg","zoneTemplateName":"z_t","dmzVisible":"no","dnssec_enable":"yes","monitoringService":"no","enable_discovery":"yes","discover":true}
```

**Create network with Monitoring Enabled:**

```
{"addr1":10,"addr2":0,"addr3":0,"addr4":2,"mask_length":16,"name":"test","organization_name":"QAOrg","zoneTemplateName":"z_t","dmzVisible":"no","dnssec_enable":"no","monitoringService":"yes","enable_discovery":"yes","discover":true}
```

**Create network with Discovery Enabled:**

```
{"addr1":10,"addr2":0,"addr3":0,"addr4":2,"mask_length":16,"name":"test","organization_name":"QAOrg","zoneTemplateName":"z_t","dmzVisible":"no","dnssec_enable":"no","monitoringService":"no","enable_discovery":"yes","discover":true}
```

**Parameters**

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Network Information</a>	

**Responses**

HTTP Code	Description	Schema
500	TIMS-1100 - If both organization id and organization name are not specified in the input, TIMS-1101 If organization doesn't exist with the given organization name in the input, TIMS-7003 If the admin does not have necessary permissions to create a network.	No Content

**Consumes**

- `application/json`
- `application/xml`

**Produces**

- `application/json`
- `application/xml`

**4.106.2. Network Add**

```
POST /network/add_next
```

**Description**

Creates network at the next available space in a given mask.

The example listed below shows a sample request URL

```
/rest/network/add_next?name=ntw&org_name=Internal&zone_template=zt&mask=24
```

**Parameters**

Type	Name	Description	Schema	Default
Query	<b>mask</b> <i>required</i>	New mask	integer(int32)	
Query	<b>name</b> <i>required</i>	name of the network	string	
Query	<b>org_name</b> <i>required</i>	organization name associated with the block	string	
Query	<b>zone_template</b> <i>required</i>	name of the reverse zone template	string	
Body	<b>body</b> <i>optional</i>		<a href="#">AddressBlock</a>	

**Responses**

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-1100 - If both organization id and organization name are not specified in the input, TIMS-1101 If organization doesn't exist with the given organization name in the input, TIMS-7003 If the admin does not have necessary permissions to create a network.	No Content

**Consumes**

- `application/json`
- `application/xml`

**Produces**

- `text/plain`

**4.106.3. Associated Servers Check**

```
POST /network/associated-servers-check
```

**Description**

Checks all the associated servers defined in a specified IPv4 Network in the TCPWave IPAM.

Sample payload with mandatory parameters to check the associated server with the network is listed below.

```
{"address":"10.0.0.0","organization_name":"QAOrg"}
```

**Parameters**

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		<a href="#">Network Information</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Network Information</a>

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.106.4. Network Delete

POST /network/delete

#### Description

Deletes the specified IPv4 Network present in the TCPWave IPAM. Functional Admin can delete networks belonging to any organization. Rest of the admins can delete networks belonging to their organization only.

Sample payload with mandatory parameters to delete network is listed below:

```
{"address":"10.1.10.0","organization_name":"QAOrg"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		<a href="#">Network Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-2008 - Both Network address and id cannot be null. TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.106.5. Network Details by IP

GET /network/detailsByIP

#### Description

Provides Network details of the specified network based on the Network IP in the TCPWave IPAM.

**The example listed below shows a sample request URL**

```
/rest/network/detailsByIP?addr1=10&addr2=0&addr3=0&addr4=0&organizationName=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	addr1 <i>required</i>	First bit of IP	integer(int32)	
Query	addr2 <i>required</i>	Second bit of IP	integer(int32)	
Query	addr3 <i>required</i>	Third bit of IP	integer(int32)	
Query	addr4 <i>required</i>	Fourth bit of IP	integer(int32)	
Query	organizationName <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Network Information</a>

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.106.6. Edit Network

POST /network/edit

#### Description

Updates the existing IPv4 Network details in the TCPWave IPAM.

Below example shows sample request JSON:

```
{
  "address": "10.1.10.0",
  "mask_length": "24",
  "name": "test",
  "description": "testing
  qa",
  "dmzVisible": "no",
  "dnssec_enable": "no",
  "nsec_option": "NSEC3",
  "enable_discovery": "no",
  "discovery_template": "",
  "zoneTemplateName": "z_t",
  "addr1": "10",
  "addr2": "1",
  "addr3": "10",
  "addr4": "0",
  "oldName": "test",
  "organization_name": "QAOrg"
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Network Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3101: Network does not exist, TIMS-2008: Both Network address and id cannot be null.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.106.7. Get next available network

GET /network/getNextAvailableNetwork

#### Description

Returns next available network in an Organization. If startIP and endIP are given, the next available network in that range will be returned. If series is given, the next available network in the below ranges will be returned. 10.0.0.0 - 10.255.255.255 or 172.16.0.0 - 172.31.255.255 or 192.168.0.0 - 192.168.255.255 according to the series given. Series accepts 10 or 172 or 192. If series is also not given, the above ranges will be checked in that order.

**The example listed below shows a sample request URL**

/rest/network/getNextAvailableNetwork?mask=24&orgName=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>endIP</b> <i>optional</i>	End IP	string	
Query	<b>mask</b> <i>required</i>	Mask length	integer(int32)	
Query	<b>orgId</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>orgName</b> <i>required</i>	Organization name	string	
Query	<b>series</b> <i>optional</i>	Series	string	
Query	<b>startIP</b> <i>optional</i>	Start IP	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.106.8. Network List

GET /network/list

##### Description

Provides the list of all available networks in the TCPWave IPAM. Networks are used to define subnets and objects in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/network/list?page=1&rows=20

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>page</b> <i>required</i>	Start Page Number	integer(int32)	
Query	<b>rows</b> <i>required</i>	Total Length	integer(int32)	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Network Information</a> > array

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.106.9. Network Details

GET /network/paged

##### Description

Lists all the IPv4 Networks available in the TCPWave IPAM. Functional Admin gets the list of all Networks. Rest of the Admins get only the list of networks to the organization that they belong to.

The example listed below shows a sample request URL

/rest/network/paged?start=0&length=20

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Comma Separated Organization Names	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Start Page Number	integer(int32)	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListNetwork Information</a>

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.106.10. Network Property Finder

GET /network/propertyFinder/ip/{network\_address}

#### Description

Provides the properties of a specified IPv4 network in the TCPWave IPAM.

Below are the sample query parameter values accepted:

**The example listed below shows a sample request URL**

/rest/network/propertyFinder/ip/10.0.0.2?organizationName=Internal

#### Parameters

Type	Name	Description	Schema	Default
Path	<b>network_address</b> <i>required</i>	network address	string	
Query	<b>organizationName</b> <i>required</i>	Organization	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Network Information</a>
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.106.11. Network Statistics

```
GET /network/stats
```

#### Description

Get detailed statistics information of the specified network in the TCPWave IPAM.

**The example listed below shows a sample request URL**

/rest/network/stats?address=10.0.0.2&id=1234

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Network IP Address	string	
Query	<b>id</b> <i>optional</i>	Network ID	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Network Stats</a>

#### Consumes

- text/plain
- application/xml

#### Produces

- application/json
- application/xml

#### 4.106.12. Subnet Property Finder

```
GET /network/subnets/ip/{subnet_address}/{organization_name}
```

#### Description

Provides the properties of IPv4 network based on subnet address and organization in the TCPWave IPAM.

**The example listed below shows a sample request URL**

/rest/network/subnets/ip/10.0.0.2/Internal

#### Parameters

Type	Name	Description	Schema	Default
Path	<b>organization_name</b> <i>required</i>	Organization Name	string	
Path	<b>subnet_address</b> <i>required</i>	Subnet Address	string	

#### Responses

HTTP Code	Description	Schema
-----------	-------------	--------



HTTP Code	Description	Schema
200	successful operation	<a href="#">Network Information</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.107. Non-Managed DNS Masters Service

#### Description

This service provides API's to get list of Non-Managed DNS Masters present in the TCPWave IPAM, add Non-Managed DNS Masters, update Non-Managed DNS Masters, delete Non-Managed DNS Masters, search for a Non-Managed DNS Masters in the TCPWave IPAM.

#### 4.107.1. Non-Managed DNS Master Add

POST /externaldnsmasters/add

#### Description

Creates a new Non-Managed DNS master in the TCPWave IPAM .

Below example shows sample request JSON:

```
{
  "name":"server.example.com","ipv4_address":"10.1.1.1","masterType":"PDNS","user_name":"john","password":"password","description":"Description for the External DNS Master" }
{
  "name":"server.example.com","ipv4_address":"10.1.1.1","masterType":"XDNS","tsig_name":"key_name","tsig_algo":"HMAC-SHA512","secret_key":"skshHGFKHGHSF&=-KDJFsdbsj","description":"Description for the External DNS Master" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	External DNS Master Details	<a href="#">External DNS Master</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist: {0}., TIMS-7003: You are not authorized to perform this operation., 1738 = TIMS-1738: {0} Master cannot be created as there is a TCPWave Remote already exist with the same IPv4 address: {1}., 1739 = TIMS-1739: {0} Master cannot be created as there is a Microsoft Windows Remote already exist with the same IPv4 address: {1}., 1740 = TIMS-1740: {0} Master cannot be created as there is a IPAM Appliance already exist with the same IPv4 address: {1}., 1741 = TIMS-1741: {0} Master already exist with the same IPv4 address: {1}., 1742 = TIMS-1742: {0} Master already exist with the same name: {1}.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.107.2. Non-Managed DNS Master Details

GET /externaldnsmasters/delete

#### Description

Delete the Non-Managed DNS Master defined on the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/externaldnsmasters/delete?organization\_name=Internal&master\_type=External DNS/Power DNS&ip=10.0.0.6

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>id</b> <i>optional</i>	Non-Managed DNS Master Id	integer(int32)	
Query	<b>ip</b> <i>required</i>	Non-Managed DNS Master IPv4 Address	string	
Query	<b>master_type</b> <i>required</i>	Master Type	string	
Query	<b>organization_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>organization_name</b> <i>required</i>	Organization name	string	

## Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist: {0}., TIMS-7003: You are not authorized to perform this operation.,1744 = TIMS-1744: Both DNS Master Id and IPv4 Address cannot be null., 1745 = TIMS-1745: {0} Master cannot be deleted as there are one or more external DNS zones defined in it.	No Content

## Consumes

- text/plain

## Produces

- application/json
- application/xml

### 4.107.3. Non-Managed DNS Master Edit

```
POST /externaldnsmasters/edit
```

## Description

Updates a Non-Managed DNS master in the TCPWave IPAM .

Below example shows sample request JSON:

```
{
  "name":"server.example.com","ipv4_address":"10.1.1.1","organization_name":"Org""masterType":"PDNS","user_name":"john","description":"Description for the External DNS Master" }
{
  "name":"server.example.com","ipv4_address":"10.1.1.1","organization_name":"Org""masterType":"XDNS","tsig_name":"key_name","tsig_algo":"HMAC-SHA512","secret_key":"skshHGFKHGHSF&=-KDJFsdbsj","description":"Description for the External DNS Master" }
```

## Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	External DNS Master Details	<a href="#">External DNS Master</a>	

## Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist: {0}., TIMS-7003: You are not authorized to perform this operation., 1742 = TIMS-1742: {0} Master already exist with the same name: {1}., 1743 = TIMS-1743: {0} Master does not exists in the IPAM with the IPv4 Address: {1}.	No Content

## Consumes

- application/json
- application/xml

## Produces

- application/json
- application/xml

### 4.107.4. Non-Managed DNS Master Details

```
GET /externaldnsmasters/get
```

## Description

Gets the details of an Non-Managed DNS Master defined on the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/externaldnsmasters/get?organization_name=Internal&master_type=External DNS/Power DNS
```

## Parameters

Type	Name	Description	Schema	Default
Query	<b>id</b> <i>optional</i>	Non-Managed DNS Master Id	integer(int32)	
Query	<b>ip</b> <i>required</i>	Non-Managed DNS Master IPv4 Address	string	
Query	<b>master_type</b> <i>required</i>	Master Type	string	
Query	<b>organization_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>organization_name</b> <i>required</i>	Organization name	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">External DNS Master</a>

HTTP Code	Description	Schema
500	TIMS-1020: Both Organization name and id cannot be null., TIMS-1352: Organization does not exist: {0}., 1743 = TIMS-1743: {0} Master does not exists in the IPAM with the IPv4 Address: {1}., 1744 = TIMS-1744: Both DNS Master Id and IPv4 Address cannot be null.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.107.5. Non-Managed/PowerDNS master Details

```
GET /externaldnsmasters/getepdnslist
```

#### Description

Lists all the Non-Managed/PowerDNS defined in the organization.

The example listed below shows a sample request URL:

/rest/externaldnsmasters/getepdnslist?orgName=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>masterType</b> <i>optional</i>	Master type	string	
Query	<b>orgId</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>orgName</b> <i>optional</i>	Organization name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">External DNS Master</a> > array
500	TIMS-1352: Organization does not exist: {0}	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.107.6. Non-Managed DNS Masters List

```
GET /externaldnsmasters/page
```

#### Description

Obtains a list of all the Non-Managed DNS Masters defined in the TCPWave IPAM. Functional admin gets the list of all Non-Managed DNS Masters. Rest of the admins get only the list of Non-Managed DNS Masters associated with the organization that they belong to.

The example listed below shows a sample request URL:

/tims/rest/externaldnsmasters/page?start=1&length=20

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization Names	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting DNS Appliance Range	integer(int32)	

## Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListExternal DNS Master</a>
500	TIMS-7003: You are not authorized to perform this operation	No Content

## Consumes

- text/plain

## Produces

- application/json
- application/xml

### 4.107.7. Non-Managed DNS master Sync

```
POST /externaldnsmasters/sync
```

## Description

Performs Sync operations on the Non-Managed DNS Masters.

Below example shows sample sync URL:

```
/rest/externaldnsmasters/sync?organization_name=Internal&masterType=External DNS/Power DNS&ip=10.0.0.8
```

## Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>required</i>	Master IP Address	string	
Query	<b>masterType</b> <i>required</i>	Master type	string	
Query	<b>organization_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>organization_name</b> <i>required</i>	Organization name	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-1352: Organization does not exist: {0}	No Content

## Consumes

- application/json
- text/plain

### 4.107.8. Non-Managed DNS Master Add

```
POST /v6externaldnsmasters/add
```

## Description

Creates a new Non-Managed DNS master in the TCPWave IPAM .

Below example shows sample request JSON:

```
{
  "name":"server.example.com","ipv4_address":"10.1.1.1","masterType":"PDNS","user_name":"john","password":"password","description":"Description for the External DNS Master" }
```

```
{
  "name":"server.example.com","ipv4_address":"10.1.1.1","masterType":"XDNS","tsig_name":"key_name","tsig_algo":"HMAC-SHA512","secret_key":"skshHGFKHGHSF&=-KDJFsdbsj","description":"Description for the External DNS Master" }
```

## Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	External DNS Master Details	<a href="#">External DNS Master</a>	

## Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist: {0}, TIMS-7003: You are not authorized to perform this operation., 1738 = TIMS-1738: {0} Master cannot be created as there is a TCPWave Remote already exist with the same IPv6 address: {1}, 1739 = TIMS-1739: {0} Master cannot be created as there is a Microsoft Windows Remote already exist with the same IPv6 address: {1}, 1740 = TIMS-1740: {0} Master cannot be created as there is a IPAM Appliance already exist with the same IPv6 address: {1}, 1741 = TIMS-1741: {0} Master already exist with the same IPv6 address: {1}, 1742 = TIMS-1742: {0} Master already exist with the same name: {1}.	No Content

## Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.107.9. Non-Managed DNS Master Details

```
GET /v6externaldnsmasters/delete
```

#### Description

Delete the Non-Managed DNS Master defined on the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/externaldnsmasters/delete?organization_name=Internal&master_type=External DNS/Power DNS&ip=10.0.0.6
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>id</b> <i>optional</i>	Non-Managed DNS Master Id	integer(int32)	
Query	<b>ip</b> <i>required</i>	Non-Managed DNS Master IPv4 Address	string	
Query	<b>master_type</b> <i>required</i>	Master Type	string	
Query	<b>organization_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>organization_name</b> <i>required</i>	Organization name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist: {0}., TIMS-7003: You are not authorized to perform this operation.,1744 = TIMS-1744: Both DNS Master Id and IPv4 Address cannot be null., 1745 = TIMS-1745: {0} Master cannot be deleted as there are one or more external DNS zones defined in it.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.107.10. Non-Managed DNS Master Edit

```
POST /v6externaldnsmasters/edit
```

#### Description

Updates a Non-Managed DNS master in the TCPWave IPAM .

Below example shows sample request JSON:

```
{
  "name": "server.example.com", "ipv4_address": "10.1.1.1", "organization_name": "Org", "masterType": "PDNS", "user_name": "john", "description": "Description for the External DNS Master" }
{
  "name": "server.example.com", "ipv4_address": "10.1.1.1", "organization_name": "Org", "masterType": "XDNS", "tsig_name": "key_name", "tsig_algo": "HMAC-SHA512", "secret_key": "skshHGFKHGHHSF&=-KDJFsdbsj", "description": "Description for the External DNS Master" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	External DNS Master Details	<a href="#">External DNS Master</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist: {0}., TIMS-7003: You are not authorized to perform this operation., 1742 = TIMS-1742: {0} Master already exist with the same name: {1}., 1743 = TIMS-1743: {0} Master does not exists in the IPAM with the IPv4 Address: {1}.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.107.11. Non-Managed DNS Master Details

```
GET /v6externaldnsmasters/get
```

##### Description

Gets the details of an Non-Managed DNS Master defined on the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/externaldnsmasters/get?organization\_name=Internal&master\_type=External DNS/Power DNS

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>id</b> <i>optional</i>	Non-Managed DNS Master Id	integer(int32)	
Query	<b>ip</b> <i>required</i>	Non-Managed DNS Master IPv4 Address	string	
Query	<b>master_type</b> <i>required</i>	Master Type	string	
Query	<b>organization_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>organization_name</b> <i>required</i>	Organization name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">External DNS Master</a>
500	TIMS-1020: Both Organization name and id cannot be null., TIMS-1352: Organization does not exist: {0}., 1743 = TIMS-1743: {0} Master does not exists in the IPAM with the IPv4 Address: {1}., 1744 = TIMS-1744: Both DNS Master Id and IPv4 Address cannot be null.	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.107.12. Non-Managed/PowerDNS master Details

```
GET /v6externaldnsmasters/getepdnslist
```

##### Description

Lists all the Non-Managed/PowerDNS defined in the organization.

The example listed below shows a sample request URL:

/rest/externaldnsmasters/getepdnslist?orgName=Internal

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>masterType</b> <i>optional</i>	Master type	string	
Query	<b>orgId</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>orgName</b> <i>optional</i>	Organization name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">External DNS Master</a> > array
500	TIMS-1352: Organization does not exist: {0}	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.107.13. Non-Managed DNS IPv6 Masters List

```
GET /v6externaldnsmasters/page
```

##### Description

Obtains a list of all the Non-Managed DNS IPv6 Masters defined in the TCPWave IPAM. Functional admin gets the list of all Non-Managed DNS IPv6 Masters. Rest of the admins get only the list of Non-Managed DNS IPv6 Masters associated

with the organization that they belong to.  
 The example listed below shows a sample request URL:  
 /tims/rest/v6externaldnsmasters/page?start=1&length=20

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization Names	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting DNS Appliance Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListExternal DNS Master</a>
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.107.14. Non-Managed DNS master Sync

```
POST /v6externaldnsmasters/sync
```

#### Description

Performs Sync operations on the Non-Managed DNS Masters.

Below example shows sample sync URL:

```
/rest/externaldnsmasters/sync?organization_name=Internal&masterType=External DNS/Power DNS&ip=10.0.0.8
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>required</i>	Master IP Address	string	
Query	<b>masterType</b> <i>required</i>	Master type	string	
Query	<b>organization_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>organization_name</b> <i>required</i>	Organization name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-1352: Organization does not exist: {0}	No Content

#### Consumes

- application/json
- text/plain

#### 4.108. Non-Managed DNS Zones Service

#### Description

This service provides API's to get list of Non-Managed DNS Zones present in the TCPWave IPAM, add Non-Managed DNS Zones, update Non-Managed DNS Zones, delete Non-Managed DNS Zones, search for a Non-Managed DNS Zones in the TCPWave IPAM.

#### 4.108.1. Non-Managed DNS Zone Add

POST /externaldnszone/add

##### Description

Creates a new Non-Managed DNS zone in the TCPWave IPAM .

Below example shows sample request JSON:

```
{ "zoneName": "example.com", "externalDNSSlaveIPs": ["10.1.1.1"], "masterType": "PDNS", "description": "Description for the External DNS Zone", "orgName": "Organization" }
{ "zoneName": "example.com", "externalDNSSlaveIPs": ["10.1.1.1"], "internalDNSSlaveIPs": ["10.1.1.2"], "masterType": "XDNS", "tsig_name": "key_name", "tsig_algo": "HMAC-SHA512", "secret_key": "skshHGFKKHGHSF&=-KDJFsdbsj", "description": "Description for the External DNS Zone", "orgName": "Organization" }
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	External DNS Zone Details	<a href="#">External DNS Zone</a>	

##### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation. TIMS-1352: Organization does not exist: {0} TIMS-1746: Invalid master type specified, master type as Power DNS or External DNS. TIMS-1747: Non-Managed DNS Zone cannot be created as there is a TCPWave managed zone already exist with the name: {0}. TIMS-1748: Non-Managed DNS Zone cannot be created as there is a TCPWave managed object already exist with the name: {0}. TIMS-1749: Non-Managed DNS Zone cannot be created as there is a TCPWave managed resource record already exist with the name: {0}. TIMS-1750: Non-Managed DNS Zone cannot be created as there is a TCPWave managed IPv6 object already exist with the name: {0}. TIMS-1751: Non-Managed DNS Zone cannot be created as there is a TCPWave managed appliance level forwarder zone already exist with the name: {0}. TIMS-1752: Non-Managed DNS Zone cannot be created as there is a TCPWave managed appliance template level forwarder zone already exist with the name: {0}. TIMS-1753: Non-Managed DNS Zone cannot be created as there is no TCPWave managed DNS appliance defined with IPv4 address: {0}. TIMS-1755: Non-Managed DNS Zone already exist with the same name: {0}.	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml

#### 4.108.2. Non-Managed DNS Zone Delete

POST /externaldnszone/delete

##### Description

Deletes Non-Managed DNS Zones in the TCPWave IPAM. Functional Admin can Delete Zones for any organization. Rest of the admins can Delete Zones only for the organizations that they are associated with.

Below example shows sample request JSON:

```
{ "zone_name": "test.com", "organization_name": "QAOrg", "masterType": "PDNS" }
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">External DNS Zone</a>	

##### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation, TIMS-1352: Organization does not exist: {0} TIMS-1756: Non-Managed DNS zone name cannot be null. TIMS-1754: Non-Managed DNS Zone does not exist in the IPAM with the name: {0}.	No Content

##### Consumes

- application/json
- application/xml

#### 4.108.3. Non-Managed DNS Zone Edit

POST /externaldnszone/edit

##### Description



Updates an existing Non-Managed DNS Zone in the TCPWave IPAM .

Below example shows sample request JSON:

```
{ "zoneName": "example.com", "orgName": "Organization", "externalDNSMasterIPs":
["10.1.1.1"], "masterType": "PDNS", "description": "Description for the External DNS Zone" }
{ "zoneName": "example.com", "externalDNSMasterIPs": ["10.1.1.1"], "internalDNSSlaveIPs":
["10.1.1.2"], "masterType": "XDNS", "tsig_name": "key_name", "tsig_algo": "HMAC-
SHA512", "secret_key": "skshHGFKHGH5F&=-KDJFsdbsj", "description": "Description for the External DNS
Zone", "orgName": "Organization" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Non-Managed DNS Zone Details	<a href="#">External DNS Zone</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist: {0} TIMS-7003: You are not authorized to perform this operation. TIMS-1754: Non-Managed DNS Zone does not exists in the IPAM with the name: {0}. TIMS-1743: {0} Master does not exists in the IPAM with the IPv4 Address: {1}. TIMS-1753: Non-Managed DNS Zone cannot be created as there is no TCPWave managed DNS appliance defined with IPv4 address: {0}. TIMS-1746: Invalid master type specified, master type as Power DNS or External DNS.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.108.4. Non-Managed DNS Zone Force Sync

POST /externaldnszone/forcsync

#### Description

Performs force sync operation on Non-Managed DNS Zones in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "zone_name": "test.com", "organization_name": "QAOrg", "masterType": "PDNS" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">External DNS Zone</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation, TIMS-1352: Organization does not exist: {0} TIMS-1756: Non-Managed DNS zone name cannot be null. TIMS-1754: Non-Managed DNS Zone does not exists in the IPAM with the name: {0}.	No Content

#### Consumes

- application/json
- application/xml

#### 4.108.5. Non-Managed DNS Zone Details

GET /externaldnszone/get

#### Description

Details of the Non-Managed DNS Zone defined on the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/externaldnszone/get?name=zoneabc.com&master_type=Power DNS/External DNS
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>master_type</b> <i>required</i>	Master Type	string	
Query	<b>name</b> <i>required</i>	Zone name	string	
Query	<b>organization_id</b> <i>optional</i>	Organization ID	integer(int32)	

Type	Name	Description	Schema	Default
Query	<b>organization_name</b> <i>optional</i>	Organization name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">External DNS Zone</a>
500	TIMS-1020: Both Organization name and id cannot be null. TIMS-1352: Organization does not exist: {0} TIMS-1746: Invalid master type specified, master type as Power DNS or External DNS. TIMS-1756: Non-Managed DNS zone name cannot be null. TIMS-1754: Non-Managed DNS Zone does not exists in the IPAM with the name: {0}.	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.108.6. Non-Managed DNS Zone List

```
GET /externaldnszone/page
```

#### Description

Obtains a list of all the Non-Managed DNS Zones defined in the TCPWave IPAM. Functional Admin gets the list of all Non-Managed DNS Zones. Rest of the Admins get only the list of Non-Managed DNS Zones associated with the organization that they belong to.

The example listed below shows a sample request URL:

```
/rest/externaldnszone/page?start=1&length=20
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization List	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting DNS Appliance Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListExternal DNS Zone</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.108.7. Resource Records List By Zone

```
GET /externaldnszone/rrsByZone
```

#### Description

Obtains a list of all the resource records by Non-Managed DNS Zones defined in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/externaldnszone/rrsByZone?start=1&length=20&zoneName=zonetest.com
```

## Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>	Session token for authorization	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting DNS Appliance Range	integer(int32)	
Query	<b>zoneName</b> <i>required</i>	Zone Name	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListResourceRecord</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

## Consumes

- `text/plain`

## Produces

- `application/json`
- `application/xml`

## 4.109. Object Service

### Description

This service class provides REST API access to Create, Modify and Delete an Object in the TCPWave IPAM.

#### 4.109.1. Object Add

```
POST /object/add
```

### Description

Adds an Object in the specified subnet. Its highly recommended to execute the object duplicate name checker (/object/duplicateNameChecker) REST API call to validate Object name duplicates, A record duplicate, A to CNAME conflicts and Mirrored zone conflicts.

The allowed allocation types are Static(1), DHCP-Manual(2), DHCP-Auto(3), DHCP-Dynamic(4) and Reserved(5). Static objects denote fixed IP addresses which cannot be used in DHCP scopes. Reserved objects are used to reserve the IP addresses for future use. When DHCP-\* allocation type is selected, the parameters option\_template\_name(DHCP Option Template) and dhcp\_server(DHCP appliance name) are mandatory. User can also specify DHCP Classes(allowClassesArray and denyClassesArray) for the DHCP objects. When the allocation type is reserved, then user can give optional reservation expiry date(rsrv\_exp\_dt) with the format 07/31/2019.

If Name Services(update\_ns\_a and update\_ns\_ptr) are not checked, object A and PTR resource records will not be propagated to DNS on DNS full sync. If Dynamic DNS Update(dyn\_update\_rrs\_a, dyn\_update\_rrs\_ptr, dyn\_update\_rrs\_cname, dyn\_update\_rrs\_mx) are not given while creating an object, DDNS updates for this object will not be propagated to the DNS.

If the object type(class\_code) is either of AWS Instance, Azure Instance or GCE Instance and the subnet is cloud hosted, user can execute the rest API rest/cloudCompute/instance/create to create VM in the cloud. If the object type is either of VMWare ESXi or VMWare vCenter, the attributes vmware\_port, vmware\_user\_name and vmware\_password are mandatory. This object can be used in VMware discovery.

Extension values can be added to the object. Object level resource records will be added if they are given in the payload. Extension attribute values at resource record level also are supported.

Sample payloads with mandatory parameters to add an object are listed below.

#### Add Static Object:

```
{ "addr1": "10", "addr2": "0", "addr3": "0", "addr4": "0", "name": "3G00014Phone", "alloc_type": "1", "class_code": "CRM Server", "domain_name": "demo.com", "organization_name": "QAOrg", "subnet_address": "10.0.0.0" }
```

#### Add Static Object with DDNS Updates Flags:

```
{ "addr1": "10", "addr2": "0", "addr3": "0", "addr4": "0", "name": "3G00014Phone", "alloc_type": "1", "class_code": "CRM Server", "domain_name": "demo.com", "organization_name": "QAOrg", "subnet_address": "10.0.0.0", "update_ns_a": true, "update_ns_ptr": true, "dyn_update_rrs_a": true, "dyn_update_rrs_ptr": true, "dyn_update_rrs_cname": true, "dyn_update_rrs_mx": true }
```

#### Add Static Object with Object Level Resource Records:

```
{ "addr1": "10", "addr2": "0", "addr3": "0", "addr4": "0", "name": "3G00014Phone", "alloc_type": "1", "class_code": "CRM Server",
```

```
"domain_name": "demo.com", "organization_name": "QAOrg", "subnet_address": "10.0.0.0", "update_ns_a": true, "update_ns_ptr": true, "dyn_update_rrs_a": true, "dyn_update_rrs_ptr": true, "dyn_update_rrs_cname": true, "dyn_update_rrs_mx": true, "rrs": [{"owner": "demo1.demo.com.", "rrclass": "IN", "rrtype": "A", "ttl": "1200", "description": "", "data": "10.0.0.2"}]}
```

#### Add Object with Extensions:

Use the API `rest/xtn/attr_val` to add an extension value for an extension attribute to an existing object. Below is the sample payload.

```
{ "type": "object", "key": "10.0.0.2", "values": [{"name": "objXtn", "value": "testVal"}]}
```

#### Add DHCP Dynamic Object:

```
{ "name": "3G00049Phone", "class_code": "3G Phone", "alloc_type": "4", "option_template_name": "DHCP Option Template", "dhcp_server": "DHCP-appliance-1", "update_ns_a": true, "update_ns_ptr": true, "dyn_update_rrs_a": true, "dyn_update_rrs_ptr": true, "dyn_update_rrs_cname": true, "dyn_update_rrs_mx": true, "addr1": "10", "addr2": "0", "addr3": "0", "addr4": "7", "subnet_address": "10.0.0.0", "domain_name": "demo.com", "organization_name": "QAOrg" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Object details	<a href="#">TIMS Object</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3007: object already exists TIMS-3021: Cannot find subnet for object address:{0} TIMS-3022: Cannot find organization information TIMS-3023: Both domain id and domain name cannot be null TIMS-1401: Cannot find domain TIMS-3024: Cannot create an object as the MAC address needs to be unique TIMS-1266: Cannot find the DHCP class for the name TIMS-3025: Resource Records already exist.	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

#### 4.109.2. Adds DC Credentials

```
POST /object/add_dc_credentials
```

#### Description

This operation adds the credentials to a domain controller object in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "address": "10.1.10.232", "dc_username": "Administrator", "dc_password": "NewPass1234", "dc_usehttps": "false" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">DomainController</a>	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

#### 4.109.3. Association list of the object's IP address.

```
GET /object/associationList
```

#### Description

This operation retrieves the association list of the object's IP address.

The example listed below shows a sample request URL:

```
/rest/object/associationList?ip_address=1.0.0.0&org=Internal&subnet_addr=1.0.0.0/8
```

#### Parameters

Type	Name	Description	Schema	Default

Type	Name	Description	Schema	Default
Query	<b>ip_address</b> <i>required</i>	Object IP Address	string	
Query	<b>org</b> <i>required</i>	Organization	string	
Query	<b>subnet_addr</b> <i>required</i>	Subnet IP address with mask	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Resource Record</a> > array

#### Consumes

- text/plain

#### Produces

- text/plain
- application/json
- application/xml

#### 4.109.4. Object Resource Record Update

POST /object/changeReference

#### Description

Updates the references of resources records which point to a specific IP address with new IP address in the TCPWave IPAM. It updates only A and PTR resource records. After update, it performs sync operation for all the zones whose resource records have been updated.

The example listed below shows a sample request URL:

/rest/object/changeReference?existingIP=10.0.0.5&newIP=10.0.0.6&organizationName=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>existingIP</b> <i>required</i>	Existing IP address of the object	string	
Query	<b>newIP</b> <i>required</i>	New IP address of the object	string	
Query	<b>organizationName</b> <i>required</i>	Name of the organization to which object belongs	string	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.109.5. Object Address

GET /object/checkObjectExists

#### Description

Checks if the object exists on the IPAM with the specified address.

The example listed below shows a sample request URL:

/rest/object/checkObjectExists?address=10.0.0.0

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Object Address	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.109.6. Domain Controller Objects

```
GET /object/dcoobjectlist
```

#### Description

Provides Domain Controller Object list

The example listed below shows a sample request URL:

```
/rest/object/dcoobjectlist?organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_id</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">TIMS Object</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.109.7. DC object List by Domain

```
GET /object/dcoobjectlistbydomain
```

#### Description

Provides Domain Controller Object list in a Domain.

The example listed below shows a sample request URL:

```
/rest/object/dcoobjectlistbydomain?organization_name=Internal&domain_name=domain.com&organization_id=1700
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>domain_name</b> <i>required</i>	domain name	string	
Query	<b>organization_id</b> <i>required</i>	organization id	integer(int32)	
Query	<b>organization_name</b> <i>required</i>	organization name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">TIMS Object</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.109.8. Object Delete

```
POST /object/delete-multiple
```

#### Description

Delete a selection of objects.

Sample payloads with mandatory parameters to delete multiple objects are listed below

```
{ "addressArray": ["10.0.0.2"], "isDeleteerrsChecked": 0, "organization_name": "QAOrg" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">TIMS Object</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Resource Record</a>
500	TIMS-3010: Cannot find object TIMS-3027: Cannot delete the object. As it is associated with an Appliance.	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

#### 4.109.9. Delete Active DHCP Lease

```
POST /object/deleteDHCPLease
```

#### Description

Delete active leases for the selected objects.

Sample payloads with mandatory parameters to delete leases for multiple objects

```
{"addressArray":["10.0.0.2","10.0.0.3"],"dhcp_server_IP":"10.0.0.50"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>		<a href="#">TIMS Object</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	Response time out while deleting the lease. Active DHCP Lease for <IP> cannot be deleted. Reason: <Exception>	No Content

#### Consumes

- `text/plain`
- `application/json`
- `application/xml`

#### Produces

- `text/plain`
- `application/json`
- `application/xml`

#### 4.109.10. Object Duplicate Name Checker

```
GET /object/duplicateNameChecker
```

#### Description

Checks for the occurrence of an object with the same name.

The example listed below shows a sample request URL:

```
/rest/object/duplicateNameChecker?
```

```
name=3G00014Phone&domain_name=domain.com&org_name=Internal&ip_addr=10.0.0.2
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>domain_name</b> <i>required</i>	Domain Name	string	
Query	<b>ip_addr</b> <i>required</i>	IP Address	string	
Query	<b>name</b> <i>required</i>	Object Name	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `text/plain`

#### 4.109.11. Object Edit

POST /object/edit

#### Description

Edit the Object. It is highly recommended to execute the object duplicate name checker and the A-CNAME conflict checker REST API calls to validate the data before executing this call. User can also add/modify/delete object level resource records using this API by updating the resource records array in the Data Params Section.

Below example shows sample request JSON:

```
{
  "address": "10.1.10.87",
  "name": "QA-Remote-87",
  "class_code": "TCPWave Remote",
  "alloc_type": "1",
  "mac": "aa:bb:cc:dd:ee",
  "ttl": "1000",
  "rsrv_exp_dt": null,
  "objectview": "",
  "option_template_name": "",
  "dhcp_server": "",
  "update_ns_a": true,
  "update_ns_ptr": true,
  "dyn_update_rrs_a": true,
  "dyn_update_rrs_ptr": true,
  "dyn_update_rrs_cname": true,
  "dyn_update_rrs_mx": true,
  "cloudInstanceTemplate": "",
  "description": "",
  "change_control_team": "",
  "end_of_life": "",
  "room": "",
  "floor": "",
  "location_name": "",
  "terminal_server_kvm": "",
  "switch_name": "",
  "port_name": "",
  "duplex_name": "",
  "serial_num": "",
  "contact_id": "",
  "managed_by": "",
  "monitored_by": "",
  "vmware_port": "",
  "vmware_user_name": "",
  "vmware_password": "*",
  "addr1": "10",
  "addr2": "1",
  "addr3": "10",
  "addr4": "87",
  "subnet_address": "10.1.10.0",
  "organization_name": "QAOrg",
  "domain_name": "qa.com"
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Object details	<a href="#">TIMS Object</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3010: Cannot find object TIMS-3021: Cannot find subnet for object address:{0} TIMS-3022: Cannot find organization information TIMS-1402: cannot find domain:{0} TIMS-1054: Cannot find location information TIMS-3026: Cannot change the allocation type as object is a server TIMS-3024: Cannot update the object as the MAC address needs to be unique TIMS-3017: Cannot change the Dynamic DNS update options for this object as it belongs to a DHCP Scope. Cannot change the Name Service update options for this object as it belongs to a DHCP Scope TIMS-3019: Cannot change the DHCP Option Template for this object as it belongs to a DHCP Scope TIMS-3020: Cannot change the DHCP Appliance for this object as it belongs to a DHCP Scope TIMS 3025: Resource Records already exists.	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

#### 4.109.12. Get Object References

POST /object/get-referenced-rrs

#### Description

Gets the RRs referring to object or A type RR of object.

Below example shows sample request JSON:

```
/rest/object/get-referenced-rrs?addressList=10.0.0.2,10.0.0.3&organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>addressList</b> <i>required</i>	comma separated list of object IPs	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	

#### Responses



HTTP Code	Description	Schema
200	successful operation	<a href="#">Resource Record</a>
500	TIMS-3010: Cannot find object.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.109.13. Object DHCP Details

```
GET /object/getDHCPDetails
```

#### Description

Gets the DHCP Properties configured for a Dynamic/Manual DHCP Object.

The example listed below shows a sample request URL:

```
/rest/object/getDHCPDetails?address=10.0.0.2&orgName=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Object Address	string	
Query	<b>id</b> <i>optional</i>	Object ID	integer(int32)	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Object DHCP Details</a>
500	TIMS-7002: Permission information cannot be retrieved. TIMS-3010: Object does not exist:	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.109.14. Object Discovered Details

```
GET /object/getDiscoveredData
```

#### Description

Gets the Object discovered properties.

The example listed below shows a sample request URL:

```
/rest/object/getDiscoveredData?id=15769
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>id</b> <i>required</i>	Discovered Object ID	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Discovered Object</a>
500	TIMS-3010: Object does not exist:	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json

- application/xml

#### 4.109.15. Get Active and Expired Lease Counts

GET /object/getLeaseCounts

##### Description

Gets Active and Expired Lease Counts

The example listed below shows a sample request URL:  
/rest/object/getLeaseCounts?organization\_name=Internal

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization List	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">DHCP active lease count</a>

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml

#### 4.109.16. Get the next available free IP in a given subnet.

GET /object/getNextFreeIP

##### Description

Gets the next available free IP in a given subnet.

The example listed below shows a sample request URL:  
/rest/object/getNextFreeIP?subnet\_addr=10.0.0.0&org\_name=Internal

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>range_end_addr</b> <i>optional</i>	Range End Address	string	
Query	<b>range_start_addr</b> <i>optional</i>	Range Start Address	string	
Query	<b>subnet_addr</b> <i>required</i>	Subnet Address	string	
Query	<b>subnet_id</b> <i>optional</i>	Subnet ID	integer(int32)	

##### Responses

HTTP Code	Description	Schema
200	successful operation	string

##### Consumes

- text/plain

##### Produces

- text/plain
- application/json
- application/xml

#### 4.109.17. Get the next available free IP in a given subnet.

GET /object/getNextFreeIPandAllocate

##### Description

Gets the next available free IP in a given subnet.

The example listed below shows a sample request URL:  
/rest/object/getNextFreeIPandAllocate?subnet\_addr=1.0.0.0&org\_name=Internal&domain=abc.com&name=Sample Object

##### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Query	<b>domain</b> <i>required</i>	Domain Name	string	
Query	<b>name</b> <i>required</i>	Object Name	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>range_end_addr</b> <i>optional</i>	Range End Address	string	
Query	<b>range_start_addr</b> <i>optional</i>	Range Start Address	string	
Query	<b>remove_references</b> <i>optional</i>	Remove references	string	
Query	<b>subnet_addr</b> <i>required</i>	Subnet Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- text/plain

#### Produces

- text/plain
- application/json
- application/xml

#### 4.109.18. Subnet Address

```
GET /object/getSnAddr
```

#### Description

Retrieves subnet Address based on the specified network address.

The example listed below shows a sample request URL:

/rest/object/getSnAddr?address=10.0.0.0

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Network Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Subnet Information</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.109.19. Subnet Details

```
GET /object/getSubnetByObjectIP
```

#### Description

Retrieves subnet present in the IPAM for the specified allocated, unallocated or reserved object IP address in the specified organization.

The example listed below shows a sample request URL:

/rest/object/getSubnetByObjectIP?address=10.0.0.3&organization=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Object IP Address	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Subnet Information</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.109.20. Fetches the Domain Controller credentials

```
GET /object/get_dc_credentials
```

#### Description

This operation retrieves the credentials of a Domain Controller object in the TCPWave IPAM

The example listed below shows a sample request URL:

```
/rest/object/get_dc_credentials?organization_name=Internal&address=1.0.0.0
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Object Address	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">DomainController</a>

#### Consumes

- text/plain

#### Produces

- text/plain
- application/json
- application/xml

#### 4.109.21. Get IP Address

```
GET /object/getip
```

#### Description

Obtains the IPv4 Object Address based on the given FQDN and Organization.

The example listed below shows a sample request URL:

```
/rest/object/getip?fqdn=3G00049Phone.domain.com.&organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>fqdn</b> <i>required</i>	FQDN	string	
Query	<b>organization_name</b> <i>required</i>	Organization	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< string > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.109.22. Object List

```
GET /object/list
```

#### Description

Lists the object that belong to a subnet.

The example listed below shows a sample request URL:

```
/rest/object/list?subnet_address=10.0.0.0&organization_name=Internal&page=1&rows=20
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_name</b> <i>required</i>	Organization	string	
Query	<b>page</b> <i>required</i>	Start Page Number	integer(int32)	
Query	<b>rows</b> <i>required</i>	Total Length	integer(int32)	
Query	<b>subnet_address</b> <i>required</i>	Subnet Address	string	
Query	<b>subnet_id</b> <i>optional</i>	Subnet ID	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">TIMS Object</a> > array

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.109.23. Unused Object List

```
GET /object/list/unused
```

#### Description

Provides the list of unused objects belong to a subnet.

The example listed below shows a sample request URL:

```
/rest/object/list/unused?subnet_address=10.0.0.0&organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_name</b> <i>required</i>	Organization	string	
Query	<b>subnet_address</b> <i>required</i>	Subnet Address	string	
Query	<b>subnet_id</b> <i>optional</i>	Subnet ID	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< string > array

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.109.24. Object List

```
GET /object/listByMAC
```

#### Description

Provides the lists of objects based on the specified MAC address.

The example listed below shows a sample request URL:

```
/rest/object/listByMAC?mac=aa:bb:cc:dd:ee:ff&organization_name=QAOrg
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>mac</b> <i>required</i>	MAC Address	string	
Query	<b>organization_name</b> <i>required</i>	Organization	string	

#### Responses

HTTP Code	Description	Schema
-----------	-------------	--------

HTTP Code	Description	Schema
200	successful operation	< <a href="#">TIMS Object</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.109.25. Object List by Criteria

GET /object/listCriteria

#### Description

Provides Object List by Criteria.

The example listed below shows a sample request URL:

/rest/object/listCriteria?subnet\_address=10.0.0.0&class\_code=3G Phone&alloc\_type=1&page=1&rows=20

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>alloc_type</b> <i>required</i>	Allocated Type	integer(int32)	
Query	<b>class_code</b> <i>required</i>	Class Code	string	
Query	<b>page</b> <i>required</i>	Start Page Number	integer(int32)	
Query	<b>rows</b> <i>required</i>	Total length	integer(int32)	
Query	<b>subnet_address</b> <i>required</i>	Subnet Address	string	
Query	<b>subnet_id</b> <i>optional</i>	Subnet ID	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListTIMS Object</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.109.26. MultiObject Edit

POST /object/multiedit

#### Description

Edit Multiple Objects.

Below example shows sample request JSON:

```
{ "objectKeyList": [ { "address": "10.0.0.2"}, { "address": "10.0.0.3"} ], "class_code": "3G Phone", "domain_name": "demo.com", "organization_name": "QAOrg", "ttl": 1200 }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Multiple object details	<a href="#">Object Basic Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3010: Cannot find object. TIMS-3021: Cannot find subnet for object address:<object address>. TIMS-3022: Cannot find organization information. TIMS-1402: cannot find domain:<domain name>. TIMS-1054: Cannot find location information. TIMS-3026: Cannot change the allocation type as object is a server. TIMS-3024: Cannot update the object as the MAC address needs to be unique. TIMS-3017: Cannot change the Dynamic DNS update options for this object as it belongs to a DHCP Scope. Cannot change the Name Service update options for this object as it belongs to a DHCP Scope. TIMS-3019: Cannot change the DHCP Option Template for this object as it belongs to a DHCP Scope. TIMS-3020: Cannot change the DHCP Appliance for this object as it belongs to a DHCP Scope. TIMS 3025: Resource Records already exists.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.109.27. Next Free IP

```
GET /object/nextfreeip
```

#### Description

Gets the range of IP addresses that are free to be allocated.

The example listed below shows a sample request URL:

```
/rest/object/nextfreeip?subnet_address=10.0.0&organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>subnet_address</b> <i>required</i>	Subnet Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Address Block</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.109.28. Check if object name exists in the Organization

```
GET /object/objectNameCheck
```

#### Description

Checks if object name is used in the given organization in the TCPWave IPAM. It returns the object details and CNAME resource records of the matching objects.

The example listed below shows a sample request URL:

```
/rest/object/objectNameCheck?orgName=Internal&name=objectname
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Object Name	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Basic Object Info</a> > array
500	TIMS-7003: You are not authorized to perform this operation TIMS-1916: Organization name cannot be null. TIMS-3005: Object name is null. TIMS-1352: Organization does not exist: {0} TIMS-3010: Object does not exist: {0}	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.109.29. Object List

```
GET /object/paged
```

#### Description

Provides Object details based on specified subnet address and organization.

The example listed below shows a sample request URL:

/rest/object/paged?

subnet\_address=10.0.0.0&orgName=Internal&draw=1&start=0&length=20&sort=name&order=asc&filterRules=[]

#### Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>	Session token for authorization	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Start Page Number	integer(int32)	
Query	<b>subnet_address</b> <i>required</i>	Subnet Address	string	
Query	<b>subnet_id</b> <i>optional</i>	Subnet ID	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListTIMS Object</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.109.30. Ping before create

```
GET /object/pingcheck
```

#### Description

Pings available IP before creating an Object.

The example listed below shows a sample request URL:

/rest/object/pingcheck?address=10.0.0.2

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	IP Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.109.31. Objects Reclaim

```
POST /object/reclaimObjects
```

#### Description

Reclaims the static and dynamic objects, static objects will be deleted completely and dynamic objects will be deleted only from DNS and will be return to the pool of available addresses.



Sample payloads with mandatory parameters to reclaim object are listed below.  
 {"addressArray":["10.0.0.2"],"isDeleterrChecked":0,"organization\_name":"Internal"}

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">TIMS Object</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Resource Record</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.109.32. Object Resource Record Add

POST /object/rr/add

#### Description

Add resource records to an Object,Zone,Reverse Zone or Proxy Root Zone in TCPWave IPAM.

Sample payloads with mandatory parameters to add resource record are listed below.

```
{"owner":"tcp.QAZone1.com.,"rrclass":"IN","rrtype":"A","ttl":1200,"data":"10.1.10.3","ipAddr":"10.1.10.3","is_ad_rr":0,"organization_name":"QAOrg"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Resource record details	<a href="#">Resource Record</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7002: Permission information cannot be retrieved. TIMS-9561: Old owner of the resource record cannot be null. TIMS-9564: Old data of the resource record cannot be null. TIMS-1352: Cannot find organization: {0}. TIMS-7003: You are not authorized to perform this operation. TIMS-3006: Object address cannot be null. TIMS-3009: Object does not exist. TIMS-3015: Resource record does not exist. TIMS-3012: CNAME does not refer to a valid A record. TIMS-3254: No A record found for given owner name:{0} Please enter a valid A record name. TIMS-3025: Resource Records already exist.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.109.33. Resource Record Delete

POST /object/rr/delete

#### Description

Deletes a Resource Record

Sample payloads with mandatory parameters to delete resource record are listed below.

```
{"owner":"tcp.QAZone1.com.,"rrclass":"IN","rrtype":"A","ttl":1200,"data":"10.1.10.3","ipAddr":"10.1.10.3","is_ad_rr":0,"organization_name":"QAOrg"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Resource Record</a>	

#### Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
500	TIMS-7002: Permission information cannot be retrieved.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.109.34. Object Resource Record Update

POST /object/rr/edit

#### Description

Update Object, Root Zone and Proxy Root Zone resource record in TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/zone/rr/edit?existingOwner=k5.com.&existingData=10.1.0.4

Sample payloads parameters to edit Zone or Proxy Root Zone are listed below

```
{ "owner": "k5.com.", "rrclass": "IN", "rrtype": "A", "ttl": "1200", "data": "6.0.0.0", "extensions": [
  ], "zoneName": ".", "organization_name": "Internal", "is_external_rr": 1 }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Resource Record</a>	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.109.35. Get RR List

GET /object/rrlist

#### Description

Lists the RRs for the given object in the TCPWave IPAM. Functional Admin can list RR of a object in any organization.

Rest of the Admins gets this provision for the organizations that they are associated with.

The example listed below shows a sample request URL:

/rest/object/rrlist?address=10.1.10.36&orgName=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Object Address	string	
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>id</b> <i>optional</i>	Id of the object	integer(int32)	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>orgName</b> <i>required</i>	Name of the Organization in which zone exist	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListResourceRecord</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.109.36. Sync Objects

```
GET /object/sync
```

#### Description

Sync Object(s) into DNS.

The example listed below shows a sample request URL:

```
/rest/object/sync?objectIps=10.0.0.5&organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>objectIps</b> <i>required</i>	Object IP Addresses	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	boolean
500		No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`
- `text/plain`

#### 4.109.37. Ping IP Address

```
GET /object/tools/ping
```

#### Description

Pings the specified IP address.

The example listed below shows a sample request URL:

```
/rest/object/tools/ping?ip=10.0.0.1
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>required</i>	IP Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Ping Data</a>

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.109.38. Ping IP Address

```
POST /object/tools/ping-multiple
```

#### Description

Pings the specified IP addresses.

The example listed below shows a sample request URL:

```
/rest/object/tools/ping-multiple
```

Below example shows sample request JSON:  
["1.1.1.1", "2.2.2.2", "3.3.3.3"]

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< string > array	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Ping Data</a> > array

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.109.39. Trace Route Object

```
GET /object/tools/traceroute
```

#### Description

Traces the object and shows the route in between the IPAM and the object from the TCPWave IPAM.  
The example listed below shows a sample request URL:  
/rest/object/tools/traceroute?ip=10.0.0.2

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>required</i>	IP Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Ping Data</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.109.40. Resource Record Traverse

```
POST /object/traverse
```

#### Description

Resource record look up in remote DNS Server. Performs the basic name resolution for a given resource record using the target DNS server on which the check is to be executed in the TCPWave IPAM.  
Sample payloads with mandatory parameters to traverse object are listed below.  
{ "rr\_name": "3G251Phone", "domain\_name": "addzone.com", "organization\_name": "Internal", "rr\_value": "10.0.0.5", "rev\_zone\_name": "1.1.in-addr.arpa", "obj\_type": "IPv4", "dnssec\_enabled": false }

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">DNS Appliance Tool</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DNS Appliance Tool</a> > array
500	TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Organization does not exist:<Organization Name>, TIMS-1422: TIMS-1422: Zone does not exist:<Zone Name>	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json

- application/xml

#### 4.109.41. Updates DC Credentials

POST /object/update\_dc\_credentials

##### Description

This operation updates the credentials of a domain controller object in the TCPWave IPAM.

Below example shows sample request JSON:

```
{"address":"10.1.10.232","dc_username":"Administrator","dc_password":"NewPass1234","dc_newpassword":"pass1234","dc_usehttps":"false"}
```

##### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		<a href="#">DomainController</a>	

##### Responses

HTTP Code	Description	Schema
500		No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml

#### 4.109.42. Validate VMWare Object

POST /object/validatevmwareobject

##### Description

Validates VMWare authentication details.

The example listed below shows a sample request URL:

```
/rest/object/validatevmwareobject?objectIP=10.0.0.2&domainName=domain.com&objectName=3G00014Phone
```

Sample payloads with mandatory parameters to validate VMWare are listed below

```
{"objectIPType": "V4","authType": "BASIC","host": "10.1.2.6","port": "4","userName": "root","password": "abc123","ignoreCerts": true}
```

##### Parameters

Type	Name	Description	Schema	Default
Query	domainName <i>required</i>	Domain Name	string	
Query	objectIP <i>required</i>	Object IP Address	string	
Query	objectName <i>required</i>	Object Name	string	
Body	body <i>required</i>	VMWare Authentication Source	<a href="#">VMWareAuthenticationSource</a>	

##### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml

#### 4.110. Organization ImportExport Service

##### 4.110.1. Export Organization Data

GET /orgbulkops/download

##### Description

Exports the organization data into a zip file.

The example listed below shows a sample request URL:

```
/rest/orgbulkops/download?fileName=filenamevalue
```

##### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Query	<b>fileName</b> <i>required</i>	Zip file name	string	

#### Responses

HTTP Code	Description	Schema
500	Organization data cannot be exported.	No Content

#### Produces

- application/octet-stream

#### 4.110.2. Export Organization Data

```
GET /orgbulkops/export
```

#### Description

Exports the organization data into a zip file.  
The example listed below shows a sample request URL:  
/rest/orgbulkops/export?name=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Organization name	string	

#### Responses

HTTP Code	Description	Schema
500	Organization data cannot be exported.	No Content

#### Produces

- application/octet-stream

#### 4.110.3. GET /orgbulkops/getProgressAllStatus

#### Description

TIMS-7003: You are not authorized to perform this operation.  
The example listed below shows a sample request URL:  
/rest/orgbulkops/getProgressAllStatus

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>operationCode</b> <i>optional</i>	Operation Code	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< string, <a href="#">Progress Status Information</a> > map
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.110.4. Get the IPAM statistics

```
GET /orgbulkops/getProgressStatus
```

#### Description

The example listed below shows a sample request URL:  
/rest/orgbulkops/getProgressStatus

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>operationCode</b> <i>optional</i>	Operation Code	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Progress Status Information</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.110.5. Import Organization Data

```
POST /orgbulkops/import
```

#### Description

Import data from zip file of formatted CSV files into the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "input_file": "string", "output_file": "string", "error_file": "string", "max_permmissible_errors": 0, "failed_entries_file": "string" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Import Command</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Import Response Information</a> > array

#### Consumes

- application/json

#### Produces

- application/json
- application/xml

#### 4.110.6. Export Organization Data

```
GET /orgbulkops/orgexport
```

#### Description

Exports the organization data into a zip file.

The example listed below shows a sample request URL:

```
/rest/orgbulkops/orgexport?name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Organization name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Export Response Information</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.111. Organization Service

#### Description

This service class provides REST API access to Create, Modify and Delete an Organization in the TCPWave IPAM.

#### 4.111.1. Organization Add

```
POST /organization/add
```

#### Description

Create a new Organization. Only Functional Admin has the privileges to create an organization. Rest of the admins will

get permission error TIMS-7003.

Below example shows sample request JSON:

```
{ "name": "QAOrg", "description": "QAOrg organization", "enable_root_zone": 1 }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Organization</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1341: An Organization with the given name already exists.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.111.2. Organization Delete

```
POST /organization/delete
```

#### Description

Delete an existing Organization. Only Functional Admin has the privileges to delete an organization. Rest of the admins get permission violation error, TIMS-7003.

Below example shows sample request JSON:

```
{ "name": "QAOrg1" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Organization</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1346: Cannot find organization: <name>. TIMS-1347: Cannot delete Organization. Please delete dependent network elements within this organization and retry.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.111.3. Enable Root Zone

```
POST /organization/enablerootzone
```

#### Description

Enables Root zone for an Organization in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "name": "terra", "enable_root_zone": 1, "description": "testing org delete", "oldName": "terra" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">Organization</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1100: Both Organization Id and Organization Name cannot be null. TIMS-1101: Cannot find organization: <Organization Name>	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json



- application/xml

#### 4.111.4. Get Organization

GET /organization/get

##### Description

Provides an Organization details.

The example listed below shows a sample request URL:  
/rest/organization/get?name=Internal

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Organization Name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Organization</a>
500	TIMS-1021: Organization name is not valid.	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.111.5. Is Root Zone Enabled

GET /organization/isrootzoneenabled

##### Description

Check if root zone is enabled for user associated organization.

The example listed below shows a sample request URL:  
/rest/organization/isrootzoneenabled

##### Responses

HTTP Code	Description	Schema
200	successful operation	integer(int32)
500	TIMS-7003: You are not authorized to perform this operation.	No Content

##### Consumes

- text/plain

##### Produces

- text/plain

#### 4.111.6. Organization List

GET /organization/list

##### Description

List All Organizations. Functional Admin gets the list of all organizations. Rest of the Admins get only one entry corresponding to the organization that they belong to.

The example listed below shows a sample request URL:  
/rest/organization/list?orgName=Internal

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgName</b> <i>optional</i>		string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Organization</a> > array

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.111.7. Root Zone Enabled List

GET /organization/rootzoneenabledlist

### Description

List all root zone enabled organizations.  
The example listed below shows a sample request URL:  
/rest/organization/rootzoneenabledlist

### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgName</b> <i>optional</i>		string	

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Organization</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

### Consumes

- text/plain

### Produces

- application/json
- application/xml

### 4.111.8. Search Organization

GET /organization/search

### Description

Searches Organization from search screen.  
The example listed below shows a sample request URL:  
/rest/organization/search?page=1&rows=20

### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>required</i>	Organization List	string	
Query	<b>page</b> <i>required</i>	Page	integer(int32)	
Query	<b>rows</b> <i>required</i>	Rows	integer(int32)	

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListOrganization</a>
500	TIMS-1020: Both Organization name and id cannot be null.	No Content

### Consumes

- text/plain

### Produces

- application/json
- application/xml

### 4.111.9. Organization Edit

POST /organization/update

### Description

Edit an existing Organization. Only Functional Admin has the privileges update any organization. Super Admins and Power Admins will get permission error TIMS-7003 if they try to edit an organization that they are not part of.  
Below example shows sample request JSON:  
{<strong>name</strong>:"QAOrganization",<strong>oldName</strong>:"QAOrganization",<strong>description</strong>:"TCPWave Organization",<strong>enable\_root\_zone</strong>: 1 }

### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Organization</a>	

### Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
500	TIMS-1103: An organization with the given name already exists: <org name>	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

### 4.112. Params Service

#### Description

This service provides API's to create and update user defined DHCP Options in the TCPWave IPAM. It also provide API's create, update and delete DHCP Custom Folder in the TCPWave IPAM.

#### 4.112.1. Create Custom Folder

POST /params/custom-folder-create

#### Description

Creates a DHCP custom folder in the TCPWave IPAM. Custom folders are used to group various user-defined DHCP options for better accessibility.

Below example shows sample request JSON:

```
{"group_name":"folder-1"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	DHCP custom folder details	<a href="#">Parameters Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-5018: A Folder with this name already exists.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.112.2. Delete Custom Folder

POST /params/custom-folder-delete

#### Description

Deletes a DHCP custom folder defined in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/params/custom-folder-delete?folder_name=my-folder
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>folder_name</b> <i>required</i>	Name of Folder	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-5038: This folder has some options defined in it. Please delete/move them and try again.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.112.3. Edit Custom Folder

POST /params/custom-folder-update

#### Description

Updates an existing user defined DHCP custom folder in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "old_group_name": "folder-1", "group_name": "my-folder" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	DHCP custom folder details	<a href="#">Parameters Information</a>	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.112.4. User Defined DHCP Options Create

```
POST /params/dhcp-option-custom-create
```

#### Description

Creates user defined DHCP Options in the TCPWave IPAM. This feature allows the user to define a desired variant of an option from the specified range.

Below example shows sample request JSON:

```
{ "entity_type_code": "OPTION", "server_type_code": "DHCP", "array_params": [{"display_name": "option78", "data_type": "IP ADDRESS", "group_name": "DHCPCustomGroup", "name": "option 132"}] }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	DHCP custom defined option details	<a href="#">Parameters Information</a>	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.112.5. User Defined DHCP Options Delete

```
POST /params/dhcp-option-custom-delete
```

#### Description

Deletes the user defined options defined in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/params/dhcp-option-custom-delete?name=dhcpOptionName
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>groupName</b> <i>optional</i>	Group Name	string	
Query	<b>name</b> <i>required</i>	DHCP Option Name	string	
Query	<b>subOption</b> <i>optional</i>	DHCP sub option	boolean	

#### Responses

HTTP Code	Description	Schema
500	TIMS-5036: Parameter cannot be deleted as it is being used in option template(s).	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.112.6. User Defined DHCP Options Edit

POST /params/dhcp-option-custom-update

#### Description

Updates an existing user defined DHCP Option in the TCPWave IPAM.

Below example shows sample request JSON:

```
{"data_type":"IP ADDRESS","display_name":"option78", "group_name":"DCGroup","name":"option 78"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	DHCP custom defined option details	<a href="#">Parameters Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-5025: Parameter cannot be edited as it is being used in option template(s).	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.112.7. Custom Folders List

GET /params/groupsList

#### Description

Provides a list of DHCP Custom folders defined in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/params/groupsList

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Parameters Information</a> > array

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.112.8. Custom Folders Search List

GET /params/search

#### Description

Searches a list of DHCP Custom folders defined in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/params/search

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>page</b> <i>optional</i>	Page Number	integer(int32)	
Query	<b>rows</b> <i>optional</i>	Number of rows	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListParameters Information</a>

HTTP Code	Description	Schema

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.112.9. IPV6 Param List

```
GET /params/v6ParamsList
```

#### Description

Lists all IPV6 Params.

The example listed below shows a sample request URL:

/rest/params/v6ParamsList

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Parameters Information</a> > array

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.113. Quick Move Service

##### 4.113.1. Bulk Object Move

```
POST /qmove/bulkobject
```

#### Description

Moves Objects from one subnet to other subnet.

Below example shows sample request JSON:

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Details required to move multiple objects from one subnet to another subnet.	< <a href="#">Quick Move</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

##### 4.113.2. Bulk Object Move

```
POST /qmove/bulkobjectcheck
```

#### Description

Moves Objects from one subnet to other subnet.

Below example shows sample request JSON:

```
{ "destinationSubnetAddress": "192.168.0.0", "currentSubnetAddress": "10.0.0.0", "organizationName": "Internal", "currentObjectList": [ "10.0.0.6", "10.0.0.7", "10.0.0.8"], "destinationObjectList": [] }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Details required to check the possibility of moving multiple objects.	<a href="#">Quick Move</a>	

## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Quick Move</a> > array
500		No Content

## Consumes

- application/json
- application/xml

## Produces

- application/json
- application/xml

### 4.113.3. Object Move

POST /qmove/object

## Description

Moves an Object from one IP Address to other IP Address.

Below example shows sample request JSON:

```
{ "currentAddress": "10.0.3.4", "destinationAddress": "10.0.3.5", "organizationName": "Internal" }
```

## Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Details needed to move an object to different IP Address/name/domain.	<a href="#">Quick Move</a>	

## Responses

HTTP Code	Description	Schema
500		No Content

## Consumes

- application/json
- application/xml

## Produces

- application/json
- application/xml

### 4.113.4. Object Move

POST /qmove/objectSchedChecks

## Description

Moves an Object from one IP Address to other IP Address.

Below example shows sample request JSON:

## Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Details needed to schedule an operation to move an object to different IP Address/name/domain.	< <a href="#">Quick Move</a> > array	

## Responses

HTTP Code	Description	Schema
500		No Content

## Consumes

- application/json
- application/xml

## Produces

- application/json
- application/xml

### 4.114. RPZ Service

## Description

This class implements the REST service calls related to the Response Policy Zone (RPZ) management aspects of IPAM. The rest calls include the RPZ template and RPZ Policy File related calls.

#### 4.114.1. Delete RPZ policy file

POST /rpz/policy/deletepolicyfile

## Description

Delete the Response Zone Policy(RPZ) rules file in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "pfile": "tcp-policy" }
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>pfile</b> <i>required</i>	Policy File name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json

#### 4.114.2. Empty policy rule table

```
POST /rpz/policy/emptypolicyrulestable
```

#### Description

Clear the temporary Response Policy Zone(RPZ) rules table.

The example listed below shows a sample request URL:

/rest/rpz/policy/emptypolicyrulestable

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json

#### 4.114.3. List the Response Policy Zone (RPZ) rules files. The example listed below shows a sample request URL:

/rest/rpz/policy/fileslist

```
GET /rpz/policy/fileslist
```

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Response Policy Zone(RPZ) Policy File</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.114.4. List the Response Policy Zone (RPZ) rules from the temporary table. The example listed below shows a sample request URL: /rest/rpz/policy/getpolicyfilerules?page=1&rows=2

```
GET /rpz/policy/getpolicyfilerules
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>page</b> <i>required</i>	Page number	integer(int32)	
Query	<b>rows</b> <i>required</i>	Rows per page	integer(int32)	

#### Responses

HTTP Code	Description	Schema
-----------	-------------	--------



HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListResponse Policy Zone(RPZ) Rule File</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

4.114.5. Load the Response Policy Zone(RPZ) policy rules from specified file into the temporary table. The example listed below shows a sample request URL: /rest/rpz/policy/loadpolicyfilerules?policyFile=testfile

```
POST /rpz/policy/loadpolicyfilerules
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Rules in the policy file.	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json

4.114.6. Import the Response Policy Zone (RPZ) policy rules file.

```
POST /rpz/policy/policyfileImport
```

#### Description

Import RPZ Policy file. For more information on managing RPZ Policy Files, please refer to the Administrator Reference document.

Below example shows sample request JSON:  
"string"

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Policy file details	string	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

4.114.7. Download the Response Policy Zone (RPZ) rules file.

```
GET /rpz/policy/policyfiledownload
```

#### Description

Retrieves the selected policy file.

The example listed below shows a sample request URL:  
/rest/rpz/policy/policyfiledownload?pfile=testfile

#### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Query	<b>pfile</b> <i>required</i>	Policy File name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-8818: An error has occurred while retrieving the policy file.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.114.8. Validate the RPZ rules in the file.

```
GET /rpz/policy/policyfilevalidate
```

#### Description

Validates the selected policy file.

The example listed below shows a sample request URL:

/rest/rpz/policy/policyfilevalidate?pfile=testfile

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>pfile</b> <i>required</i>	Policy File name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">A generic response</a>
500	TIMS-8813: An error has occurred while validating the policy file.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.114.9. Delete the Response Zone Policy(RPZ) rules file Below example shows sample request JSON: { "policy\_trigger":"yahoo1.com", "policy\_rr":"CNAME", "policy\_rhvalue":"xen.tcpwave.com." }

```
POST /rpz/policy/policyruleDelete
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	RPZ policy rule details	<a href="#">Response Policy Zone(RPZ) Rule File</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json

#### 4.114.10. Reset the exclusive edit mode lock. The example listed below shows a sample request URL: /rest/rpz/policy/reseteditmode

POST /rpz/policy/reseteditmode

### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

### Consumes

- application/json
- application/xml

### Produces

- application/json

#### 4.114.11. POST /rpz/policy/updatePolicyRule

##### Description

Add or Update the Response Policy Zone (RPZ) policy rule in the temporary table in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "policy_trigger": "yahoo1.com", "policy_rr": "CNAME", "policy_rhvalue": "xen.tcpwave.com." }
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	RPZ policy rule details	<a href="#">Response Policy Zone(RPZ) Rule File</a>	

### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

### Consumes

- application/json
- application/xml

### Produces

- application/json

#### 4.114.12. Update RPZ policy file

POST /rpz/policy/updatepolicyfile

##### Description

Update the Response Policy Zone(RPZ) policy file with the contents of the temporary rules table in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "policy_file": "rpz-file-1" }
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	RPZ policy file details	<a href="#">Response Policy Zone(RPZ) Policy File</a>	

### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

### Consumes

- application/json
- application/xml

### Produces

- application/json

#### 4.114.13. Add DNS Response Zone Policy(RPZ) Template

POST /rpz/template/add

##### Description

Add the current DNS Response Zone Policy(RPZ) template in the TCPWave IPAM. Refer Administrator Reference document to know more information about managing DNS RPZ.

Below example shows sample request JSON:

```
{ "name": "rpz-1", "description": "test", "policy_file": "rpz-file-1", "zone_name": "tcp.in", "organization_name": "QAOrg", "server_ip": "", "server_keyname": "", "server_keyvalue": "", "isZoneTransfer": false }
```

**Below example shows create RPZ template when external feed is selected:**

```
{ "name": "rpz-2", "description": "test", "getExt_feed_provider": "spamhaus", "zone_name": "tcp.in,test.com", "organization_name": "QAOrg", "server_ip": "1.2.3.4,5.6.7.8", "server_keyname": "", "server_keyvalue": "", "isZoneTransfer": false }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	RPZ policy template details	<a href="#">RPZTemplate</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json

#### 4.114.14. List DNS Remote Association with RPZ Template

```
GET /rpz/template/assoc/list
```

#### Description

Retrieve the list of DNS Remote instances associated with the current DNS Response Zone Policy(RPZ) template in the TCPWave IPAM. Refer Administrator Reference document to know more information about DNS RPZ.

The example listed below shows a sample request URL:

```
/rpz/template/assoc/list?template_name=rpz-1&address=1.0.0.3&org_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	server address	string	
Query	<b>org_name</b> <i>required</i>	organization name	string	
Query	<b>template_name</b> <i>required</i>	template name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Response Policy Zone(RPZ) Template association information with DNS Server</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.114.15. Update DNS Remote Instances Associated with Template

```
POST /rpz/template/assoc/update
```

#### Description

Update the list of DNS Remote instances associated with the current DNS Response Policy Zone(RPZ) template in the TCPWave IPAM. Refer Administrator Reference document to know more information about DNS RPZ.

The example listed below shows a sample request URL:

```
/rpz/template/assoc/update?template_name=rpz-1&address=1.0.0.3
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	server address	string	
Query	<b>template_name</b> <i>required</i>	template name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json

#### 4.114.16. Delete DNS Response Zone Policy(RPZ) Template

```
POST /rpz/template/delete
```

#### Description

Delete the current DNS Response Zone Policy(RPZ) template in the TCPWave IPAM. Refer Administrator Reference document to know more information about managing DNS RPZ.

The example listed below shows a sample request URL:

```
/rpz/template/delete?name=rpz-1
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	template name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json

#### 4.114.17. Get DNS Response Policy Zone(RPZ) Template

```
GET /rpz/template/get
```

#### Description

Retrieve the detailed information of the current DNS Response Zone Policy (RPZ) template defined in the TCPWave IPAM. Refer Administrator Reference document to know more information about DNS RPZ.

The example listed below shows a sample request URL:

```
/rpz/template/get?name=rpz-1
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	template name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">RPZTemplate</a>
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.114.18. List DNS Response Zone Policy(RPZ) templates

```
GET /rpz/template/list
```

#### Description

Retrieve the detailed list of DNS Response Zone Policy(RPZ) templates defined in the TCPWave IPAM. Refer Administrator Reference document to know more information about DNS RPZ.

The example listed below shows a sample request URL:

```
/rest/rpz/template/list?org_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_name</b> <i>required</i>	organization name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">RPZTemplate</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.114.19. List Master Server IPS for TCPWave Secondaries

```
GET /rpz/template/listassociatedappliances
```

#### Description

Retrieve the masters list for tcpwave secondaries defined in the TCPWave IPAM. Refer Administrator Reference document to know more information about DNS RPZ.

The example listed below shows a sample request URL:

/rest/rpz/template/listassociatedappliances

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	template name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Server Information</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.114.20. List Master Server IPS for TCPWave Secondaries

```
GET /rpz/template/listmasterservers
```

#### Description

Retrieve the masters list for tcpwave secondaries defined in the TCPWave IPAM. Refer Administrator Reference document to know more information about DNS RPZ.

The example listed below shows a sample request URL:

/rest/rpz/template/listmasterservers

#### Responses

HTTP Code	Description	Schema
200	successful operation	< string > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.114.21. Edit DNS Response Zone Policy(RPZ) Template

```
POST /rpz/template/modify
```

#### Description

Update the current DNS Response Zone Policy(RPZ) template in the TCPWave IPAM. Refer Administrator Reference document to know more information about managing DNS RPZ.

Below example shows sample request JSON:

```
{ "new_name": "rpz-1", "description": "qa testing", "zone_name": "tcp.in.co", "policy_file": "rpz-file-1",
"organization_name": "QAOrg", "server_ip": "", "server_keyname": "", "server_keyvalue": "", "isZoneTransfer": false,
"name": "rpz-1" }
```

**Below example shows update RPZ template when external feed is selected:**

```
{ "name": "rpz-2", "description": "test", "getExt_feed_provider": "spamhaus", "zone_name": "tcp.in.test.com",
```

```
"organization_name":"QAOrg", "server_ip":"1.2.3.4.5.6.7.8", "server_keyname":"","server_keyvalue":"","isZoneTransfer":false }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	RPZ template details	<a href="#">RPZTemplate</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json

### 4.115. Reverse Zone Service

#### Description

This service provides API's to get list of Reverse Zones present in the TCPWave IPAM and add, update, delete Reverse Zones in the TCPWave IPAM.

#### 4.115.1. Reverse Zone Add

```
POST /ip6revzone/add
```

#### Description

Creates a new Reverse Zone by checking if it overlaps with the existing zones defined in the TCPWave IPAM. Functional Admin can create a new Zone for any organization. Rest of the admins can create a new Zone only for the organization that they are associated with. Refer to the Administrator reference documentation for additional information about the Zones.

Below example shows sample request JSON:

```
{ "name":"10.in-addr.arpa", "networkAddress":"10.0.0.0", "networkMask":"24", "description":"Testing REST API", "dmzVisible":"no", "dnssec_enable":"no", "organization_name":"QAOrg", "serial_format":"DATE", "template_name":"QA Standard Template", "zoneRR":[] }Create Zone with Non Managed Name Servers
{ "name":"zone.com", "template_name":"z_t", "organization_name":"QAOrg", "nonmanagedNS": [{"ns_fqdn":"nameserver.domain.com", "ns_ip":"10.1.10.12"}, {"ns_fqdn":"nameserver1.domain.com", "ns_ip":"31.1.1.12"}], "is_tsig":1}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Zone details	<a href="#">Zone</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation TIMS-1352: Cannot find organization:{0} TIMS-5031: Both template name and id cannot be null TIMS-5020: Template does not exist: {0} TIMS-5039: Template does not exist for organization TIMS-1356: Zone already exists: {0} TIMS-3209: Zone {0} is already delegated in the root zone(organization:{1}). Cannot add it as a managed zone in the TCPWave IPAM TIMS-1430: Cannot create a zone: {0} as there is a forward only zone already exists with this name TIMS-1349: DNS Configuration sync failed with error: {0} TIMS-3025: Resource Records already exist.	No Content

#### Consumes

- application/json
- application/xml

#### 4.115.2. Child Reverse Zones Add

```
POST /ip6revzone/addChildZones
```

#### Description

Creates new child Reverse Zones using the specified parent details by checking if it overlaps with the existing zones defined in the TCPWave IPAM. Functional Admin can create a new Zone for any organization. Rest of the admins can create a new Zone only for the organization that they are associated with. Refer to the Administrator reference documentation for additional information about the Zones.

Below example shows sample request JSON:

```
{ "name":"10.in-addr.arpa", "networkAddress":"10.0.0.0", "networkMask":"8", "description":"Testing REST API", "dmzVisible":"no", "dnssec_enable":"no", "organization_name":"QAOrg", "serial_format":"DATE", "template_name":"QA Standard Template", "zoneRR":[] }childRevZones:[{"name":"1.10.in-addr.arpa", "networkAddress":"10.1.0.0",
```

"networkMask":"16"},{"name":"2.10.in-addr.arpa", "networkAddress":"10.2.0.0", "networkMask":"16"}]

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Zone details	<a href="#">Zone</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation TIMS-1352: Cannot find organization:{0} TIMS-5031: Both template name and id cannot be null TIMS-5020: Template does not exist: {0} TIMS-5039: Template does not exist for organization TIMS-1356: Zone already exists: {0} TIMS-3209: Zone {0} is already delegated in the root zone(organization:{1}). Cannot add it as a managed zone in the TCPWave IPAM TIMS-1430: Cannot create a zone: {0} as there is a forward only zone already exists with this name TIMS-1349: DNS Configuration sync failed with error: {0}	No Content

#### Consumes

- `application/json`
- `application/xml`

#### 4.115.3. IPv6 Reverse Zone Force Sync

```
GET /ipv6revzone/forcesynczones
```

#### Description

Synchronizes the IPv6 DNS reverse zone data for a given zone or a subset of zones by fetching all the resource records specified from the TCPWave data repository. The DNS zone files are constructed as per the TCPWave Product Engineering's specifications with various integrity checks embedded into them. The files are then compressed and transmitted to the remote using an encrypted T-Message secure tunnel. The compressed files are uncompressed on the remote and the DNS process on the remote is signaled to read the updated contents. The administrator performing this action is required to have a sync permission. This action is audited.

The example listed below shows a sample request URL:

`/rest/revzone/forcesynczones?zoneOrgNames=Internal`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>zoneOrgNames</b> <i>required</i>	Reverse Zone Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Zone Force Sync</a> > array
500	TIMS-1020: Both Organization name and id cannot be null TIMS-1352: Organization does not exist:{0} TIMS-1422: Zone does not exist:{0}	No Content

#### Consumes

- `application/json`
- `application/xml`
- `text/plain`

#### Produces

- `application/json`
- `application/xml`
- `text/plain`

#### 4.115.4. Get RR List

```
GET /ipv6revzone/get
```

#### Description

Lists the RRs for the given Reverse Zone in the TCPWave IPAM. Functional Admin can list RR of a Reverse Zone in any organization. Rest of the Admins gets this provision for the organizations that they are associated with.

The example listed below shows a sample request URL:

`/rest/revzone/get?revZoneName=10.in-addr.arpa&orgName=Internal`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgName</b> <i>required</i>	Name of the Organization in which zone exist	string	



Type	Name	Description	Schema	Default
Query	<b>revZoneId</b> <i>optional</i>	Id of the reverse zone	integer(int32)	
Query	<b>revZoneName</b> <i>required</i>	Name of the reverse zone	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Resource Record</a> > array
500	TIMS-1352: Cannot find organization: {0} TIMS-1403: Zone id cannot be null	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`

#### 4.115.5. Get Network Full Address and Mask For a Subnet

```
GET /ipv6revzone/getNetworkMask
```

#### Description

Gets the network full address and mask (With delimiter <NetworkFulladdress>@-<networkMask>) for a given subnet in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/revzone/getNetworkMask?orgId=1745&orgName=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>optional</i>	Subnet Address	string	
Query	<b>orgId</b> <i>required</i>	Id of the Organization in which subnet exist	integer(int32)	
Query	<b>orgName</b> <i>required</i>	Name of the Organization in which subnet exist	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-1352: Cannot find organization: {0}	No Content

#### Consumes

- `text/plain`

#### Produces

- `text/plain`

#### 4.115.6. Reverse Zone Get

```
POST /ipv6revzone/getRevZone
```

#### Description

Gets the reverse zone information associated with an organization in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "name": "10.in-addr.arpa", "organization_name": "QAOrg" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Zone</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Zone</a>
500	TIMS-1020: Both Organization name and id cannot be null TIMS-1352: Organization does not exist: {0}, TIMS-1422: Zone does not exist: {0}	No Content

#### Consumes

- `application/json`

- application/xml

#### 4.115.7. Reverse Zone Delete Multiple

POST /ipv6revzone/multidelete

##### Description

Deletes Multiple Reverse Zones in the TCPWave IPAM. Functional Admin can Delete Multiple Reverse Zones for any organization. Rest of the admins can Delete Multiple Reverse Zones only for the organization that they are associated with.

Below example shows sample request JSON:

```
{ "name": "10.in-addr.arpa", "organization_name": "Internal" }
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">Zone</a> > array	

##### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation TIMS-1352: Cannot find organization: {0} TIMS-1406: Reverse Zone(s) does(do) not exist.	No Content

##### Consumes

- application/json
- application/xml

#### 4.115.8. Reverse Zone List

GET /ipv6revzone/page

##### Description

Provides a paginated list of Reverse Zones Defined in the TCPWave IPAM. Functional Admin gets the list of all zones. Rest of the Admins get only the list of zones associated with the organization that they belong to.

The example listed below shows a sample request URL:

```
/rest/revzone/page?start=1&length=20
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>customFilterRules</b> <i>optional</i>	Custom Filter String	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Size	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sorting Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization List	string	
Query	<b>sort</b> <i>optional</i>	Sorting String	string	
Query	<b>start</b> <i>required</i>	Starting Zone Range	integer(int32)	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListZone</a>
500	TIMS-7003: You are not authorized to perform this operation	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.115.9. Reverse Zone Resource Record Add

POST /ipv6revzone/rr/add

##### Description

Adds a new Resource Record in the revzone to the TCPWave IPAM).

Below example shows sample request JSON:

```
{ "name": "www", "rrclass": "IN", "rrtype": "PTR", "ttl": 1200, "data": "10.1.10.5", "description": "Reverse zone RR", "ipAddr": "10.1.10.0", "domain": "test.com", "organization_name": "QAOrg", "networkAddress": "10.1.10.0", "mask": "24" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Resource Record</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1023: Host does not exist, Please provide a correct host name or IP address. TIMS-14093: Reverse zone does not exists: <Name> with the given mask. TIMS-1354: Organization does not exist. TIMS-1321: Domain does not exist: <Domain name> TIMS-3206: Resource record with type:<Type>, owner:<Owner> and data:<Data> already exists.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.115.10. Delete Resource Records

```
POST /ipv6revzone/rr/delete
```

#### Description

Deletes the Resource Record of Reverse zone in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "owner": "ftp.tcpwave.com.", "rrclass": "IN", "rrtype": "PTR", "ttl": 1200, "data": "10.1.0.1", "organization_name": "Internal", "networkAddress": "10.1.0.0", "mask": "24" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Resource Record</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-14093: Reverse zone does not exists: <Name> with the given mask. TIMS-1354: Organization does not exist. TIMS-1321: Domain does not exist: <Domain name> TIMS-3206: Resource record with type:<Type>, owner:<Owner> and data:<Data> already exists.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.115.11. Reverse Zone Resource Record Update

```
POST /ipv6revzone/rr/edit
```

#### Description

Updates a Resource Record of Reverse zone in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "owner": "www.test.com", "rrclass": "IN", "rrtype": "PTR", "ttl": 5000, "description": "Updated TTL and Host name", "domain": "inter.com", "organization_name": "Internal", "networkAddress": "10.1.0.0", "mask": "28" }
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>existingData</b> <i>required</i>	Data of the resource record to be updated	string	
Query	<b>existingOwner</b> <i>required</i>	Owner of the resource record to be updated	string	
Body	<b>body</b> <i>optional</i>		<a href="#">Resource Record</a>	

## Responses

HTTP Code	Description	Schema
500	TIMS-7002: Permission information cannot be retrieved TIMS-9561: Existing owner of the resource record cannot be null TIMS-9564: Existing data of the resource record cannot be null TIMS-1352: Cannot find organization: <Organization Name> TIMS-7003: You are not authorized to perform this operation TIMS-3101: Network does not exist: <IP Address> TIMS-3015: Resource record does not exist TIMS-1321: Domain does not exist: <Domain Name>	No Content

## Consumes

- application/json
- application/xml

## Produces

- application/json
- application/xml

## 4.115.12. Reverse Zone Search

```
GET /ipv6revzone/search
```

## Description

Provides the list of reverse zones for a given search string in the TCPWave IPAM. Functional Admin can see the list of reverse zones for all organizations. Rest of the Admins can see only the list of reverse zones associated with the organization that they belong to.

The example listed below shows a sample request URL:

```
/rest/revzone/search?page=1&rows=20
```

## Parameters

Type	Name	Description	Schema	Default
Query	<b>page</b> <i>required</i>	Page Number	integer(int32)	
Query	<b>rows</b> <i>required</i>	Number of rows	integer(int32)	

## Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListZone</a>

## Consumes

- text/plain

## Produces

- application/json
- application/xml

## 4.115.13. Reverse Zone Edit

```
POST /ipv6revzone/update
```

## Description

Updates an existing Reverse Zone in the TCPWave IPAM. Functional Admin can update a Zone for any organization.

Rest of the admins can update a Zone only for the organizations that they are associated with.

Below example shows sample request JSON:

```
{ "addedRRs": [{"data":"test.demo.com.", "owner":"10.0.0.10.in-addr.arpa.", "rrclass":"IN", "rrtype":"PTR", "status":1, "ttl":1200 }], "deletedRRs":[], "description":"Testing REST API Updates", "dmzVisible":0, "dnssec_enable":"no", "monitoringService":"yes", "name":"10.in-addr.arpa", "networkAddress":"10.0.0.11", "networkMask":"24", "serial_format":"DATE", "template_name":"qa-zone-template", "organization_name":"QAOrg" }
```

## Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Zone</a>	

## Responses

HTTP Code	Description	Schema
-----------	-------------	--------

HTTP Code	Description	Schema
500	TIMS-1352: Cannot find organization: {0} TIMS-7003: You are not authorized to perform this operation TIMS-1415: Zone or Domain already exists:{0} TIMS-1430: Cannot create a zone: {0} as there is a forward only zone already exists with this name TIMS-1422: Zone does not exist: {0} TIMS-5020: Template does not exist: {0} TIMS-1349: DNS Configuration sync failed with error:{0} TIMS-5039: Template does not exist for organization TIMS-3025: Resource Records already exist	No Content

#### Consumes

- application/json
- application/xml

#### 4.115.14. Reverse Zone Add

POST /revzone/add

#### Description

Creates a new Reverse Zone by checking if it overlaps with the existing zones defined in the TCPWave IPAM. Functional Admin can create a new Zone for any organization. Rest of the admins can create a new Zone only for the organization that they are associated with. Refer to the Administrator reference documentation for additional information about the Zones.

Below example shows sample request JSON:

```
{ "name": "10.in-addr.arpa", "networkAddress": "10.0.0.0", "networkMask": "24", "description": "Testing REST API", "dmzVisible": "no", "dnssec_enable": "no", "organization_name": "QAOrg", "serial_format": "DATE", "template_name": "QA Standard Template"}
Create Zone with Non Managed Name Servers
{ "name": "zone.com", "template_name": "z_t", "organization_name": "QAOrg", "nonmanagedNS": [{"ns_fqdn": "nameserver.domain.com", "ns_ip": "10.1.10.12"}, {"ns_fqdn": "nameserver1.domain.com", "ns_ip": "31.1.1.12"}], "is_tsig": 1}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	body required	Zone details	<a href="#">Zone</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation TIMS-1352: Cannot find organization:{0} TIMS-5031: Both template name and id cannot be null TIMS-5020: Template does not exist: {0} TIMS-5039: Template does not exist for organization TIMS-1356: Zone already exists: {0} TIMS-3209: Zone {0} is already delegated in the root zone(organization:{1}). Cannot add it as a managed zone in the TCPWave IPAM TIMS-1430: Cannot create a zone: {0} as there is a forward only zone already exists with this name TIMS-1349: DNS Configuration sync failed with error: {0} TIMS-3025: Resource Records already exist.	No Content

#### Consumes

- application/json
- application/xml

#### 4.115.15. Child Reverse Zones Add

POST /revzone/addChildZones

#### Description

Creates new child Reverse Zones using the specified parent details by checking if it overlaps with the existing zones defined in the TCPWave IPAM. Functional Admin can create a new Zone for any organization. Rest of the admins can create a new Zone only for the organization that they are associated with. Refer to the Administrator reference documentation for additional information about the Zones.

Below example shows sample request JSON:

```
{ "name": "10.in-addr.arpa", "networkAddress": "10.0.0.0", "networkMask": "8", "description": "Testing REST API", "dmzVisible": "no", "dnssec_enable": "no", "organization_name": "QAOrg", "serial_format": "DATE", "template_name": "QA Standard Template", "zoneRR": [] }
childRevZones: [{"name": "1.10.in-addr.arpa", "networkAddress": "10.1.0.0", "networkMask": "16"}, {"name": "2.10.in-addr.arpa", "networkAddress": "10.2.0.0", "networkMask": "16"}]
```

#### Parameters

Type	Name	Description	Schema	Default
Body	body required	Zone details	<a href="#">Zone</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation TIMS-1352: Cannot find organization:{0} TIMS-5031: Both template name and id cannot be null TIMS-5020: Template does not exist: {0} TIMS-5039: Template does not exist for organization TIMS-1356: Zone already exists: {0} TIMS-3209: Zone {0} is already delegated in the root zone(organization:{1}). Cannot add it as a managed zone in the TCPWave IPAM TIMS-1430: Cannot create a zone: {0} as there is a forward only zone already exists with this name TIMS-1349: DNS Configuration sync failed with error: {0}	No Content

#### Consumes

- application/json
- application/xml

#### 4.115.16. Reverse Zone Force Sync

```
GET /revzone/forcesynczones
```

#### Description

Synchronizes the DNS reverse zone data for a given zone or a subset of zones by fetching all the resource records specified from the TCPWave data repository. The DNS zone files are constructed as per the TCPWave Product Engineering's specifications with various integrity checks embedded into them. The files are then compressed and transmitted to the remote using an encrypted T-Message secure tunnel. The compressed files are uncompressed on the remote and the DNS process on the remote is signaled to read the updated contents. The administrator performing this action is required to have a sync permission. This action is audited.

The example listed below shows a sample request URL:  
/rest/revzone/forcesynczones?zoneOrgNames=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	zoneOrgNames <i>required</i>	Reverse Zone Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Zone Force Sync</a> > array
500	TIMS-1020: Both Organization name and id cannot be null TIMS-1352: Organization does not exist:{0} TIMS-1422: Zone does not exist:{0}	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.115.17. Get RR List

```
GET /revzone/get
```

#### Description

Lists the RRs for the given Reverse Zone in the TCPWave IPAM. Functional Admin can list RR of a Reverse Zone in any organization. Rest of the Admins gets this provision for the organizations that they are associated with.

The example listed below shows a sample request URL:  
/rest/revzone/get?revZoneName=10.in-addr.arpa&orgName=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	orgName <i>required</i>	Name of the Organization in which zone exist	string	
Query	revZoneId <i>optional</i>	Id of the reverse zone	integer(int32)	
Query	revZoneName <i>required</i>	Name of the reverse zone	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Resource Record</a> > array
500	TIMS-1352: Cannot find organization: {0} TIMS-1403: Zone id cannot be null	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`

#### 4.115.18. Get Network Full Address and Mask For a Subnet

GET /revzone/getNetworkMask

#### Description

Gets the network full address and mask (With delimiter <NetworkFulladdress>@-<networkMask>) for a given subnet in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/revzone/getNetworkMask?orgId=1745&orgName=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>optional</i>	Subnet Address	string	
Query	<b>orgId</b> <i>required</i>	Id of the Organization in which subnet exist	integer(int32)	
Query	<b>orgName</b> <i>required</i>	Name of the Organization in which subnet exist	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-1352: Cannot find organization: {0}	No Content

#### Consumes

- `text/plain`

#### Produces

- `text/plain`

#### 4.115.19. Reverse Zone Get

POST /revzone/getRevZone

#### Description

Gets the reverse zone information associated with an organization in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "name": "10.in-addr.arpa", "organization_name": "QAOrg" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Zone</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Zone</a>
500	TIMS-1020: Both Organization name and id cannot be null TIMS-1352: Organization does not exist: {0}, TIMS-1422: Zone does not exist: {0}	No Content

#### Consumes

- `application/json`
- `application/xml`

#### 4.115.20. Reverse Zone Delete Multiple

POST /revzone/multidelete

#### Description

Deletes Multiple Reverse Zones in the TCPWave IPAM. Functional Admin can Delete Multiple Reverse Zones for any

organization. Rest of the admins can Delete Multiple Reverse Zones only for the organization that they are associated with.

Below example shows sample request JSON:

```
{ "name":"10.in-addr.arpa","organization_name":"Internal"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">Zone</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation TIMS-1352: Cannot find organization: {0} TIMS-1406: Reverse Zone(s) does(do) not exist.	No Content

#### Consumes

- application/json
- application/xml

#### 4.115.21. Reverse Zone List

```
GET /revzone/page
```

#### Description

Provides a paginated list of Reverse Zones Defined in the TCPWave IPAM. Functional Admin gets the list of all zones.

Rest of the Admins get only the list of zones associated with the organization that they belong to.

The example listed below shows a sample request URL:

```
/rest/revzone/page?start=1&length=20
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>customFilterRules</b> <i>optional</i>	Custom Filter String	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Size	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sorting Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization List	string	
Query	<b>sort</b> <i>optional</i>	Sorting String	string	
Query	<b>start</b> <i>required</i>	Starting Zone Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListZone</a>
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.115.22. Checks the references associated Network to the Reverse Zone

```
POST /revzone/rZoneReferenceCheck
```

#### Description

Checks the associated Network to the Reverse Zone return True or False.

The example listed below shows a sample request URL:

```
/rest/revzone/getNetworkMask?orgId=1745&orgName=Internal
```

#### Parameters

Type	Name	Description	Schema	Default



Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">Zone</a> > array	

#### Responses

HTTP Code	Description	Schema
200	successful operation	boolean
500	TIMS-1352: Cannot find organization: {0}	No Content

#### Consumes

- text/plain
- application/json
- application/xml

#### Produces

- text/plain
- application/json
- application/xml

#### 4.115.23. Reverse Zone Resource Record Add

```
POST /revzone/rr/add
```

#### Description

Adds a new Resource Record in the revzone to the TCPWave IPAM).

Below example shows sample request JSON:

```
{ "name": "www", "rrclass": "IN", "rrtype": "PTR", "ttl": 1200, "data": "10.1.10.5", "description": "Reverse zone RR", "ipAddr": "10.1.10.0", "domain": "qa.com", "organization_name": "QAOrg", "networkAddress": "10.1.10.0", "mask": "24" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Resource Record</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1023: Host does not exist, Please provide a correct hostname or IP address. TIMS-14093: Reverse zone does not exists: <Name> with the given mask. TIMS-1354: Organization does not exist. TIMS-1321: Domain does not exist: <Domain name> TIMS-3206: Resource record with type:<Type>, owner:<Owner> and data:<Data> already exists.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.115.24. Delete Resource Records

```
POST /revzone/rr/delete
```

#### Description

Deletes the Resource Record of Reverse zone in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "owner": "ftp.tcpwave.com.", "rrclass": "IN", "rrtype": "PTR", "ttl": 1200, "data": "10.1.0.1", "organization_name": "Internal", "networkAddress": "10.1.0.0", "mask": "24" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Resource Record</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-14093: Reverse zone does not exists: <Name> with the given mask. TIMS-1354: Organization does not exist. TIMS-1321: Domain does not exist: <Domain name> TIMS-3206: Resource record with type:<Type>, owner:<Owner> and data:<Data> already exists.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.115.25. Reverse Zone Resource Record Update

```
POST /revzone/rr/edit
```

#### Description

Updates a Resource Record of Reverse zone in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "owner": "www.test.com", "rrclass": "IN", "rrtype": "PTR", "ttl": 5000, "description": "Updated TTL and Host name", "domain": "inter.com", "organization_name": "Internal", "networkAddress": "10.1.0.0", "mask": "28" }
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>existingData</b> <i>required</i>	Data of the resource record to be updated	string	
Query	<b>existingOwner</b> <i>required</i>	Owner of the resource record to be updated	string	
Query	<b>existingType</b> <i>required</i>	Type of the resource record to be updated	string	
Body	<b>body</b> <i>optional</i>		<a href="#">Resource Record</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7002: Permission information cannot be retrieved TIMS-9561: Existing owner of the resource record cannot be null TIMS-9564: Existing data of the resource record cannot be null TIMS-1352: Cannot find organization: <Organization Name> TIMS-7003: You are not authorized to perform this operation TIMS-3101: Network does not exist: <IP Address> TIMS-3015: Resource record does not exist TIMS-1321: Domain does not exist: <Domain Name>	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.115.26. Get RR List

```
GET /revzone/rrlist
```

#### Description

Lists the RRs for the given Reverse Zone in the TCPWave IPAM. Functional Admin can list RR of a Reverse Zone in any organization. Rest of the Admins gets this provision for the organizations that they are associated with.

The example listed below shows a sample request URL:

```
/rest/revzone/get?revZoneName=10.in-addr.arpa&orgName=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>orgName</b> <i>required</i>	Name of the Organization in which zone exist	string	
Query	<b>revZoneId</b> <i>optional</i>	Id of the reverse zone	integer(int32)	
Query	<b>revZoneName</b> <i>required</i>	Name of the reverse zone	string	

Type	Name	Description	Schema	Default
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListResourceRecord</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.115.27. Reverse Zone Search

```
GET /revzone/search
```

#### Description

Provides the list of reverse zones for a given search string in the TCPWave IPAM. Functional Admin can see the list of reverse zones for all organizations. Rest of the Admins can see only the list of reverse zones associated with the organization that they belong to.

The example listed below shows a sample request URL:

```
/rest/revzone/search?page=1&rows=20
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>page</b> <i>required</i>	Page Number	integer(int32)	
Query	<b>rows</b> <i>required</i>	Number of rows	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListZone</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.115.28. Reverse Zone Edit

```
POST /revzone/update
```

#### Description

Updates an existing Reverse Zone in the TCPWave IPAM. Functional Admin can update a Zone for any organization. Rest of the admins can update a Zone only for the organizations that they are associated with.

Below example shows sample request JSON:

```
{ "description": "Testing REST API Updates", "dmzVisible": 0,
  "dnssec_enable": "no", "monitoringService": "yes", "name": "10.in-addr.arpa", "networkAddress": "10.0.0.11",
  "networkMask": "24", "serial_format": "DATE", "template_name": "qa-zone-template", "organization_name": "QAOrg" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Zone</a>	

#### Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
500	TIMS-1352: Cannot find organization: {0} TIMS-7003: You are not authorized to perform this operation TIMS-1415: Zone or Domain already exists:{0} TIMS-1430: Cannot create a zone: {0} as there is a forward only zone already exists with this name TIMS-1422: Zone does not exist: {0} TIMS-5020: Template does not exist: {0} TIMS-1349: DNS Configuration sync failed with error:{0} TIMS-5039: Template does not exist for organization TIMS-3025: Resource Records already exist	No Content

#### Consumes

- application/json
- application/xml

### 4.116. Role Service

#### Description

This class provides services related to admin such as create, Delete, Modify etc in the TCPWave IPAM.

#### 4.116.1. Admin Role List

```
GET /role/list
```

#### Description

List all the admin roles. Lists all the possible Admin Roles in the system.

The example listed below shows a sample request URL:

```
/rest/role/list
```

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Admin Role</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.117. Root Access Management Service

#### Description

This service class provides services related to supported Vault types in the TCPWave IPAM such as CyberArk, Hashicorp and Native. It provides an api to get/configure/list the Vault types in the TCPWave IPAM.

#### 4.117.1. Configure root access authentication on appliances

```
POST /rootaccessmgmt/configure
```

#### Description

All remote appliances and IPAM and DR appliances will be set up and configured according to the vault type selected by the user.

Below example shows sample request JSON:

```
{ "vaultType": "Native", "vaultServerHost": "10.1.2.3", "vaultServerPort": 8200, "useSSL": true, "vaultServerCertPath": "tmp/cert.crt" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Root Access Management Details	<a href="#">Root Access Management Details</a>	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.117.2. Get Vault preferences

GET /rootaccessmgmt/get

### Description

Gets vault preferences for root access management.  
The example listed below shows a sample request URL:  
/rest/rootaccessmgmt/get

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Root Access Management Details</a>

### Consumes

- text/plain

### Produces

- application/json
- application/xml

## 4.117.3. Supported Vault Types

GET /rootaccessmgmt/list\_vault\_types

### Description

Lists the supported vault types for root access management.  
The example listed below shows a sample request URL:  
/rest/rootaccessmgmt/list\_vault\_types

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Vault Type</a> > array

### Consumes

- text/plain

### Produces

- application/json
- application/xml

## 4.118. Router Subnet Service

### 4.118.1. Add Discovery Agent Subnet Elements

POST /router\_subnet/da\_subnet/element/multiadd

### Description

Creates one or more discovery agent subnet elements in TCPWave IPAM.  
Below example shows sample request JSON:  
{ "subnetIp": "1.0.0.2", "commandId": "TDCE\_20220422124", "name": "SubnetElement1", "ip\_address": "10.0.0.0", "subnetMaskLength": 8 }

### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Discovery Agent Subnet Elements List	< <a href="#">Subnet Elements</a> > array	

### Responses

HTTP Code	Description	Schema
500		No Content

### Consumes

- application/json
- application/xml

### 4.118.2. Add Discovered Subnets

POST /router\_subnet/da\_subnet/multiadd

### Description

Creates one or more discovered subnets in TCPWave IPAM.  
Below example shows sample request JSON:  
{ "subnetIp": "1.0.0.2", "commandId": "TDCE\_20220422124", "name": "SubnetElement1", "ip\_address": "10.0.0.0", "subnetMaskLength": 8 }

### Parameters

Type	Name	Description	Schema	Default

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Discovered subnets List	< <a href="#">Subnet</a> > array	

### Responses

HTTP Code	Description	Schema
500		No Content

### Consumes

- application/json
- application/xml

### 4.118.3. Element Details

```
GET /router_subnet/elementpage
```

### Description

Lists all the elements discovered for the selected router in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/router_subnet/elementpage?start=1&length=20&router_ip=20.0.0.3&cmdId=TDCE_20220422123
```

### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command Id	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>router_ip</b> <i>required</i>	Router IPAddress	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Router Element Range	integer(int32)	

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListRouterElement Details</a>

### Consumes

- text/plain

### Produces

- application/json
- application/xml

### 4.118.4. Discovered Subnet elements List

```
GET /router_subnet/getda_subnetelements
```

### Description

Fetches the list of discovered subnet elements list.

The example listed below shows a sample request URL:

```
/rest/router_subnet/getsubnet_elements?device_ip=10.0.0.3&address=10.1.10.1&mask=24&cmdId=TDCE_20220422123
```

### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Subnet IPAddress	string	
Query	<b>cmdId</b> <i>required</i>	Command ID	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	

Type	Name	Description	Schema	Default
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Router Element Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSubnetElements</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.118.5. Discovered Subnet elements List

```
GET /router_subnet/getsubnet_elements
```

#### Description

Fetches the list of discovered subnet elements list.

The example listed below shows a sample request URL:

```
/rest/router_subnet/getsubnet_elements?device_ip=10.0.0.3&subnet_ip=10.1.10.1&mask=24&cmdId=TDCE_20220422231
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command ID	string	
Query	<b>device_ip</b> <i>required</i>	Router IPAddress	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>mask</b> <i>required</i>	Subnet Mask	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Router Element Range	integer(int32)	
Query	<b>subnet_ip</b> <i>required</i>	Subnet IPAddress	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListRouterSubnetElement</a>

#### Consumes

- text/plain

#### Produces

- application/json

- application/xml

#### 4.118.6. Subnet Details

GET /router\_subnet/getsubnets

##### Description

Lists all the subnets discovered for the selected router in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/router\_subnet/getsubnets?start=1&length=20&router\_ip=20.0.0.3&cmdId=TDCE\_20220422123

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command ID	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>router_ip</b> <i>required</i>	Router IPAddress	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Router Element Range	integer(int32)	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListRouterSubnet</a>

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.118.7. Interfaces List

GET /router\_subnet/interfaces

##### Description

Obtains a list of interfaces discovered by Router in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/router\_subnet/getinterfaces?router\_ip=1.1.1.0&cmdId=TDCE\_20220422123

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command ID	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>router_ip</b> <i>required</i>	Router IPAddress	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	



Type	Name	Description	Schema	Default
Query	<b>start</b> <i>required</i>	Starting Router Element Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListRouterInterface</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.118.8. Interfaces List

```
GET /router_subnet/neighbours
```

#### Description

Obtains a list of interfaces discovered by Router in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/router_subnet/neighbours?router_ip=1.1.1.0&cmdId=TDCE_20220422123
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command ID	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>router_ip</b> <i>required</i>	Router IPAddress	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Router Element Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListRouterNeighbor</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.118.9. Add Subnet

```
POST /router_subnet/network-subnet/add
```

#### Description

Creates new Subnet in TCPWave IPAM.

Below example shows sample request JSON:

```
[+ "{ \"addr1\":10,\"addr2\":0,\"addr3\":0,\"addr4\":0,\"mask_length\":24,\"
+ \"name\":\"Demo Subnet 1\", \"routerAddress\":\"10.0.0.1\",
+ \"organization_name\":\"QAOrg\", \"
+ \"network_address\":\"10.0.0.0\", \"primary_domain\":\"qa.com\"}"]
```

#### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Network and Subnet creation	<a href="#">Subnet Information</a>	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.118.10. Router Details

```
GET /router_subnet/rmap
```

#### Description

Gets the map details for a switch discovered in the TCPWave IPAM.  
The example listed below shows a sample request URL:  
`/rest/files/upload/{file_name}?commandId=TDC_20220422121&isNeighbor=1`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>commandId</b> <i>required</i>	Command ID	string	
Query	<b>isNeighbor</b> <i>required</i>	Neighbour View	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DiscoveryMap</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.118.11. Router Configurations

```
GET /router_subnet/router-configurations
```

#### Description

Obtains router configurations discovered by TCPWave IPAM.  
The example listed below shows a sample request URL:  
`/rest/router_subnet/router-configurations?router_ip=1.1.1.0&cmdId=TDCE_202220422123`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command ID	string	
Query	<b>router_ip</b> <i>required</i>	Router IPAddress	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.118.12. Add Routers

```
POST /router_subnet/router/multiadd
```

#### Description

Creates multiple new routers in TCPWave IPAM.  
Below example shows sample request JSON:

```
["ip":"1.0.0.2","sys_uptime":"2022-04-22 10:29:24","mac":"00:00:5e:00:53:af","commandId":"TDCE_2022042112","vendor":"CISCO","platform":"IOS","version":"5"]
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Routers List	< <a href="#">Router</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.118.13. Router Details

```
GET /router_subnet/routerdetails
```

#### Description

Gets the Router details for a switch discovered in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/router_subnet/routerdetails?router_ip=10.0.0.3&cmdId=TDCE_20220422123
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command ID	string	
Query	<b>router_ip</b> <i>required</i>	Router IP	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Router</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.118.14. Add Router Elements

```
POST /router_subnet/routerelement/multiadd
```

#### Description

Creates one or more router elements in TCPWave IPAM.

Below example shows sample request JSON:

```
[{"routerIP":"1.0.0.2","interfaceName":"loopback0","macAddress":"2C:54:91:88:C9:E3","description":"Router Element","ipAddress":"10.1.10.120","commandId":"TDCE_20220221021"}]
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Router Elements List	< <a href="#">Router Element Details</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.118.15. Add Router Interfaces

```
POST /router_subnet/routerinterface/multiadd
```

#### Description

Creates multiple new router Interfaces in TCPWave IPAM.

Below example shows sample request JSON:

```
[{"routerIp":"1.0.0.2","interfaceIp":"10.0.0.15","commandId":"TDCE_20220422124","interfaceName":"f0/0.82","ipVersion":5}]
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Router Interfaces List	< <a href="#">Router Interface</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.118.16. Add Router Neighbors

```
POST /router_subnet/routerneighbor/multiadd
```

#### Description

Creates multiple new router Neighbors in TCPWave IPAM.

Below example shows sample request JSON:

```
[{"routerIp":"1.0.0.2","neighbor_interface":"loopback01","commandId":"TDC_20220422124","local_interface":"f0/0.82","ipVersion":5,"system_description":"Neighbor Router"}]
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Router Neighbors List	< <a href="#">Router Neighbor</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.118.17. Add Router Subnets

```
POST /router_subnet/routersubnet/multiadd
```

#### Description

Creates one or more router subnets in TCPWave IPAM.

Below example shows sample request JSON:

```
[{"routerIP":"1.0.0.2","interfaceName":"loopback0","subnetIP":"1.0.0.0","subnetMask":"255.255.255.0","subnetMaskLength":"24","nextHop":"","isVrf":"false","isL"}]
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Router Subnets List	< <a href="#">Router Subnet</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.118.18. Add Router and Switch

```
POST /router_subnet/routerswitch/multiadd
```

#### Description

Creates multiple discovered Routers and Switches in TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/files/upload/{file_name}?commandId=TDC_20220422121&routerIp=10.0.0.25&switchIp=10.0.0.15
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Routers and switches List	< <a href="#">Router Switch</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.118.19. Add Router VRFs

```
POST /router_subnet/routervrf/multiadd
```

#### Description

Creates one or more router VRFs in TCPWave IPAM.

Below example shows sample request JSON:

```
[{"routerIp":"1.0.0.2","name":"VRF","route_distinguisher":"10.1.10.15","vrf_interface":"f0/0.82"}]
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Router VRFs List	< <a href="#">VRF</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.118.20. Add Router Subnet elements

```
POST /router_subnet/subnetelement/multiadd
```

#### Description

Creates one or more router subnet elements in TCPWave IPAM.

Below example shows sample request JSON:

```
[{"routerIp":"1.0.0.2","name":"subnetElement1","commandId":"TDCE_20220422124","vendor":"CISCO","ip_address":"10.0.0.0","domainName":"tcp.com","organizationName":"Test","maskLength":8}]
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Router Subnets List	< <a href="#">RouterSubnetElement</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.118.21. Switch Configurations

```
GET /router_subnet/switch-configurations
```

#### Description

Obtains switch configurations discovered by TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/router_subnet/switch-configurations?router_ip=1.1.1.0&cmdId=TDCE_20220422123
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command ID	string	
Query	<b>switch_ip</b> <i>required</i>	Switch IPAddress	string	

#### Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.118.22. Add Switches

```
POST /router_subnet/switch/multiadd
```

#### Description

Creates one or more switches in TCPWave IPAM.

Below example shows sample request JSON:

```
{["ipAddress":"1.0.0.2","sysName":"TCPWaveSwitch","commandId":"TDCE_20220422124","sysLocation":"USA","neighborIp":"10.1.10.15","sysDesc":"Switch","vendor":"CISCO","platform":"IOS","version":"5"]}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Switch List	< <a href="#">Switch Details</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.118.23. Add Switch Ports

```
POST /router_subnet/switch/vlansubnetelement/multiadd
```

#### Description

Creates one or more switch vlan elements in TCPWave IPAM.

Below example shows sample request JSON:

```
{["subnetIP":"1.0.0.2","switchIP":"10.1.10.25","macAddress":"2C:54:91:88:C9:E3","description":"Switch VLAN Subnet","ipAddress":"10.1.10.120","commandId":"TDCE_20220221021"]}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Switch VLAN Subnet Element List	< <a href="#">Switch VLAN Subnet Element Details</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.118.24. Switch Neighbors List

```
GET /router_subnet/switch_neighbours
```

#### Description

Obtains a list of switch neighbors discovered by Switch in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/router_subnet/neighbors?router_ip=1.1.1.0&cmdId=TDCE_20220422123
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command ID	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	

Type	Name	Description	Schema	Default
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Router Element Range	integer(int32)	
Query	<b>switch_ip</b> <i>required</i>	Switch IPAddress	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSwitchNeighbor</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.118.25. Add Switch Ports

```
POST /router_subnet/switchelement/multiadd
```

#### Description

Creates multiple new switch ports in TCPWave IPAM.

Below example shows sample request JSON:

```
[{"switchIP":"1.0.0.2","vlanName":"VLAN","commandId":"TDCE_20220422124","portName":"Port12","ipAddress":"10.0.0.15"}]
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Switch Element List	< <a href="#">Switch Element Details</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.118.26. Add Switch Neighbors

```
POST /router_subnet/switchneighbor/multiadd
```

#### Description

Creates multiple new Switch Neighbors in TCPWave IPAM.

Below example shows sample request JSON:

```
[{"switch_ip":"1.0.0.2","neighbor_interface":"loopback01","commandId":"TDCE_20220422124","local_interface":"f0/0.82","management_ip":"10.1.10.15","system_description":"Neighbor Router"}]
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Switch Neighbors List	< <a href="#">Switch Neighbor</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.118.27. Add Switch Ports

```
POST /router_subnet/switchport/multiadd
```

##### Description

Creates one or more switch ports in TCPWave IPAM.

Below example shows sample request JSON:

```
{["switchIP":"1.0.0.2","vlan":"VLAN","commandId":"TDCE_20220422124","name":"Port12"]}
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Switch Port List	< <a href="#">Port Details</a> > array	

##### Responses

HTTP Code	Description	Schema
500		No Content

##### Consumes

- application/json
- application/xml

#### 4.118.28. Add Switch Vlans

```
POST /router_subnet/switchvlan/multiadd
```

##### Description

Creates one or more switch vlans in TCPWave IPAM.

Below example shows sample request JSON:

```
{["switchIP":"1.0.0.2","name":"VLAN","commandId":"TDCE_20220422124","status":"up"]}
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Switch Vlan List	< <a href="#">Vlan Details</a> > array	

##### Responses

HTTP Code	Description	Schema
500		No Content

##### Consumes

- application/json
- application/xml

#### 4.118.29. Upload File

```
POST /router_subnet/upload/{file_name}
```

##### Description

Uploads a new File from specified location into TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/files/upload/{file_name}?commandId=TDC_20220422121&deviceIp=10.0.0.25&deviceType=Router
```

##### Parameters

Type	Name	Description	Schema	Default
Path	<b>file_name</b> <i>required</i>	File Name	string	
Query	<b>agentIp</b> <i>required</i>	Agent IP	string	
Query	<b>commandId</b> <i>required</i>	Command ID	string	
Query	<b>deviceIp</b> <i>required</i>	Device IP	string	
Query	<b>deviceType</b> <i>required</i>	Device Type	string	
Body	<b>body</b> <i>optional</i>		string	

##### Responses

HTTP Code	Description	Schema
500	TIMS-8228: The file type is not valid.	No Content



#### Consumes

- text/plain

#### 4.118.30. Add Switch Vlan Subnets

```
POST /router_subnet/vlansubnets/multiadd
```

#### Description

Creates multiple new switch vlan subnets in TCPWave IPAM.

Below example shows sample request JSON:

```
{{"switchIp":"1.0.0.2","commandId":"TDCE_20220422124","vlanName":"VLAN", "subnetIP":"10.0.0.0", "domain_name":"tcp.com", "organization_name":"Test", "subnetMaskLength":8}}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Switch vlan subnets List	< <a href="#">Vlan Subnet Details</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### 4.118.31. VRFs List

```
GET /router_subnet/vrfs
```

#### Description

Obtains a list of vrfs discovered by Router in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/router_subnet/neighbors?router_ip=1.1.1.0&cmdId=TDCE_20220422123
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command ID	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>router_ip</b> <i>required</i>	Router IPAddress	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Router Element Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListVRF</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.119. SLB Advanced RuleSet Service

#### 4.119.1. SLB ACL Element add

```
POST /adcRuleset/aclElement/add
```

#### Description

Creates SLB ACL Element in TCPWave IPAM.

Below example shows sample request JSON:

```
{ "rule": "Advanced_Rule", "optionType": "deny", "type": "request", "value": "", "isAndOperator": "No", "description": "", "organization_name": "Internal", "created_by": "22321", "updated_by": "22321", "created_time": "1674776166000", "updated_time": "1674776202000", "organization_name": "Internal", "isAndOperator": "No", "description": "" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">GSLBRRRRule</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### 4.119.2. Delete SLB Front-End bind properties

```
POST /adcRuleset/aclElement/delete
```

#### Description

Checks the SLB Front-End bind properties by performing referential integrity checks and deletes the templates that are not associated with any SLB appliance.

Below example shows sample request JSON:

```
{ "id": "35", "rule": "Advanced_Rule", "type": "response", "optionType": "deny", "value": "", "description": "", "created_by_login_name": "twcadm", "created_time_string": "2023-01-26-2023", "updated_by_login_name": "twcadm", "updated_time_string": "23:36:42 01-26-2023", "created_by": "22321", "updated_by": "22321", "created_time": "1674776166000", "updated_time": "1674776202000", "organization_name": "Internal", "isAndOperator": "No", "description": "" }
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>aclName</b> <i>required</i>	SLB ACL name	string	
Query	<b>organization_name</b> <i>optional</i>	Organization name	string	
Body	<b>body</b> <i>required</i>	List of SLB Advanced Rule details	< <a href="#">GSLBRRRRule</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Cannot find organization: <organization name>, TIMS-7003: You are not authorized to perform this operation, TIMS-5020: Template does not exist: <Template Name>, TIMS-5012: Default template cannot be deleted: <Template Name>, TIMS-5015: Template delete failed as one or more Appliances are using this template, TIMS-5016: Template delete failed as one or more zones are using this template, TIMS-5017: Template delete failed as one or more subnets are using this template, TIMS-5018: Template delete failed as one or more scopes are using this template, TIMS-5019: Template delete failed as one or more DHCP objects are using this template.	No Content

#### Consumes

- application/json
- application/xml

#### 4.119.3. SLB Advanced Rule update

```
POST /adcRuleset/aclElement/edit
```

#### Description

Updates SLB Advanced Rule in TCPWave IPAM.

Below example shows sample request JSON:

```
{ "rule": "Advanced_Rule", "optionType": "deny", "type": "response", "value": "", "isAndOperator": "No", "description": "", "organization_name": "Internal", "updated_by": "22321", "created_by": "22321", "created_time": "1674776166000", "updated_time": "1674776202000", "organization_name": "Internal", "isAndOperator": "No", "description": "" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">GSLBRRRRule</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-4401: SLB Advanced Rule already exists with same name.	No Content

#### Consumes

- application/json

- application/xml

#### Produces

- application/json
- application/xml

#### 4.119.4. SLB Advanced Rules

```
GET /adcRuleset/aclElement/get
```

#### Description

Get the SLB Advanced Rule.

The example listed below shows a sample request URL:

```
/rest/adcRuleset/aclElement/get?name=Test1&organization_name=Internal&rule=Advanced_Rule
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	SLB Advanced Rule	string	
Query	<b>organization_name</b> <i>required</i>	Organization	string	
Query	<b>rule</b> <i>required</i>	SLB ACL element	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">GSLBRRRRule</a>
500	TIMS-4500: SLB Appliance Template does not exist with name:{1} in {2} organization.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.119.5. SLB Advanced Rules paginated list

```
GET /adcRuleset/aclElements/page
```

#### Description

Obtains a list of all the SLB Advanced Rules information defined and managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/adcRuleset/aclElements/page?start=1&length=20&organization_name=Internal&aclName=Test1
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>aclName</b> <i>optional</i>	SLB ACL Name	string	
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organization_name</b> <i>optional</i>	Organization Name	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListGSLBRRRRule</a>

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.119.6. SLB Advanced Ruleset add

POST /adcRuleset/add

#### Description

Creates SLB Advanced Ruleset in TCPWave IPAM.

Below example shows sample request JSON:

```
{ "name": "Test", "description": "", "organization_name": "Internal", "created_by": "22321", "customParameter": "" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">GSLBRRRRule</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### 4.119.7. Delete SLB Front-End bind properties

POST /adcRuleset/delete

#### Description

Checks the SLB Front-End bind properties by performing referential integrity checks and deletes the templates that are not associated with any SLB appliance.

Below example shows sample request JSON:

```
{ "name": "Test1", "organization_name": "Internal" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of SLB Advanced Ruleset details	< <a href="#">GSLBRRRRule</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Cannot find organization: <organization name>, TIMS-7003: You are not authorized to perform this operation, TIMS-5020: Template does not exist: <Template Name>, TIMS-5012: Default template cannot be deleted: <Template Name>, TIMS-5015: Template delete failed as one or more Appliances are using this template, TIMS-5016: Template delete failed as one or more zones are using this template, TIMS-5017: Template delete failed as one or more subnets are using this template, TIMS-5018: Template delete failed as one or more scopes are using this template, TIMS-5019: Template delete failed as one or more DHCP objects are using this template.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.119.8. SLB Advanced Ruleset update

POST /adcRuleset/edit

#### Description

Updates SLB Advanced Ruleset in TCPWave IPAM.

Below example shows sample request JSON:

```
{ "name": "Test1", "description": "", "organization_name": "Internal", "created_by": "22321", "customParameter": "", "old_name": "Test", "updated_by": "22321" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">GSLBRRRRule</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-4401: SLB Advanced Ruleset already exists with same name.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.119.9. SLB Advanced Ruleset Get

```
GET /adcRuleset/get
```

#### Description

Get the SLB Advanced Ruleset.

The example listed below shows a sample request URL:

```
/rest/adcRuleset/get?name=Test1&organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	SLB Advanced Ruleset	string	
Query	<b>organization_name</b> <i>required</i>	Organization	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">GSLBRRRRule</a>
500	TIMS-4500: SLB Appliance Template does not exist with name:{1} in {2} organization.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.119.10. Zone Scope List

```
GET /adcRuleset/getAssociatedList
```

#### Description

Gets the list of the zone scopes.

The example listed below shows a sample request URL:

```
/rest/adcRuleset/getAssociatedList?name=sampleAmerica&organization_name=Internal&type=request
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Name	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>type</b> <i>required</i>	Association Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">GSLBRRRRule</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.119.11. SLB Advanced Rules List By Organization

```
GET /adcRuleset/listbyorg
```

#### Description

Gets the list of the SLB Advanced Rules.  
The example listed below shows a sample request URL:  
/rest/adcRuleset/listbyorg?organization\_name=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">GSLBRRRRule</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.119.12. SLB Advanced Ruleset paginated list

```
GET /adcRuleset/page
```

#### Description

Obtains a list of all the SLB Advanced Ruleset information defined and managed by the TCPWave IPAM.  
The example listed below shows a sample request URL:  
/rest/adcRuleset/page?start=1&length=20&organizations=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization list	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListGSLBRRRRule</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.119.13. SLB Advanced Ruleset Search

### Description

Searches for a given SLB advanced ruleset in the TCPWave IPAM based on a full text input.

The example listed below shows a sample request URL:

/rest/adcRuleSet/search?start=1&length=20&organizations=Internal

### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>required</i>	Organization List	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting SLB advanced ruleset Range	integer(int32)	

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListGSLBRRRRRule</a>

### Consumes

- text/plain

### Produces

- application/json
- application/xml

## 4.120. SLB Appliance Template Service

### 4.120.1. SLB Appliance Template add

POST /slbApplianceTemplate/add

### Description

Creates SLB Appliance Template in TCPWave IPAM.

Below example shows sample request JSON:

```
{
  "name": "Test",
  "description": "",
  "array_params": [
    {
      "name": "ssl_default_bind_options",
      "value": "TLSv1.0"
    },
    {
      "name": "cpu_map",
      "value": "auto/ 0-63"
    }
  ],
  "organization_name": "Internal",
  "created_by": "22321"
}
```

### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">SLBApplianceTemplate</a>	

### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

### Consumes

- application/json
- application/xml

### Produces

- application/json
- application/xml

### 4.120.2. Delete SLB Appliance Templates

POST /slbApplianceTemplate/delete

### Description

Checks the SLB Appliance Templates by performing referential integrity checks and deletes the templates that are not associated with any SLB appliance.

Below example shows sample request JSON:

```
[{"name": "Test-1", "organization_name": "Internal"}]
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of SLB Appliance templates details	< <a href="#">SLBApplianceTemplate</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Cannot find organization: <organization name>, TIMS-7003: You are not authorized to perform this operation, TIMS-5020: Template does not exist:<Template Name>, TIMS-5012: Default template cannot be deleted: <Template Name>, TIMS-5015: Template delete failed as one or more Appliances are using this template, TIMS-5016: Template delete failed as one or more zones are using this template, TIMS-5017: Template delete failed as one or more subnets are using this template, TIMS-5018: Template delete failed as one or more scopes are using this template, TIMS-5019: Template delete failed as one or more DHCP objects are using this template.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.120.3. SLB Appliance Template update

```
POST /slbApplianceTemplate/edit
```

#### Description

Updates SLB Appliance Template in TCPWave IPAM.

Below example shows sample request JSON:

```
{ "name": "Test-1", "description": "", "array_params": [{"name": "ssl_default_bind_options", "value": "TLSv1.0"}, {"name": "cpu_map", "value": "auto/ 0-63"}], "organization_name": "Internal", "created_by": "22321", "old_name": "Test" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">SLBApplianceTemplate</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-4401: SLB option template already exists with same name.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.120.4. SLB Appliance Template

```
GET /slbApplianceTemplate/get
```

#### Description

Get the SLB Appliance Template.

The example listed below shows a sample request URL:

```
/rest/slbApplianceTemplate/get?start=1&length=20&organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	SLB Appliance Template	string	
Query	<b>organization_name</b> <i>required</i>	Organization	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">SLBApplianceTemplate</a>
500	TIMS-4500: SLB Appliance Template does not exist with name:{1} in {2} organization.	No Content



#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.120.5. SLB Appliance Template paginated list

```
GET /slbApplianceTemplate/page
```

#### Description

Obtains a list of all the SLB Appliance Templates information defined and managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/slbApplianceTemplate/page?start=1&length=20&organizations=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization list	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSLBApplianceTemplate</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.120.6. ADC Template Search

```
GET /slbApplianceTemplate/search
```

#### Description

Searches for a given Template in the TCPWave IPAM based on a full text input.

The example listed below shows a sample request URL:

/rest/slbApplianceTemplate/search?start=1&length=20&organizations=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>required</i>	Organization List	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	

Type	Name	Description	Schema	Default
Query	<b>start</b> <i>required</i>	Starting Template Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSLBApplianceTemplate</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.121. SLB Backend Service

#### 4.121.1. SLB Back-End configuration add

```
POST /slbBackEnd/add
```

#### Description

Creates SLB back-end configuration in TCPWave IPAM.

Below example shows sample request JSON:

```
{ "name": "Test", "organization_name": "Internal", "algorithm_type": "roundrobin", "description": "", "custom_params": "", "load_balance_mode": "2", "isDisabled": false, "enable_cache": false, "total_max_size": "4", "max_age": "240" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">SLBBackEndConfig</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-4401: SLB Back-End configuration exists with same name: south_zone_hosts.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.121.2. Delete SLB Backends

```
POST /slbBackEnd/delete
```

#### Description

Checks the SLB back-end properties by performing referential integrity checks and deletes the config that are not associated with any SLB front-end.

Below example shows sample request JSON:

```
{ "name": "Test1", "organization_name": "Internal" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of SLB back-end configuration details	< <a href="#">SLBBackEndConfig</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-4402: SLB Backend does not exist with name:south_zone_hosts in organization: Internal.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.121.3. SLB back-end configuration update

```
POST /slbBackEnd/edit
```

### Description

Updates SLB back-end configuration defined in TCPWave IPAM.

Below example shows sample request JSON:

```
{ "name": "Test1", "organization_name": "Internal", "algorithm_type": "roundrobin", "description": "", "custom_params": "", "load_balance_mode": "2", "isDisabled": false, "enable_cache": false, "total_max_size": "4", "max_age": "240" }, { "oldName": "Test", "isOldSSLVerifyNone": true }
```

### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">SLBBackEndConfig</a>	

### Responses

HTTP Code	Description	Schema
500	TIMS-4401: SLB back-end already exists with same name:SouthZoneWebApplications	No Content

### Consumes

- application/json
- application/xml

### Produces

- application/json
- application/xml

#### 4.121.4. SLB back-end node add

```
POST /slbBackEnd/node/add
```

### Description

Creates SLB back-end node in TCPWave IPAM.

Below example shows sample request JSON:

```
{ "name": "Test_pool", "port": "443", "weight": "", "description": "", "ipv4Address": "10.0.0.0", "customParams": "", "slb_back_end_config_name": "Test", "organization_name": "Internal", "hc_port": "", "hc_interval": "", "hc_active_checks": "", "hc_failed_checks": "", "isHTTP2": false, "isBackup": false }
```

### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">ADCNodeMember</a>	

### Responses

HTTP Code	Description	Schema
500	TIMS-4401: SLB back-end node already exists with same IP address: 10.1.10.20	No Content

### Consumes

- application/json
- application/xml

### Produces

- application/json
- application/xml

#### 4.121.5. Delete SLB Backends

```
POST /slbBackEnd/node/delete
```

### Description

SLB Backend does not exist with name:option Temp in the organization: Internal

Below example shows sample request JSON:

```
{ "name": "Test", "organization_name": "Internal", "slbBackEndNodes": [{"ipv4Address": "10.0.0.0", "port": "443"}] }
```

### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of DHCP templates details	<a href="#">SLBBackEndConfig</a>	

### Responses

HTTP Code	Description	Schema
500	TIMS-4402: SLB Back-End does not exist with name:south_zone_hosts in organization: Internal, TIMS-7003: You are not authorized to perform this operation	No Content

### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.121.6. SLB Backend add

```
POST /slbBackEnd/node/edit
```

#### Description

Updates SLB back-end node in TCPWave IPAM.

Below example shows sample request JSON:

```
{ "name": "Test_pool1", "port": "443", "weight": "", "description": "", "ipv4Address": "10.0.0.0", "customParams": "", "slb_back_end_config_name": "Test", "organization_name": "Internal", "hc_port": "", "hc_interval": "", "hc_active_checks": "", "hc_failed_checks": "", "isHTTP2": false, "isBackup": false, "prevPort": "443", "prevIPaddress": "10.0.0.0" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		<a href="#">ADCNodeMember</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-4401: SLB back-end node already exists with same IP address: 10.1.10.20	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.121.7. SLB back-end details

```
GET /slbBackEnd/node/get
```

#### Description

Get the SLB back-end details.

The example listed below shows a sample request URL:

```
/rest/slbBackEnd/node/get?backendName=backend1&organizationName=Internal&port=22&ipAddress=1.1.1.1
```

#### Parameters

Type	Name	Description	Schema	Default
Query	backendName <i>required</i>	Back-End Name	string	
Query	ipAddress <i>required</i>	IPv4 Address	string	
Query	organizationName <i>required</i>	Organization Name	string	
Query	port <i>required</i>	port	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">ADCNodeMember</a>
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.121.8. SLB back-end nodes paginated list

```
GET /slbBackEnd/node/page
```

#### Description

Obtains a list of all the SLB back-end node list information defined and managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/slbBackEnd/node/page?start=1&length=20&slbBackEndName=Test&organizationName=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizationName</b> <i>optional</i>	Organization Name	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>slbBackEndName</b> <i>optional</i>	SLB Back-end name	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListADCNodeMember</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.121.9. SLB back-end config paginated list

```
GET /slbBackEnd/page
```

#### Description

Obtains a list of all the SLB back-end config information defined and managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/slbBackEnd/page?start=1&length=20&orgString=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>orgString</b> <i>optional</i>	Organization list	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSLBBackEndConfig</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.121.10. ADC Back End Configuration Search

```
GET /slbBackEnd/search
```

#### Description

Searches for a given Back End Configuration in the TCPWave IPAM based on a full text input.

The example listed below shows a sample request URL:

```
/rest/slbBackEnd/search?start=1&length=20&organizations=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>required</i>	Organization List	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting ADC Back End Configuration Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSLBBackEndConfig</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.122. SLB Frontend Service

#### 4.122.1. SLB front-end properties add

```
POST /slbFrontEnd/add
```

#### Description

Creates SLB front-end properties in TCPWave IPAM.

Below example shows sample request JSON:

```
{ "organization_id": "1690", "name": "Test", "is_disabled": 1, "maintenance": false, "template": "GSLBOptionTemplate", "defaultBackEndName": null, "rate_limit": "", "max_age": 240, "enable_cache": false, "total_max_size": 4, "max_age": 240, "useDefaultBackEnd": false, "organization_name": "Internal" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">SLBFrontEndBasicProperties</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.122.2. SLB Back-end association add

```
POST /slbFrontEnd/backend/add
```

#### Description

Creates SLB Back-end association in TCPWave IPAM.

Below example shows sample request JSON:

```
{"backEndName":"Backend2","description":"","created_by":"22321","organization_name":"Internal","aclAssociation":"ACLRule","isAndOperator":0,"frontEndName":"Test-1"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		<a href="#">SLBBackEndAssociation</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.122.3. Delete SLB Back-end association

```
POST /slbFrontEnd/backend/delete
```

#### Description

Checks the SLB Back-end association by performing referential integrity checks and deletes the Back-end association that are not associated with any SLB appliance.

Below example shows sample request JSON:

```
{"backEndName":"Backend","description":"","organization_name":"Internal","frontEndName":"Test-1"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>required</i>	List of SLB Back-end association details	< <a href="#">SLBBackEndAssociation</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Cannot find organization: <organization name>, TIMS-7003: You are not authorized to perform this operation, TIMS-5020: Template does not exist:<Template Name>, TIMS-5012: Default template cannot be deleted: <Template Name>, TIMS-5015: Template delete failed as one or more Appliances are using this template, TIMS-5016: Template delete failed as one or more zones are using this template, TIMS-5017: Template delete failed as one or more subnets are using this template, TIMS-5018: Template delete failed as one or more scopes are using this template, TIMS-5019: Template delete failed as one or more DHCP objects are using this template.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.122.4. SLB Back-end association update

```
POST /slbFrontEnd/backend/edit
```

#### Description

Updates SLB Back-end association in TCPWave IPAM.

Below example shows sample request JSON:

```
{"backEndName":"Backend","description":"","created_by":"22321","organization_name":"Internal","aclAssociation":"ACLRule","isAndOperator":0,"frontEndName":"Test-1","oldBackEndName":"Backend2"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		<a href="#">SLBBackEndAssociation</a>	

#### Responses

HTTP Code	Description	Schema
-----------	-------------	--------

HTTP Code	Description	Schema
500	TIMS-4401: SLB Back-end association already exists with same name.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.122.5. SLB Redirect rules

```
GET /slbFrontEnd/backend/get
```

#### Description

Get the SLB Redirect rules.

The example listed below shows a sample request URL:

```
/rest/slbFrontEnd/backend/get?front_end_name=Test&back_end_name=Backend&organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>back_end_name</b> <i>required</i>	SLB Back End Name	string	
Query	<b>front_end_name</b> <i>required</i>	SLB Front End Name	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">SLBBackEndAssociation</a>
500	TIMS-4500: SLB Appliance Template does not exist with name:{1} in {2} organization.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.122.6. SLB Back-End association paginated list

```
GET /slbFrontEnd/backend/page
```

#### Description

Obtains a list of all the SLB Back-End association information defined and managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/slbFrontEnd/backend/page?front_name=Test&organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>front_name</b> <i>required</i>	Front-End Name	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organization_name</b> <i>optional</i>	Organization Name	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Range	integer(int32)	



## Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSLBBackendAssociation</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

## Consumes

- text/plain

## Produces

- application/json
- application/xml

### 4.122.7. SLB front-end Bind properties add

```
POST /slbFrontEnd/bind/add
```

## Description

Creates SLB front-end Bind properties in TCPWave IPAM.

Below example shows sample request JSON:

```
{ "name": "Load00002Balancer", "ssl_file_name": "", "description": "", "ports": "443", "ip_address": "10.1.8.3", "front_end_name": "Test-1", "organization_name": "Internal", "zone_name": "satya.com", "publishToDNS": false, "publishToBGP": false }
```

## Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">SLBBindProperties</a>	

## Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

## Consumes

- application/json
- application/xml

## Produces

- application/json
- application/xml

### 4.122.8. Delete SLB Front-End bind properties

```
POST /slbFrontEnd/bind/delete
```

## Description

Checks the SLB Front-End bind properties by performing referential integrity checks and deletes the templates that are not associated with any SLB appliance.

Below example shows sample request JSON:

```
{ "id": "21", "name": "Load00002Balancer", "ports": "443", "ssl_file_name": "", "ssl_file_content": null, "description": "", "front_end_name": "Test-1", "organization_id": "1690", "organization_name": "Internal", "created_by_login_name": "twcadm", "created_time_string": "21:02:03 01-26-2023", "updated_by_login_name": "twcadm", "updated_time_string": "21:03:04 01-26-2023", "created_by": "22321", "updated_by": "22321", "created_time": "1674766923000", "updated_time": "1674766984000", "ip_address": "10.1.8.3", "zone_name": "satya.com" }
```

## Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Delete a SLB Front-End bind properties details	< <a href="#">SLBBindProperties</a> > array	

## Responses

HTTP Code	Description	Schema
500	TIMS-1352: Cannot find organization: <organization name>, TIMS-7003: You are not authorized to perform this operation, TIMS-5020: Template does not exist:<Template Name>, TIMS-5012: Default template cannot be deleted: <Template Name>, TIMS-5015: Template delete failed as one or more Appliances are using this template, TIMS-5016: Template delete failed as one or more zones are using this template, TIMS-5017: Template delete failed as one or more subnets are using this template, TIMS-5018: Template delete failed as one or more scopes are using this template, TIMS-5019: Template delete failed as one or more DHCP objects are using this template.	No Content

## Consumes

- application/json
- application/xml

## Produces

- application/json

- application/xml

#### 4.122.9. SLB Front-End Bind Properties update

POST /slbFrontEnd/bind/edit

##### Description

Updates SLB Front-End Bind properties in TCPWave IPAM.

Below example shows sample request JSON:

```
{ "name": "Load00002Balancer", "ssl_file_name": "", "description": "", "ports": "443", "ip_address": "10.1.8.3", "front_end_name": "Test-1", "organization_name": "Internal", "zone_name": "satya.com", "old_ip_address": "10.1.8.3", "old_name": "Load00002Balancer", "old_zone_name": "satya.com", "old_ssl_file_name": "" }
```

##### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		<a href="#">SLBBindProperties</a>	

##### Responses

HTTP Code	Description	Schema
500	TIMS-4401: SLB Front-End properties already exists with same name.	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml

#### 4.122.10. SLB Front-End Properties

GET /slbFrontEnd/bind/get

##### Description

Get the SLB Front-End properties.

The example listed below shows a sample request URL:

```
/rest/slbFrontEnd/bind/get?name=Test&ip_address=10.1.8.3&organization_name=Internal&port_number=443
```

##### Parameters

Type	Name	Description	Schema	Default
Query	ip_address <i>required</i>	Bind IP address	string	
Query	name <i>required</i>	SLB Bind Properties	string	
Query	organization_name <i>required</i>	Organization	string	
Query	port_number <i>required</i>	Bind port number	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">SLBBindProperties</a>
500	TIMS-4500: SLB Appliance Template does not exist with name:{1} in {2} organization.	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml

#### 4.122.11. SLB front-end Bind properties paginated list

GET /slbFrontEnd/bind/page

##### Description

Obtains a list of all the SLB front-end Bind properties information defined and managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/slbFrontEnd/bind/page?start=1&length=20&organization_name=Internal
```

##### Parameters

Type	Name	Description	Schema	Default

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>front_name</b> <i>required</i>	Front-End Name	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organization_name</b> <i>optional</i>	Organization Name	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSLBBindProperties</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.122.12. Delete SLB Front-End properties

```
POST /slbFrontEnd/delete
```

#### Description

Checks the SLB Front-End properties by performing referential integrity checks and deletes the templates that are not associated with any SLB appliance.

Below example shows sample request JSON:

```
{name: "Test-1", organization_name: "Internal"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of SLB Front-End properties details	< <a href="#">SLBFrontEndBasicProperties</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Cannot find organization: <organization name>, TIMS-7003: You are not authorized to perform this operation, TIMS-5020: Template does not exist:<Template Name>, TIMS-5012: Default template cannot be deleted: <Template Name>, TIMS-5015: Template delete failed as one or more Appliances are using this template, TIMS-5016: Template delete failed as one or more zones are using this template, TIMS-5017: Template delete failed as one or more subnets are using this template, TIMS-5018: Template delete failed as one or more scopes are using this template, TIMS-5019: Template delete failed as one or more DHCP objects are using this template.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.122.13. SLB Front-End Properties update

```
POST /slbFrontEnd/edit
```

#### Description

Updates SLB Front-End properties in TCPWave IPAM.

Below example shows sample request JSON:

```
{ "organization_id": null, "name": "Test-1", "is_disabled": 1, "maintenance": false, "template": "GSLBOptionTemplate", "defaultBackEndName": null, "rate_limit": "0", "maximum_connections": "0", "enableCom": { "enable_cache": false, "total_max_size": "4", "max_age": "240" }, "useDefaultBackEnd": false, "organization_name": "Internal", "old_name": "Test" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">SLBFrontEndBasicProperties</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-4401: SLB Front-End properties already exists with same name.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.122.14. SLB Front-End Properties

```
GET /slbFrontEnd/get
```

#### Description

Get the SLB Front-End properties.

Below example shows a sample request URL:

```
/rest/slbFrontEnd/get?name=Test-1&organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	SLB Front-End Properties	string	
Query	<b>organization_name</b> <i>required</i>	Organization	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">SLBFrontEndBasicProperties</a>
500	TIMS-4500: SLB Appliance Template does not exist with name:{1} in {2} organization.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.122.15. SLB Redirect rules

```
GET /slbFrontEnd/getFrontendRef/appliances
```

#### Description

Get the SLB Redirect rules.

The example listed below shows a sample request URL:

```
/rest/slbFrontEnd/getFrontendRef/appliances?organization_name=Internal&front_end_name=SLBFrontendName
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>front_end_name</b> <i>required</i>	SLB Front End Name	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< SLBAppliance > array

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.122.16. SLB SSL File Properties

```
GET /slbFrontEnd/getfiledata
```

#### Description

Get the SSL File properties.

The example listed below shows a sample request URL:

```
/rest/slbFrontEnd/bind/getfiledata?frontend_name=Test&frontend_memberIP=10.1.8.3&organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>frontend_memberIP</b> <i>required</i>	SLB Front-End Member IP	string	
Query	<b>frontend_member_port</b> <i>required</i>	SLB Front-End Member Port	string	
Query	<b>frontend_name</b> <i>required</i>	SLB Front-End Name	string	
Query	<b>frontend_ssl_file</b> <i>required</i>	SLB Front-End SSL File	string	
Query	<b>organization_name</b> <i>required</i>	Organization	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-4500: SLB Appliance Template does not exist with name:{1} in {2} organization.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.122.17. SLB front-end properties paginated list

```
GET /slbFrontEnd/page
```

#### Description

Obtains a list of all the SLB front-end properties information defined and managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/slbFrontEnd/page?start=1&length=20&organizations=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization list	string	
Query	<b>q</b> <i>optional</i>	Search String	string	

Type	Name	Description	Schema	Default
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSLBFrontEndBasicProperties</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

### 4.122.18. ADC Front End Configuration Search

```
GET /slbFrontEnd/search
```

#### Description

Searches for a given Front End Configuration in the TCPWave IPAM based on a full text input.

The example listed below shows a sample request URL:

```
/rest/slbFrontEnd/search?start=1&length=20&organizations=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>required</i>	Organization List	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting ADC Front End Configuration Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSLBFrontEndBasicProperties</a>

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

### 4.123. SLB Option Template Service

#### 4.123.1. SLB Option Template add

```
POST /slbOptionTemplate/add
```

#### Description

Creates SLB Default Template in TCPWave IPAM.

Below example shows sample request JSON:

```
{
  "name": "Test",
  "description": "",
  "array_params": [
    {
      "name": "retries",
      "value": "3"
    },
    {
      "name": "disable_on_404",
      "value": "false"
    }
  ],
  "organization_name": "Internal",
  "created_by": "22321"
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Server Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3914: SLB option template already exists with same name.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.123.2. Delete SLB Option Templates

```
POST /slbOptionTemplate/delete
```

#### Description

SLB option template does not exist with name:option Temp in the organization: Internal

Below example shows sample request JSON:

```
[{"name":"Test-1","organization_name":"Internal"}]
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of DHCP templates details	< <a href="#">Server Information</a> > array	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Template References Information</a> > array
500	TIMS-1352: Cannot find organization: <organization name>, TIMS-7003: You are not authorized to perform this operation, TIMS-4400: SLB option template does not exist with name:Option in organization: Internal.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.123.3. SLB Option Template update

```
POST /slbOptionTemplate/edit
```

#### Description

Updates SLB Option Template in TCPWave IPAM.

Below example shows sample request JSON:

```
{"name":"Test-1","description":"Testing","array_params":[{"name":"retries","value":"3"}, {"name":"disable_on_404","value":false}, {"name":"customParmaters","value":"maxConnection 450\nminConnection 20"}],"organization_name":"Internal","created_by":"22321","oldName":"Test"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Server Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-4401: SLB option template already exists with same name.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.123.4. SLB Option Template

```
GET /slbOptionTemplate/get
```

#### Description

Get the SLB Option Template.

The example listed below shows a sample request URL:

/rest/slbOptionTemplate/get?organization\_name=Internal&name=Test

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	SLB Option Template	string	
Query	<b>organization_name</b> <i>required</i>	Organization	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Server Information</a>
500	TIMS-4402: SLB Option Template does not exist.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.123.5. SLB Option Template paginated list

```
GET /slbOptionTemplate/page
```

#### Description

Obtains a list of all the SLB Option Templates information defined and managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/slbOptionTemplate/page?start=1&length=20&orgString=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>orgString</b> <i>optional</i>	Organization list	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListServer Information</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.124. SLB Response Page Service

##### 4.124.1. SLB Response Page paginated list

```
GET /slbResponse/page
```

#### Description



Obtains a list of all the SLB Response Page page information defined and managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/slbResponse/page?start=1&length=20&organizations=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization list	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSLBResponsePage</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain
- application/json

#### Produces

- text/plain
- application/json

## 4.125. SLB Traffic Control Rule Service

### 4.125.1. SLB ACL Element add

```
POST /slbAclRule/aclElement/add
```

#### Description

Creates SLB ACL Element in TCPWave IPAM.

Below example shows sample request JSON:

```
"rule": "ACL_RULE", "fetchType": "path", "methodType": "str", "value": "/tims", "organization_name": "Internal", "is_case_sensitive": "No", "description": "", "created_by":
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">SLBAclRule</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

### 4.125.2. Delete SLB Front-End bind properties

```
POST /slbAclRule/aclElement/delete
```

#### Description

Checks the SLB Front-End bind properties by performing referential integrity checks and deletes the templates that are not associated with any SLB appliance.

Below example shows sample request JSON:

```
{["id":18,"rule":"ACL_RULE","name":null,"fetchType":"path","methodType":"str","headerType":"host","is_case_sensitive":"No","value":"/rest","description":"","cre01-26-2023","updated_by_login_name":"twcadm","updated_time_string":"22:47:23 01-26-2023","created_by":"22321","updated_by":"22321","created_time":1674773167000,"updated_time":1674773243000,"organization_name":"Internal","rule_count":null[],"fileName":"/rest","organization_id":1690]}
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>aclName</b> <i>required</i>	SLB ACL name	string	
Query	<b>organization_name</b> <i>optional</i>	Organization name	string	
Body	<b>body</b> <i>required</i>	List of SLB traffic control rule details	< <a href="#">SLBAclRule</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Cannot find organization: <organization name>, TIMS-7003: You are not authorized to perform this operation, TIMS-5020: Template does not exist:<Template Name>, TIMS-5012: Default template cannot be deleted: <Template Name>, TIMS-5015: Template delete failed as one or more Appliances are using this template, TIMS-5016: Template delete failed as one or more zones are using this template, TIMS-5017: Template delete failed as one or more subnets are using this template, TIMS-5018: Template delete failed as one or more scopes are using this template, TIMS-5019: Template delete failed as one or more DHCP objects are using this template.	No Content

#### Consumes

- application/json
- application/xml

#### 4.125.3. SLB traffic control rule update

```
POST /slbAclRule/aclElement/edit
```

#### Description

Updates SLB traffic control rule in TCPWave IPAM.

Below example shows sample request JSON:

```
{"rule":"ACL_RULE","fetchType":"path","methodType":"str","value":"/rest","organization_name":"Internal","is_case_sensitive":"No","description":"","updated_by"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">SLBAclRule</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-4401: SLB ACL rule already exists with same name.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.125.4. SLB traffic control rules

```
GET /slbAclRule/aclElement/get
```

#### Description

Get the SLB traffic control rule.

The example listed below shows a sample request URL:

```
/rest/slbAclRule/aclElement/get?name=ACL_RULE&organization_name=Internal&rule=Test1
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	SLB traffic control rule	string	
Query	<b>organization_name</b> <i>required</i>	Organization	string	
Query	<b>rule</b> <i>required</i>	SLB ACL element	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">SLBAclRule</a>

HTTP Code	Description	Schema
500	TIMS-4500: SLB Appliance Template does not exist with name:{1} in {2} organization.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.125.5. SLB traffic control rules paginated list

```
GET /slbAclRule/aclElements/page
```

#### Description

Obtains a list of all the SLB traffic control rules information defined and managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/slbAclRule/aclElements/page?start=1&length=20&organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>aclName</b> <i>optional</i>	SLB ACL Name	string	
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organization_name</b> <i>optional</i>	Organization Name	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSLBAclRule</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.125.6. SLB traffic control rules add

```
POST /slbAclRule/add
```

#### Description

Creates SLB traffic control rules in TCPWave IPAM.

Below example shows sample request JSON:

```
{"name":"Test","description":"","organization_name":"Internal","created_by":"22321","customParameter":""}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">SLBAclRule</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- application/json
- application/xml

#### 4.125.7. Delete SLB Front-End bind properties

```
POST /slbAclRule/delete
```

#### Description

Checks the SLB Front-End bind properties by performing referential integrity checks and deletes the templates that are not associated with any SLB appliance.

Below example shows sample request JSON:

```
{"name":"Test1","organization_name":"Internal"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of SLB traffic control rule details	< <a href="#">SLBAclRule</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Cannot find organization: <organization name>, TIMS-7003: You are not authorized to perform this operation, TIMS-5020: Template does not exist:<Template Name>, TIMS-5012: Default template cannot be deleted: <Template Name>, TIMS-5015: Template delete failed as one or more Appliances are using this template, TIMS-5016: Template delete failed as one or more zones are using this template, TIMS-5017: Template delete failed as one or more subnets are using this template, TIMS-5018: Template delete failed as one or more scopes are using this template, TIMS-5019: Template delete failed as one or more DHCP objects are using this template.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.125.8. SLB traffic control rule update

```
POST /slbAclRule/edit
```

#### Description

Updates SLB traffic control rule in TCPWave IPAM.

Below example shows sample request JSON:

```
{"name":"Test1","description":"","organization_name":"Internal","customParameter":"","old_name":"Test","updated_by":"22321"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">SLBAclRule</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-4401: SLB ACL rule already exists with same name.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.125.9. SLB traffic control rules

```
GET /slbAclRule/get
```

#### Description

Get the SLB traffic control rule.

The example listed below shows a sample request URL:

```
/rest/slbAclRule/get?name=Test1&organizations=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	SLB traffic control rule	string	
Query	<b>organization_name</b> <i>required</i>	Organization	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">SLBAclRule</a>
500	TIMS-4500: SLB Appliance Template does not exist with name:{1} in {2} organization.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.125.10. Zone Scope List

```
GET /slbAclRule/getAssociatedList
```

#### Description

Gets the list of the zone scopes.

The example listed below shows a sample request URL:

```
/rest/slbAclRule/getAssociatedList?name=sampleAmerica&organization_name=Internal&type=SLB
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Name	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>type</b> <i>required</i>	Association Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">SLBAclRule</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.125.11. SLB SSL File Properties

```
GET /slbAclRule/getfiledata
```

#### Description

Get the SSL File properties.

The example listed below shows a sample request URL:

```
/rest/slbACLRule/getfiledata?
```

```
acl_name=Test1&rule_name=ACL_RULE&frontend_ssl_file=test&organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>acl_name</b> <i>required</i>	SLB ACL Name	string	
Query	<b>frontend_ssl_file</b> <i>required</i>	SLB ACL SSL File	string	
Query	<b>organization_name</b> <i>required</i>	Organization	string	
Query	<b>rule_name</b> <i>required</i>	SLB Rule Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-4500: SLB Appliance Template does not exist with name:{1} in {2} organization.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.125.12. SLB ACL Rules List By Organization

```
GET /slbAclRule/listbyorg
```

#### Description

Gets the list of the SLB ACL Rules.

The example listed below shows a sample request URL:

/rest/slbAclRule/listbyorg?organization\_name=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">SLBAclRule</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.125.13. SLB traffic control rules paginated list

```
GET /slbAclRule/page
```

#### Description

Obtains a list of all the SLB traffic control rules information defined and managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/slbAclRule/page?start=1&length=20&organizations=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization list	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSLBAclRule</a>

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.125.14. ADC ACL Rule Search

```
GET /slbAclRule/search
```

#### Description

Searches for a given ADC ACL Rule in the TCPWave IPAM based on a full text input.

The example listed below shows a sample request URL:

```
/rest/slbACLRule/search?start=1&length=20&organizations=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>required</i>	Organization List	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting ADC ACL Rule Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSLBAclRule</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.126. Schedule Handler Service

#### Description

This service provides methods to Schedule an operation based on the settings provided and Execute the operation at the scheduled time.

#### 4.126.1. Schedule Object Job

```
POST /schedhandler/execute
```

#### Description

Schedules an Object job.

Below example shows sample request JSON:

```
"objectjobname"
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		string	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

#### 4.126.2. Schedule an operation

POST /schedhandler/schedule

#### Description

Depending on the repeat parameters setting, some of the optional URL params will be required.

The example listed below shows a sample request URL:

/rest/schedhandler/schedule?repeat=1&frequency=12&runtime=3/18/2019 4:37&starttime=3/18/2019 4:37&endtime=4/18/2019 4:37&day=1&description=test&repeatInterval=23456&repeatCount==2&jobId=20

Below example shows sample request JSON:

```
{ "data": "string", "entity": "zone", "operation": "true", "extensiondata": "string" }
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>day</b> <i>required</i>	Operation Day	integer(int32)	
Query	<b>description</b> <i>required</i>	Operation Description String	string	
Query	<b>endtime</b> <i>required</i>	Operation Endtime	string	
Query	<b>frequency</b> <i>required</i>	Operation Frequency	string	
Query	<b>jobId</b> <i>required</i>	Job Id	string	
Query	<b>repeat</b> <i>required</i>	Operation Occurrence	integer(int32)	
Query	<b>repeatCount</b> <i>required</i>	Operation repeatCount	integer(int32)	
Query	<b>repeatInterval</b> <i>required</i>	Operation repeatInterval	integer(int64)	
Query	<b>runtime</b> <i>required</i>	Operation Runtime	string	
Query	<b>starttime</b> <i>required</i>	Operation Starttime	string	
Body	<b>body</b> <i>optional</i>		<a href="#">Job data for scheduling operation.</a>	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

### 4.127. Scheduled Audit Report Service

#### Description

This class contains information related to all canned reports scheduling. The class includes the schedule email functionality for Daily /weekly /Monthly canned reports.

#### 4.127.1. Scheduled Audit Report List

GET /Scheduledreports/Scheduledreportlist

#### Description

The example listed below shows a sample request URL:

/rest/Scheduledreports/Scheduledreportlist?reportType=1&start=1&length=20

#### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------



Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>reportType</b> <i>required</i>	Type of the report	string	
Query	<b>start</b> <i>required</i>	Starting Report Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListAudit Report Details</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.127.2. Audit Report Delete

POST /Scheduledreports/delete

#### Description

The example listed below shows a sample request URL:  
/rest/Scheduledreports/delete?reportType=1&ids=

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ids</b> <i>required</i>		string	
Query	<b>reportType</b> <i>required</i>		string	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.127.3. Subscribe Audit Report

POST /Scheduledreports/subscribe

#### Description

The example listed below shows a sample request URL:  
/rest/Scheduledreports/subscribe?reportType=1&period=  
Below example shows sample request JSON:

```
[ { "organization_name": "string", "first_name": "string", "last_name": "string", "middle_name": "string", "email_id": "string", "phone_num": "string", "full_name": "string", "old_first_name": "string", "old_last_name": "string", "old_middle_name": "string", "old_email_id": "string", "roles": "string" } ]
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>period</b> <i>required</i>		string	
Query	<b>reportType</b> <i>required</i>		string	

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">Contacts Information</a> > array	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

### 4.128. Scheduled Job Executor Status Service

#### Description

This class implements the REST service calls related to the scheduled jobs status management, such as adding a scheduled jobs execution status or retrieving all the previous execution status of a particular job.

#### 4.128.1. Add Schedule Job Execution Status

```
POST /sched/execstatus/add
```

#### Description

Adds a scheduled job's execution status record to the database.

Below example shows sample request JSON:

```
{ "jobType": "rest", "jobData": "Executed at 15:20 AM", "scheduleType": "Daily", "execution_time": "3/18/2016 3:39", "operation": "Add", "execution_time_string": "3/18/2016 3:39" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Status of the scheduled job	<a href="#">Scheduled job execution status information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-8068: type jobs cannot be executed using this option.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

#### 4.128.2. Get Job Execution status

```
GET /sched/execstatus/after/{exectime}
```

#### Description

Retrieve the execution status of the current scheduled job in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/sched/execstatus/after/125
```

#### Parameters

Type	Name	Description	Schema	Default
Path	<b>exectime</b> <i>required</i>	job execution time	integer(int64)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Scheduled job execution status information</a> > array
500	TIMS-8011: Job Execution Time is null.	No Content

#### Produces

- application/json
- application/xml

#### 4.128.3. Get Scheduled Jobs

```
GET /sched/execstatus/{id}
```

##### Description

Retrieve the list scheduled jobs in the TCPWave IPAM.  
The example listed below shows a sample request URL:  
/rest/sched/execstatus/125?page=1&rows=20

##### Parameters

Type	Name	Description	Schema	Default
Path	<b>id</b> <i>required</i>	Job ID	string	
Query	<b>page</b> <i>required</i>	Page number	integer(int32)	
Query	<b>rows</b> <i>required</i>	Rows per page	integer(int32)	
Query	<b>utcdiff</b> <i>optional</i>	UTC Time Difference	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListScheduledJobExecutionStatusInformation</a>
500	TIMS-8001: JobId is null. TIMS-8007: Job Id is empty.	No Content

##### Produces

- application/json
- application/xml

#### 4.128.4. Delete All Job Execution status

```
DELETE /sched/execstatus/{id}
```

##### Description

Deletes request for all job execution status with jobId in the TCPWave IPAM.  
The example listed below shows a sample request URL:  
/rest/sched/execstatus/after/125

##### Parameters

Type	Name	Description	Schema	Default
Path	<b>id</b> <i>required</i>	job ID	string	

##### Responses

HTTP Code	Description	Schema
500	TIMS-8001: JobId is null. TIMS-8007: Job Id is empty.	No Content

##### Produces

- application/json
- application/xml
- text/plain

### 4.129. Scheduled Job Service

##### Description

This class provides the services related to scheduled jobs such as listing all Scheduled jobs, retrieves a scheduled job, modifying a scheduled job, executing a scheduled job in the TCPWave IPAM.

#### 4.129.1. Schedule Job Add

```
POST /sched/job/add
```

##### Description

Creates a Schedule Job in the TCPWave IPAM. The information about the schedule jobs are maintained in IPAM. Similarly, the execution status of the scheduled jobs will be maintained in IPAM server

Below example shows sample request JSON:

```
{ "jobType": "string", "jobData": "string", "scheduleType": "string", "runDay": 0, "repeatInterval": 0, "repeatCount": 0, "description": "string", "startDate": "3/18/2019 4:37", "endDate": "4/18/2019 4:37", "operation": "Add", "target_instance": "Object", "sysjob": 112, "jobpaused": 0, "startDateString": "3/18/2016 4:50", "endDateString": "3/18/2017 4:50", "runTimeString": "string", "runDayDisplayString": "string", "repeatIntervalString": "string" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Tims Scheduled Job Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-8001: JobId is null, TIMS-8007: Job Id is empty.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

#### 4.129.2. Currently Available Scheduled Tasks List

```
GET /sched/job/displayList
```

#### Description

Shows the list of all currently available Scheduled Jobs in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/sched/job/displayList?utcdiff=330
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>utcdiff</b> <i>required</i>	UTC Time Difference	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Tims Scheduled Job Information</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.129.3. Scheduled Job Edit

```
POST /sched/job/edit
```

#### Description

Update the current scheduled job in the TCPWave IPAM. TCPWave IPAM default scheduled jobs cannot be edited.

Below example shows sample request JSON:

```
{ "jobType": "string", "jobData": "string", "scheduleType": "string", "runDay": 0, "repeatInterval": 0, "repeatCount": 0, "description": "string", "startDate": "3/18/2019 4:37", "endDate": "4/18/2019 4:37", "operation": "Add", "target_instance": "Object", "sysjob": 112, "jobpaused": 0, "startDateString": "3/18/2016 4:50", "endDateString": "3/18/2017 4:50", "runTimeString": "string", "runDayDisplayString": "string", "repeatIntervalString": "string" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Tims Scheduled Job Information</a>	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.129.4. Scheduled Job Execution

POST /sched/job/execute

##### Description

Executes the Scheduled Job based on the time interval defined by the user

Below example shows sample request JSON:

"ExternalDNSZonesGet"

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		string	

##### Responses

HTTP Code	Description	Schema
500	TIMS-8051: JobId does not exist, TIMS-8021: Job handler is not defined.	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml
- text/plain

#### 4.129.5. Execute Scheduled Job Now

POST /sched/job/executeNow

##### Description

Execute the current scheduled job in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/sched/job/executeNow?jid=ExternalDNSZonesGet

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>jid</b> <i>required</i>	job ID	string	

##### Responses

HTTP Code	Description	Schema
500	TIMS-8069: DNS Server name is not specified for the sync operation, TIMS-8051: JobId does not exist, TIMS-8021: Job handler is not defined.	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml
- text/plain

#### 4.129.6. Scheduled Appliance Sync Details

GET /sched/job/getserversyncscheduledetails

##### Description

Gets the details of the appliance scheduled syncs.

The example listed below shows a sample request URL:

/rest/sched/job/getserversyncscheduledetails

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>entity</b> <i>optional</i>		string	
Query	<b>ip</b> <i>optional</i>		string	

##### Responses

HTTP Code	Description	Schema
-----------	-------------	--------

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Tims Scheduled Job Information</a> > array
500	An exception has occurred while retrieving sync schedule details.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.129.7. Scheduled Job Add

POST /sched/job/ipamAdd

#### Description

Add the current scheduled job in the TCPWave IPAM. Repetitive and one time schedule jobs can be added in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/sched/job/ipamAdd?repeat=2&frequency=2&runTime=3/18/2019 4:37&starttime=3/18/2019 4:37&endtime=4/18/2019

4:37&day=1&description=test&repeatInterval=1235&repeatCount=1245&jid=124&jtype=Script&jdata=abc&jarg=1&utcdiff=330

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>day</b> <i>required</i>	Day of Scheduled Job	integer(int32)	
Query	<b>description</b> <i>required</i>	Description of Scheduled Job	string	
Query	<b>endtime</b> <i>required</i>	End Time	string	
Query	<b>frequency</b> <i>required</i>	Frequency of Scheduled Job	string	
Query	<b>jarg</b> <i>required</i>	Scheduled Job Argument	string	
Query	<b>jdata</b> <i>required</i>	Scheduled Job Data	string	
Query	<b>jid</b> <i>required</i>	Scheduled Job ID	string	
Query	<b>jtype</b> <i>required</i>	Scheduled Job Type	string	
Query	<b>repeat</b> <i>required</i>	Repeat Number	integer(int32)	
Query	<b>repeatCount</b> <i>required</i>	Total Repetition Count	integer(int32)	
Query	<b>repeatInterval</b> <i>required</i>	Repeat Interval	integer(int64)	
Query	<b>runtime</b> <i>required</i>	Execution Time	string	
Query	<b>starttime</b> <i>required</i>	Start Time	string	
Query	<b>utcdiff</b> <i>required</i>	UTC Difference	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1022: Admin role is not valid.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

#### 4.129.8. Current Scheduled Job Delete

### Description

Delete the current scheduled job in the TCPWave IPAM. TCPWave IPAM default scheduled jobs cannot be deleted. The example listed below shows a sample request URL:  
/rest/sched/job/ipamDelete/12351

### Parameters

Type	Name	Description	Schema	Default
Path	<b>id</b> <i>required</i>	job ID	string	

### Responses

HTTP Code	Description	Schema
500	TIMS-1022: Admin role is not valid, TIMS-8014: Job Id does not exist in the scheduler.	No Content

### Produces

- application/json
- application/xml
- text/plain

### 4.129.9. Scheduled Job Edit

POST /sched/job/ipamEdit

### Description

Update the current scheduled job in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "jobType": "string", "jobData": "string", "scheduleType": "string", "runDay": 0, "repeatInterval": 0, "repeatCount": 0, "description": "string", "startDate": "3/18/2019 4:37", "endDate": "4/18/2019 4:37", "operation": "Add", "target_instance": "Object", "sysjob": 112, "jobpaused": 0, "startDateString": "3/18/2016 4:50", "endDateString": "3/18/2017 4:50", "runTimeString": "string", "runDayDisplayString": "string", "repeatIntervalString": "string" }
```

### Parameters

Type	Name	Description	Schema	Default
Query	<b>day</b> <i>required</i>	Day of Scheduled Job	integer(int32)	
Query	<b>description</b> <i>required</i>	Description of Scheduled Job	string	
Query	<b>endtime</b> <i>required</i>	End Time	string	
Query	<b>frequency</b> <i>required</i>	Frequency of Scheduled Job	string	
Query	<b>repeat</b> <i>required</i>	Repeat Number	integer(int32)	
Query	<b>repeatCount</b> <i>required</i>	Total Repetition Count	integer(int32)	
Query	<b>repeatInterval</b> <i>required</i>	Repeat Interval	integer(int64)	
Query	<b>runtime</b> <i>required</i>	Execution Time	string	
Query	<b>starttime</b> <i>required</i>	Start Time	string	
Query	<b>utcdiff</b> <i>required</i>	UTC Difference	string	
Body	<b>body</b> <i>optional</i>		<a href="#">Tims Scheduled Job Information</a>	

### Responses

HTTP Code	Description	Schema
500	TIMS-8013: Scheduler connection error, TIMS-8014: JobId ID does not exist in the scheduler, TIMS-8016: Scheduler internal error.	No Content

### Consumes

- application/json
- application/xml

### Produces

- application/json
- application/xml

- text/plain

#### 4.129.10. Update the job state

POST /sched/job/jobStateUpdate

##### Description

Update the scheduled job's status in TCPWave IPAM.  
The example listed below shows a sample request URL:  
/rest/sched/job/jobStateUpdate?jid=1234&jstate=1

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>jid</b> <i>required</i>	job ID	string	
Query	<b>jstate</b> <i>required</i>	job State	integer(int32)	

##### Responses

HTTP Code	Description	Schema
500	TIMS-8051: JobId does not exist.	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml
- text/plain

#### 4.129.11. List Scheduled Jobs Type

GET /sched/job/jobTypeList

##### Description

Retrieves the types of scheduled jobs.  
The example listed below shows a sample request URL:  
/rest/sched/job/jobTypeList

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Scheduled Job Type</a> > array
500	TIMS-8033: JobType is not valid, TIMS-8034: JobId is either null or empty, TIMS-8035: JobId cannot start with Rest_ or Patch_ and followed by digits.	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.129.12. Update the job state

POST /sched/job/jobTypeUpdate

##### Description

Update the scheduled job's status in TCPWave IPAM.  
The example listed below shows a sample request URL:  
/rest/sched/job/jobTypeUpdate?jid=1234&jstate=1

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>jid</b> <i>required</i>	job ID	string	
Query	<b>jtype</b> <i>required</i>	job Type	integer(int32)	

##### Responses

HTTP Code	Description	Schema
500	TIMS-8051: JobId does not exist.	No Content



#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

#### 4.129.13. Scheduled Tasks List

```
GET /sched/job/list
```

#### Description

List All Scheduled Tasks defined in the TCPWave IPAM. Functional Admin and Super Admin get the list of all the scheduled jobs. Rest of the Admins get the list of the jobs scheduled by them.

The example listed below shows a sample request URL:

/rest/sched/job/list

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Tims Scheduled Job Information</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.129.14. Scheduled job multi delete

```
POST /sched/job/multipleDelete
```

#### Description

Delete the current list of scheduled jobs in the TCPWave IPAM. TCPWave IPAM default scheduled jobs cannot be deleted.

Below example shows sample request JSON:

```
[ "ExternalDNSZonesGet" ]
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< string > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-8001: JobId is null, TIMS-8007: Job Id is empty.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.129.15. Purge Job

```
POST /sched/job/purgeJobs
```

#### Description

Delete the current list of scheduled jobs in the TCPWave IPAM. TCPWave IPAM default scheduled jobs cannot be deleted.

Below example shows sample request JSON:

```
[ "ExternalDNSZonesGet" ]
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		string	

#### Responses

HTTP Code	Description	Schema
-----------	-------------	--------

HTTP Code	Description	Schema
500		No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

#### 4.129.16. Get Scheduled Job

```
GET /sched/job/{id}
```

#### Description

Retrieves a Scheduled Job.

The example listed below shows a sample request URL:  
/rest/sched/job/1533

#### Parameters

Type	Name	Description	Schema	Default
Path	<b>id</b> <i>required</i>	Job ID	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Tims Scheduled Job Information</a>
500		No Content

#### Produces

- application/json
- application/xml
- text/plain

#### 4.129.17. Delete Scheduled Job

```
DELETE /sched/job/{id}
```

#### Description

Deletes a Scheduled Job.

The example listed below shows a sample request URL:  
/rest/sched/job/1533

#### Parameters

Type	Name	Description	Schema	Default
Path	<b>id</b> <i>required</i>	Scheduled Job ID	string	

#### Responses

HTTP Code	Description	Schema
500		No Content

#### Produces

- application/json
- application/xml
- text/plain

### 4.130. Scheduler Related Calls Service

#### Description

This class implements the miscellaneous REST service calls related to the scheduler.

#### 4.130.1. Get Job Info

```
GET /sched/opers/jobinfo
```

#### Description

Retrieves the needed job information.

The example listed below shows a sample request URL:  
/rest/sched/opers/jobinfo?jid=12458

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>jid</b> <i>required</i>	job ID	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-1201: Error in obtaining the job information.	No Content

#### Produces

- application/json
- application/xml
- text/plain

#### 4.130.2. Get Debug level

```
GET /sched/opers/loginfo
```

#### Description

Retrieves the IPAM's debug level setting.  
The example listed below shows a sample request URL:  
`/rest/sched/opers/loginfo`

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-1201: Error in getting the log level.	No Content

#### Produces

- application/json
- application/xml
- text/plain

#### 4.131. Scope Service

#### Description

This class provides services related to DHCPv4 Scopes. TCPWave IPAM supports adding a scope, deleting a scope, listing all objects in a scope, validating a object in the scope etc.

#### 4.131.1. Scope Create

```
POST /scope/create
```

#### Description

Creates DHCP Scopes by validating if the given start IP and end IP span through a valid free IP address in a subnet. The logic also checks if the DHCP Option Template associated to the scope has a valid Router and Subnet Mask that match with the subnet profile.

Below example shows sample request JSON:

```
{ "update_ns_a": true, "update_ns_ptr": true, "dyn_update_rrs_a": true, "dyn_update_rrs_cname": true, "dyn_update_rrs_ptr": true, "dyn_update_rrs_mx": true, "ttl": "1200", "scope": { "class_code": "3G Phone", "description": "", "organization_name": "QAOrg", "primary_dhcp_server": "QA-Remote", "allocation_type": "dynamic", "template_name": "option-temp", "allowClassesArray": [], "denyClassesArray": [], "addressRanges": [{ "startIP": "10.1.10.55", "endIP": "10.1.10.60" } ] }, "subnetAddress": "10.1.10.0" }
```

Below example shows sample request JSON with multiple DHCP classes associated to scope:

```
{ "update_ns_a": true, "update_ns_ptr": true, "dyn_update_rrs_a": true, "dyn_update_rrs_cname": true, "dyn_update_rrs_ptr": true, "dyn_update_rrs_mx": true, "ttl": "1200", "scope": { "class_code": "3G Phone", "description": "", "organization_name": "QAOrg", "primary_dhcp_server": "QA-Remote", "allocation_type": "dynamic", "template_name": "option-temp", "allowClassesArray": [client class1,client class2,Userclass1], "denyClassesArray": [client class2,client class3,Userclass2], "addressRanges": [{ "startIP": "10.1.10.55", "endIP": "10.1.10.60" } ] }, "subnetAddress": "10.1.10.0" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	DHCP scope details	<a href="#">Create Scope Request</a>	

#### Responses

HTTP Code	Description	Schema
-----------	-------------	--------

HTTP Code	Description	Schema
500	TIMS-1259: Object address range does not belong to any network, TIMS-1256: Scope already exists for this object range, TIMS-1257: Object address range overlaps with an existing object address range, TIMS-1258: Object address range exceeds the subnet range, TIMS-1260: Object address range already has non-dynamic objects, TIMS-1262: Subnet does not have a primary router defined and the template has the option router defined, TIMS-1263: Subnet does not have primary router	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.131.2. Scope Delete

POST /scope/delete

#### Description

Deletes one or a more scopes defined in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "addressRange": "10.0.0.16-10.0.0.18", "subnetAddress": "10.0.0.19", "organization_name": "QAOrg" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of scopes details	< <a href="#">Delete Scope Request</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1261: Scope does not exist for object range: start ip - end ip	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.131.3. Delete active leases

POST /scope/delete-active-leases

#### Description

Delete active leases of the given scope defined in the TCPWave IPAM.

Below example shows sample request :

```
/rest/scope/delete-active-leases?startAddr=10.0.0.2&endAddr=10.0.0.50&organizationName=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>endAddr</b> <i>required</i>	End Address of Scope	string	
Query	<b>organizationName</b> <i>required</i>	Organization Name	string	
Query	<b>startAddr</b> <i>required</i>	Start Address of Scope	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3966: Scope does not exist for object range: scope-range in organization.TIMS-3968: Cannot delete the active leases for the Microsoft DHCP enabled scope.	No Content

#### Consumes

- application/json
- text/plain

#### Produces

- application/json
- text/plain

#### 4.131.4. Scope List

GET /scope/list

##### Description

Provides a paginated list of DHCP Scope Definitions in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/scope/list?start=1&length=20

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter Rule	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>orgName</b> <i>optional</i>	Organization name	string	
Query	<b>serverType</b> <i>optional</i>	DHCP appliance type	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Scope Range	integer(int32)	
Query	<b>subnetAddress</b> <i>optional</i>	Subnet address of scope	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListScope Information</a>
500	TIMS-7003: You are not authorized to perform this operation,TIMS-2015: Subnet does not exist.	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.131.5. Scope Validation Request

GET /scope/validate\_request

##### Description

Provides the subnet address, DHCP Option Template and DHCP Appliance for a given scope. The start IP and end IP of a scope are the inputs for this REST Call.

The example listed below shows a sample request URL:

/rest/scope/validate\_request?min\_addr=1.0.0.2&1.0.0.5&organizationName=Internal

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>max_addr</b> <i>required</i>	Ending Address in Scope	string	
Query	<b>min_addr</b> <i>required</i>	Starting Address in Scope	string	
Query	<b>organizationName</b> <i>required</i>	Organization Name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Scope Validate Request Data</a>
500	TIMS-7003: You are not authorized to perform this operation	No Content

##### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.132. Search Service

#### Description

This service provides API's to get IPAM search details and to rebuild search indexes on the tables.

#### 4.132.1. Rebuild Search Index

```
POST /search/rebuildIndex
```

#### Description

Rebuilds search index and restarts the DB replicator in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/search/rebuildIndex
```

#### Responses

HTTP Code	Description	Schema
500	Index rebuild operation is already in progress. Please try after some time.	No Content

#### Consumes

- application/json
- text/plain

#### Produces

- application/json
- application/xml

#### 4.132.2. Entity Global Search

```
GET /search/search
```

#### Description

Performs a global search with the string provided by the user and returns list of entities present in the IPAM which satisfy the search criteria. Allowed search types are Text, Wildcard, Regex and Match.

Allowed characters for Text search and Match search string: a-z, A-Z, 0-9, \_, @, ., \*, #, -, /, ? and space

Allowed characters for Wildcard search string: a-z, A-Z, 0-9, \_, @, ., \*, #, +, -, ;, /, (, ), ? and space

Allowed characters for Regex search string: a-z, A-Z, 0-9, ., @, \*, #, -, +, /, (, ), ?, &, [, ], {, }, |, ~, <, > and space

The example listed below shows a sample request URL:

```
/rest/search/search?page=1&rows=20&search_term=test&search_type=Text&entity_type=network
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>entity_type</b> <i>required</i>	Enter entity type value. Ex: network, subnet, object etc. Allowed values: network, subnet, object, v6network, v6subnet, v6object, domain, custom_groups, organization, contact, location, admin, acl, resource_record, template, dns_server_template, admin_groups, v6_dhcp_server, server, subnet_group, v6_subnet_group, log_channel, scope, v6_scope, zone, root_zone, proxy_root_zone, dns64, appliance_group, subnet_template, cloud_dns_provider, tea_extension, params, tempate_params, v6_params, v6_template_params, tea_network, tea_subnet, tea_admin, tea_object, tea_zone, ipam_appliance, windows_servers, reverse_zone, tea_rr, dns_forwarders, tea_reverse_zone, dhcp_class, dhcp_pollers, discovery_template, admin_permissions	string	

Type	Name	Description	Schema	Default
Query	<b>field_name</b> <i>optional</i>	Field name which represents the column name in the database table. Note: Field name is mandatory when search type is Wildcard, Regex or Match.  Allowed values along with descriptions: object_full_address(IPv4/IPv6(Expanded) Object Address), network_full_address(IPv4 Network Address (Without Mask Length)), subnet_full_address(IPv4 Subnet Address (Without Mask Length)), v4_ipaddress(IPv4 Remote Appliance), v6_ipaddresses(IPv6 Remote Appliance), ip_short(IPv6 Compressed Subnet/Network), ip_full(IPv6 Expanded Subnet/Network), object_short_address(IPv6 Compressed Object Address), name(Name), server_name(Microsoft Appliance Name), server_ip(Microsoft Appliance IPv4 Address), data(Resource Record Data), owner(Resource Record Owner), display_name(Template Parameter Name), value(Value), email_id(Email Address), first_name(First Name), phone_num(Phone Number), last_name>Last Name), middle_name(Middle Name), full_location(Location), end_of_life(End Of Life), monitored_by(Monitored By), type(Resource Record Type), lease_info(DHCP Lease Information), lease_time(DHCP Lease Time), managed_by(Managed By), model_type(Model Type), description(Description), class_code(Object Type), vlan_id(VLAN ID), switch(Switch Name), port(Switch Port), duplex(Port Duplex)	string	
Query	<b>page</b> <i>optional</i>	Page	integer(int32)	
Query	<b>rows</b> <i>optional</i>	Rows	integer(int32)	
Query	<b>search_term</b> <i>required</i>	Search string	string	
Query	<b>search_type</b> <i>required</i>	Search type. Allowed values are Text, Wildcard, Regex and Match.	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListObject</a>

#### Consumes

- text/plain
- application/json

#### Produces

- application/json
- application/xml

### 4.133. Security Group Service

#### 4.133.1. Add Security Group

```
POST /securitygroup/add
```

#### Description

Creates a new security group in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "name": "SecurityGroupName", "organization_name": "Internal", "cloud_provider": "AWS", "vpc_id": "23523egrfggsggrg", "description": "Security group" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	AWS Security groups.	<a href="#">Security Group</a>	

#### Responses

HTTP Code	Description	Schema
500	An Security group with the given name already exists.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.133.2. Security Group Delete

GET /securitygroup/delete

##### Description

Deletes the Security group present in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/securitygroup/delete?name=securityGroupName&organization=orgName

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>cloud_provider</b> <i>required</i>	Provider Name	string	
Query	<b>name</b> <i>required</i>	Security Group Name	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

##### Responses

HTTP Code	Description	Schema
500	TIMS-2051: Security group is not deleted as it is being used.	No Content

##### Consumes

- text/plain
- application/json

##### Produces

- application/json
- application/xml

#### 4.133.3. Edit Security Group

POST /securitygroup/edit

##### Description

Updates an existing security group in the TCPWave IPAM. Functional and Users Admins can edit an security group in any organization.

Below example shows sample request JSON:

```
{ "name": "securityGroupName", "organization_name": "Internal", "description": "Security group", "prevAppGroupName": "app-group", }
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	AWS Security groups.	<a href="#">Security Group</a>	

##### Responses

HTTP Code	Description	Schema
500	A security group with the given name already exists.	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml

#### 4.133.4. Details of Security Group

GET /securitygroup/get

##### Description

Retrieves the details of an security group in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/securitygroup/get?name=securityGroupName&organization=orgName

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>optional</i>	Security Group Name	string	



Type	Name	Description	Schema	Default
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Security Group</a>
500	TIMS-12074: Security group name cannot be null.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.133.5. List Security Group

```
GET /securitygroup/list
```

#### Description

Provides a list of Security groups present in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/tims/rest/securitygroup/list?start=1&length=20
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Comma Separated Organization Names	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Security Group Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSecurity Group</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.133.6. Cloud Provider List

```
GET /securitygroup/listcloudproviders
```

#### Description

Obtains a list of all the cloud providers defined in the TCPWave IPAM. A cloud provider is an instance of the cloud provider type with the associated credentials to manage the data in the cloud. Please refer to TCPWave IPAM Administrator Guide for a comprehensive list of cloud provider types supported.

The example listed below shows a sample request URL:

```
/rest/securitygroup/list?orgName=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgName</b> <i>required</i>	Organization name required for listing all cloud providers associated with that Organization.	string	
Query	<b>org_id</b> <i>optional</i>	Organization Id required for listing all cloud providers.	integer(int32)	

## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DNS Cloud Provider</a> > array
500	TIMS-1020: Both Organization name and id cannot be null, TIMS-1021: Organization name is not valid, TIMS-1025: Organization id is not valid, TIMS-7003: You are not authorized to perform this operation.	No Content

## Consumes

- `text/plain`

## Produces

- `application/json`
- `application/xml`

### 4.133.7. Cloud Provider List

```
GET /securitygroup/listvpcs
```

## Description

Obtains a list of all the cloud providers defined in the TCPWave IPAM. A cloud provider is an instance of the cloud provider type with the associated credentials to manage the data in the cloud. Please refer to TCPWave IPAM Administrator Guide for a comprehensive list of cloud provider types supported.

The example listed below shows a sample request URL:

```
/rest/securitygroup/listvpc?orgName=Internal&cloudProvider=AWS
```

## Parameters

Type	Name	Description	Schema	Default
Query	<b>cloud_provider</b> <i>required</i>	Cloud Provider name required for listing all AWS VPC's.	string	
Query	<b>orgName</b> <i>required</i>	Organization name required for listing all listing all AWS VPC's.	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">AWS VPC's</a> > array
500	TIMS-1020: Both Organization name and id cannot be null, TIMS-1021: Organization name is not valid, TIMS-1025: Organization id is not valid, TIMS-7003: You are not authorized to perform this operation.	No Content

## Consumes

- `text/plain`

## Produces

- `application/json`
- `application/xml`

### 4.134. Server License Service

## Description

This service provides API's to get list of Server licenses present in the TCPWave IPAM, add license key information for a TCPWave Remote instance in the TCPWave IPAM, check whether license is valid or not for a specified DNS Remote in the TCPWave IPAM and update remote license which is valid for a certain period of time based on the type of License chosen at the time of purchase.

#### 4.134.1. License Add

```
POST /server_license/add
```

## Description

Add license key information for a TCPWave Remote instance in the TCPWave IPAM. TCPWave IPAM validates the license key and restarts the TCPWave Remote agent.

Below example shows sample request JSON:

```
{ "server_id": 123, "server_name": "DHCP-100", "server_v4ip": "10.0.0.0", "organization_name": "TCPWAVE", "server_type_code": "string", "server_license_id": "8EB8AB85DFF74B0B492BB9618375DA11", "is_valid": false, "days_valid": 100, "license_ip": "10.0.0.0", "license_service_tag": "2", "customer": "Ericson Ltd.", "customer_id": "987", "server_type": "BIND", "status": "Valid/Invalid", "last_checked": "12/10/2016", "server_current_status": "0 (for License valid)/ 1 (for License Invalid)", "isPermanent": true, "isHaLicense": true, "maxIps": 0, "majorVersion": "string", "minorVersion": "string"}
```

## Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Server License</a>	

## Responses

HTTP Code	Description	Schema
500	TIMS-6103: License not valid for this server. Please contact support, TIMS-6107: Import failed as the license limit of maximum objects exceeded.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json

#### 4.134.2. Check Valid license

```
GET /server_license/check
```

#### Description

Checks whether license is valid or not for a specified DNS Remote in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/server_license/check
```

#### Responses

HTTP Code	Description	Schema
200	successful operation	boolean
500	TIMS-3901: License Key is not valid.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.134.3. Server license List

```
GET /server_license/list
```

#### Description

Provides a list of Server licenses present in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/server_license/list?server_type=DHCP
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization List	string	
Query	<b>server_type</b> <i>required</i>	Server Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Server License</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.134.4. Remote license Update

```
GET /server_license/update_remote
```

#### Description

TCPWave IPAM supports the feature to update remote license which is valid for a certain period of time based on the type of License chosen at the time of purchase.

The example listed below shows a sample request URL:

```
/rest/server_license/update_remote?
```

```
address=10.0.0.2&license=234567ddrthgbsndbsd&server_type=DNS&server_name=3GPhone
```

#### Parameters

Type	Name	Description	Schema	Default

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance Address	string	
Query	<b>license</b> <i>required</i>	Appliance License Key	string	
Query	<b>server_name</b> <i>required</i>	Appliance Name	string	
Query	<b>server_type</b> <i>required</i>	Appliance Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">LicenseData</a>
500	TIMS-9503: The server did not respond for license update.Please check if the appliance is up and running.	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.134.5. License Add

```
POST /v6server_license/add
```

#### Description

Add license key information for a TCPWave Remote instance in the TCPWave IPAM. TCPWave IPAM validates the license key and restarts the TCPWave Remote agent.

Below example shows sample request JSON:

```
{ "server_id": 123, "server_name": "DHCP-100", "server_v4ip": "10.0.0.0", "organization_name": "TCPWAVE",
"server_type_code": "string", "server_license_id": "8EB8AB85DFF74B0B492BB9618375DA11", "is_valid": false,
"days_valid": 100, "license_ip": "10.0.0.0", "license_service_tag": "2", "customer": "Ericson Ltd.", "customer_id": "987",
"server_type": "BIND", "status": "Valid/Invalid", "last_checked": "12/10/2016", "server_current_status": "0 (for License
valid)/ 1 (for License Invalid) ", "isPermanent": true, "isHaLicense": true, "maxIps": 0, "majorVersion": "string",
"minorVersion": "string"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Server License</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-6103: License not valid for this server. Please contact support, TIMS-6107: Import failed as the license limit of maximum objects exceeded.	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`

#### 4.134.6. Check Valid license

```
GET /v6server_license/check
```

#### Description

Checks whether license is valid or not for a specified DNS Remote in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/server_license/check
```

#### Responses

HTTP Code	Description	Schema
200	successful operation	boolean
500	TIMS-3901: License Key is not valid.	No Content

#### Consumes

- `text/plain`

#### Produces

- application/json
- application/xml

#### 4.134.7. Server license List

```
GET /v6server_license/list
```

##### Description

Provides a list of Server licenses present in the TCPWave IPAM.  
The example listed below shows a sample request URL:  
`/rest/server_license/list?server_type=DHCP`

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization List	string	
Query	<b>server_type</b> <i>required</i>	Server Type	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Server License</a> > array

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.134.8. Remote license Update

```
GET /v6server_license/update_remote
```

##### Description

TCPWave IPAM supports the feature to update remote license which is valid for a certain period of time based on the type of License chosen at the time of purchase.  
The example listed below shows a sample request URL:  
`/rest/server_license/update_remote?address=10.0.0.2&license=234567ddrthgbsndbsd&server_type=DNS&server_name=3GPhone`

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance Address	string	
Query	<b>license</b> <i>required</i>	Appliance License Key	string	
Query	<b>server_name</b> <i>required</i>	Appliance Name	string	
Query	<b>server_type</b> <i>required</i>	Appliance Type	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">LicenseData</a>
500	TIMS-9503: The server did not respond for license update.Please check if the appliance is up and running.	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.135. Server Service

##### Description

This service provides API's to changes debug log level to Enable/Disable Remote Debugging in DNS appliances managed by the TCPWave IPAM and to clone a DNS/DHCP server that takes an exact copy of an existing server configuration in the TCPWave IPAM.

##### 4.135.1. Update the value of NIC from CLI

```
POST /ipv6dnserver/changeRemoteNIC
```

#### Description

Update network interface configuration the given IPAM managed by TCPWave.

The example listed below shows a sample request URL:

/rest/server/changeRemoteNIC?appliance=1.0.0.3,1.0.0.5&syncStatus=0/1

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>appliance</b> <i>required</i>	Appliances	string	
Query	<b>syncStatus</b> <i>required</i>	Sync Status	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- application/json
- application/xml

#### 4.135.2. Check Objects

```
POST /ipvdnsserver/checkObjectsInSameSubnet
```

#### Description

Checks given objects belongs to the same subnet or not.

The example listed below shows a sample request URL:

/rest/server/checkObjectsInSameSubnet?nicType=Remote

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>nicType</b> <i>required</i>	NIC Type: Remote or IPAM	string	
Body	<b>body</b> <i>optional</i>		< <a href="#">NICObject</a> > array	

#### Responses

HTTP Code	Description	Schema
200	successful operation	boolean
500	TIMS-7002: Permission information cannot be retrieved.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

#### 4.135.3. Server Debug Setting

```
POST /ipvdnsserver/debug-setting
```

#### Description

Debugs the existing server setting.Changes debug log level to Enable/Disable Remote Debugging in DNS appliances managed by the TCPWave IPAM.

Below example shows sample request JSON:

/rest/v6server/debug-setting

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">Server Information</a> > array	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3088: Server IP address is null	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- text/plain
- application/json
- application/xml

#### 4.135.4. Enable/Disable DNS Tunnel Detection

POST /ipv6dnsserver/dnstunneledetection

#### Description

Enables/Disables DNS tunnel detection on the selected DNS recursive enabled appliance managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/server/dnstunneledetection?address=1.0.0.3&applianceType=DNS&detect=yes/no

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Server IP Address	string	
Query	<b>detect</b> <i>required</i>	Tunnel Detection Value	string	
Query	<b>serverType</b> <i>required</i>	Server Type	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-14082: DNS tunnel detection cannot be enabled on DNS Proxy, NSD and Bind Auth without recursion enabled appliance.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- text/plain

#### 4.135.5. Object Details

GET /ipv6dnsserver/get

#### Description

Get the object details.

The example listed below shows a sample request URL:

/rest/server/get?address=1.0.0.3&organization=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Object Address	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">TIMS Object</a>
500	TIMS-7002: Permission information cannot be retrieved.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.135.6. GET Attached Network Interfaces

GET /ipv6dnsserver/getAttachedNics

#### Description

Provides the attached network interfaces for the given Appliance IP address in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/server/getAttachedNics?address=1.0.0.3&applianceType=DNS&nicType=Remote/IPAM

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>applianceType</b> <i>required</i>	Appliance Type	string	
Query	<b>nicType</b> <i>required</i>	NIC Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3091: Appliance does not exist.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.135.7. Server Get Clone Configuration

```
GET /ipv6dnsserver/getCloneConfiguration
```

#### Description

Cloning a DNS/DHCP server takes an exact copy of an existing server configuration in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/server/getCloneConfiguration?address=1.0.0.3&organization=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Server IP Address	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Server Information</a>

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

#### 4.135.8. Get NIC duplex settings

```
GET /ipv6dnsserver/getDuplexSettings
```

#### Description

Gets given network interface's duplex settings.

The example listed below shows a sample request URL:

/rest/server/getDuplexSettings?device=test&nicType=Remote&address=1.0.0.3&applianceType=DNS

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	IP address	string	
Query	<b>applianceType</b> <i>required</i>	Appliance Type	string	
Query	<b>device</b> <i>required</i>	Network interface Name	string	



Type	Name	Description	Schema	Default
Query	<b>nicType</b> <i>required</i>	NIC Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7002: Permission information cannot be retrieved.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.135.9. Object Details

```
GET /ipv6dnsserver/getObjectDetailsForNIC
```

#### Description

Get the object details.

The example listed below shows a sample request URL:

```
/rest/server/getObjectDetailsForNIC?nicType=Remote&organization=Internal&address=1.0.0.3
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Object Address	string	
Query	<b>device</b> <i>optional</i>	NIC Name	string	
Query	<b>nicType</b> <i>required</i>	NIC Type: Remote or IPAM	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Network Interface</a>
500	TIMS-7002: Permission information cannot be retrieved.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.135.10. Get patch deployment history

```
GET /ipv6dnsserver/getPatchHistory
```

#### Description

Provides the patch deployment history for the given Appliance in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/server/getPatchHistory?address=1.0.0.3&applianceType=DNS
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>applianceType</b> <i>required</i>	Appliance Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Patch deployment details in a Server.</a> > array
500	TIMS-3091: Appliance does not exist.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.135.11. Get number of Processors

```
GET /ipv6dnsserver/getProcessorsCount
```

#### Description

Provides the number of processors for the given appliance IP address in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/server/getProcessorsCount?address=1.0.0.3&applianceType=DNS
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>applianceType</b> <i>required</i>	Appliance Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3091: Appliance does not exist.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.135.12. Get Routes of Network

```
GET /ipv6dnsserver/getRoutes
```

#### Description

Gets routes of the network setup in a given appliance.

The example listed below shows a sample request URL:

```
/rest/server/getRoutes?nicType=Remote&address=1.0.0.3&applianceType=DNS
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	IP Address	string	
Query	<b>applianceType</b> <i>required</i>	Appliance Type	string	
Query	<b>nicType</b> <i>required</i>	NIC Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7002: Permission information cannot be retrieved.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.135.13. Get Routing Tables

```
GET /ipv6dnsserver/getRtTables
```

##### Description

Gets routing tables of the network interfaces in a given appliance.

The example listed below shows a sample request URL:

```
/rest/server/getRtTables?nicType=Remote&address=1.0.0.3&applianceType=DNS
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	IP address	string	
Query	<b>applianceType</b> <i>required</i>	Appliance Type	string	
Query	<b>nicType</b> <i>required</i>	NIC Type	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7002: Permission information cannot be retrieved.	No Content

##### Consumes

- application/json
- application/xml
- text/plain

##### Produces

- application/json
- application/xml

#### 4.135.14. DNS, DHCP and Both

```
GET /ipv6dnsserver/isDNSDHCP
```

##### Description

Checks given IP address associated with DNS, DHCP and both.

The example listed below shows a sample request URL:

```
/rest/server/isDNSDHCP?address=1.0.0.3
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Object Address	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7002: Permission information cannot be retrieved.	No Content

##### Consumes

- application/json
- application/xml
- text/plain

##### Produces

- application/json
- application/xml

#### 4.135.15. DNS Server List

```
GET /ipv6dnsserver/list
```

##### Description

Obtain a List of all the DNS Servers defined in the TCPWave IPAM. Functional Admin gets the list of all servers. Rest of the Admins get only the list of servers associated with the organization that they belong to.

The example listed below shows a sample request URL:

```
/rest/server/list?serverType=DNS
```

##### Parameters

Type	Name	Description	Schema	Default
Header	TIMS-Session-Token <i>optional</i>	Session token for authorization	string	
Query	serverType <i>required</i>	Server Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< string > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.135.16. Sync Network Interfaces

```
GET /ipv6dnsserver/syncNics
```

#### Description

Sync network interfaces for the given Appliance IP address in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/server/syncNics?address=1.0.0.3&applianceType=DNS&syncStatus=0/1
```

#### Parameters

Type	Name	Description	Schema	Default
Query	address <i>required</i>	Appliance IP Address	string	
Query	applianceType <i>required</i>	Appliance Type	string	
Query	syncStatus <i>required</i>	Sync Status	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3091: Appliance does not exist.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.135.17. Update the default syslog-ng configuration

```
POST /ipv6dnsserver/updateDefaultSyslogNgConfig
```

#### Description

Updates default syslog-ng configuration without wiping out user defined syslog-ng configuration.

The example listed below shows a sample request URL:

```
/rest/server/updateDefaultSyslogNgConfig
```

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### 4.135.18. Server Central Logging Setting

```
POST /ipv6dnsserver/v6serverCentralLoggingSetting
```

#### Description

The Central Logging Service provides the functionality to send different IPAM logs to a data collection server, like Flume Agent.

Below example shows the sample request URL:

```
rest/v6server/v6serverCentralLoggingSetting
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">Server Information</a> > array	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-8611: Central Logging is not configured on the IPAM server. Please configure it first, TIMS-8612: Central Logging feature is not implemented.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- text/plain
- application/json
- application/xml

#### 4.135.19. Yes/No

```
GET /server/areMemsAtSamePatchLevel
```

#### Description

Checks if the member nodes are at the same patch level.

The example listed below shows a sample request URL:

```
/rest/server/areMemsAtSamePatchLevel?vipType=BIND AUTH&vipIP=10.0.0.8&orgName=DemoOrg
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>vipIP</b> <i>required</i>	Remote Cluster IP	string	
Query	<b>vipOrgName</b> <i>required</i>	Organization Name	string	
Query	<b>vipType</b> <i>required</i>	Remote Appliance Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- text/plain

#### Produces

- application/json
- text/plain
- application/xml

#### 4.135.20. Gets callhome data

```
GET /server/callhome
```

#### Description

Gets the callhome data for the given Appliance in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/server/callhome?organization=Internal&address=1.0.0.3&applianceType=DNS
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>IPaddress</b> <i>required</i>	Appliance IP Address	string	
Query	<b>applianceName</b> <i>required</i>	Appliance Name	string	
Query	<b>applianceType</b> <i>required</i>	Appliance Type	string	
Query	<b>organization</b> <i>optional</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3091: Appliance does not exist.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.135.21. Downloads callhome zip file

```
GET /server/callhomedownload
```

#### Description

Exports the callhome data into a zip file.  
The example listed below shows a sample request URL:  
/rest/server/callhomedownload?fileName=filenamevalue

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>IPaddress</b> <i>required</i>	Appliance IP Address	string	
Query	<b>applianceType</b> <i>required</i>	Appliance Type	string	
Query	<b>fileName</b> <i>required</i>	Zip file name	string	
Query	<b>organization</b> <i>optional</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
500	Callhome data cannot be exported.	No Content

#### Produces

- application/octet-stream

#### 4.135.22. Remote Heap Size Setting

```
POST /server/changeHeapSize
```

#### Description

Changes the server heap size setting in the DNS/DHCP appliances managed by TCPWave IPAM and returns the IPs which are updated successfully.

Below example shows sample request JSON:  
[10.1.10.10,10.1.10.20]  
/rest/server/changeHeapSize?heapSize=4&type=DNS/DHCP

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>heapSize</b> <i>required</i>	Heap Size	integer(int32)	
Query	<b>type</b> <i>required</i>	Appliance Type	string	
Body	<b>body</b> <i>required</i>	List of Appliance IPs	< string > array	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3088: Server IP address is null	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- text/plain
- application/json

- application/xml

#### 4.135.23. Update the value of NIC from CLI

POST /server/changeRemoteNIC

##### Description

Update network interface configuration the given IPAM managed by TCPWave.

The example listed below shows a sample request URL:

/rest/server/changeRemoteNIC?appliance=1.0.0.3,1.0.0.5&syncStatus=0/1

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>appliance</b> <i>required</i>	Appliances	string	
Query	<b>syncStatus</b> <i>required</i>	Sync Status	integer(int32)	

##### Responses

HTTP Code	Description	Schema
200	successful operation	string

##### Consumes

- application/json
- application/xml

#### 4.135.24. Check Objects

POST /server/checkObjectsInSameSubnet

##### Description

Checks given objects belongs to the same subnet or not.

The example listed below shows a sample request URL:

/rest/server/checkObjectsInSameSubnet?nicType=Remote

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>nicType</b> <i>required</i>	NIC Type: Remote or IPAM	string	
Body	<b>body</b> <i>optional</i>		< <a href="#">NICObject</a> > array	

##### Responses

HTTP Code	Description	Schema
200	successful operation	boolean
500	TIMS-7002: Permission information cannot be retrieved.	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml
- text/plain

#### 4.135.25. Server Debug Setting

POST /server/debug-setting

##### Description

Debugs the existing server setting.Changes debug log level to Enable/Disable Remote Debugging in DNS appliances managed by TCPWave IPAM.

Below example shows sample request JSON:

/rest/server/debug-setting

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">Server Information</a> > array	

##### Responses

HTTP Code	Description	Schema
-----------	-------------	--------

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3088: Server IP address is null	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- text/plain
- application/json
- application/xml

#### 4.135.26. Enable/Disable DNS Tunnel Detection

POST /server/dnstunneledetection

#### Description

Enables/Disables DNS tunnel detection on the selected DNS recursive enabled appliance managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/server/dnstunneledetection?address=1.0.0.3&applianceType=DNS&detect=yes/no

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Server IP Address	string	
Query	<b>detect</b> <i>required</i>	Tunnel Detection Value	string	
Query	<b>serverType</b> <i>required</i>	Server Type	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-14082: DNS tunnel detection cannot be enabled on DNS Proxy, NSD and Bind Auth without recursion enabled appliance.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- text/plain

#### 4.135.27. Object Details

GET /server/get

#### Description

Get the object details.

The example listed below shows a sample request URL:

/rest/server/get?address=1.0.0.3&organization=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Object Address	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">TIMS Object</a>
500	TIMS-7002: Permission information cannot be retrieved.	No Content

#### Consumes

- application/json
- application/xml
- text/plain



#### Produces

- application/json
- application/xml

#### 4.135.28. GET Attached Network Interfaces

```
GET /server/getAttachedNics
```

#### Description

Provides the attached network interfaces for the given Appliance IP address in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/server/getAttachedNics?address=1.0.0.3&applianceType=DNS&nicType=Remote/IPAM
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>applianceType</b> <i>required</i>	Appliance Type	string	
Query	<b>nicType</b> <i>required</i>	NIC Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3091: Appliance does not exist.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.135.29. Server Get Clone Configuration

```
GET /server/getCloneConfiguration
```

#### Description

Cloning a DNS/DHCP server takes an exact copy of an existing server configuration in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/server/getCloneConfiguration?address=1.0.0.3&organization=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Server IP Address	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Server Information</a>

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

#### 4.135.30. Remote Cluster Configuration

```
GET /server/getClusterInfo
```

#### Description

Get remote cluster configuration.

The example listed below shows a sample request URL:

```
/rest/server/getClusterInfo?vipType=BIND AUTH&vipIP=10.0.0.8&orgName=DemoOrg
```

#### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Query	<b>vipIP</b> <i>required</i>	Remote Cluster IP	string	
Query	<b>vipOrgName</b> <i>required</i>	Organization Name	string	
Query	<b>vipType</b> <i>required</i>	Remote Appliance Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Remote Cluster Server Information</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.135.31. Remote Cluster Status

```
GET /server/getClusterStatus
```

#### Description

Get remote cluster status.

The example listed below shows a sample request URL:

```
/rest/server/getClusterInfo?serverTypeCode=BIND AUTH&vipIP=10.0.0.8
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>vipIP</b> <i>required</i>	Remote Cluster IP	string	
Query	<b>vipOrgName</b> <i>required</i>	Organization Name	string	
Query	<b>vipType</b> <i>required</i>	Remote Appliance Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">RemoteClusterState</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.135.32. Gets Heap Size Setting

```
GET /server/getCurrentHeapSize
```

#### Description

Gets the current server heap size setting on the DNS/DHCP appliances managed by TCPWave IPAM.

Below example shows sample request:

```
/rest/server/getCurrentHeapSize?ipaddress=10.1.10.10&type=DNS/DHCP
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ipaddress</b> <i>required</i>	IP Address	string	
Query	<b>type</b> <i>required</i>	Appliance Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3088: Server IP address is null	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- text/plain
- application/json
- application/xml

#### 4.135.33. Get NIC duplex settings

```
GET /server/getDuplexSettings
```

#### Description

Gets given network interface's duplex settings.

The example listed below shows a sample request URL:

```
/rest/server/getDuplexSettings?device=test&nicType=Remote&address=1.0.0.3&applianceType=DNS
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	IP address	string	
Query	<b>applianceType</b> <i>required</i>	Appliance Type	string	
Query	<b>device</b> <i>required</i>	Network interface Name	string	
Query	<b>nicType</b> <i>required</i>	NIC Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7002: Permission information cannot be retrieved.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.135.34. Object Details

```
GET /server/getObjectDetailsForNIC
```

#### Description

Get the object details.

The example listed below shows a sample request URL:

```
/rest/server/getObjectDetailsForNIC?nicType=Remote&organization=Internal&address=1.0.0.3
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Object Address	string	
Query	<b>device</b> <i>optional</i>	NIC Name	string	
Query	<b>nicType</b> <i>required</i>	NIC Type: Remote or IPAM	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Network Interface</a>
500	TIMS-7002: Permission information cannot be retrieved.	No Content

#### Consumes

- application/json
- application/xml

- text/plain

#### Produces

- application/json
- application/xml

#### 4.135.35. Get patch deployment history

```
GET /server/getPatchHistory
```

#### Description

Provides the patch deployment history for the given Appliance in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/server/getPatchHistory?address=1.0.0.3&applianceType=DNS
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>applianceType</b> <i>required</i>	Appliance Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Patch deployment details in a Server.</a> > array
500	TIMS-3091: Appliance does not exist.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.135.36. Get number of Processors

```
GET /server/getProcessorsCount
```

#### Description

Provides the number of processors for the given appliance IP address in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/server/getProcessorsCount?address=1.0.0.3&applianceType=DNS
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>applianceType</b> <i>required</i>	Appliance Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3091: Appliance does not exist.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.135.37. Get Routes of Network

```
GET /server/getRoutes
```

#### Description

Gets routes of the network setup in a given appliance.

The example listed below shows a sample request URL:

```
/rest/server/getRoutes?nicType=Remote&address=1.0.0.3&applianceType=DNS
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	IP Address	string	
Query	<b>applianceType</b> <i>required</i>	Appliance Type	string	
Query	<b>nicType</b> <i>required</i>	NIC Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7002: Permission information cannot be retrieved.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.135.38. Get Routing Tables

```
GET /server/getRtTables
```

#### Description

Gets routing tables of the network interfaces in a given appliance.

The example listed below shows a sample request URL:

```
/rest/server/getRtTables?nicType=Remote&address=1.0.0.3&applianceType=DNS
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	IP address	string	
Query	<b>applianceType</b> <i>required</i>	Appliance Type	string	
Query	<b>nicType</b> <i>required</i>	NIC Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7002: Permission information cannot be retrieved.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.135.39. DNS, DHCP and Both

```
GET /server/isDNSDHCP
```

#### Description

Checks given IP address associated with DNS, DHCP and both.

The example listed below shows a sample request URL:

```
/rest/server/isDNSDHCP?address=1.0.0.3
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Object Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7002: Permission information cannot be retrieved.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.135.40. DNS Server List

```
GET /server/list
```

#### Description

Obtain a List of all the DNS Servers defined in the TCPWave IPAM. Functional Admin gets the list of all servers. Rest of the Admins get only the list of servers associated with the organization that they belong to.

The example listed below shows a sample request URL:

```
/rest/server/list?serverType=DNS
```

#### Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>	Session token for authorization	string	
Query	<b>serverType</b> <i>required</i>	Server Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< string > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.135.41. Reset cluster resource fail count.

```
POST /server/resetResourceFailCount
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Remote Cluster IP	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-15604: Input argument is not valid.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.135.42. Restart remote cluster services

```
POST /server/restartClusterServices
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Remote Cluster IP	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-15604: Input argument is not valid.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.135.43. Sync Network Interfaces

GET /server/syncNics

#### Description

Sync network interfaces for the given Appliance IP address in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/server/syncNics?address=1.0.0.3&applianceType=DNS&syncStatus=0/1

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>applianceType</b> <i>required</i>	Appliance Type	string	
Query	<b>syncStatus</b> <i>required</i>	Sync Status	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3091: Appliance does not exist.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.135.44. Update the default syslog-ng configuration

POST /server/updateDefaultSyslogNgConfig

#### Description

Updates default syslog-ng configuration without wiping out user defined syslog-ng configuration.

The example listed below shows a sample request URL:

/rest/server/updateDefaultSyslogNgConfig

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### 4.135.45. Windows Server List

GET /server/windowsServerslist

#### Description

Obtain a List of all the Windows Servers defined in the TCPWave IPAM. Functional Admin gets the list of all servers.

Rest of the Admins get only the list of servers associated with the organization that they belong to.

The example listed below shows a sample request URL:

/rest/server/windowsServerslist

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>OrgName</b> <i>required</i>	Server Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Microsoft Server Information</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.135.46. Update the value of NIC from CLI

```
POST /v6server/changeRemoteNIC
```

#### Description

Update network interface configuration the given IPAM managed by TCPWave.

The example listed below shows a sample request URL:

```
/rest/server/changeRemoteNIC?appliance=1.0.0.3,1.0.0.5&syncStatus=0/1
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>appliance</b> <i>required</i>	Appliances	string	
Query	<b>syncStatus</b> <i>required</i>	Sync Status	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- application/json
- application/xml

#### 4.135.47. Check Objects

```
POST /v6server/checkObjectsInSameSubnet
```

#### Description

Checks given objects belongs to the same subnet or not.

The example listed below shows a sample request URL:

```
/rest/server/checkObjectsInSameSubnet?nicType=Remote
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>nicType</b> <i>required</i>	NIC Type: Remote or IPAM	string	
Body	<b>body</b> <i>optional</i>		< <a href="#">NICObject</a> > array	

#### Responses

HTTP Code	Description	Schema
200	successful operation	boolean
500	TIMS-7002: Permission information cannot be retrieved.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

#### 4.135.48. Server Debug Setting

```
POST /v6server/debug-setting
```

#### Description

Debugs the existing server setting.Changes debug log level to Enable/Disable Remote Debugging in DNS appliances managed by TCPWave IPAM.

Below example shows sample request JSON:



## Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">Server Information</a> > array	

## Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3088: Server IP address is null	No Content

## Consumes

- application/json
- application/xml

## Produces

- text/plain
- application/json
- application/xml

## 4.135.49. Enable/Disable DNS Tunnel Detection

```
POST /v6server/dnstunneledetection
```

## Description

Enables/Disables DNS tunnel detection on the selected DNS recursive enabled appliance managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/server/dnstunneledetection?address=1.0.0.3&applianceType=DNS&detect=yes/no
```

## Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Server IP Address	string	
Query	<b>detect</b> <i>required</i>	Tunnel Detection Value	string	
Query	<b>serverType</b> <i>required</i>	Server Type	string	

## Responses

HTTP Code	Description	Schema
500	TIMS-14082: DNS tunnel detection cannot be enabled on DNS Proxy, NSD and Bind Auth without recursion enabled appliance.	No Content

## Consumes

- application/json
- application/xml
- text/plain

## Produces

- text/plain

## 4.135.50. Object Details

```
GET /v6server/get
```

## Description

Get the object details.

The example listed below shows a sample request URL:

```
/rest/server/get?address=1.0.0.3&organization=Internal
```

## Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Object Address	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

## Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
200	successful operation	<a href="#">TIMS Object</a>
500	TIMS-7002: Permission information cannot be retrieved.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.135.51. GET Attached Network Interfaces

```
GET /v6server/getAttachedNics
```

#### Description

Provides the attached network interfaces for the given Appliance IP address in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/server/getAttachedNics?address=1.0.0.3&applianceType=DNS&nicType=Remote/IPAM
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>applianceType</b> <i>required</i>	Appliance Type	string	
Query	<b>nicType</b> <i>required</i>	NIC Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3091: Appliance does not exist.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.135.52. Server Get Clone Configuration

```
GET /v6server/getCloneConfiguration
```

#### Description

Cloning a DNS/DHCP server takes an exact copy of an existing server configuration in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/server/getCloneConfiguration?address=1.0.0.3&organization=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Server IP Address	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Server Information</a>

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

#### 4.135.53. Get NIC duplex settings

GET /v6server/getDuplexSettings

#### Description

Gets given network interface's duplex settings.

The example listed below shows a sample request URL:

/rest/server/getDuplexSettings?device=test&nicType=Remote&address=1.0.0.3&applianceType=DNS

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	IP address	string	
Query	<b>applianceType</b> <i>required</i>	Appliance Type	string	
Query	<b>device</b> <i>required</i>	Network interface Name	string	
Query	<b>nicType</b> <i>required</i>	NIC Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7002: Permission information cannot be retrieved.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.135.54. Object Details

GET /v6server/getObjectDetailsForNIC

#### Description

Get the object details.

The example listed below shows a sample request URL:

/rest/server/getObjectDetailsForNIC?nicType=Remote&organization=Internal&address=1.0.0.3

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Object Address	string	
Query	<b>device</b> <i>optional</i>	NIC Name	string	
Query	<b>nicType</b> <i>required</i>	NIC Type: Remote or IPAM	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Network Interface</a>
500	TIMS-7002: Permission information cannot be retrieved.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.135.55. Get patch deployment history

GET /v6server/getPatchHistory

#### Description

Provides the patch deployment history for the given Appliance in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/server/getPatchHistory?address=1.0.0.3&applianceType=DNS

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>applianceType</b> <i>required</i>	Appliance Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Patch deployment details in a Server.</a> > array
500	TIMS-3091: Appliance does not exist.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.135.56. Get number of Processors

```
GET /v6server/getProcessorsCount
```

#### Description

Provides the number of processors for the given appliance IP address in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/server/getProcessorsCount?address=1.0.0.3&applianceType=DNS

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>applianceType</b> <i>required</i>	Appliance Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3091: Appliance does not exist.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.135.57. Get Routes of Network

```
GET /v6server/getRoutes
```

#### Description

Gets routes of the network setup in a given appliance.

The example listed below shows a sample request URL:

/rest/server/getRoutes?nicType=Remote&address=1.0.0.3&applianceType=DNS

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	IP Address	string	
Query	<b>applianceType</b> <i>required</i>	Appliance Type	string	
Query	<b>nicType</b> <i>required</i>	NIC Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7002: Permission information cannot be retrieved.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.135.58. Get Routing Tables

```
GET /v6server/getRtTables
```

#### Description

Gets routing tables of the network interfaces in a given appliance.

The example listed below shows a sample request URL:

```
/rest/server/getRtTables?nicType=Remote&address=1.0.0.3&applianceType=DNS
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	IP address	string	
Query	<b>applianceType</b> <i>required</i>	Appliance Type	string	
Query	<b>nicType</b> <i>required</i>	NIC Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7002: Permission information cannot be retrieved.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.135.59. DNS, DHCP and Both

```
GET /v6server/isDNSDHCP
```

#### Description

Checks given IP address associated with DNS, DHCP and both.

The example listed below shows a sample request URL:

```
/rest/server/isDNSDHCP?address=1.0.0.3
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Object Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7002: Permission information cannot be retrieved.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.135.60. DNS Server List

```
GET /v6server/list
```

##### Description

Obtain a List of all the DNS Servers defined in the TCPWave IPAM. Functional Admin gets the list of all servers. Rest of the Admins get only the list of servers associated with the organization that they belong to.

The example listed below shows a sample request URL:

```
/rest/server/list?serverType=DNS
```

##### Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>	Session token for authorization	string	
Query	<b>serverType</b> <i>required</i>	Server Type	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< string > array

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.135.61. Sync Network Interfaces

```
GET /v6server/syncNics
```

##### Description

Sync network interfaces for the given Appliance IP address in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/server/syncNics?address=1.0.0.3&applianceType=DNS&syncStatus=0/1
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>address</b> <i>required</i>	Appliance IP Address	string	
Query	<b>applianceType</b> <i>required</i>	Appliance Type	string	
Query	<b>syncStatus</b> <i>required</i>	Sync Status	integer(int32)	

##### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-3091: Appliance does not exist.	No Content

##### Consumes

- text/plain

##### Produces

- text/plain

#### 4.135.62. Update the default syslog-ng configuration

```
POST /v6server/updateDefaultSyslogNgConfig
```

##### Description

Updates default syslog-ng configuration without wiping out user defined syslog-ng configuration.

The example listed below shows a sample request URL:

```
/rest/server/updateDefaultSyslogNgConfig
```

##### Responses

HTTP Code	Description	Schema
<b>default</b>	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### 4.135.63. Server Central Logging Setting

```
POST /v6server/v6serverCentralLoggingSetting
```

#### Description

The Central Logging Service provides the functionality to send different IPAM logs to a data collection server, like Flume Agent.

Below example shows the sample request URL:

rest/v6server/v6serverCentralLoggingSetting

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">Server Information</a> > array	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-8611: Central Logging is not configured on the IPAM server. Please configure it first, TIMS-8612: Central Logging feature is not implemented.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

#### 4.136. Subnet Group Service

#### Description

This service provides API access to perform subnet group related operations like add, edit and delete.

#### 4.136.1. Subnet Group Add

```
POST /subnetgroup/add
```

#### Description

Creates a new subnet group in the TCPWave IPAM. Functional Admins can add a subnet group in any organization.

Other Admins can add the subnet groups in their own organization only.

Below example shows sample request JSON:

```
{ "name": "Subgroup", "description": "test", "organization_name": "Internal" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Subnet Group</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1250: A subnet group with the given name already exists.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.136.2. Subnet Group Delete Multiple

```
POST /subnetgroup/delete
```

#### Description

Deletes the subnet groups present in the TCPWave IPAM. Functional Admins can delete a subnet group in any organization. Other Admins can delete the subnet groups belonging to their organization only.

Below example shows sample request JSON:

```
{"name": "aaaa_sub"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Subnet Group</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-2051: Subnet group is not deleted as it is being used.	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

#### 4.136.3. Disassociate Subnet

POST /subnetgroup/disassociate

#### Description

Dissociates Subnet from the Subnet Group. This action is audited.

The example listed below shows a sample request URL:

/rest/subnetgroup/disassociate?fullAddress=1.0.0.0&org\_name=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>fullAddress</b> <i>required</i>	Subnet address	string	
Query	<b>group_name</b> <i>required</i>	Subnet Group Name	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
500	Subnet does not exist.	No Content

#### Consumes

- `application/json`
- `application/xml`

#### 4.136.4. Subnet Group Get

GET /subnetgroup/get

#### Description

Retrieves the details of a subnet group in the TCPWave IPAM. Subnet Group manages all the subnets which belongs to that subnet group.

The example listed below shows a sample request URL:

/rest/subnetgroup/get?organization=Internal&name=subnetGroupName

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>id</b> <i>optional</i>	Subnet Group ID	string	
Query	<b>name</b> <i>required</i>	Subnet Group Name	string	
Query	<b>organization</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Subnet Group</a>
500	TIMS-2052: Both Subnet group name and id cannot be null.	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`



- application/xml

#### 4.136.5. List Subnets present in the given Subnet Group

```
GET /subnetgroup/listSubnets
```

##### Description

Returns a list of Subnets present in the given Subnet Group.

The example listed below shows a sample request URL:

```
/rest/subnetgroup/listSubnets?subnet_grp_name=subnetGroupName&org_name=Internal&length=20&start=1
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Subnet Range	integer(int32)	
Query	<b>subnet_grp_id</b> <i>optional</i>	Subnet Group Id	integer(int32)	
Query	<b>subnet_grp_name</b> <i>required</i>	Subnet Group Name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSubnet Information</a>

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.136.6. Subnet Group Organization List

```
GET /subnetgroup/listbyorg
```

##### Description

Provides a list of Subnet groups present in the TCPWave IPAM. For Functional Admin, if the organization id is not specified then all the subnet groups are listed.

The example listed below shows a sample request URL:

```
/rest/subnetgroup/listbyorg?organization_name=Internal
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_id</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Subnet Group</a> > array

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.136.7. Subnet Group References

GET /subnetgroup/references

##### Description

Provides the list of Subnet Groups that are referenced in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/subnetgroup/references?page=1&rows=20&tables=tableName&count=2

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>count</b> <i>required</i>	Total Count	string	
Query	<b>id</b> <i>optional</i>	Reference ID	string	
Query	<b>page</b> <i>required</i>	Page Number	integer(int32)	
Query	<b>rows</b> <i>required</i>	Rows per Page	integer(int32)	
Query	<b>tables</b> <i>required</i>	Reference Table	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Reference Results</a>

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.136.8. Subnet Group Search

GET /subnetgroup/search

##### Description

Searches for a particular subnet group present in TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/subnetgroup/search?page=1&rows=20

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>required</i>	Organization List	string	
Query	<b>page</b> <i>required</i>	Page Number	integer(int32)	
Query	<b>rows</b> <i>required</i>	Rows per Page	integer(int32)	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListSubnet Group</a>

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.136.9. Subnet Group Edit

POST /subnetgroup/update

##### Description

Updates the subnet groups present in the TCPWave IPAM. Functional Admins can update a subnet group in any organization. Other Admins can update the subnet groups in their own organization only.

Below example shows sample request JSON:

```
{ "name": "Subgroup11", "description": "", "organization_name": "QAOrg", "oldName": "Subgroup" }
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Subnet Group</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1250: A subnet group with the given name already exists.	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

### 4.137. Subnet Service

#### Description

This service provides API's to add, delete, modify subnets in the TCPWave IPAM.

#### 4.137.1. Active Leases List

```
GET /subnet/activeLeases
```

#### Description

Lists all the DHCP Objects that are holding an active lease in the network for a given subnet that is defined in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/subnet/activeLeases?
```

```
serverAddress=10.0.0.8&subnetAddress=10.0.0.0&organizationName=Internal&dhcpType=dhcp
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>dhcpType</b> <i>required</i>	DHCP type	string	
Query	<b>organizationName</b> <i>required</i>	Organization Name	string	
Query	<b>page</b> <i>optional</i>	Page	integer(int32)	
Query	<b>rows</b> <i>optional</i>	Rows	integer(int32)	
Query	<b>serverAddress</b> <i>required</i>	Server Address	string	
Query	<b>subnetAddress</b> <i>required</i>	Subnet Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListDHCPLeaseObject</a>

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.137.2. Subnet Add

```
POST /subnet/add
```

#### Description

Creates a new subnet by checking if they are overlapping with the existing subnets defined in the TCPWave IPAM.

The allowed subnet types are (1)Non-DHCP (2)DHCP Enabled (3)Cloud Hosted

Non-DHCP subnet type can be used to create static objects. DHCP Enabled subnet type is used to create DHCP objects along with static objects and Cloud Hosted subnet type is used to create cloud instances.

When Non-DHCP subnet type is selected, the parameters `primary_domain` and `routerAddress` are mandatory.

When DHCP Enabled subnet type is selected, `primary_domain`, `routerAddress`, `template_name` and `primary_dhcp_server` are mandatory.

When Enable Discovery is yes, Objects present in the subnet will be eligible for discovery.If Enable Discovery is yes then `discovery_template` is mandatory field.

When Enable Reclaim is set to yes,The objects present in the subnet will be eligible for reclaim validation and the objects that are not pingable in the reclaim period from the current time will be eligible for reclaim.

On enabling the global option "Enable Secondary Domains for Subnet" to "Yes", user can associate Secondary domains

with the subnets

Sample payloads with mandatory parameters to add a subnet are listed below.

**Create NON-DHCP Subnet:**

```
{ "addr1":10,"addr2":0,"addr3":0,"addr4":0,"mask_length":24,"name":"Demo Subnet 1",  
"routerAddress":"10.0.0.1","organization_name":"QAOrg", "network_address":"10.0.0.0","primary_domain":"qa.com"}
```

**Create DHCP-Enabled Subnet:**

```
{ "addr1":10,"addr2":0,"addr3":0,"addr4":0,"mask_length":24,"name":"Demo Subnet 1",  
"routerAddress":"10.0.0.1","organization_name":"QAOrg", "network_address":"10.0.0.0","primary_domain":"qa.com",  
"template_name":"dhcp_option_template","primary_dhcp_server":"TCPWave00002Remote"}
```

**Create Cloud Hosted Subnet:**

```
{ "addr1":10,"addr2":0,"addr3":0,"addr4":0,"mask_length":24,"name":"Demo Subnet 1",  
"routerAddress":"10.0.0.1","network_address":"10.0.0.0","primary_domain":"qa.com", "organization_name":"QAOrg",  
"cloudProviderName":"cloudflare" }
```

**Create subnet with Enable Discovery:**

```
{ "addr1":10,"addr2":0,"addr3":0,"addr4":0,"mask_length":24,"name":"Demo Subnet 1",  
"routerAddress":"10.0.0.1","network_address":"10.0.0.0","primary_domain":"qa.com", "organization_name":"QAOrg",  
"enable_discovery":"yes", "discovery_template":"Default Discovery Template"}
```

**Create subnet with Enable Reclaim:**

```
{ "addr1":10,"addr2":0,"addr3":0,"addr4":0,"mask_length":24,"name":"Demo Subnet 1",  
"routerAddress":"10.0.0.1","network_address":"10.0.0.0","primary_domain":"qa.com", "organization_name":"QAOrg",  
"reclaim_objects":"yes", "discovery_template":"Default Discovery Template"}
```

**Create Subnet with Secondary Domains:**

```
{ "addr1":10,"addr2":0,"addr3":0,"addr4":0,"mask_length":24,"name":"Demo Subnet 1",  
"routerAddress":"10.0.0.1","organization_name":"QAOrg", "secondaryDomains":["test.com",  
"example.com"],"network_address":"10.0.0.0","primary_domain":"qa.com"}
```

**Parameters**

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		<a href="#">Subnet Information</a>	

**Responses**

HTTP Code	Description	Schema
500	TIMS-2008: Both Network address and id cannot be null, TIMS-3101: Network does not exist: <Network Address>, TIMS-1355: Organization id is null, TIMS-1321: Domain does not exist: <Domain Name>, TIMS-1449: Cannot associate a restricted domain : <Domain Name> to the subnet, TIMS-5001: Template already exists, TIMS-2018: Subnet group information does not exist, TIMS-1505: Location information does not exist, TIMS-5035: DHCP Template does not exist: <DHCP Template Name>, TIMS-3058: DHCP Appliance does not exist: <DHCP Appliance Name>, TIMS-7004: Please select a DHCP Template.	No Content

**Consumes**

- application/json
- application/xml

**Produces**

- application/json
- application/xml

**4.137.3. Subnet Add All**

```
POST /subnet/addall
```

**Description**

Creates all the possible subnets in a given network by taking all the existing subnets into consideration.

The allowed subnet types are (1)Non-DHCP (2)DHCP Enabled (3)Cloud Hosted

Non-DHCP subnet type can be used to create static objects. DHCP Enabled subnet type is used to create DHCP objects along with static objects and Cloud Hosted subnet type is used to create cloud instances.

When Non-DHCP subnet type is selected, the parameters primary\_domain and routerAddress are mandatory.

When DHCP Enabled subnet type is selected,primary\_domain, routerAddress, template\_name and primary\_dhcp\_server are mandatory.

When Enable Discovery is yes, Objects present in the subnet will be eligible for discovery.If Enable Discovery is yes then discovery\_template is mandatory field.

When Enable Reclaim is set to yes,The objects present in the subnet will be eligible for reclaim validation and the objects that are not pingable in the reclaim period from the current time will be eligible for reclaim.

Sample payloads with mandatory parameters to add a subnet are listed below.

**Create NON-DHCP Subnet:**

```
{ "nw_mask_length":8,"mask_length":10,"network_address":"10.0.0.0","subnet":{"router_option":"First IP in the  
subnet"},"organization_name":"QAOrg","primary_domain":"qa.com"}
```

**Create DHCP-Enabled Subnet:**

```
{ "nw_mask_length":8,"mask_length":10,"network_address":"10.0.0.0","subnet":{"router_option":"First IP in the  
subnet"},"organization_name":"QAOrg","primary_domain":"qa.com",  
"template_name":"dhcp_option_template","primary_dhcp_server":"TCPWave00002Remote"}
```

**Create Cloud Hosted Subnet:**

```
{ "nw_mask_length":8,"mask_length":10,"network_address":"10.0.0.0","subnet":{"router_option":"First IP in the  
subnet"},"organization_name":"QAOrg","primary_domain":"qa.com", "cloudProviderName":"cloudflare" }
```

**Create subnet with Enable Discovery:**

```
{ "nw_mask_length":8,"mask_length":10,"network_address":"10.0.0.0","subnet":{"router_option":"First IP in the  
subnet"},"organization_name":"QAOrg","primary_domain":"qa.com", "enable_discovery":"yes",  
"discovery_template":"Default Discovery Template"}
```

#### Create subnet with Enable Reclaim:

```
{ "nw_mask_length":8,"mask_length":10,"network_address":"10.0.0.0","subnet":{"router_option":"First IP in the subnet","organization_name":"QAOrg","primary_domain":"qa.com", "reclaim_objects":"yes", "discovery_template":"Default Discovery Template"}}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body required</b>	Multiple subnets add operation	<a href="#">Multi Subnet Request</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-2008: Both Network address and id cannot be null, TIMS-3101: Network does not exist: <Network Address>, TIMS-1355: Organization id is null, TIMS-1321: Domain does not exist: <Domain Name>, TIMS-1449: Cannot associate a restricted domain : <Domain Name> to the subnet, TIMS-5001: Template already exists, TIMS-2018: Subnet group information does not exist, TIMS-1505: Location information does not exist, TIMS-5035: DHCP Template does not exist: <DHCP Template Name>, TIMS-3058: DHCP Appliance does not exist: <DHCP Appliance Name>, TIMS-7004: Please select a DHCP Template.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.137.4. Subnet Add

```
POST /subnet/createNextAvailableSubnet
```

#### Description

Creates next available subnet in the specified network for desired mask in the TCPWave IPAM.

```
{ "mask_length":24,"name":"Test Subnet","subnetTemplateName":"Test Subnet Template","network_address":"10.10.0.0/16", "organization_name":"TestOrg"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body optional</b>		<a href="#">Subnet Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7783: Subnet cannot be null., TIMS-7784: Please specify the desired subnet mask length., TIMS-7785: Next available subnet for desired mask does not exist., TIMS-1916: Organization name cannot be null., TIMS-11057: Subnet template name not specified., TIMS-14053: Network Address cannot be null.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- text/plain

#### 4.137.5. Subnet Statistics

```
POST /subnet/delete
```

#### Description

Deletes one or more subnets present in the TCPWave IPAM. Functional Admin can delete subnet belonging to any organization. Rest of the admins can delete subnets belonging to their organization only.

Sample payload with mandatory parameters to delete subnet is listed below

```
{ "addressList":["10.1.10.0/24"],"organizationName":"Internal"}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body optional</b>		<a href="#">Delete Cloud Subnet Request</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

HTTP Code	Description	Schema
500	TIMS-2016: Subnet does not exist: <Subnet Address>, TIMS-3121: Subnet is not deleted as there are servers defined in it, TIMS-1445: Cannot delete subnet(s) as there are one or more Resource Records are defined with the subnet(s) objects. Please delete the references and try again, TIMS-1447: Cannot delete subnet(s) as there are one or more Resource Records are defined with the subnet(s) object level A Resource Records. Please delete the references and try again, TIMS-1454: Cannot delete a subnet as one or more objects are defined as DCs and associated with AD zones. Please delete the references and try again.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.137.6. Updating Subnet

POST /subnet/edit

#### Description

Updating an specified Subnet in TCPWave IPAM.

Below example shows sample request JSON:

```
{
  "subnet": {
    "name": "Demo Subnet 1",
    "location_id": null,
    "subnet_group_id": "",
    "vlan_id": "",
    "vrf_name": "None",
    "sharedNetwork": "None",
    "description": "test",
    "primary_domain": "qa.com",
    "routerAddress": "10.1.10.1",
    "organization_name": "QAOrg",
    "primary_dhcp_server_address": "QA-Remote",
    "template_name": "option-temp"
  },
  "address": ["10.1.10.0"]
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>required</i>	Subnet update/multi update operation	<a href="#">Multi Subnet Request</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3084: Subnet update failed as DHCP server is being dis-associated when there is a template, TIMS-3085: Please select a DHCP Appliance, TIMS-3086: Subnet update failed as DHCP option template is being disassociated when there is a server, TIMS-2018: Subnet group information does not exist, TIMS-5035: DHCP Template does not exist: <DHCP Template Name>, TIMS-2016: Subnet does not exist: <Subnet Address>, TIMS-1505: Location information does not exist, TIMS-1321: Domain does not exist: <Domain Name>, TIMS-1449: Cannot associate a restricted domain : <Domain Name> to the subnet, TIMS-3125: Subnet update failed as DHCP Appliance or DHCP Template cannot be dis-associated as there are scopes/M-DHCP definitions in this subnet, TIMS-3058: DHCP Appliance does not exist: <DHCP Appliance Name>, TIMS-7004: Please select a DHCP Template., TIMS-10113: The selected template does not have the views managed by this zone.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.137.7. Subnet Details

GET /subnet/get

#### Description

Returns the Subnet details that has the DHCP Profile, Primary Router, Subnet Group, VLAN and Domain information for a given subnet.

The example listed below shows a sample request URL:

```
/rest/subnet/get?address=10.0.0.0&organizationName=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	address <i>required</i>	Subnet Address	string	
Query	organizationName <i>required</i>	Organization Name	string	
Query	subnet_id <i>optional</i>	Subnet ID	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Subnet Information</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.137.8. Subnet Details

```
GET /subnet/getSubnetData
```

#### Description

Provides the details of subnets for the specified subnet address or object address in the given organization.

The example listed below shows a sample request URL:

/rest/subnet/getSubnetData?org\_name=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>obj_ip</b> <i>optional</i>	Object Address (In case of subnet address is not given)	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>subnet_address</b> <i>optional</i>	Subnet Address (In case of object address is not given)	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Subnet Information</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.137.9. Subnet Details

```
GET /subnet/getSubnetDetails
```

#### Description

Provides the details of a specified subnet in a network defined in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/subnet/getSubnetDetails?subnet\_address=10.0.0.0&org\_name=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_name</b> <i>required</i>	Organization name	string	
Query	<b>subnet_address</b> <i>required</i>	Subnet Address	string	
Query	<b>subnet_id</b> <i>optional</i>	Subnet ID	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Subnet Information</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.137.10. Subnet Details

```
GET /subnet/getViewsAssociated
```

#### Description

Provides the details of associated views in subnet defined in the TCPWave IPAM.

The example listed below shows a sample request URL:  
 /rest/subnet/getViewsAssociated?subnetAddress=10.0.0.0&organizationName=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>id</b> <i>optional</i>	Subnet ID	integer(int32)	
Query	<b>organizationName</b> <i>required</i>	Organization Name	string	
Query	<b>subnetAddress</b> <i>required</i>	Subnet Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">SubnetViews</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.137.11. Get Subnet

```
GET /subnet/ip/{address}/{organization_name}
```

#### Description

Retrieves the subnet information based on the Network IP address and Organization specified in the TCPWave IPAM. The example listed below shows a sample request URL:  
 /rest/subnet/ip/10.0.0.0/Internal

#### Parameters

Type	Name	Description	Schema	Default
Path	<b>address</b> <i>required</i>	Network IP Address	string	
Path	<b>organization_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Subnet Information</a>
500	TIMS-2016: Subnet does not exist: <Subnet Address>	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.137.12. Template List all params

```
GET /subnet/list-dhcp-params
```

#### Description

Provides a list of DHCP Options configured for the given subnet Address. The example listed below shows a sample request URL:  
 /rest/subnet/list-dhcp-params?subnetAddress=10.1.0.0&organization\_name=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>displayAllOptions</b> <i>optional</i>	Display override options	boolean	
Query	<b>organizationName</b> <i>required</i>	Organization Name	string	
Query	<b>subnetAddress</b> <i>required</i>	Subnet Address	string	

#### Responses

HTTP Code	Description	Schema



HTTP Code	Description	Schema
200	successful operation	< string, < <a href="#">Parameters Information</a> > array > map
500	TIMS-1354: The organization does not exist.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.137.13. Free Subnet List

```
GET /subnet/listFreeSubnets
```

#### Description

Provides list of all available free subnets in a Network present in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/subnet/listFreeSubnets?ip_address=10.0.0.0&organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip_address</b> <i>required</i>	Network IP Address	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Subnet Information</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.137.14. Subnet Range List

```
GET /subnet/listinrange
```

#### Description

Provides the list of all the subnets available in specified range in a Network in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/subnet/listinrange?network_ip=10.0.0.0&start_subnet=1&end_subnet=20&organizationName=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>end_subnet</b> <i>required</i>	Page Length	string	
Query	<b>network_ip</b> <i>required</i>	Network IP Address	string	
Query	<b>organizationName</b> <i>required</i>	Organization Name	string	
Query	<b>start_subnet</b> <i>required</i>	Start Page Number	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Subnet Information</a> > array
500	TIMS-3101: Network does not exist: <Network Address>, TIMS-2016: Subnet does not exist: <Subnet Address>	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.137.15. Subnet Merge

POST /subnet/merge

##### Description

Merges two or more subnets into a subnet of a greater size/ desired mask length. Note: The DHCP Definitions for the subnets have to be redone after the merge.

Sample payload with mandatory parameters to merge subnet is listed below.

```
{ "address":["10.0.0.0","10.128.0.0"], "subnet":{"primary_domain":"kiran.com", "routerAddress":"10.0.0.1",
"mask_length":"8", "network_address":"10.0.0.0",
"merge_subnet_start_ip":"10.0.0.0","merge_subnet_end_ip":"10.128.0.0","organization_name":"QAOrg"}}
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Multiple subnet entities for subnet merge	<a href="#">Multi Subnet Request</a>	

##### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml

#### 4.137.16. Subnet Add Multiple

POST /subnet/multiadd

##### Description

Creates multiple subnets by checking if they overlap with the existing subnets in the TCPWave IPAM.

The allowed subnet types are (1)Non-DHCP (2)DHCP Enabled (3)Cloud Hosted

Non-DHCP subnet type can be used to create static objects. DHCP Enabled subnet type is used to create DHCP objects along with static objects and Cloud Hosted subnet type is used to create cloud instances.

When Non-DHCP subnet type is selected, the parameters primary\_domain and routerAddress are mandatory.

When DHCP Enabled subnet type is selected,primary\_domain, routerAddress, template\_name and primary\_dhcp\_server are mandatory.

When Enable Discovery is set to yes,The Objects present in the subnet will be eligible for discovery.If Enable Discovery is yes then discovery\_template is mandatory field.

When Enable Reclaim is set to yes,The objects present in the subnet will be eligible for reclaim validation and the objects that are not pingable in the reclaim period from the current time will be eligible for reclaim.

Sample payloads with mandatory parameters to add a subnet are listed below.

##### Create NON-DHCP Subnet:

```
{ "address":["10.64.0.0","10.128.0.0"],"nw_mask_length":24,"subnet":{"network_address":"10.0.0.0",
"mask_length":"12","organization_name":"QAOrg", "router_option":"First IP in the subnet","primary_domain":"qa.com"}}
```

##### Create DHCP-Enabled Subnet:

```
{ "address":["10.64.0.0","10.128.0.0"],"nw_mask_length":24,"subnet":{"network_address":"10.0.0.0",
"mask_length":"12","organization_name":"QAOrg", "router_option":"First IP in the subnet","primary_domain":"qa.com",
"template_name":"dhcp_option_template","primary_dhcp_server":"TCPWave00002Remote"}}
```

##### Create Cloud Hosted Subnet:

```
{ "address":["10.64.0.0","10.128.0.0"],"nw_mask_length":24,"subnet":{"network_address":"10.0.0.0",
"mask_length":"12","organization_name":"QAOrg", "router_option":"First IP in the subnet","primary_domain":"qa.com",
"cloudProviderName":"cloudflare" }}
```

##### Create subnet with Enable Discovery:

```
{ "address":["10.64.0.0","10.128.0.0"],"nw_mask_length":24,"subnet":{"network_address":"10.0.0.0",
"mask_length":"12","organization_name":"QAOrg", "router_option":"First IP in the subnet","primary_domain":"qa.com",
"enable_discovery":"yes", "discovery_template":"Default Discovery Template"}}
```

##### Create subnet with Enable Reclaim:

```
{ "address":["10.64.0.0","10.128.0.0"],"nw_mask_length":24,"subnet":{"network_address":"10.0.0.0",
"mask_length":"12","organization_name":"QAOrg", "router_option":"First IP in the subnet","primary_domain":"qa.com",
"reclaim_objects":"yes", "discovery_template":"Default Discovery Template"}}
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Multiple subnets details	<a href="#">Multi Subnet Request</a>	

##### Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
500	TIMS-2008: Both Network address and id cannot be null, TIMS-3101: Network does not exist: <Network Address>, TIMS-1355: Organization id is null, TIMS-1321: Domain does not exist: <Domain Name>, TIMS-1449: Cannot associate a restricted domain : <Domain Name> to the subnet, TIMS-5001: Template already exists, TIMS-2018: Subnet group information does not exist, TIMS-1505: Location information does not exist, TIMS-5035: DHCP Template does not exist: <DHCP Template Name>, TIMS-3058: DHCP Appliance does not exist: <DHCP Appliance Name>, TIMS-7004: Please select a DHCP Template.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.137.17. Subnet list page

```
GET /subnet/paged
```

#### Description

Retrieves the detailed list of subnets of the specified network in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/subnet/paged?
```

```
network_address=10.0.0.0&org_name=Internal&draw=3&start=0&length=20&sort=fullAddress&order=asc&filterRules=[]
```

#### Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>	Session token for authorization	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>network_address</b> <i>required</i>	Network Address	string	
Query	<b>order</b> <i>optional</i>	Order String	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Start Page Number	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSubnet Information</a>
500	TIMS-3001: An object exists at the given address. Please select an unallocated address, TIMS-3004: Cannot add an object at subnet boundary.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.137.18. Router Details

```
GET /subnet/routers
```

#### Description

Provides the list of Router Objects that are defined in a given subnet.

Below are the sample query parameter values accepted:

```
/rest/subnet/routers?subnet_address=10.0.0.0&org_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_name</b> <i>required</i>	Organization name	string	
Query	<b>subnet_address</b> <i>required</i>	Subnet Address	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Subnet Information</a> > > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.137.19. Subnet Split

POST /subnet/split

#### Description

Splits a given subnet and creates two or more smaller subnets of a desired mask length. Note: The DHCP Definitions of the subnet that is being split are removed after the split is effective.

Sample payload with mandatory parameters to split a subnet is listed below.

```
{ "mask_length": "16", "router_option": "First IP in the subnet", "organization_name": "QAOrg", "fullAddress": "10.0.0.0" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Subnet entity for split operation	<a href="#">Subnet Information</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3088: Server IP address is null, TIMS-2015: Subnet does not exist, TIMS-2017: Choose a mask length greater than <Mask Length>	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.138. Subnet Template Service

#### Description

This service provides API's to manage Subnet Templates in the TCPWave IPAM.

#### 4.138.1. Subnet Template Add

POST /subnet\_template/add

#### Description

Creates a new Subnet Template that can be used during creation of subnets in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "name": "qa-subnet template", "organizationName": "QAOrg", "primaryDomain": "qa.com", "dhcpServerAddress": "10.1.10.87", "dhcpOptionTemplateName": "option-temp", "subnetType": 1, "routerOption": "first", "description": "Testing creation using REST API", "addressAllocationList": [{ "startOffset": 2, "endOffset": 5, "classCode": "Server", "allocationType": 1, "domain": "qa.com", "ttl": 1200 }, { "startOffset": 13, "endOffset": 15, "classCode": "Server", "allocationType": 2, "domain": "qa.com", "clientClassAllow": "c24", "ttl": 1200 } ] }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Subnet Template details.	<a href="#">Subnet Template</a>	

#### Responses

HTTP Code	Description	Schema
-----------	-------------	--------

HTTP Code	Description	Schema
500	TIMS-1020: Organization does not exist, TIMS-7003: You are not authorized to perform this operation, TIMS-5006: Template already exists: <Template Name>, TIMS-11057: Invalid router option specified.	No Content

#### Consumes

- application/json
- application/xml

#### 4.138.2. Subnet Template Delete

```
POST /subnet_template/delete
```

#### Description

Deletes the Subnet Template.

The example listed below shows a sample request URL:

/rest/subnet\_template/delete?name=templateName&org\_name=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Name	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Subnet Template</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain
- application/json

#### Produces

- application/json
- application/xml

#### 4.138.3. Subnet Template Get

```
GET /subnet_template/details
```

#### Description

Fetches the details of a subnet template.

The example listed below shows a sample request URL:

/rest/subnet\_template/details?org\_name=Internal&name=testtemplate

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Name	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Subnet Template</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.138.4. Update Subnet Template

```
POST /subnet_template/edit
```

#### Description

Update an existing Subnet Template that can be used during creation of subnets in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "name": "test_template1", "oldName": "test_template1", "organizationName": "Internal", "primaryDomain": "tcpwave.com", "dhcpServerName": "DHCPAppliance1", "dhcpServerAddress": "192.0.0.32", "dhcpOptionTemplateName": "Template1", "subnetType": 1, "cloudProvider": "testAWS", "routerOption": "first", "description": "string", "contact_name": "string", "first_name": "string", "middle_name": "string", "last_name": "string", "contact_email_id": "string", "location_name": "string", "street1": "string", "street2": "string", "city": "string", "state": "string", "country": "string", "zip": "string", "sharedNetwork": "shared_network2", "dhcpFailoverPeer": "nusartx-dp", "vrf_name": "network4_vrf", "enable_discovery": "Yes/No", "discovery_template": "DiscoveryTemp1", "reclaim_objects": "Yes/No", "subnet_group_name": "string", "addressAllocationList": [ { "id": 1, "startOffset": 10, "endOffset": 20, "v6StartOffset": 10, "v6EndOffset": 20, "classCodeId": 1, "classCode": "3G Phone", "allocationType": 1, "domainId": 1, "domain": "tcpwave.com", "clientClassAllowId": 1, "clientClassAllow": "ClientClass1", "clientClassDenyId": 1, "clientClassDeny": "ClientClass2", "userClassAllowId": 1, "userClassAllow": "Userclass1", "userClassDenyId": 1, "userClassDeny": "Userclass2", "vendorClassAllowId": 1, "vendorClassAllow": "vendorclass1", "vendorClassDenyId": 1, "vendorClassDeny": "vendorclass2", "ttl": 1200, "resExpiryDate": "3/18/2018 4:37" } ] }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Subnet Template details.	<a href="#">Subnet Template</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1020: Organization does not exist, TIMS-7003: You are not authorized to perform this operation, TIMS-5006: Template already exists: {Template Name}, TIMS-11057: Invalid router option specified.	No Content

#### Consumes

- application/json
- application/xml

#### 4.138.5. List Subnet Template Search elements

```
GET /subnet_template/getAddressAllocation
```

#### Description

Returns a list of subnet template searched by User in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/subnet_template/getAddressAllocation?organization_name=Internal&name=testtemplate
```

#### Parameters

Type	Name	Description	Schema	Default
Header	<b>TIMS-Session-Token</b> <i>optional</i>		string	
Query	<b>id</b> <i>optional</i>	Subnet Template Id	integer(int32)	
Query	<b>name</b> <i>required</i>	Subnet Template name	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Address Allocation</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.138.6. Subnet Template List

```
GET /subnet_template/list
```

#### Description

Fetches the list of subnet templates.

The example listed below shows a sample request URL:

```
/rest/subnet_template/list?organizations=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	organizations	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Subnet Template</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

## Consumes

- text/plain

## Produces

- application/json
- application/xml

### 4.138.7. Subnet Template List By Organization

```
GET /subnet_template/p_listbyorg
```

## Description

Obtains a list of all subnet templates that are associated to a specified Organization.

The example listed below shows a sample request URL:

```
/rest/subnet_template/p_listbyorg?start=1&org_name=Internal&length=20&inSubnetEdit=
```

## Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>inSubnetEdit</b> <i>required</i>	In Subnet Edit	string	
Query	<b>length</b> <i>required</i>	Ending Subnet Template Range	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sorting Order(asc/desc)	string	
Query	<b>org_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>q</b> <i>required</i>	Match Value	string	
Query	<b>sort</b> <i>optional</i>	Sorting String	string	
Query	<b>start</b> <i>required</i>	Starting Subnet Template Range	integer(int32)	

## Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSubnet Template</a>
500	TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Organization does not exist:<Organization Name>	No Content

## Consumes

- text/plain

## Produces

- application/json
- application/xml

### 4.138.8. List Subnet Template Search elements

```
GET /subnet_template/search
```

## Description

Returns a list of subnet template searched by User in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/subnet_template/search?start=1&length=20
```

## Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Header	TIMS-Session-Token <i>optional</i>		string	
Query	draw <i>optional</i>	Page Draw Param	integer(int32)	
Query	filterRules <i>optional</i>	Filter String	string	
Query	length <i>required</i>	Page Length	integer(int32)	
Query	order <i>optional</i>	Sort Order(asc/desc)	string	
Query	organizations <i>optional</i>	Organization Names	string	
Query	sort <i>optional</i>	Sort String	string	
Query	start <i>required</i>	Starting Subnet_Template Object Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSubnetTemplate</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

### 4.139. Switch Discovery Details Service

#### Description

This service provides APIs to get the discovery results of Switch such as Switch information, Devices, Vlans, Duplex and Ports.

#### 4.139.1. Deletes switch results

```
POST /daswitch/deleteSwitches
```

#### Description

This service call deletes switch information.

Below example shows sample request JSON:

```
[ "10.0.0.3"
```

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>required</i>	Array of switch IP addresses	< string > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3501: Unable to retrieve the discovery commands list.	No Content

#### Consumes

- application/json

#### 4.139.2. Element Details

```
GET /daswitch/elementpage
```

#### Description

Lists all the elements discovered for the selected switch in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/daswitch/elementpage?switchIP=10.0.0.2&cmdId=TDCE_20220422123start=1&length=20&switchIP=20.0.0.3
```

#### Parameters

Type	Name	Description	Schema	Default
Query	cmdId <i>required</i>	Command Id	string	
Query	draw <i>optional</i>	Page Draw Param	integer(int32)	



Type	Name	Description	Schema	Default
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Switch Element Range	integer(int32)	
Query	<b>switchIP</b> <i>required</i>	Switch IPAddress	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSwitchElement Details</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.139.3. Interface Details

GET /daswitch/interfacepage

#### Description

Lists all the interfaces discovered for the selected switch in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/daswitch/interfacepage?switchIP=10.0.0.2&cmdId=TDCE\_20220422123start=1&length=20&switchIP=20.0.0.3

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command Id	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Port Range	integer(int32)	
Query	<b>switchIP</b> <i>required</i>	Switch IPAddress	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListPortDetails</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.139.4. Element Details

```
GET /daswitch/switchDetailsByElementIp
```

##### Description

Get the switch details for the selected switch element in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/daswitch/switchDetailsByElementIp?switchIP=10.0.0.3
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>elementIp</b> <i>required</i>	Switch Element IP Address	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Switch Details</a> > array

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml

#### 4.139.5. Switch Details

```
GET /daswitch/switchdetails
```

##### Description

Gets the switch details for a switch discovered in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/daswitch/switchdetails?switchIP=10.0.0.2&cmdId=TDCE_20220422123&start=1&length=20&switchIP=20.0.0.3
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command ID	string	
Query	<b>switchIP</b> <i>required</i>	Switch IP	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Switch Details</a>

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.139.6. Switch Details

```
GET /daswitch/switchpage
```

##### Description

Lists all the switches discovered in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/daswitch/switchpage?start=1&length=20
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	

Type	Name	Description	Schema	Default
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Switch Discovery Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSwitchDetails</a>

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.139.7. Element Details

```
GET /daswitch/vlan/subnetelementpage
```

#### Description

Lists all the vlan subnet elements discovered for the selected switch in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/daswitch/vlan/subnetelementpage?
```

```
start=1&length=20&switchIP=20.0.0.3&cmdId=TDCE_2022040412&subnet_ip=10.0.0.0&mask=8
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command Id	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>mask</b> <i>required</i>	Subnet Mask	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Switch Element Range	integer(int32)	
Query	<b>subnet_ip</b> <i>required</i>	Subnet IPAddress	string	
Query	<b>switchIP</b> <i>required</i>	Switch IPAddress	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSwitchVLAN Subnet ElementDetails</a>

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.139.8. Vlan Details

```
GET /daswitch/vlanpage
```

### Description

Lists all the vlans discovered for the selected switch in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/daswitch/vlanpage?switchIP=10.0.0.2&cmdId=TDCE\_20220422123&start=1&length=20

### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command Id	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting VLAN Range	integer(int32)	
Query	<b>switchIP</b> <i>required</i>	Switch IPAddress	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListVlanDetails</a>

### Consumes

- text/plain

### Produces

- application/json
- application/xml

### 4.139.9. Vlan Details

```
GET /daswitch/vlansubnet
```

### Description

Lists all the vlans discovered for the selected switch in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/daswitch/vlansubnet?switchIP=10.0.0.2&cmdId=TDCE\_20220422123&start=1&length=20

### Parameters

Type	Name	Description	Schema	Default
Query	<b>cmdId</b> <i>required</i>	Command Id	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting VLAN Subnet Range	integer(int32)	
Query	<b>switchIP</b> <i>required</i>	Switch IP Address	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListVlan Subnet Details</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.139.10. Deletes switch results

POST /switchdisco/deleteSwitches

#### Description

This service call deletes switch information.

Below example shows sample request JSON:

[ "10.0.0.3" ]

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Array of switch IP addresses	< string > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3501: Unable to retrieve the discovery commands list.	No Content

#### Consumes

- application/json

#### 4.139.11. Element Details

GET /switchdisco/elementpage

#### Description

Lists all the elements discovered for the selected switch in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/switchdisco/elementpage?start=1&length=20&switchIP=20.0.0.3

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Switch Element Range	integer(int32)	
Query	<b>switchIP</b> <i>required</i>	Switch IPAddress	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSwitch Element Details</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.139.12. Interface Details

GET /switchdisco/interfacepage

##### Description

Lists all the interfaces discovered for the selected switch in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/switchdisco/interfacepage?start=1&length=20&switchIP=20.0.0.3

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Port Range	integer(int32)	
Query	<b>switchIP</b> <i>required</i>	Switch IPAddress	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListPort Details</a>

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.139.13. Switch Details

GET /switchdisco/switchdetails

##### Description

Gets the switch details for a switch discovered in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/switchdisco/switchdetails?switchIP=10.0.0.3

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>switchIP</b> <i>required</i>	Switch IP	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Switch Details</a>

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.139.14. Switch Details

GET /switchdisco/switchpage

##### Description

Lists all the switches discovered in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/switchdisco/switchpage?start=1&length=20

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Switch Discovery Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListSwitch Details</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.139.15. Vlan Details

```
GET /switchdisco/vlanpage
```

#### Description

Lists all the vlans discovered for the selected switch in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/switchdisco/vlanpage?start=1&length=20
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting VLAN Range	integer(int32)	
Query	<b>switchIP</b> <i>required</i>	Switch IPAddress	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListVlan Details</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.140. Template Service

#### Description

This service provides API's to get list of Templates present in the TCPWave IPAM, add Templates, update Templates, delete Templates, search for a Template in the TCPWave IPAM.

#### 4.140.1. Template List all params

```
GET /doh/list-all/params
```

#### Description

Provides a list of DHCP Options configured in a given Option Template as well as all the DHCP Options supported by the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/templates/list-all/params?
```

```
template_name=testTemplate&server_type=DNS&entity_type=OPTION&organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>entity_type</b> <i>required</i>	Entity Type	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>server_type</b> <i>required</i>	Appliance Type	string	
Query	<b>template_id</b> <i>required</i>	Template Id	integer(int32)	
Query	<b>template_name</b> <i>required</i>	Template Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Template</a>
500	TIMS-5031: Both template name and id cannot be null, TIMS-5041: Template does not exist with name=<Given Template Name>	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.140.2. Template List Data Types

```
GET /doh/list-datatypes
```

#### Description

Lists the Data Types for the given Template in the TCPWave IPAM. Functional Admin can list Data Types of a Template in any organization. Rest of the Admins gets this provision for the organizations that they are associated with.

The example listed below shows a sample request URL:

```
/rest/templates/list-datatypes?datatype_flag=
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>datatype_flag</b> <i>required</i>	Data Type	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Data Types</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.140.3. DNS Over HTTP Template DNS Params List

```
GET /doh/list/dnsparams
```

#### Description

Lists all the DNS Over HTTP Template parameters and their values for the given Appliance type (BIND AUTH or BIND CACHE or UNBOUND or DNS Proxy) in the TCPWave IPAM. Functional Admin can list all the params for the given DNS Appliance type for any organization. Rest of the admins can list the params for the given DNS Appliance type only for



the organizations that they are associated with.

The example listed below shows a sample request URL:

/rest/templates/list/dnsparams?

template\_id=1234&template\_name=testTemplate&entity\_type\_code=DOH&server\_type\_code=1274&organization\_name=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>entity_type_code</b> <i>required</i>		string	
Query	<b>organization_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>server_type_code</b> <i>required</i>	Appliance Type Code	string	
Query	<b>template_id</b> <i>required</i>	Id of the Template	integer(int32)	
Query	<b>template_name</b> <i>required</i>	Name of the Template	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Template</a> > array
500	TIMS-7003: You are not authorized to perform this operation, TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-5040: Template does not exist with name=<Given Template Name> and Appliance Type=<Given Appliance Type>	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.140.4. Template Params List By Name

```
GET /doh/list/paramsbyname/{template_name}
```

#### Description

Provides a list of DHCP Options configured in a given Option Template as well as all the DHCP Options supported by the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/templates/list/paramsbyname/testTemplate

#### Parameters

Type	Name	Description	Schema	Default
Path	<b>template_name</b> <i>required</i>	Template Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Parameters Information</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.140.5. Template List DNS Appliances

```
GET /doh/listdnsservers
```

#### Description

Lists all the DNS Appliances for the given Entity type and organization in the TCPWave IPAM. Functional Admin can list DNS Appliances for the given organization in any organization. Rest of the Admins gets this provision for the organizations that they are associated with.

The example listed below shows a sample request URL:

/rest/templates/listdnsservers

#### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Query	<b>organization_id</b> <i>optional</i>	Organization Id	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Server Information</a> > array
500	TIMS-1352: Organization does not exist: <Given Organization Name>	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.140.6. Template Page

```
GET /doh/page/{server_type_code}/{entity_type_code}
```

#### Description

Lists all the Templates with pagination for the given Appliance type code and Entity type code associated with an organization in the TCPWave IPAM. Functional Admin can list the Templates for any organization. Rest of the admins can list the Templates only for the organizations that they are associated with.

The example listed below shows a sample request URL:

```
/rest/templates/page/DNS%20PROXY/OPTION?start=1&length=20&organization_name=Internal&inEdit=
```

#### Parameters

Type	Name	Description	Schema	Default
Path	<b>entity_type_code</b> <i>required</i>	Entity Type Code	string	
Path	<b>server_type_code</b> <i>required</i>	Appliance Type Code	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>inEdit</b> <i>required</i>	In Edit	integer(int32)	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>q</b> <i>optional</i>	Match Value	string	
Query	<b>reference_id</b> <i>optional</i>	Reference Id	integer(int32)	
Query	<b>reference_type</b> <i>required</i>	Reference Type	string	
Query	<b>start</b> <i>required</i>	Starting Template Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListTemplate Selection Data</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.140.7. Template Search

```
GET /doh/params-name/search
```

#### Description

Searches for a given Template in the TCPWave IPAM based on a full text input.

The example listed below shows a sample request URL:  
`/rest/templates/params-name/search?start=1&length=20`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organizations	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Template Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListTemplate</a>

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.140.8. Template Search

```
GET /doh/params-value/search
```

#### Description

Searches for a given Template in the TCPWave IPAM based on a full text input.  
The example listed below shows a sample request URL:  
`/rest/templates/params-value/search?start=1&length=20`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Template Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListTemplate</a>

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.140.9. Template Search

```
GET /doh/search
```

#### Description

Searches for a given Template in the TCPWave IPAM based on a full text input.

The example listed shows a sample request URL:  
 /rest/templates/search?start=1&length=20

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>required</i>	Organization List	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Template Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListTemplate</a>

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.140.10. Template Create

```
POST /doh/template/create
```

#### Description

Create a new Template in the TCPWave IPAM and performs a sanity check to make sure that the parameters defined in the template have valid values in it Failing which, the update will be discarded by the TCPWave IPAM. On success, An incremental update is sent to all the DHCP Appliances that are governed with this policy template.

Below example shows sample request JSON:

```
{
  "template_name": "qa-zone-
  template",
  "description": "",
  "entity_type_code": "ZONE",
  "server_type_code": "GENERICDNS",
  "organization_name": "QAOrg",
  "array_templates":
  [{"param_name": "email-addr", "value": "a@a.com"}, {"param_name": "default-ttl", "numeric_value": "1200"},
  {"param_name": "refresh", "numeric_value": "21600"}, {"param_name": "retry", "numeric_value": "3600"},
  {"param_name": "expire", "numeric_value": "604800"}, {"param_name": "negative-cache-ttl", "numeric_value": "86400"},
  {"param_name": "serial", "value": "DATE"}, {"param_name": "allow-notify", "aclList":
  [{"exclude": "0", "value": "10.1.10.87", "sequence": 1}], {"param_name": "allow-query", "aclList": null}, {"param_name": "also-
  notify", "aclList": null}, {"param_name": "allow-transfer", "aclList": null}, {"param_name": "allow-update", "aclList": null},
  {"param_name": "master-dns-servers", "value": "10.1.10.87"}, {"param_name": "slave-dns-servers", "value": ""},
  {"param_name": "customAcls", "value": ""}, {"param_name": "windows_dns_servers", "value": "10.1.1.1"}]}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Template details	<a href="#">Template</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-5001: Template already exists, TIMS-5002: Template name already exists in DNS Option Templates, TIMS-5003: Template name already exists in DHCP Option Templates, TIMS-5004: Template name already exists in DNS Zone Templates, TIMS-5005: Template name already exists in DHCP Policy Templates, TIMS-7003: You are not authorized to perform this operation, TIMS-5011: Parameter does not exist: <Given Parameter Name>, TIMS-2005: ACL is not valid : <Given ACL Name> for option param: <Given Parameter Name>	No Content

#### Consumes

- `application/json`
- `application/xml`

#### 4.140.11. DNS Over HTTP Template DNS Params List

```
GET /doh/template/info
```

#### Description

Lists all the Option Template parameters and their values for the given Appliance type (BIND AUTH or BIND CACHE or UNBOUND or DNS Proxy) in the TCPWave IPAM. Functional Admin can list all the params for the given DNS Appliance type for any organization. Rest of the admins can list params for the given DNS Appliance type only for the organizations that they are associated with.  
 The example listed below shows a sample request URL:  
 /rest/templates/list/dnsTemplateInfo?  
 template\_id=1234&template\_name=testTemplate&entity\_type\_code=OPTION&server\_type\_code=1274&organization\_name=Internal

**Parameters**

Type	Name	Description	Schema	Default
Query	<b>entity_type_code</b> <i>required</i>		string	
Query	<b>organization_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>server_type_code</b> <i>required</i>	Appliance Type Code	string	
Query	<b>template_id</b> <i>required</i>	Id of the template	integer(int32)	
Query	<b>template_name</b> <i>required</i>	Name of the template	string	

**Responses**

HTTP Code	Description	Schema
200	successful operation	<a href="#">Template information</a>
500	TIMS-7003: You are not authorized to perform this operation, TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-5040: Template does not exist with name=<Given Template Name> and Appliance Type=<Given Appliance Type>	No Content

**Consumes**

- text/plain

**Produces**

- application/json
- application/xml

**4.140.12. DNS Over HTTP Template List**

```
GET /doh/template/list/{server_type_code}/{entity_type_code}
```

**Description**

Lists all the DoH Templates for the given Appliance type code and Entity type code in the TCPWave IPAM. Functional Admin can list Templates in any organization. Rest of the Admins gets this provision for the organizations that they are associated with.  
 The example listed below shows a sample request URL:  
 /rest/templates/list/DNS%20PROXY/OPTION?start=1&length=20&organizations=Internal

**Parameters**

Type	Name	Description	Schema	Default
Path	<b>entity_type_code</b> <i>required</i>	Entity Type Code	string	
Path	<b>server_type_code</b> <i>required</i>	Appliance Type Code	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organizations	string	
Query	<b>reference_id</b> <i>optional</i>	Reference Id	integer(int32)	
Query	<b>reference_type</b> <i>required</i>	Reference Type	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	

Type	Name	Description	Schema	Default
Query	<b>start</b> <i>required</i>	Starting Template Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListTemplate</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain
- application/json

#### Produces

- application/json
- application/xml

#### 4.140.13. DNS Over HTTP Template Delete

```
POST /doh/template/names/delete
```

#### Description

Deletes an existing DNS Over HTTP Template in the TCPWave IPAM. Functional Admin can delete a Zone or Option Template for any organization. Rest of the admins can delete a Zone or Option Template only for the organizations that they are associated with.

Below example shows sample request JSON:

```
{ "template_name": "qa-zone-template1", "organization_name": "QAOrg" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">Template</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Cannot find organization: <organization name>, TIMS-7003: You are not authorized to perform this operation, TIMS-5020: Template does not exist:<Template Name>, TIMS-5012: Default template cannot be deleted: <Template Name>, TIMS-5015: Template delete failed as one or more Appliances are using this template, TIMS-5016: Template delete failed as one or more zones are using this template, TIMS-5017: Template delete failed as one or more subnets are using this template, TIMS-5018: Template delete failed as one or more scopes are using this template, TIMS-5019: Template delete failed as one or more DHCP objects are using this template.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.140.14. Zone Template Update

```
POST /doh/template/update
```

#### Description

Updates an existing Template in the TCPWave IPAM and performs a sanity check to make sure that the parameters defined in the template have valid values in it Failing which, the update will be discarded by the TCPWave IPAM. On success, An incremental update is sent to all the DHCP Appliances that are governed with this policy template.

Below example shows sample request JSON:

```
{ "template_name": "qa-zone-template1", "old_template_name": "qa-zone-template", "description": "", "customAcls": "", "entity_type_code": "ZONE", "server_type_code": "GENERICDNS", "organization_name": "QAOrg", "array_templates": [{"param_name": "email-addr", "value": "a@a.com"}, {"param_name": "default-ttl", "numeric_value": "1200"}, {"param_name": "refresh", "numeric_value": "21600"}, {"param_name": "retry", "numeric_value": "3600"}, {"param_name": "expire", "numeric_value": "604800"}, {"param_name": "negative-cache-ttl", "numeric_value": "86400"}, {"param_name": "serial", "value": "DATE"}, {"param_name": "allow-notify", "aclList": [{"exclude": "0", "value": "10.1.10.87", "sequence": 1}], {"param_name": "allow-query", "aclList": null}, {"param_name": "also-notify", "aclList": null}, {"param_name": "allow-transfer", "aclList": null}, {"param_name": "allow-update", "aclList": null}, {"param_name": "master-dns-servers", "value": "10.1.10.87"}, {"param_name": "slave-dns-servers", "value": ""}] }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Template</a>	

## Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-5020: Template does not exist:<Template Name>, TIMS-1020: Both Organization name and id cannot be null, TIMS-7003: You are not authorized to perform this operation, TIMS-5001: Template already exists, TIMS-5002: Template name already exists in DNS Option Templates, TIMS-5003: Template name already exists in DHCP Option Templates, TIMS-5004: Template name already exists in DNS Zone Templates, TIMS-5005: Template name already exists in DHCP Policy Templates, TIMS-5028: Template does not exist, TIMS-2005: ACL is not valid : <Given ACL Name> for option param: <Given Parameter Name>, TIMS-5011: Parameter does not exist: <Given Parameter Name>, TIMS-1422: Zone does not exist:<Zone Name>, TIMS-3088: Appliance IP address is null, TIMS-3090: Both Appliance id and name cannot be null, TIMS-3092: Appliance does not exist.	No Content

## Consumes

- application/json
- application/xml

### 4.140.15. DNS Template List

```
GET /doh/templates/list
```

## Description

Provides the list of all Zone Templates or Option Templates for the given Entity type defined in the TCPWave IPAM. Functional Admin can view the list of all Zone templates or Option Templates for the given Entity type in any organization. The other Admins can view only the list all the Zone templates or Option Templates for the given Entity type associated with the organization that they belong to.

The example listed below shows a sample request URL:

```
/rest/templates/dnstemplatelist
```

## Parameters

Type	Name	Description	Schema	Default
Query	<b>entity_type_code</b> <i>required</i>	Entity Type Code	string	
Query	<b>inEdit</b> <i>optional</i>	In Edit	integer(int32)	
Query	<b>organizations</b> <i>optional</i>	Organization List	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Template</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

## Consumes

- text/plain

## Produces

- application/json
- application/xml

### 4.140.16. Zone Template Parameter List

```
GET /doh/zoneparams
```

## Description

Lists all the parameters and their values for the given Zone Template in the TCPWave IPAM. Functional Admin can list parameters and their values for the given Zone Template in any organization. Rest of the Admins gets this provision for the organizations that they are associated with.

The example listed below shows a sample request URL:

```
/rest/templates/zoneparams?organization_name=Internal
```

## Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>template_name</b> <i>required</i>	Template Name	string	

## Responses

HTTP Code	Description	Schema
-----------	-------------	--------

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Template</a> > array
500	TIMS-1352: Cannot find organization: <organization name>, TIMS-1020: Both Organization name and id cannot be null.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.140.17. Template Create

POST /templates/create

#### Description

Create a new Template in the TCPWave IPAM and performs a sanity check to make sure that the parameters defined in the template have valid values in it Failing which, the update will be discarded by the TCPWave IPAM. On success, An incremental update is sent to all the DHCP Appliances that are governed with this policy template.

Below example shows sample request JSON:

```
{
  "template_name": "qa-zone-
  template",
  "description": "",
  "entity_type_code": "ZONE",
  "server_type_code": "GENERICDNS",
  "organization_name": "QAOrg",
  "array_templates":
  [
    {
      "param_name": "email-addr",
      "value": "a@a.com",
      {
        "param_name": "default-ttl",
        "numeric_value": "1200",
        {
          "param_name": "refresh",
          "numeric_value": "21600",
          {
            "param_name": "retry",
            "numeric_value": "3600",
            {
              "param_name": "expire",
              "numeric_value": "604800",
              {
                "param_name": "negative-cache-ttl",
                "numeric_value": "86400",
                {
                  "param_name": "serial",
                  "value": "DATE",
                  {
                    "param_name": "allow-notify",
                    "aclList":
                    [
                      {
                        "exclude": "0",
                        "value": "10.1.10.87",
                        "sequence": 1
                      },
                      {
                        "param_name": "allow-query",
                        "aclList": null,
                        {
                          "param_name": "also-
                          notify",
                          "aclList": null,
                          {
                            "param_name": "allow-transfer",
                            "aclList": null,
                            {
                              "param_name": "allow-update",
                              "aclList": null,
                              {
                                "param_name": "master-dns-servers",
                                "value": "10.1.10.87",
                                {
                                  "param_name": "slave-dns-servers",
                                  "value": "",
                                  {
                                    "param_name": "customAcls",
                                    "value": "",
                                    {
                                      "param_name": "windows_dns_servers",
                                      "value": "10.1.1.1"
                                    }
                                  }
                                }
                              }
                            }
                          }
                        }
                      }
                    ]
                  }
                }
              }
            }
          }
        }
      }
    }
  ]
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	Template details	<a href="#">Template</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-5001: Template already exists, TIMS-5002: Template name already exists in DNS Option Templates, TIMS-5003: Template name already exists in DHCP Option Templates, TIMS-5004: Template name already exists in DNS Zone Templates, TIMS-5005: Template name already exists in DHCP Policy Templates, TIMS-7003: You are not authorized to perform this operation, TIMS-5011: Parameter does not exist: <Given Parameter Name>, TIMS-2005: ACL is not valid : <Given ACL Name> for option param: <Given Parameter Name>	No Content

#### Consumes

- application/json
- application/xml

#### 4.140.18. Delete DHCP Option and Policy Templates

DELETE /templates/delete/dhcpTmpl

#### Description

Checks the Option Templates/Policy Templates by performing referential integrity checks and deletes the templates that are not associated with any subnet or appliance.

Below example shows sample request JSON:

```
{
  "organization_name": "QAOrg1",
  "entity_type_code": "POLICY",
  "template_name": "pol"
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of DHCP templates details	< <a href="#">Template</a> > array	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Template</a> <a href="#">References</a> <a href="#">Information</a> > array



HTTP Code	Description	Schema
500	TIMS-1352: Cannot find organization: <organization name>, TIMS-7003: You are not authorized to perform this operation, TIMS-5020: Template does not exist:<Template Name>, TIMS-5012: Default template cannot be deleted: <Template Name>, TIMS-5015: Template delete failed as one or more Appliances are using this template, TIMS-5016: Template delete failed as one or more zones are using this template, TIMS-5017: Template delete failed as one or more subnets are using this template, TIMS-5018: Template delete failed as one or more scopes are using this template, TIMS-5019: Template delete failed as one or more DHCP objects are using this template.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.140.19. Zone Template Delete

POST /templates/delete/names

#### Description

Deletes an existing Zone or Option Template in the TCPWave IPAM. Functional Admin can delete a Zone or Option Template for any organization. Rest of the admins can delete a Zone or Option Template only for the organizations that they are associated with.

Below example shows sample request JSON:

```
{ "template_name": "qa-zone-template1", "organization_name": "QAOrg" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		< <a href="#">Template</a> > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Cannot find organization: <organization name>, TIMS-7003: You are not authorized to perform this operation, TIMS-5020: Template does not exist:<Template Name>, TIMS-5012: Default template cannot be deleted: <Template Name>, TIMS-5015: Template delete failed as one or more Appliances are using this template, TIMS-5016: Template delete failed as one or more zones are using this template, TIMS-5017: Template delete failed as one or more subnets are using this template, TIMS-5018: Template delete failed as one or more scopes are using this template, TIMS-5019: Template delete failed as one or more DHCP objects are using this template.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.140.20. DHCP Option Template Update

POST /templates/dhcp-option-template-update

#### Description

Updates a DHCP Option Template and performs a sanity check to make sure that the options defined in the template have valid values in it Failing which, the update will be discarded by the TCPWave IPAM. On success, An incremental update is sent to all the DHCP Appliances that have scopes and Manual DHCP Objects associated to the template.

Below example shows sample request JSON:

```
{ "template_name": "dhcp_pol_temp", "old_template_name": "dhcp_pol", "description": "", "entity_type_code": "POLICY", "server_type_code": "DHCP", "array_params": [{"param_name": "default-lease-time", "value": 3600, "data_type": "STRING", "group_name": "standard option"}], "organization_name": "QAOrg" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>required</i>	DHCP option template details	<a href="#">Template</a>	

#### Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-7003: You are not authorized to perform this operation, TIMS-5028: Template does not exist, TIMS-2005: ACL is not valid : <Given ACL Name> for option param: <Given Parameter Name>, TIMS-5001: Template already exists, TIMS-5011: Parameter does not exist: <Given Parameter Name>, TIMS-5021: Template is not updated as there are subnets using this template with different subnet mask, TIMS-5022: The option router is not removed from the template as it is associated with one or more subnets, TIMS-5023: Template is not updated as there are subnets which use this template that do not have a primary router, TIMS-5024: Template is not updated as it is associated with a subnet and the option router does not belong to the corresponding subnet, TIMS-5026: Template is not updated as there is no router defined with the address: <New Router Value>	No Content

#### Consumes

- application/json
- application/xml

#### 4.140.21. DHCP Policy Template Update

POST /templates/dhcp-policy-template-update

#### Description

Updates a DHCP Policy Template and performs a sanity check to make sure that the parameters defined in the template have valid values in it Failing which, the update will be discarded by the TCPWave IPAM. On success, An incremental update is sent to all the DHCP Appliances that are governed with this policy template.

Below example shows sample request JSON:

```
{
  "template_name": "Test Policy",
  "old_template_name": "Test Policy",
  "description": "",
  "entity_type_code": "POLICY",
  "server_type_code": "DHCP",
  "array_params": [
    {
      "name": "default-lease-time",
      "value": "3600",
      "data_type": "STRING"
    }
  ],
  "updated_by": "22290",
  "organization_name": "Internal"
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	DHCP policy template details	<a href="#">Template</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-5011: Parameter does not exist: <Parameter Name>, TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-5020: Template does not exist:<Template Name>, TIMS-1020: Both Organization name and id cannot be null, TIMS-7003: You are not authorized to perform this operation, TIMS-5001: Template already exists, TIMS-5002: Template name already exists in DNS Option Templates, TIMS-5003: Template name already exists in DHCP Option Templates, TIMS-5004: Template name already exists in DNS Zone Templates, TIMS-5005: Template name already exists in DHCP Policy Templates, TIMS-5028: Template does not exist, TIMS-2005: ACL is not valid : <Given ACL Name> for option param: <Given Parameter Name>, TIMS-5011: Parameter does not exist: <Given Parameter Name>, TIMS-1422: Zone does not exist:<Zone Name>, TIMS-3088: Appliance IP address is null, TIMS-3090: Both Appliance id and name cannot be null, TIMS-3092: Appliance does not exist.	No Content

#### Consumes

- application/json
- application/xml

#### 4.140.22. Add DHCP Option and Policy Templates

POST /templates/dhcp-template-create

#### Description

Creates a DHCP Option/Policy Template by performing a sanity check on parameters configured in the template.

Below example shows sample request JSON:

```
{
  "template_name": "option-temp",
  "description": "",
  "entity_type_code": "OPTION",
  "server_type_code": "DHCP",
  "array_params": [
    {
      "display_name": "Subnet Mask (1)",
      "value": "Same as in subnet profile",
      "group_name": "standard option"
    },
    {
      "display_name": "Router (3)",
      "value": "Same as in subnet profile",
      "group_name": "standard option"
    },
    {
      "display_name": "Domain Name (15)",
      "value": "Same as the primary domain in subnet profile",
      "group_name": "standard option"
    }
  ],
  "organization_name": "QAOrg"
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	DHCP template details	<a href="#">Template</a>	

#### Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-7003: You are not authorized to perform this operation, TIMS-5001: Template already exists, TIMS-5011: Parameter does not exist: <Given Parameter Name>	No Content

#### Consumes

- application/json
- application/xml

#### 4.140.23. DNS Template List

```
GET /templates/dnstemplatelist
```

#### Description

Provides the list of all Zone Templates or Option Templates for the given Entity type defined in the TCPWave IPAM. Functional Admin can view the list of all Zone templates or Option Templates for the given Entity type in any organization. The other Admins can view only the list all the Zone templates or Option Templates for the given Entity type associated with the organization that they belong to. The example listed below shows a sample request URL: /rest/templates/dnstemplatelist

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>entity_type_code</b> <i>required</i>	Entity Type Code	string	
Query	<b>inEdit</b> <i>optional</i>	In Edit	integer(int32)	
Query	<b>organizations</b> <i>optional</i>	Organization List	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Template</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.140.24. Zone Template Parameter List

```
GET /templates/getZoneTemplateDetails
```

#### Description

Lists all the parameters and their values for the given Zone Template in the TCPWave IPAM. Functional Admin can list parameters and their values for the given Zone Template in any organization. Rest of the Admins gets this provision for the organizations that they are associated with.

The example listed below shows a sample request URL:

```
/rest/templates/getZoneTemplateDetails?organization_name=Internal&template_name=testTemplate
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>template_name</b> <i>required</i>	Template Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Template information</a>
500	TIMS-1352: Cannot find organization: <organization name>, TIMS-1020: Both Organization name and id cannot be null.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.140.25. Template List all params

GET /templates/list-all/params

##### Description

Provides a list of DHCP Options configured in a given Option Template as well as all the DHCP Options supported by the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/templates/list-all/params?

template\_name=testTemplate&server\_type=DNS&entity\_type=OPTION&organization\_name=Internal

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>entity_type</b> <i>required</i>	Entity Type	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>server_type</b> <i>required</i>	Appliance Type	string	
Query	<b>template_id</b> <i>required</i>	Template Id	integer(int32)	
Query	<b>template_name</b> <i>required</i>	Template Name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Template</a>
500	TIMS-5031: Both template name and id cannot be null, TIMS-5041: Template does not exist with name=<Given Template Name>	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.140.26. User Defined DHCP Options List

GET /templates/list-custom-defined-params

##### Description

Provides a list of all the Custom DHCP Options (Option 128 - 253) defined in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/templates/list-custom-defined-params?

template\_name=testTemplate&server\_type=DNS&entity\_type=OPTION&organization\_name=Internal

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>template_id</b> <i>required</i>	Template Id	integer(int32)	
Query	<b>template_name</b> <i>required</i>	Template Name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Parameters Information</a> > array

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.140.27. Template List Data Types

GET /templates/list-datatypes

##### Description

Lists the Data Types for the given Template in the TCPWave IPAM. Functional Admin can list Data Types of a Template

in any organization. Rest of the Admins gets this provision for the organizations that they are associated with.

The example listed below shows a sample request URL:

/rest/templates/list-datatypes?datatype\_flag=

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>datatype_flag</b> <i>required</i>	Data Type	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Data Types</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.140.28. DHCP Sub Options List

```
GET /templates/list-template-option-spaces
```

#### Description

Provides a list of all the DHCP sub options defined in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/templates/list-template-option-spaces?template\_name=templateName

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>template_id</b> <i>required</i>	Template Id	integer(int32)	
Query	<b>template_name</b> <i>required</i>	Template Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Parameters Information</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.140.29. Option Template DNS Params List

```
GET /templates/list/dnsTemplateInfo
```

#### Description

Lists all the Option Template parameters and their values for the given Appliance type (BIND AUTH or BIND CACHE or UNBOUND or DNS Proxy) in the TCPWave IPAM. Functional Admin can list all the params for the given DNS Appliance type for any organization. Rest of the admins can list params for the given DNS Appliance type only for the organizations that they are associated with.

The example listed below shows a sample request URL:

/rest/templates/list/dnsTemplateInfo?

template\_id=1234&template\_name=testTemplate&entity\_type\_code=OPTION&server\_type\_code=1274&organization\_name=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>entity_type_code</b> <i>required</i>		string	
Query	<b>organization_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>server_type_code</b> <i>required</i>	Appliance Type Code	string	
Query	<b>template_id</b> <i>required</i>	Id of the template	integer(int32)	

Type	Name	Description	Schema	Default
Query	<b>template_name</b> <i>required</i>	Name of the template	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Template information</a>
500	TIMS-7003: You are not authorized to perform this operation, TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-5040: Template does not exist with name=<Given Template Name> and Appliance Type=<Given Appliance Type>	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.140.30. Option Template DNS Params List

```
GET /templates/list/dnsparams
```

#### Description

Lists all the Option Template parameters and their values for the given Appliance type (BIND AUTH or BIND CACHE or UNBOUND or DNS Proxy) in the TCPWave IPAM. Functional Admin can list all the params for the given DNS Appliance type for any organization. Rest of the admins can list the params for the given DNS Appliance type only for the organizations that they are associated with.

The example listed below shows a sample request URL:

```
/rest/templates/list/dnsparams?
```

```
template_id=1234&template_name=testTemplate&entity_type_code=OPTION&server_type_code=1274&organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>entity_type_code</b> <i>required</i>		string	
Query	<b>organization_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>server_type_code</b> <i>required</i>	Appliance Type Code	string	
Query	<b>template_id</b> <i>required</i>	Id of the Template	integer(int32)	
Query	<b>template_name</b> <i>required</i>	Name of the Template	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Template</a> > array
500	TIMS-7003: You are not authorized to perform this operation, TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-5040: Template does not exist with name=<Given Template Name> and Appliance Type=<Given Appliance Type>	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.140.31. Option Template NSD Params List

```
GET /templates/list/nsdparams
```

#### Description

Lists all the Option Template parameters and their values for the NSD Appliance type in the TCPWave IPAM.

Functional Admin can list all the params for the NSD Appliance for any organization. Rest of the admins can list the params for the NSD Appliance only for the organizations that they are associated with.

The example listed below shows a sample request URL:

```
/rest/templates/list/nsdparams?
```

```
template_id=1234&template_name=testTemplate&entity_type_code=OPTION&server_type_code=1274&organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>entity_type_code</b> <i>required</i>		string	
Query	<b>organization_id</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>server_type_code</b> <i>required</i>	Appliance Type Code	string	
Query	<b>template_id</b> <i>required</i>	Id of the Template	integer(int32)	
Query	<b>template_name</b> <i>required</i>	Name of the Template	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Template</a> > array
500	TIMS-7003: You are not authorized to perform this operation, TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-5040: Template does not exist with name=<Given Template Name> and Appliance Type=<Given Appliance Type>	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.140.32. Option Template NSD Params List

```
GET /templates/list/nsdparamsinfo
```

#### Description

Lists all the Option Template parameters and their values for the NSD Appliance type in the TCPWave IPAM.

Functional Admin can list all the params for the NSD Appliance for any organization. Rest of the admins can list the params for the NSD Appliance only for the organizations that they are associated with.

The example listed below shows a sample request URL:

```
/rest/templates/list/nsdparamsinfo?
```

```
template_id=1234&template_name=testTemplate&entity_type_code=OPTION&server_type_code=1274&organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>entity_type_code</b> <i>required</i>		string	
Query	<b>organization_id</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>server_type_code</b> <i>required</i>	Appliance Type Code	string	
Query	<b>template_id</b> <i>required</i>	Id of the Template	integer(int32)	
Query	<b>template_name</b> <i>required</i>	Name of the Template	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Template information</a>
500	TIMS-7003: You are not authorized to perform this operation, TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-5040: Template does not exist with name=<Given Template Name> and Appliance Type=<Given Appliance Type>	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.140.33. DHCP Options Template List Params

```
GET /templates/list/params/{server_type}/{entity_type}
```

#### Description

Provides a list of all the DHCP Options supported by the TCPWave IPAM to create a DHCP Option Template.

The example listed below shows a sample request URL:

/rest/templates/list/params/DNS%20PROXY/OPTION

#### Parameters

Type	Name	Description	Schema	Default
Path	<b>entity_type</b> <i>required</i>	Entity Type	string	
Path	<b>server_type</b> <i>required</i>	Appliance Type	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Parameters Information</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.140.34. Template Params List By Name

```
GET /templates/list/paramsbyname/{template_name}
```

#### Description

Provides a list of DHCP Options configured in a given Option Template as well as all the DHCP Options supported by the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/templates/list/paramsbyname/testTemplate

#### Parameters

Type	Name	Description	Schema	Default
Path	<b>template_name</b> <i>required</i>	Template Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Parameters Information</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.140.35. Template List

```
GET /templates/list/{server_type_code}/{entity_type_code}
```

#### Description

Lists all the Templates for the given Appliance type code and Entity type code in the TCPWave IPAM. Functional Admin can list Templates in any organization. Rest of the Admins gets this provision for the organizations that they are associated with.

The example listed below shows a sample request URL:

/rest/templates/list/DNS%20PROXY/OPTION?start=1&length=20&organizations=Internal

#### Parameters

Type	Name	Description	Schema	Default
Path	<b>entity_type_code</b> <i>required</i>	Entity Type Code	string	
Path	<b>server_type_code</b> <i>required</i>	Appliance Type Code	string	
Query	<b>allDHCP</b> <i>optional</i>	ALL DHCP types	boolean	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	



Type	Name	Description	Schema	Default
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organizations	string	
Query	<b>reference_id</b> <i>optional</i>	Reference Id	integer(int32)	
Query	<b>reference_type</b> <i>required</i>	Reference Type	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Template Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListTemplate</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain
- application/json

#### Produces

- application/json
- application/xml

#### 4.140.36. Template List DNS Appliances

```
GET /templates/listdnsservers
```

#### Description

Lists all the DNS Appliances for the given Entity type and organization in the TCPWave IPAM. Functional Admin can list DNS Appliances for the given organization in any organization. Rest of the Admins gets this provision for the organizations that they are associated with.

The example listed below shows a sample request URL:

```
/rest/templates/listdnsservers
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_id</b> <i>optional</i>	Organization Id	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Server Information</a> > array
500	TIMS-1352: Organization does not exist: <Given Organization Name>	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.140.37. Template List IPv6 DNS Appliances

```
GET /templates/listipv6dnsservers
```

#### Description

Lists all the IPv6 DNS Appliances for the given Entity type and organization in the TCPWave IPAM. Functional Admin can list IPv6 DNS Appliances for the given organization in any organization. Rest of the Admins gets this provision for the organizations that they are associated with.

The example listed below shows a sample request URL:

```
/rest/templates/listipv6dnsservers
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_id</b> <i>optional</i>	Organization Id	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Server Information</a> > array
500	TIMS-1352: Organization does not exist: <Given Organization Name>	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.140.38. Template Page

```
GET /templates/page/{server_type_code}/{entity_type_code}
```

#### Description

Lists all the Templates with pagination for the given Appliance type code and Entity type code associated with an organization in the TCPWave IPAM. Functional Admin can list the Templates for any organization. Rest of the admins can list the Templates only for the organizations that they are associated with.

The example listed below shows a sample request URL:

```
/rest/templates/page/DNS%20PROXY/OPTION?start=1&length=20&organization_name=Internal&inEdit=
```

#### Parameters

Type	Name	Description	Schema	Default
Path	<b>entity_type_code</b> <i>required</i>	Entity Type Code	string	
Path	<b>server_type_code</b> <i>required</i>	Appliance Type Code	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>inEdit</b> <i>required</i>	In Edit	integer(int32)	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>q</b> <i>optional</i>	Match Value	string	
Query	<b>reference_id</b> <i>optional</i>	Reference Id	integer(int32)	
Query	<b>reference_type</b> <i>required</i>	Reference Type	string	
Query	<b>start</b> <i>required</i>	Starting Template Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListTemplate Selection Data</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.140.39. Template Search

```
GET /templates/params-name/search
```

#### Description

Searches for a given Template in the TCPWave IPAM based on a full text input.

The example listed below shows a sample request URL:  
/rest/templates/params-name/search?start=1&length=20

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organizations	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Template Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListTemplate</a>

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.140.40. Template Search

```
GET /templates/params-value/search
```

#### Description

Searches for a given Template in the TCPWave IPAM based on a full text input.  
The example listed below shows a sample request URL:  
/rest/templates/params-value/search?start=1&length=20

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Template Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListTemplate</a>

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.140.41. Find Template References

```
GET /templates/references
```

#### Description

Obtains a list of DHCP Option Template reference in TCPWave IPAM.

The example listed below shows a sample request URL:  
`/rest/templates/references?tables=tableName`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>count</b> <i>optional</i>	Count Flag	string	
Query	<b>id</b> <i>optional</i>	Reference Id	string	
Query	<b>page</b> <i>optional</i>	Page Number	integer(int32)	
Query	<b>rows</b> <i>optional</i>	Number of rows	integer(int32)	
Query	<b>tables</b> <i>required</i>	Table	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Reference Results</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.140.42. Template Search

```
GET /templates/search
```

#### Description

Searches for a given Template in the TCPWave IPAM based on a full text input.

The example listed below shows a sample request URL:

`/rest/templates/search?start=1&length=20`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>required</i>	Organization List	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Template Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListTemplate</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.140.43. Zone Template Update

```
POST /templates/update
```

#### Description

Updates an existing Template in the TCPWave IPAM and performs a sanity check to make sure that the parameters defined in the template have valid values in it. Failing which, the update will be discarded by the TCPWave IPAM. On success, An incremental update is sent to all the DHCP Appliances that are governed with this policy template.

Below example shows sample request JSON:

```
{
  "template_name": "qa-zone-template1",
  "old_template_name": "qa-zone-template",
  "description": "",
  "customAcls": "",
  "entity_type_code": "ZONE",
  "server_type_code": "GENERICDNS",
  "organization_name": "QAOrg",
  "array_templates": [
    {
      "param_name": "email-addr",
      "value": "a@a.com",
      "param_name": "default-ttl",
      "numeric_value": "1200",
      "param_name": "refresh",
      "numeric_value": "21600",
      "param_name": "retry",
      "numeric_value": "3600",
      "param_name": "expire",
      "numeric_value": "604800",
      "param_name": "negative-cache-ttl",
      "numeric_value": "86400",
      "param_name": "serial",
      "value": "DATE",
      "param_name": "allow-notify",
      "aclList": [
        {
          "exclude": "0",
          "value": "10.1.10.87",
          "sequence": 1
        }
      ],
      "param_name": "allow-query",
      "aclList": null,
      "param_name": "also-notify",
      "aclList": null,
      "param_name": "allow-transfer",
      "aclList": null,
      "param_name": "allow-update",
      "aclList": null,
      "param_name": "master-dns-servers",
      "value": "10.1.10.87",
      "param_name": "slave-dns-servers",
      "value": ""
    }
  ]
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Template</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-5020: Template does not exist: <Template Name>, TIMS-1020: Both Organization name and id cannot be null, TIMS-7003: You are not authorized to perform this operation, TIMS-5001: Template already exists, TIMS-5002: Template name already exists in DNS Option Templates, TIMS-5003: Template name already exists in DHCP Option Templates, TIMS-5004: Template name already exists in DNS Zone Templates, TIMS-5005: Template name already exists in DHCP Policy Templates, TIMS-5028: Template does not exist, TIMS-2005: ACL is not valid : <Given ACL Name> for option param: <Given Parameter Name>, TIMS-5011: Parameter does not exist: <Given Parameter Name>, TIMS-1422: Zone does not exist: <Zone Name>, TIMS-3088: Appliance IP address is null, TIMS-3090: Both Appliance id and name cannot be null, TIMS-3092: Appliance does not exist.	No Content

#### Consumes

- application/json
- application/xml

#### 4.140.44. Zone Template Parameter List

```
GET /templates/zoneparams
```

#### Description

Lists all the parameters and their values for the given Zone Template in the TCPWave IPAM. Functional Admin can list parameters and their values for the given Zone Template in any organization. Rest of the Admins gets this provision for the organizations that they are associated with.

The example listed below shows a sample request URL:

```
/rest/templates/zoneparams?organization_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>template_name</b> <i>required</i>	Template Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Template</a> > array
500	TIMS-1352: Cannot find organization: <organization name>, TIMS-1020: Both Organization name and id cannot be null.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.141. Threat Intelligent Widget Service

##### 4.141.1. Get Anomaly detection data

```
GET /threatIntell/widget/getAnomalyAlerts
```

#### Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
200	successful operation	< <a href="#">AnomalyDetectedAlerts</a> > array
500	TIMS-1351: User Id cannot be null.	No Content

#### Produces

- application/json
- application/xml

#### 4.141.2. Get Intrusion Prevention data

```
GET /threatIntell/widget/getIntrusionAlerts
```

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">IntrusionPreventionAlerts</a> > array
500	TIMS-1351: User Id cannot be null.	No Content

#### Produces

- application/json
- application/xml

#### 4.142. Time Zone Service

##### 4.142.1. Time Zone of the Server

```
GET /timezone/getTimeZone
```

#### Description

Gets the time zone of a specified server in the TCPWave IPAM.  
The example listed below shows a sample request URL:  
`/rest/timezone/getTimeZone`

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500		No Content

#### Consumes

- text/plain

#### Produces

- text/plain

##### 4.142.2. Get list of all Time Zones

```
GET /timezone/list
```

#### Description

Returns a list of various time zones provided in the TCPWave IPAM.  
The example listed below shows a sample request URL:  
`/rest/timezone/list`

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Time Zone</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.143. UndoData Service

#### Description

This service provides the API to list the contents of the recycle bin and restore in TCPWave IPAM. The recycle bin contents are the deleted network elements.

#### 4.143.1. UndoData List

GET /undo/list

##### Description

Lists all the network elements in the recycle bin that can be restored.

The example listed below shows a sample request URL:

/rest/undo/list?start=1&length=20

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting UndoData Range	integer(int32)	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListUndoData</a>

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.143.2. UndoData Purge

POST /undo/purge

##### Description

Purges a network element from the recycle bin.

Below example shows sample request JSON:

Ex.1: [{"type":"subnet","key":"10.0.0.0/16","organization\_name":"JOrg","description":"IPV4 Subnet","operation":"delete"}]

Ex.2:

[{"type":"object","key":"10.0.0.6","organization\_name":"JOrg","description":"Azure00016Instance.111.com","operation":"delete"}, {"type":"object","key":"10.0.0.5","organization\_name":"JOrg","description":"Domain00021Controller.111.com","operation":"add"}]

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of undo data	< <a href="#">Undo Data</a> > array	

##### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml

#### 4.143.3. UndoData PurgeAll

POST /undo/purgeAll

##### Description

Purges all the network elements from the recycle bin.

Below example shows sample request JSON:

## Responses

HTTP Code	Description	Schema
default	successful operation	No Content

## Consumes

- application/json
- application/xml

## Produces

- application/json
- application/xml

## 4.143.4. UndoData Restore

```
POST /undo/restore
```

## Description

Restores a network element from the recycle bin.  
Below example shows sample request JSON:

## Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	List of undo data	< <a href="#">Undo Data</a> > array	

## Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-1266: Cannot find the DHCP class for the name. TIMS-3025: Resource Records already exist.	No Content

## Consumes

- application/json
- application/xml

## Produces

- application/json
- application/xml

## 4.144. User Certificate Service

## 4.144.1. User Cert Delete

```
POST /user_cert/delete
```

## Description

Delete the current user SSL/TLS certificate in the TCPWave IPAM.  
Below example shows sample request JSON:  
"string"

## Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	User certificate serial number	string	

## Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

## Consumes

- application/json

## Produces

- application/json
- application/xml

## 4.144.2. Get User ID

```
GET /user_cert/get_user
```

## Description

Retrieve the list of user SSL/TLS certificates associated with the current user in the TCPWave IPAM.  
The example listed below shows a sample request URL:



/rest/user\_cert/get\_user

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>serialNum</b> <i>required</i>	User certificate serial number	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	integer(int32)
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.144.3. User Cert Import

```
POST /user_cert/import
```

#### Description

Import the current user SSL/TLS certificate in the TCPWave IPAM. User certificates enables remote REST API access for the associated user in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/user\_cert/import?cfile=cfileNametest&user=15

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cfile</b> <i>required</i>	User certificate file name	string	
Query	<b>user</b> <i>required</i>	Database Id of the associated user	integer(int32)	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.144.4. User Cert List

```
GET /user_cert/list
```

#### Description

Retrieve the list of user SSL/TLS certificates used for accessing REST API in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/user\_cert/list

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">User Certificate</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.144.5. User List

```
GET /user_cert/userlist
```

### Description

Retrieve the list of users associated with the current user SSL/TLS certificate in the TCPWave IPAM.  
The example listed below shows a sample request URL:  
`/rest/user_cert/userlist`

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">User</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

### Consumes

- `text/plain`

### Produces

- `application/json`
- `application/xml`

## 4.145. User Service

### Description

This service provides the API to manage the Admins in the TCPWave IPAM. It provides interfaces to list, create, modify and delete admins, and manage their permissions, and passwords.

#### 4.145.1. Admin Add

```
POST /user/add
```

### Description

Creates a new admin. Functional Admin can create an admin in any organization. Only Functional Admin can create an admin with Functional Admin role. Super Admin and User Admin can create admins in the organization that they belong to.

Below example shows sample request JSON:

```
{
  "first_name":"system","middle_name":"","last_name":"Internal","phone_num":"456423","login_name":"sysadmin","organization_name":"Internal","password":"Z
  [{"name":"default","description":"default" group of admins,"organization_name":"Internal"}],"isAdmin":true}
```

### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">User</a>	

### Responses

HTTP Code	Description	Schema
500	TIMS-1020: Both organization name and id cannot be null, TIMS-1021: Invalid Organization name specified, TIMS-1023: User Already Exists, TIMS-1023: login name specified already exists, TIMS-1022: Invalid Admin role specified	No Content

### Consumes

- `application/json`
- `application/xml`

### Produces

- `application/json`
- `application/xml`

#### 4.145.2. Admin List

```
GET /user/admin/list
```

### Description

Obtains a List of all Admin  
The example listed below shows a sample request URL:  
`/rest/user/admin/list`

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">User</a> > array

### Consumes

- `text/plain`

### Produces

- `application/json`
- `application/xml`

#### 4.145.3. Admin Group List

```
GET /user/admingroup/list
```

##### Description

Obtains a List of all Admin Groups except FADM's and UADM's Groups

Below example shows sample request URL:

```
/rest/user/admingroup/list
```

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Admin Group</a> > array

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.145.4. Map of Admin Hierarchy

```
GET /user/adminhierarchymap
```

##### Description

Returns the hierarchy as a JSON string for the TCPWave IPAM GUI consumption.

The example listed below shows a sample request URL:

```
/rest/hierarchy/map
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>login_name</b> <i>optional</i>		string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	string

##### Consumes

- text/plain

##### Produces

- text/plain

#### 4.145.5. Update Change Ticket

```
POST /user/change_ticket
```

##### Description

Updates the change ticket associated .

Below example shows sample request JSON:

```
"string"
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		string	

##### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation.	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml

#### 4.145.6. Get Change Ticket

```
GET /user/change_ticket
```

##### Description

Gets the current session's change ticket.

The example listed below shows a sample request URL:  
`/rest/user/change_ticket`

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- `application/json`
- `application/xml`
- `text/plain`

#### Produces

- `application/json`
- `application/xml`
- `text/plain`

#### 4.145.7. Admin Clone

POST `/user/clone`

#### Description

Clone the specified admin. A new Admin is created with the login name and with the same permissions as the admin cloning from, into the same organization, with the same role, and will be associated with the same admin groups. Below example shows sample request JSON:

```
{ "first_name": "tom", "last_name": "k", "email_id": "j", "roles_name": "Power[tom@tcp.com]", "organization_name": "QAOrg", "isAdmin": true, "login_name": "tom", "roles": [ { "roles_name": "Power" Admin, "middle_name": "", "phone_num": "", "password": "Abc123" }
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>email_id</b> <i>optional</i>	Required User's Id to Clone	string	
Query	<b>first_name</b> <i>optional</i>	Required User's Id to Clone	string	
Query	<b>clast_name</b> <i>optional</i>	Required User's Id to Clone	string	
Query	<b>cmiddle_name</b> <i>optional</i>	Required User's Id to Clone	string	
Query	<b>user_id</b> <i>optional</i>	Required User's Id to Clone	integer(int32)	
Body	<b>body</b> <i>optional</i>		<a href="#">User</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3004: Invalid user id specified, TIMS-1023: User Already Exists, TIMS-1023: login name specified already exists.	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

#### 4.145.8. Admin Delete

POST `/user/delete`

#### Description

Deletes an existing admin. Functional Admin can delete an admin in any organization. Only Functional Admin can create an admin with Functional Admin role. Super Admin and User Admin can delete admins in the organization, they belong to.

The example listed below shows a sample request URL:

`/rest/user/delete?first_name=John&last_name=Doe&middle_name=&email_id=jdoe@yahoo.com&org_name=Internal`

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>email_id</b> <i>required</i>	User's Email ID	string	
Query	<b>first_name</b> <i>required</i>	User's First Name	string	

Type	Name	Description	Schema	Default
Query	<b>id</b> <i>optional</i>	User ID	integer(int32)	
Query	<b>last_name</b> <i>required</i>	User's Last Name	string	
Query	<b>middle_name</b> <i>required</i>	User's Middle Name	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-3002: first_name, last_name, or email_id cannot be null, TIMS-3003: cannot find the specified user, TIMS-3004: Invalid user id specified.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.145.9. Admin Delete

POST /user/deleteLogin

#### Description

Deletes an existing admin by login name. Functional Admin can delete an admin in any organization. Only Functional Admin can create an admin with Functional Admin role. Super Admin and User Admin can delete admins in the organization, they belong to.

The example listed below shows a sample request URL:

/rest/user/deleteLogin?login\_name=admin

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>login_name</b> <i>required</i>	User's Login Name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-4010: Invalid login name specified.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.145.10. Admin Update

POST /user/edit

#### Description

Updates an existing user details in the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "first_name": "system-
```

```
1", "last_name": "Internal", "email_id": "admin@tcpwave.com", "phone_num": "4564231", "organization_name": "Internal", "isAdmin": true, "login_name": "sysadmin"
```

```
[{"name": "default", "description": "default" group of admins", "organization_name": "Internal"}], "roles_name": "Normal
```

```
Admin", "new_is_admin": true, "new_first_name": "system1", "new_middle_name": "", "new_last_name": "Internal", "new_email_id": "admin@tcpwave.com", "new_lo
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">User</a>	

#### Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation, TIMS-1026: User already exists, TIMS-4005: User id is not valid, TIMS-4006: first_name, last_name, or email_id cannot be null, TIMS-4007: User does not exist, TIMS-1020: Both Organization name and id cannot be null.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.145.11. Admin Details

```
GET /user/get
```

#### Description

Get the details of the specified admin. List all the admins belonging to an organization. For FADM, if the organization is not specified, all the admins in the system are listed. If a group is specified, only the admins belonging to that group are listed. FADM has visibility across all organizations and other admins are restricted to the organization that they belong to and will get a permission violation error when tried to get the list of admins from other organizations. The example listed below shows a sample request URL:

/rest/user/get?first\_name=testfname&middle\_name=testmidname&last\_name=lname&email=test@gmail.com

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>email_id</b> <i>required</i>	Admin's Email ID	string	
Query	<b>first_name</b> <i>required</i>	Admin's First Name	string	
Query	<b>id</b> <i>optional</i>	Admin ID	integer(int32)	
Query	<b>last_name</b> <i>required</i>	Admin's Last Name	string	
Query	<b>middle_name</b> <i>required</i>	Admin's Middle Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">User</a>
500	TIMS-1101: Cannot find organization, TIMS-1141: Cannot find admin group.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.145.12. Internal User Information

```
GET /user/getInternalUser
```

#### Description

Provides Internal User's Information in the TCPWave IPAM. The example listed below shows a sample request URL:

/rest/user/getInternalUser

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">User</a> > array

#### Consumes

- text/plain

#### Produces

- application/json

#### 4.145.13. Roles List

GET /user/getRoles

#### Description

The example listed below shows a sample request URL:  
/rest/user/getRoles

#### Responses

HTTP Code	Description	Schema
200	successful operation	< string, string > map
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.145.14. Admin Details

GET /user/getUserDetailsByLoginName

#### Description

Get the details of the specified admin. Get the Admin details using the Login name contains all the permissions and functions associated to that admin.

The example listed below shows a sample request URL:  
/rest/user/getUserDetailsByLoginName?login\_name=test

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>login_name</b> <i>required</i>	Admin's Login Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">User</a>
500	TIMS-4010: Login name is not valid.	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml

#### 4.145.15. Admin List

GET /user/list

#### Description

List all the admins. Gets the list of Admin groups that the Admin belongs to besides other attributes. Functional Admin has visibility to the admins from all the organizations while Super Admin and User Admin are restricted to their organizations.

The example listed below shows a sample request URL:  
/rest/user/list?grp\_name=test

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>grp_id</b> <i>optional</i>	Group ID	integer(int32)	
Query	<b>grp_name</b> <i>required</i>	Group Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">User</a> > array
500	TIMS-3002: first_name, last_name, or email_id cannot be null. TIMS-3003: cannot find the specified user. TIMS-3004: Invalid user id specified	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.145.16. Permission List.

```
GET /user/listpermission
```

#### Description

Provides all users permission list in the TCPWave IPAM.  
The example listed below shows a sample request URL:  
/rest/user/listpermission

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">User Permission</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.145.17. Admin List Page

```
GET /user/page
```

#### Description

Returns a list of admins defined in the TCPWave IPAM.  
The example listed below shows a sample request URL:  
/rest/user/page?grp\_name=test&start=1&length=20

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>grp_id</b> <i>optional</i>	Admin Group ID	integer(int32)	
Query	<b>grp_name</b> <i>required</i>	Admin Group Name	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Order (asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization Names	string	
Query	<b>q</b> <i>optional</i>	Search String	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting User Range	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListUser</a>
500	TIMS-3002: first_name, last_name, or email_id cannot be null, TIMS-3003: cannot find the specified user, TIMS-3004: Invalid user id specified.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.145.18. User Permission List



GET /user/permexpndlist

### Description

Provides user's permission list in TCPWave IPAM.  
The example listed below shows a sample request URL:  
/rest/user/permexpndlist?login\_name=admin

### Parameters

Type	Name	Description	Schema	Default
Query	<b>login_name</b> <i>required</i>	Admin Login Name	string	
Query	<b>user_id</b> <i>optional</i>	Admin ID	integer(int32)	

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">User Permission</a> > array

### Consumes

- text/plain

### Produces

- application/json
- application/xml

### 4.145.19. Admin List Permissions

GET /user/permissionsforadmin

### Description

List permissions associated with a given admin. Functional admin can get the permissions of any admin, while the Super Admin and User Admin are restricted to the admins belonging to their organization.  
The example listed below shows a sample request URL:  
/rest/user/permissionsforadmin?login\_name=adminusername

### Parameters

Type	Name	Description	Schema	Default
Query	<b>grp_id</b> <i>optional</i>	Admin/User ID	string	
Query	<b>login_name</b> <i>required</i>	Admin Login Name	string	
Query	<b>user_id</b> <i>optional</i>	Admin/User ID	integer(int32)	

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Permission</a> > array

### Consumes

- text/plain

### Produces

- application/json
- application/xml

### 4.145.20. Lists Admin References

GET /user/references

### Description

Find Admin references in the TCPWave IPAM.  
The example listed below shows a sample request URL:  
/rest/user/references?tables=abc&count=2

### Parameters

Type	Name	Description	Schema	Default
Query	<b>count</b> <i>required</i>	Total Count param	string	
Query	<b>id</b> <i>optional</i>	Reference ID	string	
Query	<b>page</b> <i>optional</i>	Page	integer(int32)	

Type	Name	Description	Schema	Default
Query	rows <i>optional</i>	Rows	integer(int32)	
Query	tables <i>required</i>	Reference Table	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Reference Results</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.145.21. Searches User Page

```
GET /user/search
```

#### Description

Lists information of all searched Admins in an Organization in the TCPWave IPAM.  
The example listed below shows a sample request URL:  
`/rest/user/search?org_list=Internal`

#### Parameters

Type	Name	Description	Schema	Default
Query	org_list <i>required</i>	Organization List	string	
Query	page <i>optional</i>	Page Number	integer(int32)	
Query	rows <i>optional</i>	Rows per Page	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListUser</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.145.22. Roles List

```
GET /user/selectedgroup
```

#### Description

List all the administrator groups list for selected administrator roles .  
The example listed below shows a sample request URL:  
`/rest/user/selectedgroup?name=admin`

#### Parameters

Type	Name	Description	Schema	Default
Query	name <i>optional</i>		string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Admin Group</a> > array
500		No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.145.23. Session User Information

```
GET /user/session_user
```

##### Description

Provides information such as Name, ID, Role of session user in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/user/session\_user

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">User</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

### 4.146. VMWare Discovery Details Service

#### 4.146.1. GET /vmware/authsource

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>ipType</b> <i>required</i>	IP Type	string	
Query	<b>objectId</b> <i>required</i>	Object Id	integer(int32)	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">VMWareAuthenticationSource</a>

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.146.2. GET /vmware/authtypelist

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">VMWare Authentication Type</a> > array

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

### 4.147. View Service

##### Description

This service provides API's to get list of Views present in the TCPWave IPAM, add Views, update Views, delete Views, list of Views for an existing Server, list of Views for an existing Zone in the TCPWave IPAM.

#### 4.147.1. Countries List

```
GET /view/countries
```

##### Description

Provides a list of country names in the TCPWave IPAM. Functional Admin gets the list of Countries. Rest of the Admins get only the list of countries associated with the organization that they belong to.

The example listed below shows a sample request URL:

/rest/view/countries

##### Responses

HTTP Code	Description	Schema
-----------	-------------	--------

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Countries list</a> > array
500	TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-7003: You are not authorized to perform this operation.	No Content

#### Produces

- application/json
- application/xml

#### 4.147.2. View Create

POST /view/create

#### Description

Creates a new View by checking if it overlaps with the existing Views defined in the TCPWave IPAM. Functional Admin can create a new View for any organization. Rest of the admins can create a new View only for the organizations that they are associated with. Refer to the Administrator reference documentation for additional information about the DNS Views.

Sample payloads with mandatory parameters to add a view are listed below.

```
{
  "name": "dns-view-test-1",
  "organizationName": "QAOrg",
  "matchClients": [{"exclude": "0", "value": "10.2.2.12", "sequence": 1}],
  "matchClientsValue": "10.2.2.12",
  "allowRecursion": [{"exclude": "0", "value": "10.2.2.0/24", "sequence": 1}],
  "allowRecursionValue": "10.2.2.0/24",
  "enableRecursion": "no",
  "matchRecursiveOnly": "no"
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">DNS View</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-7003: You are not authorized to perform this operation, TIMS-10100: A DNS View with this name already exists: <View Name>, TIMS-10101: Both algorithm id and algorithm code cannot be null, TIMS-10105: DNS View cannot be created with name 'Default'. 'Default' is a reserved view, TIMS-2010: Algorithm is not valid: <Algorithm Code>, TIMS-3022: Bit size should be between <Min Algo code> and <Max Algo code> for algorithm <Algorithm code>	No Content

#### Consumes

- application/json
- application/xml

#### 4.147.3. View Delete

POST /view/delete

#### Description

Deletes an existing View in the TCPWave IPAM. Functional Admin can delete a View for any organization. Rest of the admins can delete a View only for the organizations that they are associated with.

The example listed below shows a sample request URL:

/rest/view/delete?organization\_name=Internal

Below example shows sample request JSON:

```
{
  "name": "v-1",
  "matchClientsValue": "10.2.2.2;10.3.3.3;10.7.7.7;"
}
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_id</b> <i>optional</i>	Organization Id	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Body	<b>body</b> <i>optional</i>		<a href="#">DNS View</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-7003: You are not authorized to perform this operation, TIMS-10102: Both view id and view name cannot be null, TIMS-10103: DNS View does not exist for name: <View Name>, TIMS-10104: DNS View cannot be deleted as it is associated with one more servers, TIMS-10107: 'Default' DNS View cannot be deleted.	No Content

#### Produces

- application/json
- application/xml

#### 4.147.4. View Edit

POST /view/edit

##### Description

Updates an existing View in the TCPWave IPAM. Functional Admin can update a View for any organization. Rest of the admins can update a View only for the organizations that they are associated with.

Below example shows sample request JSON:

```
{ "matchClients": [{"exclude": "0", "value": "10.0.2.0", "sequence": 1}, {"exclude": "0", "value": "10.0.2.1", "sequence": 2}, {"exclude": "0", "value": "10.0.2.2", "sequence": 3}], "matchDestinations": null, "name": "v-1", "organizationName": "QAOrg", "matchClientsValue": "10.0.2.3;10.0.2.4;10.0.2.5", "matchDestinationsValue": "", "allowRecursion": [{"exclude": "0", "value": "10.2.2.0/24", "sequence": 1}], "allowRecursionValue": "10.2.2.0/24", "enableRecursion": "no", "matchRecursiveOnly": "no" }
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">DNS View</a>	

##### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Cannot find organization: <organization name>, TIMS-7003: You are not authorized to perform this operation, TIMS-10101: Both algorithm id and algorithm code cannot be null, TIMS-10102: Both view id and view name cannot be null, TIMS-10100: A DNS View with this name already exists: <View Name>, TIMS-10103: DNS View does not exist for name: <View Name>, TIMS-10106: 'Default' DNS View cannot be edited, TIMS-10105: DNS View cannot be created with name 'Default'. 'Default' is a reserved view.	No Content

##### Consumes

- application/json
- application/xml

#### 4.147.5. View Get

GET /view/get

##### Description

Lists all the Views associated with an organization in the TCPWave IPAM. Functional Admin can list the Views for any organization. Rest of the admins can list the Views only for the organizations that they are associated with.

The example listed below shows a sample request URL:

/rest/view/get?organization\_name=Internal&view\_name=testview

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_id</b> <i>optional</i>	Organization Id	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>view_id</b> <i>optional</i>	View Id	string	
Query	<b>view_name</b> <i>required</i>	View Name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">DNS View</a>
500	TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-7003: You are not authorized to perform this operation, TIMS-5001: Template already exists.	No Content

##### Produces

- application/json
- application/xml

#### 4.147.6. View List

GET /view/list

##### Description

Provides a paginated list of Views Defined in the TCPWave IPAM. Functional Admin gets the list of all Views. Rest of the Admins get only the list of Views associated with the organization that they belong to.

The example listed below shows a sample request URL:

/rest/view/list?organizations=Internal

##### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organizations	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DNS View</a> > array
500	TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-7003: You are not authorized to perform this operation.	No Content

#### Produces

- application/json
- application/xml

#### 4.147.7. View List Associated with template

```
POST /view/listassociatedwithtemplate
```

#### Description

Checks if the Zone template is associated with any Zones that have Views defined in it. If Views are defined in the Zone then Zone Template is not allowed to change for that Zone.

The example listed below shows a sample request URL:

```
/rest/view/listassociatedwithtemplate?organization_name=Internal&template_name=testtemplate
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_id</b> <i>optional</i>	Organization Id	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>template_id</b> <i>optional</i>	Template Id	string	
Query	<b>template_name</b> <i>required</i>	Template Name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Cannot find organization: <organization name>, TIMS-7003: You are not authorized to perform this operation, TIMS-3050: Both server id and address cannot be null, TIMS-3091: Server does not exist, TIMS-10116: Selected Master/Slave server does not contain any common DNS Views as that of Master/Slave servers.	No Content

#### Produces

- application/json
- application/xml

#### 4.147.8. View List For Server

```
GET /view/listforserver
```

#### Description

Lists all the Views associated with a server in the TCPWave IPAM. Functional Admin can list the Views for a server in any organization. Rest of the admins can list the Views for a server only for the organizations that they are associated with.

The example listed below shows a sample request URL:

```
/rest/view/listforserver?organization_name=Internal&server_ip=1.0.0.3
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_id</b> <i>optional</i>	Organization Id	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>server_id</b> <i>optional</i>	Server Id	string	
Query	<b>server_ip</b> <i>required</i>	Server IP Address	string	

#### Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DNS View</a> > array
500	TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-7003: You are not authorized to perform this operation, TIMS-3050: Both server id and address cannot be null, TIMS-3091: Server does not exist.	No Content

#### Produces

- application/json
- application/xml

#### 4.147.9. View List for Zone

```
GET /view/listforzone
```

#### Description

Lists all the Views associated with a Zone in the TCPWave IPAM. Functional Admin can list the Views associated with a Zone in any organization. Rest of the admins can list the Views associated with a Zone only for the organizations that they are associated with.

The example listed below shows a sample request URL:

```
/rest/view/listforzone?organization_name=Internal&zone_name=testzone.com
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_id</b> <i>optional</i>	Organization Id	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>zone_name</b> <i>required</i>	Zone Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DNS View</a> > array
500	TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-7003: You are not authorized to perform this operation, TIMS-1422: Zone does not exist: <Zone Name>	No Content

#### Produces

- application/json
- application/xml

#### 4.147.10. View List For Zone Template

```
GET /view/listforzonetemplate
```

#### Description

Lists all the Views that are common in the servers which are associated with a Zone Template. TCPWave IPAM. Functional Admin have this provision for any organization. Rest of the admins have this provision only for the organizations that they are associated with.

The example listed below shows a sample request URL:

```
/rest/view/listforzonetemplate?organization_name=Internal&template_name=testtemplate
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_id</b> <i>optional</i>	Organization Id	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>template_id</b> <i>optional</i>	Template Id	string	
Query	<b>template_name</b> <i>required</i>	Template Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DNS View</a> > array
500	TIMS-1352: Cannot find organization: <organization name>, TIMS-7003: You are not authorized to perform this operation, TIMS-3050: Both server id and address cannot be null, TIMS-3091: Server does not exist.	No Content

#### Produces

- application/json
- application/xml

#### 4.147.11. View List For Server

```
GET /view/v6listforserver
```

##### Description

Lists all the Views associated with ipv6 server in the TCPWave IPAM. Functional Admin can list the Views for a ipv6 server in any organization. Rest of the admins can list the Views for a ipv6 server only for the organizations that they are associated with.

The example listed below shows a sample request URL:

```
/rest/view/listforserver?organization_name=Internal&server_ip=1.0.0.3
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_id</b> <i>optional</i>	Organization Id	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>server_id</b> <i>optional</i>	Server Id	string	
Query	<b>server_ip</b> <i>required</i>	Server IP Address	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">DNS View</a> > array
500	TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-7003: You are not authorized to perform this operation, TIMS-3050: Both server id and address cannot be null, TIMS-3091: Server does not exist.	No Content

##### Produces

- application/json
- application/xml

#### 4.147.12. Zone List for View

```
GET /view/zonelistforview
```

##### Description

Lists all the Zones associated with a View in the TCPWave IPAM. Functional Admin can list the Zones associated with a View in any organization. Rest of the admins can list the Zones associated with a View only for the organizations that they are associated with.

The example listed below shows a sample request URL:

```
/rest/view/zonelistforview?view_name=testview
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization_id</b> <i>optional</i>	Organization Id	string	
Query	<b>view_id</b> <i>optional</i>	View Id	string	
Query	<b>view_name</b> <i>required</i>	View Name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Zone</a> > array
500	TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-7003: You are not authorized to perform this operation, TIMS-1422: Zone does not exist: <Zone Name>	No Content

##### Produces

- application/json
- application/xml

#### 4.148. Widget Service

##### Description

This service provides API to get widgets information on Dashboard. Based on the information widgets will be shown or hidden on the Dashboard.

##### 4.148.1. Network Statistics

```
GET /widget/list
```



### Description

Get detailed statistics information of the current network in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/widget/list?category=test

### Parameters

Type	Name	Description	Schema	Default
Header	TIMS-Session-Token <i>optional</i>	Session token for authorization	string	
Query	category <i>required</i>	Category	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Widget Card</a> > array

### Consumes

- text/plain
- application/xml

### Produces

- application/json
- application/xml

## 4.148.2. Network Statistics

POST /widget/update

### Description

Get detailed statistics information of the current network in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/widget/update?widget\_name=test&status=1

### Parameters

Type	Name	Description	Schema	Default
Header	TIMS-Session-Token <i>optional</i>	Session token for authorization	string	
Query	status <i>required</i>	Widget Status	boolean	
Query	widget_name <i>required</i>	Widget Name	string	

### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

### Consumes

- text/plain
- application/xml

### Produces

- application/json
- application/xml

## 4.149. Workflow Handler Service

### 4.149.1. Workflow Add

POST /workflow/add

### Description

Adding new workflow to the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "data": { "addressArray": [ "10.0.0.3" ], "isDeleterrChecked": 0, "organization_name": "World", "routersArray": [], "subnet_id": 848652, "updated_by": "23199" }, "entity": "IPv4 Network/IPv4 Subnet/Subnet Group/IPv4 Object/IPv4 DHCP Scopes/DNS Domain/DNS Managed Zone", "operation": "Add", "extensionData": { "extension": "changeTicket": "12345", "status": "Awaiting Approval/In Progress/Pass/Fail", "stage": "Staged/Approved/Denied/Implement/Completed", "statusCode": "1/2/3/4", "stageCode": "1/2/3/4/5" }
```

### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Payload for Approval Workflows.</a>	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.149.2. Workflow Delete

```
POST /workflow/delete
```

#### Description

Deleting new workflow to the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "data": {"addressArray": ["10.0.0.3"], "isDeleterrChecked": 0, "organization_name": "World", "routersArray": [], "subnet_id": 848652, "updated_by": "23199"}, "entity": "IPv4 Network/IPv4 Subnet/Subnet Group/IPv4 Object/IPv4 DHCP Scopes/DNS Domain/DNS Managed Zone", "operation": "Add", "extensionData": "extension", "changeTicket": "12345", "status": "Awaiting Approval/In Progress/Pass/Fail", "stage": "Staged/Approved/Denied/Implement/Completed", "statusCode": "1/2/3/4", "stageCode": "1/2/3/4/5" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Payload for Approval Workflows.</a>	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.149.3. Workflow Details fetch

```
GET /workflow/listrows
```

#### Description

Fetching workflow details from the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/workflow/listrows?organizations=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>		string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListPayload For Approval Workflows.</a>

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

- text/plain

#### 4.149.4. Workflow Edit

POST /workflow/modify

##### Description

Updating new workflow to the TCPWave IPAM.

Below example shows sample request JSON:

```
{ "data": {"addressArray": ["10.0.0.3"],"isDeleterrChecked": 0,"organization_name":"World","routersArray":
[],"subnet_id": 848652,"updated_by": "23199"},"entity": "IPv4 Network/IPv4 Subnet/Subnet Group/IPv4 Object/IPv4
DHCP Scopes/DNS Domain/DNS Managed Zone", "operation": "Add", "extensionData": "extension", "changeTicket":
"12345", "status": "Awaiting Approval/In Progress/Pass/Fail", "stage": "Staged/Approved/Denied/Implement/Completed",
"statusCode": "1/2/3/4"}
```

##### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Payload for Approval Workflows.</a>	

##### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml

#### 4.149.5. Workflow Details fetch

GET /workflow/profile

##### Description

Fetching workflow details from the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/workflow/profile?id=1235

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>id</b> <i>optional</i>		string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Payload for Approval Workflows.</a>

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml

#### 4.150. Xtn Service

##### 4.150.1. Extension Attribute List

GET /xtn/attr

##### Description

Obtains the Extension Attribute List based on the entity.

The example listed below shows a sample request URL:

/rest/xtn/attr?entity=network

**Note: entity can be network, subnet, object, zone, admin, revzone, rr**

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>entity</b> <i>required</i>	entity	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Xtn Attribute</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.150.2. Add Extension Attribute

POST /xtn/attr\_add

#### Description

Adds the Extensions to Network, Subnet, Object, Admin, Resource Record, Reverse Zone or Zone

Sample payloads with mandatory parameters to add an Extension Attributes

**Add an Extension of type String which can be applied to Network, Subnet, Object, Admin, Resource Record, Reverse Zone or Zone are listed below.**

```
{
  "name": "stringXtn",
  "xtn_type": "STRING",
  "mandatory": "false",
  "entities": [
    { "name": "admin", "show_on_grid": false },
    { "name": "network", "show_on_grid": false },
    { "name": "subnet", "show_on_grid": false },
    { "name": "object", "show_on_grid": false },
    { "name": "zone", "show_on_grid": false },
    { "name": "rr", "show_on_grid": false },
    { "name": "revzone", "show_on_grid": false }
  ]
}
```

**Add an Extension of type Numeric which can be applied to Network, Subnet, Object, Admin, Resource Record, Reverse Zone or Zone are listed below.**

```
{
  "name": "numericXtn",
  "xtn_type": "NUMERIC",
  "mandatory": "false",
  "entities": [
    { "name": "admin", "show_on_grid": false },
    { "name": "network", "show_on_grid": false },
    { "name": "subnet", "show_on_grid": false },
    { "name": "object", "show_on_grid": false },
    { "name": "zone", "show_on_grid": false },
    { "name": "rr", "show_on_grid": false },
    { "name": "revzone", "show_on_grid": false }
  ]
}
```

**Add an Extension of type Date which can be applied to Network, Subnet, Object, Admin, Resource Record, Reverse Zone or Zone are listed below.**

```
{
  "name": "dateXtn",
  "xtn_type": "DATE",
  "mandatory": "false",
  "entities": [
    { "name": "admin", "show_on_grid": false },
    { "name": "network", "show_on_grid": false },
    { "name": "subnet", "show_on_grid": false },
    { "name": "object", "show_on_grid": false },
    { "name": "zone", "show_on_grid": false },
    { "name": "rr", "show_on_grid": false },
    { "name": "revzone", "show_on_grid": false }
  ]
}
```

**Add an Extension of type IP Address which can be applied to Network, Subnet, Object, Admin, Resource Record, Reverse Zone or Zone are listed below.**

```
{
  "name": "ipaddressXtn",
  "xtn_type": "IP_ADDR",
  "mandatory": "false",
  "entities": [
    { "name": "admin", "show_on_grid": false },
    { "name": "network", "show_on_grid": false },
    { "name": "subnet", "show_on_grid": false },
    { "name": "object", "show_on_grid": false },
    { "name": "zone", "show_on_grid": false },
    { "name": "rr", "show_on_grid": false },
    { "name": "revzone", "show_on_grid": false }
  ]
}
```

**Add an Extension of type List which can be applied to Network, Subnet, Object, Admin, Resource Record, Reverse Zone or Zone are listed below.**

```
{
  "name": "listXtn",
  "xtn_type": "LIST",
  "mandatory": "false",
  "list_values": "1.0.0.0,2.0.0.0",
  "entities": [
    { "name": "admin", "show_on_grid": false },
    { "name": "network", "show_on_grid": false },
    { "name": "subnet", "show_on_grid": false },
    { "name": "object", "show_on_grid": false },
    { "name": "zone", "show_on_grid": false },
    { "name": "rr", "show_on_grid": false },
    { "name": "revzone", "show_on_grid": false }
  ]
}
```

**Add an Extension of type REegex which can be applied to Network, Subnet, Object, Admin, Resource Record, Reverse Zone or Zone are listed below.**

```
{
  "name": "regulaExpXtn",
  "xtn_type": "REGEX",
  "mandatory": "false",
  "regex_values": "[ A-Za-z0-9_@.#+~]*$",
  "entities": [
    { "name": "admin", "show_on_grid": false },
    { "name": "network", "show_on_grid": false },
    { "name": "subnet", "show_on_grid": false },
    { "name": "object", "show_on_grid": false },
    { "name": "zone", "show_on_grid": false },
    { "name": "rr", "show_on_grid": false },
    { "name": "revzone", "show_on_grid": false }
  ]
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		<a href="#">Xtn Attribute</a>	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

#### 4.150.3. Extension Delete

POST /xtn/attr\_del

#### Description

Deletes the specified extension present in the TCPWave IPAM. Functional Admin can delete extension.

Below example shows sample request JSON:

"string"

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>required</i>	name	string	

#### Responses

HTTP Code	Description	Schema
<b>default</b>	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

#### 4.150.4. Edit Extension Attribute

```
POST /xtn/attr_edit
```

#### Description

Edit the Extension attribute.

Below example shows sample request JSON:

```
{ "name": "stringXtn", "xtn_type": "STRING", "mandatory": "false", "list_values": "", "regex_values": "", "description": "test", "new_name": "stringXtn" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Xtn Attribute</a>	

#### Responses

HTTP Code	Description	Schema
<b>default</b>	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

#### 4.150.5. Extension Attribute List

```
GET /xtn/attr_list
```

#### Description

Obtains the Extension Attribute List defined and managed by the TCPWave IPAM which are used to control the behavior of Network, Subnet, Object, Admin, Resource Record, Reverse Zone and Zone

The example listed below shows a sample request URL:

```
/rest/xtn/attr_list?entity=network
```

**Note: entity can be network, subnet, object, zone, admin, revzone, rr**

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>entity</b> <i>optional</i>		string	

#### Responses

HTTP Code	Description	Schema
<b>200</b>	successful operation	< <a href="#">Xtn Attribute</a> > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.150.6. Object Extension Attribute List

```
GET /xtn/attr_object
```

##### Description

Obtains the Object Extension Attribute List based on the subnet address and Organization.

The example listed below shows a sample request URL:

```
/rest/xtn/attr_object?subnet_address=10.0.0.0&org_name=Internal
```

**Note: entity can be network, subnet, object, zone, admin, revzone, rr**

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_name</b> <i>required</i>	org_name	string	
Query	<b>subnet_address</b> <i>required</i>	subnet_address	string	
Query	<b>subnet_id</b> <i>optional</i>	subnet_id	integer(int32)	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Xtn Attribute</a> > array

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.150.7. Update Extension Values

```
POST /xtn/attr_object_val
```

##### Description

Updates the extension values of object.

The example listed below shows a sample request URL:

```
/rest/xtn/attr_object_val?org_name=QAOrg
```

Below example shows sample request JSON:

```
{"type":"object","key":"10.0.0.0","values":[{"name":"stringXtn","value":"testextnsion"}]}
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_id</b> <i>optional</i>		integer(int32)	
Query	<b>org_name</b> <i>optional</i>		string	
Body	<b>body</b> <i>optional</i>		<a href="#">XtnData</a>	

##### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

##### Consumes

- application/json
- application/xml

##### Produces

- application/json
- application/xml
- text/plain

#### 4.150.8. Extension Attribute Page

```
GET /xtn/attr_page
```

##### Description

It Provides the information about the components which are using specified extension.

The example listed below shows a sample request URL:

```
/rest/xtn/attr_page?name=objxtn&draw=1&start=0&length=20
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	string	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>name</b> <i>required</i>	Extension Name	string	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization Names	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Start Page Number	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListXtnResponse</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.150.9. Update Extension Values

```
POST /xtn/attr_val
```

#### Description

Updates the extension values of network, subnet, object, zone, reverse zone, resource record, admin.

The example listed below shows a sample request URL:

```
/rest/xtn/attr_val?org_name=QAOrg
```

Below example shows sample request JSON:

```
{ "type": "network", "key": "10.0.0.0", "values": [{"name": "stringXtn", "value": "testextnsion"}] }
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_id</b> <i>optional</i>		integer(int32)	
Query	<b>org_name</b> <i>optional</i>		string	
Body	<b>body</b> <i>optional</i>		<a href="#">XtnData</a>	

#### Responses

HTTP Code	Description	Schema
default	successful operation	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml
- text/plain

#### 4.150.10. Get Extension details by name

```
GET /xtn/get
```

#### Description

Get the extension details based on the extension name.

The example listed below shows a sample request URL:

```
/rest/xtn/get?name=xtnName
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Extension Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Xtn Attribute</a> > array

#### Consumes

- text/plain
- application/json

#### Produces

- application/json
- application/xml

#### 4.150.11. Get network/subnet details

```
GET /xtn/getSubnetNetworkDetailsByExtensions
```

#### Description

Get the subnet or network details based on the extension value.

The value of the request parameter `ext_value` accepts regular expression.

Note: Regex search can also perform a fixed string search.

Example: String `^abc.com$` matches only `abc.com`.

Supported regular expression meta characters:

Character: \*

Description: The asterisk () **metacharacter is used to match a character zero 0 or more times of the strings preceding it.**

**Example:** `ab` will give all strings containing characters "ab" Ex: `abcd, abde, etc.`

Character:

Description: The plus () metacharacter is used to match a character one or more times of strings preceding it. Example

: `Mon` will give all strings containing characters "mon" Ex: `Monday, monsoon, etc.`

Character: ?

Description: The question(?) metacharacter is used to match a character zero 0 or one time of the string preceding it.

Example : Example: `com?` will give all the strings containing characters "com". Ex: `test.com`.

Character: .

Description: The dot (.) metacharacter is used to match any single character except newline character.

Example : `200.` will give all the strings starting with characters "200" followed by any single character. Ex:

`2005,2007,2008` etc.

Character: [abc]

Description : The charlist [abc] is used to match any of the enclosed characters.

Example : [in] will give all the string containing any single character in "in". Ex: `LinkedIn, learning.com, etc.`

Character: [^abc]

Description : The charlist [^abc] is used to match any characters excluding the ones enclosed.

Example : [^twc] will give all the strings containing characters other than the ones in "twc".

Character: [A-Z]

Description : The [A-Z] is used to match any upper-case letter.

Example : Example : [A-Z] will give all the strings that contain any character from A to Z. Ex: `TEST`

Character: [a-z]

Description : The [a-z] is used to match any lower-case letter.

Example : [a-z] will give all the strings containing any character from a to z. Ex: `test`

Character: [0-9]

Description : The pattern [0-9] is used to match any digit from 0 to 9.

Example : Example : [0-9] will give all the strings containing characters "[0-9]". Ex: `Test90`

Character: ^

Description : DThe caret (^) is used to start the match at the beginning.

Example : `^[cd]` gives all the strings starting with any of the characters in "cd". Ex: `cloud.com, DNS, etc`

The example listed below shows a sample request URL:

```
/rest/xtn/getSubnetNetworkDetailsByExtensions?ext_value=^M&org_name=test&entity=subnet&ext_name=test
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>entity</b> <i>required</i>	Entity Value	string	
Query	<b>ext_name</b> <i>required</i>	Extension Name	string	
Query	<b>ext_value</b> <i>required</i>	Extension Value	string	
Query	<b>mask_lenght</b> <i>required</i>	Mask Length	integer(int32)	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	



## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Subnet Information</a> > array

## Consumes

- text/plain
- application/json

## Produces

- application/json
- application/xml

### 4.150.12. Extension Attribute Name and value

```
GET /xtn/nvp_list
```

## Description

Provides the extended attributes name and its values present in Network, Subnet, Object, Zone, Reverse Zone, Resource Record or Admin based on entity and organization.

The example listed below shows a sample request URL:

```
/rest/xtn/nvp_list?entity=network&key=10.0.0.0&org_name=Internal
```

**Note: entity can be network, subnet, object, zone, admin, revzone or rr**

## Parameters

Type	Name	Description	Schema	Default
Query	<b>entity</b> <i>required</i>	entity	string	
Query	<b>key</b> <i>required</i>	key	string	
Query	<b>org_id</b> <i>optional</i>	org_id	integer(int32)	
Query	<b>org_name</b> <i>required</i>	org_name	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Xtn NVP</a> > array

## Consumes

- text/plain

## Produces

- application/json
- application/xml

### 4.151. Zone Service

## Description

This service provides API's to get list of Zones present in the TCPWave IPAM, add Zones, update Zones, delete Zones, add,update and delete Root Zone, add,update and delete Proxy Root Zone in the TCPWave IPAM.

#### 4.151.1. Zone Add

```
POST /zone/add
```

## Description

Creates a new Zone by checking if it overlaps with the existing zones defined in the TCPWave IPAM. Functional Admin can create a new Zone for any organization. Rest of the admins can create a new Zone only for the organizations that they are associated with. Refer to the Administrator reference documentation for additional information about the Zones.

Sample payloads with mandatory parameters to add a zone are listed below.

### Create Zone with mandatory fields

```
{ "name": "zone.com", "template_name": "z_t", "organization_name": "QAOrg" }
```

### Create Zone with DNSSEC Enabled

```
{ "name": "zone.com", "template_name": "z_t", "organization_name": "QAOrg", "dnssec_enable": "yes", "nsec_option": "NSEC3" }
```

### Create Zone with Restricted Zone

```
{ "name": "zone.com", "template_name": "z_t", "organization_name": "QAOrg", "restrictedZone": "yes" }
```

### Create Zone with Monitoring Service Enabled

```
{ "name": "zone.com", "template_name": "z_t", "organization_name": "QAOrg", "monitoringService": "yes" }
```

### Create Zone with DMZ Visibility

```
{ "name": "zone.com", "template_name": "z_t", "organization_name": "QAOrg", "dmzVisible": "yes" }
```

### Create Zone with Active Directory Updates Enabled

```
{ "name": "zone.com", "template_name": "z_t", "organization_name": "QAOrg", "activeDirectoryEnable": "yes" } { "name": "test.com", "activeDirectoryEnable": "no", "description": "Testing REST API", "dmzVisible": "no", "dnssec_enable": "no", "organization_name": "QAOrg", "serial_format": "DATE", "template_name": "QA Standard
```

```
Template", "zoneRR": [], "Create Zone with Non Managed Name Servers":
{"name": "zone.com", "template_name": "z_t", "organization_name": "QAOrg", "nonmanagedNS":
[{"ns_fqdn": "nameserver.domain.com", "ns_ip": "10.1.10.12"},
{"ns_fqdn": "nameserver1.domain.com", "ns_ip": "31.1.1.12"}], "is_tsig": 1}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Zone</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation, TIMS-1352: Cannot find organization: <Organization Name>, TIMS-5031: Both template name and id cannot be null, TIMS-5020: Template does not exist: <Template Name>, TIMS-5039: Template does not exist for organization, TIMS-1356: Zone already exists: <Zone Name>, TIMS-3209: Zone <Zone Name> is already delegated in the root zone(organization:<Organization Name>). Cannot add it as a managed zone in the TCPWave IPAM, TIMS-1430: Cannot create a zone: <Zone Name> as there is a forward only zone already exists with this name, TIMS-1440: Cannot create a restricted zone: <Zone Name> as it is associated with one or more subnets as a primary domain, TIMS-1441: Cannot create a restricted zone: <Zone Name> as it is associated with one or more subnets as a secondary domain, TIMS-1436: Cannot create a restricted zone: <Zone Name> as it is associated with one or more objects, TIMS-1349: DNS Configuration sync failed with error: <Error Message>, TIMS-1437: Cannot create a restricted zone: <Zone Name> as it is associated with one or more resource records, TIMS-10102: Both view id and view name cannot be null, TIMS-10103: DNS View does not exist for name: <View Name>, TIMS-3025: Resource Records already exist, TIMS-1399: Domain Controller does not exist: <IP Address>, TIMS-1423: Selected zone template has one or more stealth servers. AD enabled zones should not contain any stealth servers. Please select a different zone template	No Content

#### Consumes

- `application/json`
- `application/xml`

#### 4.151.2. Zone List

```
GET /zone/aliasRRslist
```

#### Description

Provides a paginated list of Alias Resource Records in a Zone Defined in the TCPWave IPAM. The example listed below shows a sample request URL:  
/rest/zone/aliasRRslist?zonename=zone.com&orgname=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgname</b> <i>required</i>	Organization Name	string	
Query	<b>zonename</b> <i>required</i>	Zone Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">CloudRR</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.151.3. Zone Auto Force Sync Update

```
POST /zone/autoForceSync
```

#### Description

Enables Auto force sync or Disables Auto force sync for an existing Zone in TCPWave IPAM. Functional Admin gets the provision to enable or disable auto force sync in all organization but rest of the Admins gets this provision for the organizations that they are associated with. Refer to the Administrator reference documentation for additional information about Monitoring.

Sample payload with mandatory parameters for enable or disable auto force sync zone is listed below.

```
{ "name": "test.com", "autoForceSync": "no", "organization_name": "Internal",
{ "name": "_udp.tcpwave.com", "autoForceSync": "no", "organization_name": "Internal" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">Zone</a> > array	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7003: You are not authorized to perform this operation, TIMS-1352: Cannot find organization: <Organization Name>, TIMS-1422: Zone does not exist: <Zone Name>	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- text/plain
- application/json
- application/xml

#### 4.151.4. Object Duplicate Name Checker

```
GET /zone/checkDuplicateZoneRRName
```

#### Description

Check for the occurrence of an object with the same name.

The example listed below shows a sample request URL:

```
/rest/zone/checkDuplicateZoneRRName?name=objectNameTest&domain_name=domain.com&orgName=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>domain_name</b> <i>required</i>	Domain Name	string	
Query	<b>name</b> <i>required</i>	Object Name	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.151.5. Check if IP address exists in the organization

```
GET /zone/checkIfIPExists
```

#### Description

Checks whether IP address is used in the given organization in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/zone/checkIfIPExists?orgName=Internal&ip=12.1.1.22
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ip</b> <i>required</i>	IP Address	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation TIMS-15039: IP address cannot be null or empty. TIMS-1916: Organization name cannot be null. TIMS-1352: Organization does not exist: {0} TIMS-15037: IP address {0} is used in the organization {1} in the TCPWave IPAM.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.151.6. Check RR is Restricted Zone

```
GET /zone/check_rr_is_rtd_zone
```

#### Description

Checks if a DNS Zone A record is in a restricted zone. Restricted zones have a special behavior in the TCPWave IPAM. Refer to the Administrator reference documentation for additional information about the restricted zones.

The example listed below shows a sample request URL:

```
/rest/zone/check_rr_is_rtd_zone?owner=k1.com.zone.com.&zone_name=zone.com&org_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>owner</b> <i>optional</i>	Owner Name	string	
Query	<b>zone_name</b> <i>required</i>	Zone Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	boolean
500	TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-1422: Zone does not exist: <Zone Name> , TIMS-1444: Cannot create a resource record as there is a restricted zone defined with the name: <Zone Name>.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.151.7. Verification of AAAA Resource Record

```
GET /zone/check_for_AAAA_RR
```

#### Description

Checks if AAAA record exists with the given owner name.

The example listed below shows a sample request URL:

```
/rest/zone/check_for_AAAA_RR?owner=Owner Name:k1.com.zone.com.
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>owner</b> <i>required</i>	Owner Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	boolean
500	TIMS-3255: No AAAA record found for given owner name: <Owner Name> Please enter a valid AAAA record name.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.151.8. Verification of A or CNAME Resource Records

```
GET /zone/check_for_A_CNAME_RR
```

#### Description

Checks if A or CNAME record exists with the given owner name. If the global option: Allow CNAME Daisy Chaining is enabled, this API checks for A and CNAME records otherwise it checks for only A records present in the IPAM with the given name.

The example listed below shows a sample request URL:

## Parameters

Type	Name	Description	Schema	Default
Query	<b>is_restricted</b> <i>required</i>	Is Restricted	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>owner</b> <i>required</i>	Owner Name	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	boolean
500	TIMS-3260: The global option: Allow CNAME Daisy Chaining is disabled. So CNAME chaining is not allowed.	No Content

## Consumes

- text/plain

## Produces

- text/plain

## 4.151.9. Verification of A Resource Record

```
GET /zone/check_for_A_RR
```

## Description

Checks if A record exists with the given owner name.

The example listed below shows a sample request URL:

```
/rest/zone/check_for_A_RR?owner=k1.com.zone.com.&orgName=Internal&is_restricted=0
```

## Parameters

Type	Name	Description	Schema	Default
Query	<b>is_restricted</b> <i>required</i>	Is Restricted	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>owner</b> <i>required</i>	Owner Name	string	

## Responses

HTTP Code	Description	Schema
200	successful operation	boolean
500	TIMS-3254: No A record found for given owner name: {0} Please enter a valid A record name.	No Content

## Consumes

- text/plain

## Produces

- text/plain

## 4.151.10. Verification of MX Resource Record

```
GET /zone/check_for_MX_RR
```

## Description

Checks if MX record exists with the given owner name.

The example listed below shows a sample request URL:

```
/rest/zone/check_for_MX_RR?owner=mx.tcpwave.com.&org_name=Internal
```

## Parameters

Type	Name	Description	Schema	Default
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>owner</b> <i>required</i>	Owner Name	string	

## Responses

HTTP Code	Description	Schema

HTTP Code	Description	Schema
200	successful operation	boolean
500	TIMS-1735: No MX record found for the given owner name: {0} Please enter a valid MX record name., TIMS-1352: Organization does not exist: <Given Organization Name>.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.151.11. Check NS Record In Proxy Root Zone

```
GET /zone/check_ns_in_proxy
```

#### Description

Checks the DNS Zone Delegation records in the DNS Proxy Zone. It is mandatory to have valid name server delegations in the DNS Proxy root zone for name resolution to function properly when third parties are involved.

The example listed below shows a sample request URL:

```
/rest/zone/check_ns_in_proxy?owner=k1.com.&data=k1.com.zone.com.&org_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>data</b> <i>required</i>	NS Record Data	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>owner</b> <i>required</i>	Owner Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	boolean
500	TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-1434: No matching NS record found on the given proxy root server.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.151.12. Zone Check NS Record In Root Zone

```
GET /zone/check_ns_in_root
```

#### Description

Checks the DNS Zone Delegation records in the Root Zone. It is mandatory to have valid name appliance delegations in the root zone so that recursive caches can follow the appropriate delegation and can perform a DNS lookup properly on the behalf of an end user or an application.

Below are the sample query parameter values accepted:

```
/rest/zone/check_ns_in_root?owner=k1.com.&org_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>owner</b> <i>required</i>	Owner Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	boolean
500	TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-1435: NS record is referencing in the root zone. Please delete the reference and try again.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.151.13. Zone Clone

```
POST /zone/clone
```

##### Description

Creates a new Zone by using other zone details in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/zone/clone?existing_zone=zone1.com&new_zone=zone2.com&org_name=Internal
```

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>existing_zone</b> <i>required</i>	Existing Zone Name	string	
Query	<b>new_zone</b> <i>required</i>	New Zone Name	string	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	

##### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation, TIMS-1352: Cannot find organization: <Organization Name>, TIMS-5031: Both template name and id cannot be null, TIMS-5039: Template does not exist for organization, TIMS-1356: Zone already exists: <Zone Name>, TIMS-3209: Zone <Zone Name> is already delegated in the root zone(organization:<Organization Name>). Cannot add it as a managed zone in the TCPWave IPAM, TIMS-1430: Cannot create a zone: <Zone Name> as there is a forward only zone already exists with this name, TIMS-1440: Cannot create a restricted zone: <Zone Name> as it is associated with one or more subnets as a primary domain, TIMS-1441: Cannot create a restricted zone: <Zone Name> as it is associated with one or more subnets as a secondary domain, TIMS-1436: Cannot create a restricted zone: <Zone Name> as it is associated with one or more objects, TIMS-1349: DNS Configuration sync failed with error: <Error Message>, TIMS-1437: Cannot create a restricted zone: <Zone Name> as it is associated with one or more resource records, TIMS-10102: Both view id and view name cannot be null, TIMS-10103: DNS View does not exist for name: <View Name>, TIMS-3025: Resource Records already exist, TIMS-1399: Domain Controller does not exist: <IP Address>, TIMS-1423: Selected zone template has one or more stealth servers. AD enabled zones should not contain any stealth servers. Please select a different zone template	No Content

##### Consumes

- application/json
- application/xml

#### 4.151.14. Zone Delete

```
GET /zone/delete/{zoneName}
```

##### Description

Deletes an existing Zone in the TCPWave IPAM. Functional Admin can delete a Zone for any organization. Rest of the admins can delete a Zone only for the organizations that they are associated with.

The example listed below shows a sample request URL:

```
/rest/zone/delete/zone.com
```

##### Parameters

Type	Name	Description	Schema	Default
Path	<b>zoneName</b> <i>required</i>	Name of the Zone	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	boolean
500	TIMS-1422: Zone does not exist: <Zone Name>	No Content

##### Consumes

- application/json
- application/xml

#### 4.151.15. Zone List

```
GET /zone/dnssec_enabled_list
```

##### Description

Provides the list of DNSSEC Enabled Zones defined in the TCPWave IPAM for a specified organization.

The example listed below shows a sample request URL:

```
/rest/zone/dnssec_enabled_list?orgName=Internal
```

##### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Query	<b>orgName</b> <i>required</i>	Organization name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Zone</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.151.16. DS Resource Record checks

```
GET /zone/dsrecord_checks
```

#### Description

Checks if NS record exists with the given owner name and if any domain exists.

Below example shows sample request url:

```
/tims/rest/zone/dsrecord_checks?owner=ds.tcpwave.com.&org_name=QAOrg&zone_name=domain.com
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>owner</b> <i>required</i>	Owner Name	string	
Query	<b>zone_name</b> <i>required</i>	Zone Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	boolean
500	TIMS-15081: No external NS record found for the given owner name: {0} Please enter a valid NS record name., TIMS-1352: Organization does not exist: <Given Organization Name>.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.151.17. Zone Exclude From Sync Update

```
POST /zone/excludeFromSync
```

#### Description

Exclude or Include to sync for an existing Zone in TCPWave IPAM. Functional Admin gets the provision to excludes or includes zone to sync in all organization but rest of the Admins gets this provision for the organizations that they are associated with. Refer to the Administrator reference documentation for additional information about exclude from sync.

Sample payload with mandatory parameters to exclude or include zone from sync is listed below.

```
{
  "name": "test.com",
  "excludeFromSync": "no",
  "organization_name": "Internal",
  "name": "_udp.tcpwave.com",
  "excludeFromSync": "no",
  "organization_name": "Internal"
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">Zone</a> > array	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-7003: You are not authorized to perform this operation, TIMS-1352: Cannot find organization: <Organization Name>, TIMS-1422: Zone does not exist: <Zone Name>	No Content

#### Consumes



- application/json
- application/xml

#### Produces

- text/plain
- application/json
- application/xml

#### 4.151.18. Zone Force Sync

GET /zone/forcesynczones

#### Description

Synchronizes the DNS zone data for a given zone or a subset of zones by fetching all the resource records specified from the TCPWave data repository. The DNS zone files are constructed as per the TCPWave Product Engineering's specifications with various integrity checks embedded into them. The files are then compressed and transmitted to the remote using an encrypted T-Message secure tunnel. The compressed files are uncompressed on the remote and the DNS process on the remote is signaled to read the updated contents. The administrator performing this action is required to have sync permission.

The example listed below shows a sample request URL:

/rest/zone/forcesynczones?zoneOrgNames=zone.com-@-Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	zoneOrgNames <i>required</i>	Zone with organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Zone Force Sync</a> > array
500	TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-1422: Zone does not exist: <Zone Name>	No Content

#### Consumes

- application/json
- application/xml
- text/plain

#### Produces

- application/json
- application/xml
- text/plain

#### 4.151.19. Geo Locations List

GET /zone/geolocations

#### Description

Provides a list of geo locations for Alias Resource Records in a Zone Defined in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/zone/geolocations?orgname=Internal&zoneTemplate=testTemplate

#### Parameters

Type	Name	Description	Schema	Default
Query	orgname <i>required</i>	Organization Name	string	
Query	zoneTemplate <i>optional</i>		string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">CloudGeoLocations</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.151.20. Get RR List

GET /zone/get

### Description

Gets the Resource Record details for the given Zone in the TCPWave IPAM. Functional Admin can get Resource Record of a Zone in any organization. Rest of the Admins gets this provision for the organizations that they are associated with.

The example listed below shows a sample request URL:

/rest/zone/get?domainName=domain.com&orgName=QAOrg&isProxy

### Parameters

Type	Name	Description	Schema	Default
Query	<b>domainName</b> <i>required</i>	Name of the zone	string	
Query	<b>isProxy</b> <i>required</i>	Proxy flag for the DNS root zone	integer(int32)	
Query	<b>orgName</b> <i>required</i>	Name of the Organization in which zone exist	string	
Query	<b>zoneID</b> <i>optional</i>	Id of the zone	integer(int32)	

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Resource Record</a> > array
500	TIMS-1321: Domain does not exist: <Zone Name>, TIMS-1352: Cannot find organization: <Organization Name>, TIMS-1403: Zone id cannot be null	No Content

### Consumes

- text/plain

### Produces

- application/json

### 4.151.21. Gets all the A records for a given zone in a given organization.

GET /zone/getAllARecords

### Description

Gets all the A records defined at object and zone level for a given zone in a given organization.

The example listed below shows a sample request URL:

/rest/zone/getAllARecords?orgName=Internal&name=zone.com

### Parameters

Type	Name	Description	Schema	Default
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>id</b> <i>optional</i>	Zone Id	integer(int32)	
Query	<b>length</b> <i>optional</i>	Page Length	integer(int32)	
Query	<b>name</b> <i>required</i>	Zone Name	string	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>orgId</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>optional</i>	Start Page Number	integer(int32)	

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PagedListResource Record</a>

### Consumes

- application/json

- application/xml

#### Produces

- application/json
- application/xml

#### 4.151.22. Get DNSSEC Keys information for the Managed DNS Zone

```
GET /zone/getDNSSECInfo
```

#### Description

Gives the DNSSEC Keys information for the Managed DNS Zone.

The example listed below shows a sample request URL:

```
/rest/zone/getDNSSECInfo?orgName=Internal&name=zone.com&isKsk=0/1
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>id</b> <i>optional</i>	Zone ID	integer(int32)	
Query	<b>isKsk</b> <i>required</i>	Key Type	integer(int32)	
Query	<b>name</b> <i>required</i>	Zone Name	string	
Query	<b>orgId</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< string(date-time) > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.151.23. Get DS(Delegation Signer) record for the Managed Zone

```
GET /zone/getDSRecord
```

#### Description

Gives the DS(Delegation Signer) record for the Managed Zone.

The example listed below shows a sample request URL:

```
/rest/zone/getDSRecord?orgName=Internal&name=zone.com
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>id</b> <i>optional</i>	Zone ID	integer(int32)	
Query	<b>name</b> <i>required</i>	Zone Name	string	
Query	<b>orgId</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< string > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.151.24. Get Proxy Root Zone RR List

```
GET /zone/getProxyRR
```

### Description

Lists the RRs for the given Proxy Root Zone in the TCPWave IPAM. Functional Admin can list RR of a Proxy Root Zone in any organization. Rest of the Admins gets this provision for the organizations that they are associated with.

The example listed below shows a sample request URL:

/rest/zone/getProxyRR?domainName=zone.com&orgName=Internal&isProxy=0/1

### Parameters

Type	Name	Description	Schema	Default
Query	<b>domainName</b> <i>required</i>	Name of the zone	string	
Query	<b>isProxy</b> <i>required</i>	Is Proxy	integer(int32)	
Query	<b>orgID</b> <i>optional</i>	Id of the organization	integer(int32)	
Query	<b>orgName</b> <i>required</i>	Name of the Organization in which zone exist	string	
Query	<b>zoneID</b> <i>optional</i>	Id of the zone	integer(int32)	

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Resource Record</a> > array
500	TIMS-1321: Domain does not exist: <Zone Name>, TIMS-1352: Cannot find organization: <Organization Name>, TIMS-1403: Zone id cannot be null	No Content

### Consumes

- text/plain

### Produces

- application/json

### 4.151.25. Zone Get

POST /zone/getZone

### Description

Gets all the Zones associated with an organization in the TCPWave IPAM. Functional Admin can get the Zones for any organization. Rest of the admins can get the Zones only for the organizations that they are associated with.

Below example shows sample request JSON:

```
{ "name":"qa-zone.com","organization_name":"Internal" }
```

### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Zone</a>	

### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Zone</a>
500	TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-1422: Zone does not exist: <Zone Name>	No Content

### Consumes

- application/json
- application/xml

### Produces

- application/json
- application/xml

### 4.151.26. Zone Get Data

GET /zone/getZoneData

### Description

Gets all the Resource Records associated with the specified Zone in the TCPWave IPAM. Functional Admin have this provision for any organization . Rest of the admins have this provision only for the organizations that they are associated with.

The example listed below shows a sample request URL:

/rest/zone/getZoneData?domainName=domain.com&orgName=Internal

### Parameters

Type	Name	Description	Schema	Default
------	------	-------------	--------	---------

Type	Name	Description	Schema	Default
Query	<b>domainName</b> <i>required</i>	Domain Name	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Resource Record</a> > array
500	TIMS-4005: User id is not valid: <User id>, TIMS-4006: first_name, last_name, or email_id cannot be null, TIMS-4007: User does not exist: <User First Name> <User Last Name> <User Mail Id>, TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-1422: Zone does not exist: <Zone Name>, TIMS-3010: Object does not exist: <Object Address>, TIMS-1328: Zone name cannot be null	No Content

#### Consumes

- text/plain

#### Produces

- application/json

#### 4.151.27. Zone Records List

```
GET /zone/getZoneRecords
```

#### Description

Provides a paginated list of resource records along with its SOA record and name server records for the specified zone defined in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/zone/getZoneRecords?zoneName=zone.com&orgName=Internal&start=1&length=20
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>isProxy</b> <i>optional</i>	Proxy flag for the zone	integer(int32)	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sorting Order(asc/desc)	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Query	<b>sort</b> <i>optional</i>	Sorting String	string	
Query	<b>start</b> <i>required</i>	Start Page Number	integer(int32)	
Query	<b>zoneName</b> <i>required</i>	Zone Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListResource Record</a>
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.151.28. Get Zone TTL

```
GET /zone/getZoneTTL
```

#### Description

Gets the TTL value associated with the specified Zone in the TCPWave IPAM. Functional Admin have this provision for any organization . Rest of the admins have this provision only for the organizations that they are associated with.

The example listed below shows a sample request URL:

/rest/zone/getZoneTTL?domainName=domain.com&orgName=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>domainName</b> <i>required</i>	Domain Name	string	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	integer(int32)
500	TIMS-4005: User id is not valid: <User id>, TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-1422: Zone does not exist: <Zone Name>, TIMS-3010: Object does not exist: <Object Address>, TIMS-1328: Zone name cannot be null	No Content

#### Consumes

- text/plain

#### Produces

- application/json

#### 4.151.29. Get Resource Records Information Before Merging With Cloud

```
POST /zone/getmergezoneinfo
```

#### Description

Get the resource records that will be added or deleted in the zone in IPAM before confirming the merge operation with cloud.

The example listed below shows a sample request URL:

/rest/zone/getmergezoneinfo?zonename=zone.com&orgname=Internal&cloudprovider=aws

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cloudprovider</b> <i>required</i>	Cloud Provider	string	
Query	<b>orgname</b> <i>required</i>	Organization Name	string	
Query	<b>zonename</b> <i>required</i>	Zone name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">ManagedZonesInfo</a>
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.151.30. Zone List By Organization

```
GET /zone/getzonelistbyorg
```

#### Description

Provides a list of Zones in the given organization managed by the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/zone/getzonelistbyorg?orgName=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgName</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
-----------	-------------	--------

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Zone</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.151.31. Health Check ids List

```
GET /zone/healthchecks
```

#### Description

Provides a list of health check information for Alias Resource Records in a Zone Defined in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/zone/healthchecks?orgname=Internal&zoneTemplate=testTemplate
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgname</b> <i>required</i>	Organization Name	string	
Query	<b>zoneTemplate</b> <i>optional</i>		string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">CloudHealthCheckerforAliasRRS</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.151.32. Zone is Frozen or not

```
GET /zone/isFrozen
```

#### Description

Checks if the queried Zone is in frozen state or not.

The example listed below shows a sample request URL:

```
/rest/zone/isFrozen?zone_name=zone.com&org_name=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>zone_name</b> <i>required</i>	Zone Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-1422: Zone does not exist: <Zone Name>, TIMS-3088: Server IP address is null, TIMS-1455: Given domain is not a valid domain name. Please give a valid domain name.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.151.33. Zone List

```
GET /zone/list
```

#### Description

Provides a paginated list of Zones defined in the TCPWave IPAM. Functional Admin gets the list of all zones. Rest of the Admins get only the list of zones associated with the organization that they belong to.

The example listed below shows a sample request URL:

```
/rest/zone/list?revZone=0/1
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>revZone</b> <i>optional</i>	List all forward zones if revZone value is 0 (default), if revZone value is 1 it will list all the reverse zones	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Zone</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.151.34. List Appliances

```
GET /zone/list-servers
```

#### Description

Lists all DNS Appliances for the given zone or template in a given organization in the TCPWave IPAM. Functional Admin can list all DNS Appliances for the given zone or template for any organization, while rest of the admins have the provision only for the organizations that they are associated with. Refer to the Administrator reference documentation for additional information about the DNS Appliances.

Below are the sample query parameter values accepted:

```
/rest/zone/list-servers?type=zone&name=zone.com&organization=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	The name is either zone name or template name	string	
Query	<b>organization</b> <i>required</i>	Name of the organization	string	
Query	<b>type</b> <i>required</i>	The type is either zone or template	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Server Information</a> > array
500	TIMS-1352: Cannot find organization: <Organization Name>, TIMS-1414: Type is not valid, TIMS-1422: Zone does not exist: <Zone Name>, TIMS-5020: Template does not exist: <Template Name>	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.151.35. List Zone Resource Records

```
GET /zone/listZoneRRs
```

#### Description

List all the records of specified type of a managed zone in the given organization in the TCPWave IPAM. If record type or name is not specified, then it will list all the resource records.

The example listed below shows a sample request URL:

```
/rest/zone/listZoneRRs?orgName=Internal&zone=zone.com&recordType=CNAME
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgName</b> <i>required</i>	Organization Name	string	



Type	Name	Description	Schema	Default
Query	<b>owner</b> <i>optional</i>	Owner Name	string	
Query	<b>recordType</b> <i>optional</i>	Record Type	string	
Query	<b>zone</b> <i>required</i>	Zone Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Resource Record</a> > array
500	TIMS-7003: You are not authorized to perform this operation TIMS-1328: Zone name cannot be null. TIMS-1916: Organization name cannot be null. TIMS-1352: Organization does not exist: {0} TIMS-1422: Managed zone does not exist with the name: {0}	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.151.36. Zone List For Appliance View

```
GET /zone/listforserverview
```

#### Description

Lists all the Views for an existing Appliance in the TCPWave IPAM. Functional Admin have this provision for any organization . Rest of the admins have this provision only for the organizations that they are associated with. The example listed below shows a sample request URL:

```
/rest/zone/listforserverview?server_ip=10.0.0.2&view_name=v2
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organization</b> <i>required</i>	Organization Name	string	
Query	<b>server_id</b> <i>optional</i>	Appliance Id	string	
Query	<b>server_ip</b> <i>required</i>	Appliance IP Address	string	
Query	<b>view_id</b> <i>optional</i>	View Id	string	
Query	<b>view_name</b> <i>required</i>	View Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Zone</a> > array
500	TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-7003: You are not authorized to perform this operation, TIMS-3050: Both Appliance id and address cannot be null, TIMS-3091: Appliance does not exist, TIMS-10102: Both view id and view name cannot be null, TIMS-10103: DNS View does not exist for name	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.151.37. Manual Key Rollover for the Managed DNS Zone.

```
GET /zone/manualKeyRollover
```

#### Description

Manual Key Rollover for the Managed DNS Zone.

The example listed below shows a sample request URL:

```
/rest/zone/manualKeyRollover?orgName=Internal&name=zone.com&isKsk=0/1
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>id</b> <i>optional</i>	Zone ID	integer(int32)	
Query	<b>isKsk</b> <i>required</i>	Key Type	integer(int32)	
Query	<b>name</b> <i>required</i>	Zone Name	string	
Query	<b>orgId</b> <i>optional</i>	Organization ID	integer(int32)	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< string(date-time) > array

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.151.38. Merge Zone With Cloud

POST /zone/mergezonewithcloud

#### Description

Merge zone in the TCPWave IPAM with the zone in the cloud. The resource records present in the selected zone in the IPAM that are not present in the zone in cloud will be retained. New resource records from the zone in cloud will be added to the zone in the IPAM. The resource records with same name in the IPAM will be overridden with the resource records from the cloud.

The example listed below shows a sample request URL:

/rest/zone/mergezonewithcloud?zonename=zone.com&orgname=Internal&cloudProvider=aws

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cloudprovider</b> <i>required</i>	Cloud Provider	string	
Query	<b>orgname</b> <i>required</i>	Organization Name	string	
Query	<b>zonename</b> <i>required</i>	Zone name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.151.39. Zone Monitoring Update

POST /zone/monitoring

#### Description

Enables Monitoring or Disables Monitoring for an existing Zone in TCPWave IPAM. Functional Admin gets the provision to enable or disable monitoring in all organization but rest of the Admins gets this provision for the organizations that they are associated with. Refer to the Administrator reference documentation for additional information about Monitoring.

Sample payload with mandatory parameters for enable or disable monitoring zone is listed below.

```
{ "name": "test.com", "monitoringService": "no", "organization_name": "Internal",
  { "name": "_udp.tcpwave.com", "monitoringService": "no", "organization_name": "Internal" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">Zone</a> > array	

## Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation, TIMS-1352: Cannot find organization: <Organization Name>, TIMS-1422: Zone does not exist: <Zone Name>	No Content

## Consumes

- application/json
- application/xml

### 4.151.40. Zone Delete Multiple

```
POST /zone/multidelete
```

## Description

Deletes Multiple Zones in the TCPWave IPAM. Functional Admin can Delete Multiple Zones for any organization. Rest of the admins can Delete Multiple Zones only for the organizations that they are associated with.

Sample payload with mandatory parameters to delete multiple zone is listed below. Below example is to delete two zone. User can delete as much as they want to delete.

```
{ "name": "zone1.com", "organization_name": "Internal"}, { "name": "zone2.com", "organization_name": "Internal" }
```

## Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< <a href="#">Zone</a> > array	

## Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation, TIMS-1352: Cannot find organization: <Organization Name>, TIMS-1406: Zone(s) does(do) not exist, TIMS-1209: Active Directory enabled zone(s) cannot be deleted, TIMS-1325: Zones delete failed as they are referenced in objects. Please delete those references and try again, TIMS-1327: Zones delete failed as they are referenced in subnet domains. Please delete those references and try again, TIMS-1329: Zones delete failed as they are referenced in IPv6 subnet domains. Please delete those references and try again, TIMS-1326: Zones delete failed as they are referenced in subnets. Please delete those references and try again.	No Content

## Consumes

- application/json
- application/xml

### 4.151.41. Zone List

```
GET /zone/page
```

## Description

Provides a paginated list of Zones defined in the TCPWave IPAM. Functional Admin gets the list of all zones. Rest of the Admins get only the list of zones associated with the organization that they belong to.

The example listed below shows a sample request URL:

```
/rest/zone/page?start=1&length=20
```

## Parameters

Type	Name	Description	Schema	Default
Query	<b>customFilterRules</b> <i>optional</i>	Custom Filter String	string	
Query	<b>draw</b> <i>optional</i>	Page Draw Param	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sorting Order(asc/desc)	string	
Query	<b>organizations</b> <i>optional</i>	Organization Names	string	
Query	<b>sort</b> <i>optional</i>	Sorting String	string	
Query	<b>start</b> <i>required</i>	Start Page Number	integer(int32)	

## Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListZone</a>

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.151.42. Resolution Policy List

```
GET /zone/policy/get
```

#### Description

Gets the list of the resolution policies.

The example listed below shows a sample request URL:

/rest/zone/policy/get?name=sampleAmerica&organization\_name=Internal&zone\_name=policy.com

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>optional</i>	Resolution Policy Name	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>zone_name</b> <i>required</i>	Zone Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">ResolutionPolicy</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.151.43. Proxy Root Zone Add

```
POST /zone/proxyroot/add
```

#### Description

Creates a new Proxy Root Zone in the TCPWave IPAM. Functional Admin can create a Proxy Root Zone for any organization. Rest of the admins can create Proxy Root Zone only for the organizations that they are associated with. Refer to the Administrator reference documentation for additional information about the Proxy Root Zone.

Sample payload with mandatory parameters to add a Proxy Root Zone is listed below.

```
{ "organization_name": "EARTH", "name": ".", "template_name": "EARTH-PROXYROOTZONE", "template": { "template_name": "EARTH-
```

```
PROXYROOTZONE", "organization_name": "EARTH", "description": "", "entity_type_code": "ZONE", "server_type_code": "GENERICDNS", "reference_type": "Root Zone Specific", "array_templates": [ { "param_name": "default-ttl", "numeric_value": "86400" }, { "param_name": "email-addr", "value": "admin@gmail.com" }, { "param_name": "refresh", "numeric_value": "21600" }, { "param_name": "retry", "numeric_value": "3600" }, { "param_name": "expire", "numeric_value": "604800" }, { "param_name": "negative-cache-ttl", "numeric_value": "86400" }, { "param_name": "master-dns-servers", "activeServers": "10.0.0.1" } ] }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Zone</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Cannot find organization: <Organization Name>, TIMS-1101: Cannot find template for name: <Template Name>, TIMS-3011: Resource record already exists.	No Content

#### Consumes

- application/json
- application/xml

#### 4.151.44. Proxy Root Zone List

### Description

Lists all Proxy Root Zones defined in the TCPWave IPAM. Functional Admin can list Proxy Root Zones for any organization. Rest of the admins can list Proxy Root Zones only for the organizations that they are associated with. Refer to the Administrator reference documentation for additional information about the Proxy Root Zones.

The example listed below shows a sample request URL:

/rest/zone/proxyroot/list?organizations=Internal

### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Name of Organizations	string	

### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Zone</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

### Consumes

- text/plain

### Produces

- application/json
- application/xml

#### 4.151.45. Proxy Root Zone Multiple Delete

POST /zone/proxyroot/multidelete

### Description

Deletes Multiple Proxy Root Zones in the TCPWave IPAM. Functional admin can delete multiple Proxy Root Zones for any organization. Rest of the admins can Multiple Proxy Root Zones only for the organizations that they are associated with. Refer to the Administrator reference documentation for additional information about the Proxy Root Zones.

Below example shows sample request JSON:

```
["Internal"]
```

### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< string > array	

### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation, TIMS-1307: Root zone(s) does(do) not exist	No Content

### Consumes

- application/json
- application/xml

#### 4.151.46. Proxy Root Zone Edit

POST /zone/proxyroot/update

### Description

Updates an existing Proxy Root Zone in the TCPWave IPAM. Functional Admin can update a Proxy Root Zone for any organization. Rest of the admins can update a Proxy Root Zone only for the organizations that they are associated with. Refer to the Administrator reference documentation for additional information about the Proxy Root Zones.

Below example shows sample request JSON:

```
{
  "description": "",
  "name": ".",
  "organization_name": "EARTH",
  "serial_format": "DATE",
  "template_name": "EARTH-PROXYROOTZONE",
  "zoneRR": [],
  "template": {
    "template_name": "EARTH-PROXYROOTZONE",
    "organization_name": "EARTH",
    "description": "",
    "entity_type_code": "ZONE",
    "server_type_code": "GENERICDNS",
    "reference_type": "Root Zone Specific",
    "array_templates": [
      {
        "param_name": "default-ttl",
        "numeric_value": "86400"
      },
      {
        "param_name": "email-addr",
        "value": "admin_1@gmail.com",
        "param_name": "refresh",
        "numeric_value": "21600",
        "param_name": "retry",
        "numeric_value": "3600",
        "param_name": "expire",
        "numeric_value": "604800",
        "param_name": "negative-cache-ttl",
        "numeric_value": "86400",
        "param_name": "serial",
        "value": "DATE",
        "param_name": "allow-query",
        "aclList": [
          {
            "exclude": "0",
            "value": "1.1.1.1",
            "sequence": "1"
          }
        ],
        "param_name": "master-dns-servers",
        "value": "959",
        "old_template_name": "EARTH-PROXYROOTZONE",
        "old_name": ".",
        "updateSubZone": false
      }
    ]
  }
}
```

### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Zone</a>	

### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Cannot find organization: <Organization Name>, TIMS-1415: Zone or Domain already exists: <Zone Name>, TIMS-1414: Zone does not exist: <Zone Name>, TIMS-1101: Cannot find template for name: <Template Name>, TIMS-3011: Resource record already exists.	No Content

#### Consumes

- application/json
- application/xml

#### 4.151.47. Root Zone Add

```
POST /zone/root/add
```

#### Description

Create a new Root Zone in the TCPWave IPAM . Functional Admin can create a Root Zone for any organization. Rest of the admins can create Root Zone only for the organizations that they are associated with. Refer to the Administrator reference documentation for additional information about the Root Zones.

Sample payloads with mandatory parameters to add a Root Zone are listed below.

#### Create Root Zone

```
{
  "organization_name": "Internal",
  "name": ".",
  "template_name": "Internal-ROOTZONE",
  "template": {
    "template_name": "Internal-ROOTZONE",
    "organization_name": "Internal",
    "description": "",
    "entity_type_code": "ZONE",
    "server_type_code": "GENERICDNS",
    "reference_type": "Root Zone Specific",
    "array_templates": [
      {
        "param_name": "default-ttl",
        "numeric_value": "86400"
      },
      {
        "param_name": "email-addr",
        "value": "abc@gmail.com",
        "param_name": "refresh",
        "numeric_value": "21600"
      },
      {
        "param_name": "retry",
        "numeric_value": "3600"
      },
      {
        "param_name": "expire",
        "numeric_value": "604800"
      },
      {
        "param_name": "negative-cache-ttl",
        "numeric_value": "86400"
      },
      {
        "param_name": "master-dns-servers",
        "value": "10.0.0.4"
      }
    ]
  }
}
```

#### Create Root Zone with DNSSEC Enabled

```
{
  "dnssec_enable": "yes",
  "nsec_option": "NSEC3",
  "organization_name": "Internal",
  "name": ".",
  "template_name": "Internal-ROOTZONE",
  "template": {
    "template_name": "Internal-ROOTZONE",
    "organization_name": "Internal",
    "description": "",
    "entity_type_code": "ZONE",
    "server_type_code": "GENERICDNS",
    "reference_type": "Root Zone Specific",
    "array_templates": [
      {
        "param_name": "default-ttl",
        "numeric_value": "86400"
      },
      {
        "param_name": "email-addr",
        "value": "abc@gmail.com",
        "param_name": "refresh",
        "numeric_value": "21600"
      },
      {
        "param_name": "retry",
        "numeric_value": "3600"
      },
      {
        "param_name": "expire",
        "numeric_value": "604800"
      },
      {
        "param_name": "negative-cache-ttl",
        "numeric_value": "86400"
      },
      {
        "param_name": "master-dns-servers",
        "value": "10.0.0.4"
      }
    ]
  }
}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Zone</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation, TIMS-1352: Cannot find organization: <Organization Name>, TIMS-1349: DNS Configuration sync failed with error: <Error Message>, TIMS-1424: Root zone already exists in the selected organization.	No Content

#### Consumes

- application/json
- application/xml

#### 4.151.48. Root Zone List

```
GET /zone/root/list
```

#### Description

Lists all Root Zones defined in the TCPWave IPAM. Functional Admin can list Root Zones for any organization. Rest of the admins can list Root Zones only for the organizations that they are associated with. Refer to the Administrator reference documentation for additional information about the Root Zones.

The example listed below shows a sample request URL:

```
/rest/zone/root/list?organizations=Internal
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	organizations	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Zone</a> > array
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

• text/plain

#### Produces

- application/json
- application/xml

#### 4.151.49. Root Zone Multiple Delete

POST /zone/root/multidelete

#### Description

Deletes Multiple Root Zones in the TCPWave IPAM. Functional Admin can Multiple Root Zones for any organization. Rest of the admins can Multiple Root Zones only for the organizations that they are associated with. Refer to the Administrator reference documentation for additional information about the Root Zones.

Below example shows sample request JSON:

```
["Internal"]
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		< string > array	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation, TIMS-1307: Root zone(s) does(do) not exist, TIMS-1331: Root zone cannot be deleted as it is being used by one or more DNS internal cache servers	No Content

#### Consumes

- application/json
- application/xml

#### 4.151.50. Root Zone Edit

POST /zone/root/update

#### Description

Updates an existing Root Zone in the TCPWave IPAM. Functional Admin can update a Root Zone for any organization. Rest of the admins can update a Root Zone only for the organizations that they are associated with. Refer to the Administrator reference documentation for additional information about the Root Zones.

Below example shows sample request JSON:

```
{ "description": "", "name": "", "organization_name": "EARTH", "serial_format": "DATE", "template_name": "EARTH-PROXYROOTZONE", "zoneRR": [], "template": { "template_name": "EARTH-PROXYROOTZONE", "organization_name": "EARTH", "description": "", "entity_type_code": "ZONE", "server_type_code": "GENERICDNS", "reference_type": "Root Zone Specific", "array_templates": [ { "param_name": "default-ttl", "numeric_value": "86400" }, { "param_name": "email-addr", "value": { "exclude": "0", "value": "1.1.1.1", "sequence": 1 }, "param_name": "master-dns-servers" }, { "param_name": "master-dns-servers" } ], "old_template_name": "EARTH-PROXYROOTZONE", "old_name": "", "updateSubZone": false [ "admin@gmail.com" ], { "param_name": "refresh", "numeric_value": "21600" }, { "param_name": "retry", "numeric_value": "3600" }, { "param_name": "expire", "numeric_value": "604800" }, { "param_name": "negative-cache-ttl", "numeric_value": "86400" }, { "param_name": "serial", "value": "DATE" }, { "param_name": "allow-query", "aclList": [ { "exclude": "0", "value": "1.1.1.1", "sequence": 1 }, { "param_name": "master-dns-servers" } ], "old_template_name": "EARTH-PROXYROOTZONE", "old_name": "", "updateSubZone": false }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Zone</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Cannot find organization: <Organization Name>, TIMS-1415: Zone or Domain already exists: <Zone Name>, TIMS-1414: Zone does not exist: <Zone Name>, TIMS-1101: Cannot find template for name: <Template Name>, TIMS-3011: Resource record already exists.	No Content

#### Consumes

- application/json
- application/xml

#### 4.151.51. Zone Resource Record Add

POST /zone/rr/add

#### Description

Creates a new Resource Record for a Zone in the TCPWave IPAM . Functional Admin can create a Zone Resource Record for any organization. Rest of the admins can create Zone Resource Record only for the organizations that they are associated with. Refer to the Administrator reference documentation for additional information about the Zone

Resource Records.

Below example shows sample request JSON:

```
{"zoneName":"qa.com","owner":"tcpw.com.qa.com.", "rrclass":"IN", "rrtype":"A", "ttl":"1200", "data":"10.0.1.2", "description":"","is_external_rr":0, "status":1, "organiza
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Resource Record</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7002: Permission information cannot be retrieved, TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Cannot find organization: <Organization Name>, TIMS-7003: You are not authorized to perform this operation, TIMS-1422: Zone does not exist: <Zone Name>, TIMS-3152: Record owner name: <Owner Name> is already managed by TCPWave IPAM. Please try a different name, TIMS-3012: CNAME does not refer to a valid A record, TIMS-3025: Resource Records already exist	No Content

#### Consumes

- `application/json`
- `application/xml`

#### Produces

- `application/json`
- `application/xml`

#### 4.151.52. Add A records

```
GET /zone/rr/addARRs
```

#### Description

Add A records into the zone in the given organization in the TCPWave IPAM.

The example listed below shows a sample request URL:

```
/rest/zone/rr/addARRs?orgName=Internal&zone=zone.com&owner=recordname&ips=12.1.1.22,23.2.2.23&is_proxy=0
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>ips</b> <i>required</i>	Comma separated IP Addresses	string	
Query	<b>is_proxy</b> <i>optional</i>	Is Proxy	integer(int32)	
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Query	<b>owner</b> <i>required</i>	Owner Name	string	
Query	<b>zone</b> <i>required</i>	Zone Name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation TIMS-15039: IP address cannot be null or empty. TIMS-1916: Organization name cannot be null. TIMS-1352: Organization does not exist: {0} TIMS-15039: IP address cannot be null or empty. TIMS-15040: Owner name cannot be null or empty. TIMS-1328: Zone name cannot be null.	No Content

#### Consumes

- `text/plain`

#### Produces

- `application/json`
- `application/xml`

#### 4.151.53. Zone Resource Record Check CNAME Conflict

```
POST /zone/rr/checkACNAMEconflict
```

#### Description

Checks A to CNAME Resource Record(RR) conflict in the TCPWave IPAM. It is mandatory to have a different name for a A RR than that of existing CNAME RR and vice-versa.

The example listed below shows a sample request URL:

```
/rest/zone/rr/checkACNAMEconflict?
```

```
ownerName=1tcp.com.test.com.&org_name=Internal&recordType=CNAME&data=server.test.com.
```



#### Parameters

Type	Name	Description	Schema	Default
Query	<b>data</b> <i>required</i>	Resource Record Data	string	
Query	<b>org_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>ownerName</b> <i>required</i>	Resource Record owner name	string	
Query	<b>recordType</b> <i>required</i>	Resource Record Type	string	
Query	<b>view_names</b> <i>optional</i>	Resource Record View Names	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-1020: Both Organization name and id cannot be null, TIMS-3072: A or CNAME <Given Record Name> record already exists for an Object: <Object Name>, TIMS-1420: A or CNAME <Given Record Name> record already exists in Zone: <Zone Name>	No Content

#### Consumes

- application/json
- application/xml

#### 4.151.54. Zone Resource Record Check Orphan

```
POST /zone/rr/checkRROrphan
```

#### Description

Checks for the references of the Zone Resource Record before editing or deleting it in the TCPWave IPAM. Resource Records are not allowed to be modified or deleted if references are found.

The example listed below shows a sample request URL:

```
/rest/zone/rr/checkRROrphan?ownerName=cc.in.tcpwave.com.&org_name=Internal&recordType=A&externalRR=0
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>externalRR</b> <i>required</i>	Is External RR	integer(int32)	
Query	<b>org_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>ownerName</b> <i>required</i>	Resource Record owner name	string	
Query	<b>recordType</b> <i>required</i>	Resource Record Type	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-4005: User id is not valid: <User id>, TIMS-4006: first_name, last_name, or email_id cannot be null, TIMS-4007: User does not exist: <User First Name> <User Last Name> <User Mail Id>, TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-1020: Both Organization name and id cannot be null, TIMS-3207: A record cannot be modified/deleted as it is associated to record type: <Record Type> and owner: <Record Name>	No Content

#### Consumes

- application/json
- application/xml

#### 4.151.55. IPv6 Object Resource Record Check Orphan

```
POST /zone/rr/checkV6RROrphan
```

#### Description

Checks for the references of the Zone Resource Record before editing or deleting it in the TCPWave IPAM. Resource Records are not allowed to be modified or deleted if references are found.

The example listed below shows a sample request URL:

```
/rest/zone/rr/checkV6RROrphan?ownerName=cc.in.tcpwave.com.&org_name=Internal&recordType=A&externalRR=0
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>externalRR</b> <i>required</i>	Is External RR	integer(int32)	
Query	<b>org_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>ownerName</b> <i>required</i>	Resource Record owner name	string	
Query	<b>recordType</b> <i>required</i>	Resource Record Type	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-4005: User id is not valid: <User id>, TIMS-4006: first_name, last_name, or email_id cannot be null, TIMS-4007: User does not exist: <User First Name> <User Last Name> <User Mail Id>, TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-1020: Both Organization name and id cannot be null, TIMS-3207: A record cannot be modified/deleted as it is associated to record type: <Record Type> and owner: <Record Name>	No Content

#### Consumes

- application/json
- application/xml

#### 4.151.56. Zone Resource Record Delete

```
POST /zone/rr/delete
```

#### Description

Deletes an existing Zone Resource Record in the TCPWave IPAM. Functional Admin can delete a Zone Resource Record for any organization. Rest of the admins can delete Zone Resource Record only for the organizations that they are associated with.

Sample payloads with mandatory parameters to delete resource record are listed below.

##### Delete a DNS Root Zone Resource Record:

```
{"zoneName":",", "organization_name": "Internal", "rrtype": "A", "rrclass": "IN", "owner": "twist.com.aa12.com.", "data": "10.1.0.9"}
```

##### Delete a DNS Proxy Root Zone Resource Record:

```
{"zoneName": "proxyzone.com", "organization_name": "Internal", "rrtype": "A", "rrclass": "IN", "owner": "twist.com.aa12.com.", "data": "10.1.0.9", "proxy": 1}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Resource Record</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-4005: User id is not valid: <User id>, TIMS-4006: first_name, last_name, or email_id cannot be null, TIMS-4007: User does not exist: <User First Name> <User Last Name> <User Mail Id>, TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-1422: Zone does not exist: <Zone Name>, TIMS-3088: Appliance IP address is null, TIMS-7003: You are not authorized to perform this operation, TIMS-1200: Active Directory zone cannot be deleted, TIMS-1416: Zone does not exist, TIMS-3015: Resource record does not exist.	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.151.57. Zone Resource Record Add

```
POST /zone/rr/edit
```

#### Description

Updates a Resource Record for a Zone in the TCPWave IPAM. Functional Admin can update a Zone Resource Record for any organization. Rest of the admins can create Zone Resource Record only for the organizations that they are associated with. Refer to the Administrator reference documentation for additional information about the Zone Resource Records.

Below example shows sample request JSON:

```
{"zoneName": "qa.com", "owner": "tcpwave.com.qa.com.", "rrclass": "IN", "rrtype": "A", "ttl": "1200", "data": "10.1.0.1", "description": "", "is_external_rr": 0, "status": 1}
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Resource Record</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7002: Permission information cannot be retrieved, TIMS-9561: Existing owner of the resource record cannot be null, TIMS-9564: Existing data of the resource record cannot be null, TIMS-1352: Cannot find organization: <Organization Name>, TIMS-7003: You are not authorized to perform this operation, TIMS-1328: Zone name cannot be null, TIMS-1422: Zone does not exist: <Zone Name>, TIMS-3015: Resource record does not exist, TIMS-3152: Record owner name: <Owner Name> is already managed by TCPWave IPAM. Please try a different name, TIMS-3012: CNAME does not refer to a valid A record, TIMS-3254: No A record found for given owner name:<Owner Name> Please enter a valid A record name, TIMS-3025: Resource Records already exist	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

#### 4.151.58. Get RR List

```
GET /zone/rrlist
```

#### Description

Gets the Resource Record details for the given Zone in the TCPWave IPAM. Functional Admin can get Resource Record of a Zone in any organization. Rest of the Admins gets this provision for the organizations that they are associated with.

The example listed below shows a sample request URL:

```
/rest/zone/rrlist?domainName=domain.com&orgName=QAOrg&isProxy
```

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>domainName</b> <i>required</i>	Name of the zone	string	
Query	<b>draw</b> <i>optional</i>	Pagination Rendering Parameter	integer(int32)	
Query	<b>filterRules</b> <i>optional</i>	Filter String	string	
Query	<b>isProxy</b> <i>required</i>	Proxy flag for the DNS root zone	integer(int32)	
Query	<b>length</b> <i>required</i>	Page Length	integer(int32)	
Query	<b>order</b> <i>optional</i>	Sort Order(asc/desc)	string	
Query	<b>orgName</b> <i>required</i>	Name of the Organization in which zone exist	string	
Query	<b>sort</b> <i>optional</i>	Sort String	string	
Query	<b>start</b> <i>required</i>	Starting Range	integer(int32)	
Query	<b>zoneID</b> <i>optional</i>	Id of the zone	integer(int32)	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">PaginatedListResource Record</a>
500	TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.151.59. Zone Scope List

GET /zone/scope/get

##### Description

Gets the list of the zone scopes.

The example listed below shows a sample request URL:

/rest/scope/get?name=sampleAmerica&organization\_name=Internal&zone\_name=scope.com

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>optional</i>	Zone Scope Name	string	
Query	<b>organization_name</b> <i>required</i>	Organization Name	string	
Query	<b>zone_name</b> <i>required</i>	Zone Name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">ZoneScope</a> > array
500	TIMS-7003: You are not authorized to perform this operation.	No Content

##### Consumes

- text/plain

##### Produces

- application/json
- application/xml

#### 4.151.60. Zone Resource Record Search

POST /zone/searchRR

##### Description

Searches for the Resource Record in the TCPWave IPAM.

The example listed below shows a sample request URL:

/rest/zone/searchRR?ownerName=cc.in.tcpwave.com.&org\_name=Internal

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>org_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>ownerName</b> <i>required</i>	Owner name	string	

##### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Resource Record</a> > array
500	TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-1020: Both Organization name and id cannot be null,	No Content

##### Consumes

- application/json
- application/xml

#### 4.151.61. Zone Command

GET /zone/subsys

##### Description

Executes the given command on remote in the TCPWave IPAM. Functional Admin can give a command for any organization. Rest of the admins can give a command only for the organizations that they are associated with.

The example listed below shows a sample request URL:

/rest/zone/subsys?zone\_name=zone.com&org\_name=Internal&argc=0(Freeze)/1(Thaw)

##### Parameters

Type	Name	Description	Schema	Default
Query	<b>argc</b> <i>required</i>	argc	integer(int32)	

Type	Name	Description	Schema	Default
Query	<b>org_name</b> <i>required</i>	Organization Name	string	
Query	<b>zone_name</b> <i>required</i>	Zone Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	string
500	TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Organization does not exist: <Given Organization Name>, TIMS-1422: Zone does not exist: <Zone Name>, TIMS-3088: Server IP address is null, TIMS-1455: Given domain is not a valid domain name. Please give a valid domain name.	No Content

#### Consumes

- text/plain

#### Produces

- text/plain

#### 4.151.62. Sync Zone With Cloud

POST /zone/synczonewithcloud

#### Description

Sync Zone in the TCPWave IPAM with the zone in the cloud.

The example listed below shows a sample request URL:

/rest/zone/synczonewithcloud?zonename=zone.com&orgname=Internal&cloudprovider=aws

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>cloudprovider</b> <i>required</i>	Cloud Provider	string	
Query	<b>orgname</b> <i>required</i>	Organization Name	string	
Query	<b>zonename</b> <i>required</i>	Zone name	string	

#### Responses

HTTP Code	Description	Schema
500	TIMS-7003: You are not authorized to perform this operation	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.151.63. Zone Edit

POST /zone/update

#### Description

Updates an existing Zone in the TCPWave IPAM. Functional Admin can update a Zone for any organization. Rest of the admins can update a Zone only for the organizations that they are associated with.

Below example shows sample request JSON:

```
{ "deletedARRs": [{"domain": "sasha.com", "evaluateHealthTarget": "true", "failover": "true", "geoLocation":
"", "healthCheck": "true", "healthCheckID": "43ce0b8f-4e1b-4568-8f95-b8988c01b053", "hostedZoneID":
"Z7HUB22UULQXV", "isAliasType": "true", "name": "sasha2", "region": "", "routingPolicy": "Weight", "setIdentifier":
"qwerty", "type": "CNAME", "value": "vpce-0d542a3c017e9160d-6gyuz16k.ec2.us-east-1.vpce.amazonaws.com", "weight":
12}], "addedARRs": [{"domain": "sasha.com", "evaluateHealthTarget": "true", "geoLocation": "AE", "healthCheck":
"false", "hostedZoneID": "Z7HUB22UULQXV", "isAliasType": "true", "name": "sasha2", "routingPolicy":
"GeoLocation", "setIdentifier": "qwerty", "type": "CNAME", "value": "vpce-0d542a3c017e9160d-6gyuz16k.ec2.us-east-
1.vpce.amazonaws.com"}], "description": "Testing REST API
Updates", "dmzVisible": "0", "dnssec_enable": "no", "monitoringService": "yes", "name": "qa1.com", "old_name": "qa-
zone.com", "restrictedZone": "no", "serial_format": "DATE", "template_name": "qa-zone-
template", "organization_name": "Internal" }
```

#### Parameters

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">Zone</a>	

#### Responses

HTTP Code	Description	Schema
500	TIMS-1352: Cannot find organization: <Organization Name>, TIMS-7003: You are not authorized to perform this operation, TIMS-1415: Zone or Domain already exists: <Zone Name>, TIMS-1430: Cannot create a zone: <Zone Name> as there is a forward only zone already exists with this name, TIMS-1422: Zone does not exist: <Zone Name>, TIMS-5020: Template does not exist: <Template Name>, TIMS-1442: Cannot change a zone: <Zone Name> to a restricted zone as it is associated with one or more subnets as a primary domain, TIMS-1443: Cannot change a zone: <Zone Name> to a restricted zone as it is associated with one or more subnets as a secondary domain, TIMS-1438: Cannot change a zone: <Zone Name> to a restricted zone as it is associated with one or more objects, TIMS-1349: DNS Configuration sync failed with error: <Error Message>, TIMS-1439: Cannot change a zone: <Zone Name> to a restricted zone as it is associated with one or more resource records, TIMS-5039: Template does not exist for organization, TIMS-10102: Both view id and view name cannot be null, TIMS-10103: DNS View does not exist for name: <View Name>, TIMS-3025: Resource Records already exist, TIMS-10112: DNS View cannot be deleted as it is associated with one or more subnet(s) or resource record(s), TIMS-1399: Domain Controller does not exist: <IP Address>, TIMS-1423: Selected zone template has one or more stealth Appliances. AD enabled zones should not contain any stealth Appliances. Please select a different zone template	No Content

#### Consumes

- application/json
- application/xml

#### 4.151.64. Zone Status

GET /zone/zoneStatus

#### Description

Gets the status of the Zone i.e Zone is active or inactive. If the Zone is not active then it lists all the inactive Appliances that are associated with this Zone.

The example listed below shows a sample request URL:

/rest/zone/zoneStatus?zoneName=zone.com&orgName=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>orgName</b> <i>required</i>	Organization Name	string	
Query	<b>zoneName</b> <i>required</i>	Zone Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">Zone</a>

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

#### 4.151.65. DNS Zone Template Associated Zones List

GET /zone/zonelist\_by\_template

#### Description

Obtains a list of DNS zones that are associated with a given DNS Zone Template. This list includes forward zones and reverse zones.

The example listed below shows a sample request URL:

/rest/zone/zonelist\_by\_template?name=TCPWave00005Remote&org\_name=Internal

#### Parameters

Type	Name	Description	Schema	Default
Query	<b>name</b> <i>required</i>	Template Name	string	
Query	<b>org_id</b> <i>optional</i>	Organization Id	integer(int32)	
Query	<b>org_name</b> <i>required</i>	Organization Name	string	

#### Responses

HTTP Code	Description	Schema
200	successful operation	< <a href="#">Zone</a> > array

HTTP Code	Description	Schema
500	TIMS-7002: Permission information cannot be retrieved, TIMS-1020: Both Organization name and id cannot be null, TIMS-1352: Cannot find organization: <Organization Name>, TIMS-7003: You are not authorized to perform this operation.	No Content

#### Consumes

- text/plain

#### Produces

- application/json
- application/xml

## 4.152. iDRAC Management Service

### 4.152.1. Delete Custom Signing Certificate

```
POST /idracMgmt/deleteCustomSSLCert
```

#### Description

Deletes the iDRAC custom SSL signing certificate from the specified iDRAC appliance.

Below example shows sample request JSON:

```
{"applianceIp":"10.1.10.244","applianceName":"appliance001","applianceType":"BIND
```

```
AUTH","organization":"TCPWave","idracIP":"10.1.10.240","sslCertType":"1","sslCertKey":"cert.key","sslCert":"cert.crt","sslPkcsPassphrase":"string","sslOperations
```

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		<a href="#">IdracSslCert</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">IdracSslCert</a>
500	TIMS-7003: You are not authorized to perform this operation,	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

### 4.152.2. Download SSL Certificate

```
POST /idracMgmt/downloadSSLCert
```

#### Description

Downloads SSL server certificate and custom signing certificate from the specified iDRAC appliance.

Below example shows sample request JSON:

```
{"applianceIp":"10.1.10.244","applianceName":"appliance001","applianceType":"BIND
```

```
AUTH","organization":"TCPWave","idracIP":"10.1.10.240","sslCertType":"1","sslCertKey":"cert.key","sslCert":"cert.crt","sslPkcsPassphrase":"string","sslOperations
```

#### Parameters

Type	Name	Description	Schema	Default
Body	body <i>optional</i>		<a href="#">IdracSslCert</a>	

#### Responses

HTTP Code	Description	Schema
200	successful operation	<a href="#">IdracSslCert</a>
500	TIMS-7003: You are not authorized to perform this operation,	No Content

#### Consumes

- application/json
- application/xml

#### Produces

- application/json
- application/xml

### 4.152.3. iDRAC Appliance List

```
GET /idracMgmt/listAppliances
```

#### Description

Obtains a list of all the iDRAC appliances from the TCPWave IPAM.  
 The example listed below shows a sample request URL:  
 /rest/idracMgmt/listAppliances?organizations=Internal

**Parameters**

Type	Name	Description	Schema	Default
Query	<b>organizations</b> <i>optional</i>	Organization Names	string	

**Responses**

HTTP Code	Description	Schema
200	successful operation	< <a href="#">IdracSslCert</a> > array
500	TIMS-7003: You are not authorized to perform this operation,	No Content

**Consumes**

- text/plain

**Produces**

- application/json
- application/xml

**4.152.4. Upload SSL Certificate**

```
POST /idracMgmt/uploadSSLCert
```

**Description**

Upload SSL server certificate and custom signing certificate in the specified iDRAC appliance.  
 Below example shows sample request JSON:

```
{ "applianceIp": "10.1.10.244", "applianceName": "appliance001", "applianceType": "BIND AUTH", "organization": "TCPWave", "idracIP": "10.1.10.240", "sslCertType": "1", "sslCertKey": "cert.key", "sslCert": "cert.crt", "sslPkcsPassphrase": "string", "sslOperation": "upload"
```

**Parameters**

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">IdracSslCert</a>	

**Responses**

HTTP Code	Description	Schema
200	successful operation	<a href="#">IdracSslCert</a>
500	TIMS-7003: You are not authorized to perform this operation,	No Content

**Consumes**

- application/json
- application/xml

**Produces**

- application/json
- application/xml

**4.152.5. Display SSL Certificate Info**

```
POST /idracMgmt/viewSSLCertInfo
```

**Description**

Displays iDRAC SSL certificate information of the specified iDRAC appliance.  
 Below example shows sample request JSON:

```
{ "applianceIp": "10.1.10.244", "applianceName": "appliance001", "applianceType": "BIND AUTH", "organization": "TCPWave", "idracIP": "10.1.10.240", "sslCertType": "1", "sslCertKey": "cert.key", "sslCert": "cert.crt", "sslPkcsPassphrase": "string", "sslOperation": "view"
```

**Parameters**

Type	Name	Description	Schema	Default
Body	<b>body</b> <i>optional</i>		<a href="#">IdracSslCert</a>	

**Responses**

HTTP Code	Description	Schema
200	successful operation	<a href="#">IdracSslCert</a>
500	TIMS-7003: You are not authorized to perform this operation,	No Content

**Consumes**

- application/json
- application/xml



**Produces**

- application/json
- application/xml

## 5. Definitions

### 5.1. A generic response

This class represents a generic response to any validation rest call.

Name	Description	Schema
<b>info</b> <i>optional</i>	Generic Validation related information.	< string > array
<b>name</b> <i>optional</i>	Generic name.	string
<b>valid</b> <i>optional</i>	Validation result	boolean

### 5.2. ADCNodeMember

Name	Description	Schema
<b>created_by</b> <i>required</i>	Id of the User who has created the specified Backend node. <b>Example</b> : 2017	integer(int32)
<b>created_by_login_name</b> <i>required</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified Backend node. <b>Example</b> : "Stephen"	string
<b>created_time</b> <i>optional</i>	The time instance when the specified Backend node has been created. <b>Example</b> : "05:21:35 02-01-2022"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified Backend node is created. <b>Example</b> : "05:21:35 02-01-2022"	string
<b>customParams</b> <i>optional</i>	Custom parameter value of the specified Backend node. <b>Example</b> : "Backend node"	string
<b>description</b> <i>optional</i>	Description value of the specified Backend node. <b>Example</b> : "Backend node"	string
<b>healthParamsjson</b> <i>optional</i>	Health params JSON of the specified Backend node.	string
<b>id</b> <i>optional</i>	Id of the specified Backend node. <b>Example</b> : 10	integer(int32)
<b>ipv4Address</b> <i>required</i>	IPv4 Address of the specified Backend node. <b>Example</b> : "10.0.0.0"	string
<b>isBackup</b> <i>optional</i>	Backup value of the specified Backend node. <b>Example</b> : false	boolean
<b>isHTTP2</b> <i>optional</i>	HTTP2 value of the specified Backend node. <b>Example</b> : true	boolean
<b>memberType</b> <i>optional</i>		string
<b>name</b> <i>required</i>	Name of the specified Backend node. <b>Example</b> : "Https nodes"	string
<b>organization_id</b> <i>required</i>	Id of the Organization which is associated with the specified Backend node. <b>Example</b> : 990	integer(int32)
<b>organization_name</b> <i>required</i>	Name of the Organization which is associated to the specified Backend node. <b>Example</b> : "EARTH"	string
<b>port</b> <i>required</i>	Port of the specified Backend node. <b>Example</b> : "410"	string
<b>prevIPAddress</b> <i>optional</i>	Description value of the specified Backend node before modification. <b>Example</b> : "1.0.0.0"	string
<b>prevPort</b> <i>optional</i>	Port of Backend node before modification <b>Example</b> : "2732"	string
<b>slb_back_end_config_id</b> <i>optional</i>	SLB backend config id value of the specified Backend node.	integer(int32)
<b>slb_back_end_config_name</b> <i>required</i>	SLB backend config name of the specified Backend node.	string

Name	Description	Schema
<b>sslCertFileName</b> <i>optional</i>	SSL file name value of the specified Backend node.	string
<b>updated_by</b> <i>required</i>	Id of the User who has modified the specified Backend node. <b>Example</b> : "05:21:35 02-01-2022"	integer(int32)
<b>updated_by_login_name</b> <i>required</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified Backend node. <b>Example</b> : "John"	string
<b>updated_time</b> <i>optional</i>	The time instance when the specified Backend node has been modified. <b>Example</b> : "05:21:35 02-01-2022"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified Backend node is modified. <b>Example</b> : "05:21:35 02-01-2022"	string
<b>weight</b> <i>optional</i>	Weight of the specified Backend node. <b>Example</b> : 10	integer(int32)

### 5.3. ADKerberosConfig

Name	Description	Schema
<b>applianceName</b> <i>optional</i>	Name of the DNS appliance. <b>Example</b> : "remote01.tcpwave.com"	string
<b>applianceAddress</b> <i>optional</i>	IP address of the DNS appliance. <b>Example</b> : "192.168.2.45"	string
<b>confFileData</b> <i>optional</i>	Contents of the Kerberos configuration file. <a href="#">KerberosConfSections</a>	
<b>deleteKeytabEntries</b> <i>optional</i>	Entries of the Kerberos keytab file to be deleted.	< <a href="#">KerberosKeytabData</a> > array
<b>keytabData</b> <i>optional</i>	Contents of the Kerberos keytab file.	< <a href="#">KerberosKeytabData</a> > array

### 5.4. ADSites Information

This class encapsulates the information of various ADSites defined.

Name	Description	Schema
<b>description</b> <i>optional</i>	Description for the Microsoft AD Sites	string
<b>id</b> <i>optional</i>	ID of this Contact	integer(int32)
<b>name</b> <i>required</i>	Name of the Microsoft AD sites	string
<b>old_name</b> <i>optional</i>		string
<b>old_subnet</b> <i>optional</i>		string
<b>organization_name</b> <i>required</i>	Organization name of the AD Sites to which this Sites belongs	string
<b>serverAddr</b> <i>optional</i>	Server address for the Microsoft AD Sites	string
<b>subnet</b> <i>required</i>	IP address of the subnet	string

### 5.5. AWS Block Device

AWS Block Device holds information of a block device used in AWS Instance.

Name	Description	Schema
<b>delete_on_termination</b> <i>required</i>	EBS volumes persist independently from the running life of an EC2 instance. However, you can choose to automatically delete an EBS volume when the associated instance is terminated. <b>Example</b> : true	boolean
<b>device</b> <i>required</i>	Device <b>Example</b> : "dev/sda1"	string
<b>encrypted</b> <i>required</i>	Volumes that are created from encrypted snapshots are automatically encrypted, and volumes that are created from unencrypted snapshots are automatically unencrypted. If no snapshot is selected, you can choose to encrypt the volume. <b>Example</b> : true	boolean
<b>id</b> <i>optional</i>	AWS Block Device ID in IPAM <b>Example</b> : 1	integer(int32)

Name	Description	Schema
<b>iops</b> <i>required</i>	Baseline of 3 IOPS per GiB with a minimum of 100 IOPS, burstable to 3000 IOPS <b>Example</b> : "100/3000"	string
<b>size</b> <i>required</i>	Size in GiB <b>Example</b> : 500	integer(int32)
<b>snapshot</b> <i>required</i>	Snapshot ID <b>Example</b> : "snap-q1w2e3r4"	string
<b>throughput</b> <i>required</i>	Throughput that the volume can support is specified for Streaming Optimized volumes: ST1 and SC1 <b>Example</b> : "100"	string
<b>volume</b> <i>required</i>	Volume Type <b>Example</b> : "General Purpose SSD"	string
<b>volume_type</b> <i>required</i>	Device type <b>Example</b> : "EBS"	string

## 5.6. AWS Instance Family Type

AWSInstanceFamilyType Object holds name of the family of instance types.

Name	Description	Schema
<b>name</b> <i>required</i>	Name of AWS Instance Family Type <b>Example</b> : "General Purpose"	string

## 5.7. AWS Instance Type

AWSInstanceType Object holds AWS Instance type.

Name	Description	Schema
<b>name</b> <i>required</i>	Name of AWS Instance Type <b>Example</b> : "t2.micro"	string

## 5.8. AWS S3 File

This class encapsulate the database snapshot information, such as bucket name, snapshot file name, file size and uploaded time.

Name	Description	Schema
<b>bucketName</b> <i>required</i>	Name of the AWS S3 Bucket <b>Example</b> : "test-bucket"	string
<b>fileName</b> <i>required</i>	Name of the database snapshot <b>Example</b> : "dbsnapshot_2022_03_13_12_00_00.tar.gz"	string
<b>fileSize</b> <i>optional</i>	Size of the database snapshot file in KB <b>Example</b> : "16535"	string
<b>uploadedTime</b> <i>optional</i>	Database snapshot uploaded time at AWS S3 <b>Example</b> : "2022-03-13 12:03:30"	string

## 5.9. AWS VPC's

Detailed information about AWS VPC's model.

Name	Description	Schema
<b>id</b> <i>optional</i>		string
<b>isDefault</b> <i>optional</i>		string
<b>name</b> <i>optional</i>		string

## 5.10. AWS Volume Type

AWSVolumeType Object represents Volume type of AWS Device.

Name	Description	Schema
<b>id</b> <i>optional</i>	ID of Volume Type <b>Example</b> : "gp2"	string
<b>name</b> <i>required</i>	Name of Volume Type <b>Example</b> : "General Purpose SSD"	string

## 5.11. Accept Elements Request

AcceptElementsRequest class encapsulates the attributes that are required to Accept Elements after discovery. The attributes include Discovery Command Id and Comma separated list of IP Addresses.

Name	Description	Schema

Name	Description	Schema
<b>cmdId</b> <i>required</i>	Command Id <b>Example</b> : 123	integer(int32)
<b>ipArr</b> <i>required</i>	IP Address <b>Example</b> : "10.2.2.3"	string

## 5.12. Access Control List(ACL)

This class represents an Access Control List(ACL) and contains the attributes necessary for ACL management functionality in the TCPWave IPAM. The information includes the name, value, sequence, DataList, ElementList and other ACL related information.

Name	Description	Schema
<b>aclDataList</b> <i>required</i>	Details of the specified Access Control List.	< string > array
<b>aclElementList</b> <i>required</i>	List of Address Match List which contains user defined and default Access Control List for the specified Access Control List.	< <a href="#">Access Control List(ACL)</a> > array
<b>created_by</b> <i>optional</i>	Id of the User who has created the specified Access Control List. <b>Example</b> : 2017	integer(int32)
<b>created_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified Access Control List. <b>Example</b> : "Stephen"	string
<b>created_by_name</b> <i>optional</i>	User Name who has created the specified Access Control List. <b>Example</b> : "Stephen"	string
<b>created_time</b> <i>optional</i>	The time instance when the specified Access Control List has been created. <b>Example</b> : "03/01/2022 4:37"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified Access Control List has been created. <b>Example</b> : "03/01/2022 3:39"	string
<b>description</b> <i>optional</i>	Description of the specified Access Control List. <b>Example</b> : "Access Control List for the cardsprod."	string
<b>exclude</b> <i>required</i>	Exclude a particular Access Control List value for the specified Access Control List. <b>Example</b> : "10.0.0.0/24"	integer(int32)
<b>id</b> <i>optional</i>	ID of the specified Access Control List. <b>Example</b> : 1	integer(int32)
<b>isRefTsig</b> <i>optional</i>	Is it a Reference TSIG key <b>Example</b> : "0 or 1"	integer(int32)
<b>name</b> <i>required</i>	Name of the specified Access Control List. <b>Example</b> : "cardsprod"	string
<b>newName</b> <i>required</i>	Modified Name of the specified Access Control List. <b>Example</b> : "eurprod"	string
<b>refAclName</b> <i>required</i>	The name of Access Control List which is referenced in the specified Access Control List. <b>Example</b> : "cardsprod"	string
<b>refTsigKeyName</b> <i>required</i>	The name of TSIG Key which is referenced in the specified Access Control List. <b>Example</b> : "key1"	string
<b>referenceCount</b> <i>required</i>	The number of other Access Control Lists being used in the specified Access Control List. <b>Example</b> : 3	integer(int32)
<b>sequence</b> <i>required</i>	Sequence of the specified Access Control List. <b>Example</b> : 2	integer(int32)
<b>special</b> <i>required</i>	Specifies if this Access Control List is default Access Control List in the TCPWave IPAM or not. <b>Example</b> : "TRUE"	integer(int32)
<b>updated_by</b> <i>optional</i>	Id of the User who has modified the specified Access Control List. <b>Example</b> : 2019	integer(int32)
<b>updated_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Updated by for the specified Access Control List. <b>Example</b> : "John"	string
<b>updated_by_name</b> <i>optional</i>	User Name who has modified the specified Access Control List. <b>Example</b> : "John"	string
<b>updated_time</b> <i>optional</i>	The time instance when the specified Access Control List has been modified. <b>Example</b> : "03/01/2022 4:37"	string(date-time)

Name	Description	Schema
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified Access Control List has been modified. <b>Example</b> : "03/01/2022 3:39"	string
<b>value</b> <i>required</i>	Value of the specified Access Control List. <b>Example</b> : "10.1.10.172"	string

### 5.13. Active Directory

This class contains the information of Active Directory Domain Controller's User Principle Name.

Name	Description	Schema
<b>created_by_name</b> <i>required</i>	User name who has created an Active Directory User mapping. <b>Example</b> : "admin"	string
<b>created_time</b> <i>required</i>	The time when the specified Active Directory user mapping is updated. <b>Example</b> : "03/18/2022 3:37"	string(date-time)
<b>dc_id</b> <i>required</i>	Domain Controller ID. <b>Example</b> : 1	integer(int32)
<b>dc_ip</b> <i>required</i>	Domain Controller IP Address. <b>Example</b> : "10.0.0.3"	string
<b>dc_name</b> <i>required</i>	Domain Controller Name. <b>Example</b> : "dc.tcpwave.com"	string
<b>dnsDomainName</b> <i>required</i>	Domain Name of a specified DNS Appliance in the TCPWave IPAM. <b>Example</b> : "tcpwave.com"	string
<b>dnsId</b> <i>required</i>	ID of an specified DNS Appliance in the TCPWave IPAM. <b>Example</b> : 1	integer(int32)
<b>dnsIp</b> <i>required</i>	IP Address of an specified DNS Appliance in the TCPWave IPAM. <b>Example</b> : "10.0.0.2"	string
<b>dnsServerName</b> <i>required</i>	DNS Appliance Name which exists in the TCPWave IPAM. <b>Example</b> : "ns.tcpwave.com"	string
<b>domain_name</b> <i>required</i>	Domain Name which belongs to an Organization in the TCPWave IPAM. <b>Example</b> : "tcpwave.com"	string
<b>encryption_type</b> <i>required</i>	Specifies the keys that are generated in the key tab file. <b>Example</b> : "RC4-HMAC-NT employs 128-bit encryption."	string
<b>file_data</b> <i>required</i>	Contents of the Kerberos version 5 .keytab file	string
<b>file_name</b> <i>required</i>	Specifies the name of the Kerberos version 5 .keytab file <b>Example</b> : "krb5.keytab"	string
<b>id</b> <i>optional</i>	ID of a specified Active Directory User. <b>Example</b> : 1	integer(int32)
<b>principal_name</b> <i>required</i>	Specifies the principal name in the form computer.tcpwave.com <b>Example</b> : "computer.tcpwave.com"	string
<b>principal_type</b> <i>optional</i>	Specifies the principal type.	string
<b>realm</b> <i>required</i>	The name of Kerberos realm. Kerberos realm can be any ASCII string, convention is to make it the same as your domain name, in upper-case letters. <b>Example</b> : "TCPWAVE.COM"	string
<b>service_type</b> <i>required</i>	Services running on Active Directory Domain Controller. <b>Example</b> : "DNS"	string
<b>updated_by_name</b> <i>required</i>	User Id who has created an Active Directory user mapping. <b>Example</b> : "2017"	string
<b>updated_time</b> <i>required</i>	The time when the Active Directory User mapping is updated. <b>Example</b> : "03/18/2022 3:37"	string(date-time)

### 5.14. Address Allocation

This class represents a specific Address range definition in a subnet template.

Name	Description	Schema
<b>allocationType</b> <i>required</i>	Id of allocation type used for specific address range(static, dynamic, reserved). <b>Example</b> : 1	integer(int32)
<b>classCode</b> <i>required</i>	Name of classcode used for specific address range. <b>Example</b> : "3G Phone"	string
<b>classCodeId</b> <i>optional</i>	Id of classcode used for specific address range. <b>Example</b> : 1	integer(int32)
<b>clientClassAllow</b> <i>optional</i>	Name of allowed client class for specific address range. <b>Example</b> : "ClientClass1"	string

Name	Description	Schema
<b>clientClassAllowId</b> <i>optional</i>	Id of allowed client class for specific address range. <b>Example</b> : 1	integer(int32)
<b>clientClassAllowStringVal</b> <i>optional</i>	Comma separated list of allowed client class names for specific address range. <b>Example</b> : "ClientClass1,client class2"	string
<b>clientClassDeny</b> <i>optional</i>	Name of denied client class for specific address range. <b>Example</b> : "ClientClass2"	string
<b>clientClassDenyId</b> <i>optional</i>	Id of denied client class for specific address range. <b>Example</b> : 1	integer(int32)
<b>clientClassDenyStringVal</b> <i>optional</i>	Comma separated list of deny client class names for specific address range. <b>Example</b> : "client class2"	string
<b>domain</b> <i>required</i>	Name of domain used for specific address range. <b>Example</b> : "tcpwave.com"	string
<b>domainId</b> <i>optional</i>	Id of domain used for specific address range. <b>Example</b> : 1	integer(int32)
<b>endOffset</b> <i>required</i>	End offset value of object address in the specified subnet. <b>Example</b> : 20	integer(int32)
<b>id</b> <i>optional</i>	Id of the specified address allocation. <b>Example</b> : 1	integer(int32)
<b>resExpiryDate</b> <i>optional</i>	Expiry date for specific address range. <b>Example</b> : "03/18/2022 4:37"	string(date-time)
<b>startOffset</b> <i>required</i>	Start offset value of object address in the specified subnet. <b>Example</b> : 10	integer(int32)
<b>ttl</b> <i>required</i>	TTL for specific address range. <b>Example</b> : 1200	integer(int32)
<b>userClassAllow</b> <i>optional</i>	Name of allowed user class for specific address range. <b>Example</b> : "Userclass1"	string
<b>userClassAllowId</b> <i>optional</i>	Id of allowed user class for specific address range. <b>Example</b> : 1	integer(int32)
<b>userClassAllowStringVal</b> <i>optional</i>	Comma separated list of allow user class names for specific address range. <b>Example</b> : "User class1, User class2"	string
<b>userClassDeny</b> <i>optional</i>	Name of denied user class for specific address range. <b>Example</b> : "Userclass2"	string
<b>userClassDenyId</b> <i>optional</i>	Id of denied user class for specific address range. <b>Example</b> : 1	integer(int32)
<b>userClassDenyStringVal</b> <i>optional</i>	Comma separated list of deny user class names for specific address range. <b>Example</b> : "User class3,User class4"	string
<b>v6EndOffset</b> <i>required</i>	End offset value of IPv6 object address in the specified subnet. <b>Example</b> : 20	integer
<b>v6StartOffset</b> <i>required</i>	Start offset value of IPv6 object address in the specified subnet. <b>Example</b> : 10	integer
<b>vendorClassAllow</b> <i>optional</i>	Name of allowed vendor class for specific address range. <b>Example</b> : "vendorclass1"	string
<b>vendorClassAllowId</b> <i>optional</i>	Id of allowed vendor class for specific address range. <b>Example</b> : 1	integer(int32)
<b>vendorClassAllowStringVal</b> <i>optional</i>	Comma separated list of allow vendor class names for specific address range. <b>Example</b> : "vendor class1"	string
<b>vendorClassDeny</b> <i>optional</i>	Name of denied vendor class for specific address range. <b>Example</b> : "vendorclass2"	string
<b>vendorClassDenyId</b> <i>optional</i>	Id of denied vendor class for specific address range. <b>Example</b> : 1	integer(int32)
<b>vendorClassDenyStringVal</b> <i>optional</i>	Comma separated list of deny vendor class names for specific address range. <b>Example</b> : "vendor class2, Vendor class3"	string

### 5.15. Address Block

This class represents a specific Address Block that has been defined with objects

Name	Description	Schema
<b>blockSize</b> <i>required</i>	Obtains the size of a given address block by counting the number of IP Addresses. <b>Example</b> : 244	integer(int32)

Name	Description	Schema
<b>endIp</b> <i>required</i>	Obtains an end IP from a given Address Block. <b>Example</b> : "10.0.0.2"	string
<b>startIp</b> <i>required</i>	Obtains a start IP from a given Address Block. <b>Example</b> : "10.0.0.1"	string

### 5.16. Address Space

This class represents Network Address Space. The information includes the Regional Internet Registry associated with the address space and the contact email for managing the address space.

Name	Description	Schema
<b>contact</b> <i>optional</i>	Contact email address <b>Example</b> : " <a href="mailto:test@domain.com">test@domain.com</a> "	string
<b>createdTimeString</b> <i>required</i>	Created time <b>Example</b> : "2022-01-20 00:05"	string
<b>description</b> <i>optional</i>	Description <b>Example</b> : "Internal address space"	string
<b>name</b> <i>required</i>	Name of the address space <b>Example</b> : "Internal Space"	string
<b>orgName</b> <i>required</i>	Organization name <b>Example</b> : "Internal"	string
<b>registry</b> <i>optional</i>	Regional Internet Registry <b>Example</b> : "ARIN"	string
<b>updatedTimeString</b> <i>required</i>	Updated time <b>Example</b> : "2022-01-20 00:05"	string
<b>v4Blocks</b> <i>optional</i>		< <a href="#">AddressBlock</a> > array
<b>v6Blocks</b> <i>optional</i>		< <a href="#">AddressBlock</a> > array

### 5.17. AddressBlock

Name	Description	Schema
<b>address</b> <i>optional</i>		string
<b>childBlocks</b> <i>optional</i>		< <a href="#">AddressBlock</a> > array
<b>createdTimeString</b> <i>required</i>	Created time <b>Example</b> : "2022-01-20 00:05"	string
<b>description</b> <i>optional</i>		string
<b>end</b> <i>optional</i>		integer
<b>fullAddress</b> <i>optional</i>		string
<b>isV6</b> <i>optional</i>		boolean
<b>mask</b> <i>optional</i>		integer(int32)
<b>name</b> <i>optional</i>		string
<b>organizationName</b> <i>required</i>	Organization name <b>Example</b> : "Internal"	string
<b>parent</b> <i>optional</i>		<a href="#">AddressBlock</a>
<b>parentFullAddress</b> <i>required</i>	Parent block address <b>Example</b> : "10.1.10.0/8"	string
<b>parentSpace</b> <i>required</i>	Parent address space name <b>Example</b> : "Internal Space"	string
<b>start</b> <i>optional</i>		integer
<b>updatedTimeString</b> <i>required</i>	Updated time <b>Example</b> : "2022-01-20 00:05"	string
<b>v6</b> <i>optional</i>		boolean

### 5.18. Admin Group

This class contains detailed information about Admin Group. The information includes the admin group name, organization name and description.

Name	Description	Schema
<b>addedRoles</b> <i>optional</i>		< <a href="#">AdministratorRoles</a> > array
<b>created_by_name</b> <i>optional</i>	User Name who has created the specified admin group. <b>Example</b> : "admin2"	string
<b>created_time</b> <i>optional</i>	The time when the specified admin group is created. <b>Example</b> : "1479201867000"	string(date-time)
<b>created_time_string</b> <i>optional</i>	The time instance when the specified Appliance Group has been created. <b>Example</b> : "03/18/2022 4:37"	string
<b>deletedRoles</b> <i>optional</i>		< <a href="#">AdministratorRoles</a> > array
<b>description</b> <i>optional</i>	Description of the admin group. <b>Example</b> : "Admin group description"	string
<b>id</b> <i>optional</i>	ID of the admin group <b>Example</b> : 121	integer(int32)
<b>name</b> <i>required</i>	Name of the admin group. <b>Example</b> : "Admin-group-1"	string
<b>oldName</b> <i>required</i>	Old name of the admin group if admin group name being changed while updating admin group. <b>Example</b> : "Admin-group"	string
<b>orgRoleInfo</b> <i>optional</i>		string
<b>organization_id</b> <i>optional</i>		integer(int32)
<b>organization_name</b> <i>optional</i>		string
<b>roles</b> <i>optional</i>		< string, string > map
<b>updated_by_name</b> <i>optional</i>	User Name who has updated the specified admin group. <b>Example</b> : "admin1"	string
<b>updated_time</b> <i>optional</i>	The time when the specified admin group is updated. <b>Example</b> : "1479201874000"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	The time when the specified admin group is updated, in string format. <b>Example</b> : "03/15/2022 7:14:17"	string

### 5.19. Admin Role

This class contains admin role information. The information includes the admin role code and description of the role code.

Name	Description	Schema
<b>code</b> <i>required</i>	User's role Code. Role codes are SADM,FADM,RADM,PADM,NADM and UADM <b>Example</b> : "UADM"	string
<b>description</b> <i>required</i>	User's role description <b>Example</b> : "User administrator"	string
<b>id</b> <i>optional</i>	User's role ID <b>Example</b> : 1	integer(int32)

### 5.20. AdminPreference

Name	Description	Schema
<b>adminId</b> <i>optional</i>		integer(int32)
<b>dataTableId</b> <i>optional</i>		string
<b>filterString</b> <i>optional</i>		string
<b>gridName</b> <i>optional</i>		string
<b>loginName</b> <i>optional</i>		string

### 5.21. AdministratorRoles

Name	Description	Schema
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Name	Description	Schema
<b>addedFunctions</b> <i>optional</i>		< <a href="#">Functions</a> > array
<b>admin_group_name</b> <i>optional</i>		string
<b>created_by_login_name</b> <i>optional</i>		string
<b>created_time_string</b> <i>optional</i>		string
<b>deletedFunctions</b> <i>optional</i>		< <a href="#">Functions</a> > array
<b>description</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int32)
<b>internal</b> <i>optional</i>		boolean
<b>name</b> <i>optional</i>		string
<b>old_name</b> <i>optional</i>		string
<b>organization_id</b> <i>optional</i>		string
<b>organization_name</b> <i>optional</i>		string
<b>updated_by_login_name</b> <i>optional</i>		string
<b>updated_time_string</b> <i>optional</i>		string

## 5.22. Alarm Subscription

Subscription class encapsulates the attributes that are required to create an alarm subscription, such as Component Type, Component Name, Component Address, Threshold Name etc.

Name	Description	Schema
<b>appId</b> <i>optional</i>		integer(int32)
<b>appType</b> <i>optional</i>		string
<b>channelId</b> <i>optional</i>		string
<b>chatId</b> <i>optional</i>		string
<b>componentAddress</b> <i>required</i>	Address of the Component <b>Example</b> : "10.31.2.55"	string
<b>componentId</b> <i>optional</i>	Database ID of the Component <b>Example</b> : 364	integer(int32)
<b>componentName</b> <i>required</i>	Name of the Component <b>Example</b> : "ns0001"	string
<b>componentType</b> <i>required</i>	Type of the Component <b>Example</b> : "DNS"	string
<b>conf</b> <i>optional</i>		string
<b>contactId</b> <i>optional</i>	Database ID of the contact <b>Example</b> : 54	integer(int32)
<b>contactMail</b> <i>required</i>	Email ID of the Contact <b>Example</b> : " <a href="mailto:james@tcpwave.com">james@tcpwave.com</a> "	string
<b>contactName</b> <i>optional</i>	Full Contact Name <b>Example</b> : "James Francis Stuart"	string
<b>createdBy</b> <i>optional</i>	Database ID of the user who has created the specified alarm subscription. <b>Example</b> : "Stephen"	integer(int32)
<b>createdByLoginName</b> <i>optional</i>	Login name of the user who has created the specified alarm subscription. <b>Example</b> : "Stephen"	string

Name	Description	Schema
<b>createdTime</b> <i>optional</i>	The time when the specified alarm subscription is created.	string(date-time)
<b>createdTimeString</b> <i>optional</i>	The time when the specified alarm subscription is created, in string format. <b>Example</b> : "07:17:17 02-20-2022"	string
<b>id</b> <i>optional</i>	Database ID of the alarm subscription <b>Example</b> : 44	integer(int32)
<b>integrationKey</b> <i>optional</i>		string
<b>name</b> <i>optional</i>		string
<b>organizationId</b> <i>optional</i>	Database ID of the Organization	integer(int32)
<b>organizationName</b> <i>required</i>	Name of the Organization <b>Example</b> : "TCPWave"	string
<b>sendCritical</b> <i>required</i>	Send Critical flag <b>Example</b> : true	boolean
<b>sendWarning</b> <i>required</i>	Send Warning flag <b>Example</b> : true	boolean
<b>thresholdId</b> <i>optional</i>	Database ID of the Threshold	integer(int32)
<b>thresholdName</b> <i>required</i>	Name of the Threshold <b>Example</b> : "SYSTEM_CPU"	string
<b>token</b> <i>optional</i>		string
<b>webhookUrl</b> <i>optional</i>		string

### 5.23. Algorithm

This class represents an Algorithm and contains the attributes necessary for Algorithm management functionality in the TCPWave IPAM. The information includes the Minimum Value, Maximum Value, Bit Size and other Algorithm related information.

Name	Description	Schema
<b>bitSize</b> <i>required</i>	Fetches the user given bit size for the specified DNS signing Algorithm. <b>Example</b> : 312	integer(int32)
<b>code</b> <i>required</i>	Name the specified DNS signing Algorithm. <b>Example</b> : "HMAC-SHA512"	string
<b>dnssec</b> <i>required</i>	Specifies whether the Domain Name System Security Extensions(DNSSEC) is enabled for the specified DNS signing Algorithm or not. <b>Example</b> : true	boolean
<b>id</b> <i>optional</i>	ID of the specified DNS signing Algorithm. <b>Example</b> : 10	integer(int32)
<b>mandatory</b> <i>required</i>	Specifies whether the specified DNS signing Algorithm is mandatory or not. <b>Example</b> : false	boolean
<b>max</b> <i>required</i>	Maximum bit size of the specified DNS signing Algorithm. <b>Example</b> : 512	integer(int32)
<b>min</b> <i>required</i>	Minimum bit size of the specified DNS signing Algorithm. <b>Example</b> : 1	integer(int32)

### 5.24. Amazon Machine Image

AWSImage holds information of Amazon Machine Image.

Name	Description	Schema
<b>blockDevices</b> <i>required</i>	List of block devices	< <a href="#">AWS Block Device</a> > array
<b>cloudProviderId</b> <i>required</i>	Cloud Provider ID <b>Example</b> : 1	integer(int32)
<b>cloudProviderName</b> <i>required</i>	Cloud Provider Name to which AWS Image belongs. <b>Example</b> : "Provider"	string
<b>createdBy</b> <i>required</i>	User ID of the user that has created the specified AWS Image. <b>Example</b> : 12	integer(int32)
<b>createdByLoginName</b> <i>required</i>	Login name user name who has created the specified AWS Image. <b>Example</b> : "Stephen"	string

Name	Description	Schema
<b>createdByName</b> <i>required</i>	Last Name and First Name of the user that has created the specified AWS Image. <b>Example</b> : "John, Banyan"	string
<b>createdTime</b> <i>required</i>	AWS Image Created Time <b>Example</b> : "10:20:20 01-20-2022"	string(date-time)
<b>createdTimeStr</b> <i>required</i>	AWS Image Created Time <b>Example</b> : "10:20:20 01-20-2022"	string
<b>desc</b> <i>required</i>	AWS Image Description <b>Example</b> : "Red Hat Enterprise Linux version 7.3 (HVM), EBS General Purpose (SSD) Volume Type"	string
<b>id</b> <i>optional</i>	AWS Image ID in IPAM <b>Example</b> : "1"	string
<b>name</b> <i>required</i>	AWS Image Name <b>Example</b> : "Amazon Linux AMI"	string
<b>orgName</b> <i>required</i>	Organization Name to which AWS Image belongs. <b>Example</b> : "EARTH"	string
<b>platform</b> <i>required</i>	The value is Windows for Windows AMIs; otherwise blank. <b>Example</b> : "Windows"	string
<b>readOnly</b> <i>optional</i>		boolean
<b>rootDeviceName</b> <i>required</i>	Root Device Name <b>Example</b> : "dev/sda1"	string
<b>updatedBy</b> <i>required</i>	User ID of the user that has updated for the last time the specified AWS Image. <b>Example</b> : 12	integer(int32)
<b>updatedByLoginName</b> <i>required</i>	Login name of the user who has updated the specified AWS Image. <b>Example</b> : "Stephen"	string
<b>updatedByName</b> <i>required</i>	Last Name and First Name of the user that has updated for the last time the specified AWS Image. <b>Example</b> : "John, Banyan"	string
<b>updatedTime</b> <i>required</i>	AWS Image Updated Time <b>Example</b> : "10:20:20 01-20-2022"	string(date-time)
<b>updatedTimeStr</b> <i>required</i>	AWS Image Updated Time <b>Example</b> : "10:20:20 01-20-2022"	string

### 5.25. AnomalousDomain

Name	Description	Schema
<b>blocked</b> <i>optional</i>		boolean
<b>domain</b> <i>optional</i>		string
<b>whitelisted</b> <i>optional</i>		boolean

### 5.26. AnomalyDetectedAlerts

Name	Description	Schema
<b>applianceAddress</b> <i>optional</i>		string
<b>date</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int32)
<b>noOfAnomalyQueries</b> <i>optional</i>		integer(int32)
<b>noOfAnomalyQueries</b> <i>optional</i>		integer(int32)
<b>query</b> <i>optional</i>		string
<b>source</b> <i>optional</i>		string
<b>target</b> <i>optional</i>		string
<b>time</b> <i>optional</i>		string

Name	Description	Schema
<b>timeStamp</b> <i>optional</i>		string

## 5.27. Appliance

Name	Description	Schema
<b>domainName</b> <i>required</i>	Name of the Domain which is associated with the specified appliance. <b>Example</b> : "atcc.com"	string
<b>getiDRACInfo</b> <i>optional</i>		string
<b>getiDRACIp</b> <i>optional</i>		string
<b>internalCacheServer</b> <i>optional</i>	Cache server of Internal organization.	string
<b>isCluster</b> <i>optional</i>	Indicates whether the appliance is a clustered appliance.	boolean
<b>name</b> <i>optional</i>	Name of appliance <b>Example</b> : "DEV-Appliance"	string
<b>orgName</b> <i>optional</i>		string
<b>serverType</b> <i>required</i>	Type of the specified appliance. <b>Example</b> : "BIND AUTH"	string
<b>v4Address</b> <i>required</i>	IPV4 Address which is associated with the specified appliance. <b>Example</b> : "192.1.10.200"	string
<b>v6Address</b> <i>optional</i>		string

## 5.28. Appliance Forwarder

This class represents an Appliance Forwarder and contains the attributes necessary for Appliance Forwarder management functionality in the TCPWave IPAM. The information includes the Appliance Id, Appliance Type, Appliance IP Address and other Appliance Forwarder related information.

Name	Description	Schema
<b>description</b> <i>required</i>	Description for the Specified Sever Forwarder <b>Example</b> : "Corp. DNS Appliance migrated to the TCPWave IPAM by Professional Services."	string
<b>forward</b> <i>required</i>	Forward is only relevant in conjunction with a valid forwarders statement. If set to 'only' the Appliance will only forward queries, if set to 'first' (default) it will send the queries to the forwarder and if not answered will attempt to answer the query. <b>Example</b> : "only/first"	string
<b>forwardersIPv4</b> <i>required</i>	List IPV4 Address(es) to which queries will be forwarded for the specified Appliance Forwarder. It's only relevant when used with the related forward statement. <b>Example</b> : "192.1.100.10"	string
<b>forwardersIPv6</b> <i>required</i>	List IPV4 Address(es) to which queries will be forwarded for the specified Appliance Forwarder. It's only relevant when used with the related forward statement. <b>Example</b> : "2001:503:ba3e::2:30"	string
<b>serverForwarders</b> <i>optional</i>		integer(int32)
<b>serverId</b> <i>required</i>	Id of the specified Appliance Forwarder. <b>Example</b> : 17	integer(int32)
<b>serverType</b> <i>required</i>	Type of the Appliance associated with the specified Appliance Forwarder. <b>Example</b> : "BIND AUTH"	string
<b>serverV4Addr</b> <i>required</i>	IPV4 Address of the Appliance associated with the specified Appliance Forwarder. <b>Example</b> : "192.168.1.200"	string
<b>zoneName</b> <i>required</i>	Name of the zone associated with the specified Appliance Forwarder. <b>Example</b> : "edu.com"	string

## 5.29. Appliance Group

Detailed information about Appliance Group model.

Name	Description	Schema
<b>appliance_root_password</b> <i>required</i>	Root password value to update the associated DHCP and DNS appliances <b>Example</b> : "RootPassword!23"	string

Name	Description	Schema
<b>children</b> <i>optional</i>		< <a href="#">Appliance Group</a> > array
<b>created_by_login_name</b> <i>optional</i>	Name of the User who has created the specified Appliance Group. <b>Example</b> : "John"	string
<b>created_time_string</b> <i>optional</i>	The time instance when the specified Appliance Group has been created. <b>Example</b> : "03/01/2022 4:37"	string
<b>description</b> <i>optional</i>	Description of Appliance Group. <b>Example</b> : "This is a appliance group."	string
<b>id</b> <i>optional</i>	Database ID of the appliance group <b>Example</b> : 1234	integer(int32)
<b>name</b> <i>optional</i>	Name of Appliance Group <b>Example</b> : "Test"	string
<b>organization_id</b> <i>required</i>	Id of the Organization which is associated with the specified Appliance Group. <b>Example</b> : 990	integer(int32)
<b>organization_name</b> <i>required</i>	Name of the Organization which is associated to the specified Appliance Group. <b>Example</b> : "EARTH"	string
<b>parentGroupId</b> <i>optional</i>		integer(int32)
<b>parentGroupName</b> <i>optional</i>	Name of the parent Appliance Group <b>Example</b> : "Parent-Test"	string
<b>prevAppGroupName</b> <i>optional</i>	Previous name of Appliance Group. <b>Example</b> : "ABC"	string
<b>updated_by_login_name</b> <i>optional</i>	Name of the User who has modified the specified Appliance Group. <b>Example</b> : "John"	string
<b>updated_time_string</b> <i>optional</i>	The time instance when the specified Appliance Group has been modified. <b>Example</b> : "03/01/2022 4:37"	string

### 5.30. Appliance Information

Appliance bean class encapsulates the attributes needed to delete DNS, DHCP or IPAM appliance.

Name	Description	Schema
<b>address</b> <i>required</i>	IP address of the specified IPAM/DNS/DHCP/IPv6_DHCP appliance. <b>Example</b> : "9000 : : 2"	string
<b>id</b> <i>optional</i>	Id of the specified appliance. <b>Example</b> : 121	integer(int32)
<b>v6_address</b> <i>optional</i>	IP address of the IPv6 DHCP appliance which is associated with the specified IPv6 DHCP appliance. <b>Example</b> : "192.168.0.135"	string

### 5.31. Appliance Synchronization Status

This class represents Synchronization Status of an Appliance and contains the attributes necessary for Status of the Appliance Synchronization functionality in the TCPWave IPAM. The information includes the Appliance Id, Sync Start Time, Status Message and other related information.

Name	Description	Schema
<b>lastUpdated</b> <i>required</i>	The last most instant when the user modified the specified Appliance. <b>Example</b> : "03/05/2022 2:13"	string(date-time)
<b>lastUpdatedString</b> <i>required</i>	String format of the last most instant when the user modified the specified Appliance. <b>Example</b> : "03/05/2022 2:13"	string
<b>serverId</b> <i>required</i>	Id of the specified appliance whose Sync status user wants to retrieve. <b>Example</b> : 127	integer(int32)
<b>startTime</b> <i>required</i>	The time instance when the user initiates the Synchronization process for the specified Appliance. <b>Example</b> : "03/05/2022 3:39"	string(date-time)
<b>startTimeString</b> <i>required</i>	String format of the time when the user initiates the Synchronization process for the specified Appliance. <b>Example</b> : "03/05/2022 3:39"	string
<b>status</b> <i>required</i>	Defines if the specified appliance is successfully synchronized with the remote or not. <b>Example</b> : "Yes"	string

Name	Description	Schema
<b>statusMsg</b> <i>required</i>	Status message defines if the specified appliance is successfully synchronized with the remote or not. <b>Example</b> : "DNS full synchronization has been completed successfully on: nutalx-a10654-231"	string
<b>syncDuration</b> <i>optional</i>		string

### 5.32. ApplianceInfo

Name	Description	Schema
<b>applianceIp</b> <i>optional</i>	IP address of the appliance. <b>Example</b> : "10.0.0.1"	string
<b>applianceName</b> <i>required</i>	Name of the appliance .	string
<b>applianceType</b> <i>optional</i>	Type of the appliance .	string
<b>organization</b> <i>optional</i>	Organization name.	string
<b>patchOperation</b> <i>optional</i>	Patch operation.	integer(int32)

### 5.33. ApplianceService

Name	Description	Schema
<b>anomalydetection</b> <i>optional</i>	Anomalydetection service status <b>Example</b> : "yes/no"	string
<b>bgpd</b> <i>optional</i>	BGP service status <b>Example</b> : "yes/no"	string
<b>dhcpd</b> <i>optional</i>	Dhcpd Status <b>Example</b> : "yes/no"	string
<b>dns</b> <i>optional</i>	DNS Process status of named, unbound or nsd. <b>Example</b> : "yes/no"	string
<b>id</b> <i>optional</i>	ID of the appliance <b>Example</b> : 21	integer(int32)
<b>is_primary</b> <i>optional</i>	Status of the DHCP appliance: primary or fail-over <b>Example</b> : "0/1"	integer(int32)
<b>monit</b> <i>optional</i>	Monit service status <b>Example</b> : "yes/no"	string
<b>name</b> <i>optional</i>	Name of the appliance <b>Example</b> : "Test-appliance"	string
<b>named</b> <i>optional</i>	Named service status <b>Example</b> : "yes/no"	string
<b>nsd</b> <i>optional</i>	NSD service status <b>Example</b> : "yes/no"	string
<b>ntpd</b> <i>optional</i>	NTP service status <b>Example</b> : "yes/no"	string
<b>object_id</b> <i>optional</i>	ID of the appliance object <b>Example</b> : 101	integer(int32)
<b>organization_id</b> <i>optional</i>	Organization ID <b>Example</b> : 101	integer(int32)
<b>organization_name</b> <i>required</i>	Organization Name <b>Example</b> : "Internal"	string
<b>ospfd</b> <i>optional</i>	OSPF service status <b>Example</b> : "yes/no"	string
<b>server_type</b> <i>required</i>	Type of the appliance <b>Example</b> : "DHCP/BIND AUTH/BIND CACHE/NSD"	string
<b>snmpd</b> <i>optional</i>	SNMP service status <b>Example</b> : "yes/no"	string
<b>sshd</b> <i>optional</i>	SSH service status <b>Example</b> : "yes/no"	string
<b>stunnel</b> <i>optional</i>	Stunnel service status <b>Example</b> : "yes/no"	string
<b>suricata</b> <i>optional</i>	Suricata service status <b>Example</b> : "yes/no"	string

Name	Description	Schema
<b>tftp</b> <i>optional</i>	TFTP service status <b>Example</b> : "yes/no"	string
<b>timsdhcp</b> <i>optional</i>	TIMS DHCP status <b>Example</b> : "yes/no"	string
<b>timsdiscovery</b> <i>optional</i>		string
<b>timsdns</b> <i>optional</i>	TIMS DNS status <b>Example</b> : "yes/no"	string
<b>unbound</b> <i>optional</i>	Unbound service status <b>Example</b> : "yes/no"	string
<b>v4_ipaddress</b> <i>required</i>	IPv4 IP address of the appliance <b>Example</b> : "192.168.0.101"	string
<b>zebra</b> <i>optional</i>	Zebra service status <b>Example</b> : "yes/no"	string
<b>zeek</b> <i>optional</i>	Zeek service status <b>Example</b> : "yes/no"	string

### 5.34. Apply Binlog Request

This class represents the request to load the database incremental changes into a recovery database in the TCPWave IPAM.

Name	Description	Schema
<b>databases</b> <i>required</i>	Name of the recovery database <b>Example</b> : "test"	string
<b>dumpDir</b> <i>required</i>	Full path of the database binlog snapshot directory <b>Example</b> : "/tmp/hostname_11.30P7_2022Mar15_1500.bak/binlogs"	string
<b>endTime</b> <i>required</i>	End time of the snapshot	string

### 5.35. Apply DB Snapshot Request

This bean class loads the database snapshot into a recovery database in the TCPWave IPAM.

Name	Description	Schema
<b>databases</b> <i>required</i>	Name of the recovery database <b>Example</b> : "test"	string
<b>mysqlCommandPath</b> <i>optional</i>	Full path of the mysql command <b>Example</b> : "/usr/bin/mysql"	string
<b>snapshotDir</b> <i>required</i>	Full path of the database snapshot directory <b>Example</b> : "/tmp/hostname_11.30P7_2022Mar15_1500.bak"	string

### 5.36. Asset

This class represents an Asset and contains the attributes necessary for asset management functionality in the TCPWave IPAM. The information includes the service tag and other manufacturing information, the cost and acquisition details, maintenance and warranty information, physical location and OS and related information.

Name	Description	Schema
<b>acquisition_type</b> <i>required</i>	Acquisition type of the Asset	string
<b>capacity</b> <i>required</i>	Capacity of the Asset	string
<b>city</b> <i>required</i>	City location of the Asset	string
<b>cpu</b> <i>required</i>	CPU specification of the Asset	string
<b>description</b> <i>required</i>	Description of the Asset	string
<b>disposal_dt</b> <i>required</i>	Disposal date of the Asset	string(date-time)
<b>disposal_reason</b> <i>required</i>	Reason for the disposal	string
<b>green_zone</b> <i>required</i>	Green Zone for the Asset	boolean
<b>id</b> <i>optional</i>	Database ID of the Asset	integer(int32)
<b>maintenance_cost</b> <i>required</i>	Maintenance cost of the Asset	number(double)

Name	Description	Schema
<b>maintenance_end_dt</b> <i>required</i>	Maintenance end date of the Asset	string(date-time)
<b>model</b> <i>required</i>	Model of the Asset	string
<b>name</b> <i>required</i>	Name of the Asset	string
<b>os_version</b> <i>required</i>	Operating system of the Asset	string
<b>previousAssetSerTag</b> <i>optional</i>	Previous Asset service tag	string
<b>purchase_cost</b> <i>required</i>	Purchase cost of the Asset	number(double)
<b>purchase_dt</b> <i>required</i>	Purchase date of the Asset	string(date-time)
<b>serial_num</b> <i>required</i>	Serial Number of the Asset	string
<b>service_tag</b> <i>required</i>	Service Tag of the Asset	string
<b>vendor</b> <i>required</i>	Vendor of the Asset	string
<b>warranty_end_dt</b> <i>required</i>	Warranty end date of the Asset	string(date-time)

### 5.37. AssociativeServersForForwarders

Name	Description	Schema
<b>ip_address</b> <i>optional</i>	IP Address of the appliance. <b>Example</b> : "193.168.0.123"	string
<b>name</b> <i>optional</i>	Name of the DNS appliance. <b>Example</b> : "named-alaska-s10984"	string
<b>recursion_enabled</b> <i>optional</i>	This value represents if recursion is enabled or not. <b>Example</b> : "yes"	string
<b>server_type</b> <i>optional</i>	Type of the appliance. <b>Example</b> : "BIND AUTH"	string

### 5.38. AttachedPermissionsBoundary

Name	Description	Schema
<b>permissionsBoundaryArn</b> <i>optional</i>		string
<b>permissionsBoundaryType</b> <i>optional</i>		string

### 5.39. Audit Entry

This is a bean class for the Audit Log Information. The attributes include the information needed to identify the action, admin performing the action, outcome of the action, and the source IP information from which the action has taken place. This information is used for generating comprehensive audit trail within the TCPWave IPAM and is used internally by the service layer.

Name	Description	Schema
<b>ip_address</b> <i>optional</i>	Obtains the IP Address that has been captured by the auditing mechanism in the TCPWave IPAM. <b>Example</b> : "10.0.0.0"	string
<b>organization_name</b> <i>optional</i>	Obtains the Organization Name of the audited entity from the TCPWave IPAM. <b>Example</b> : "Internal"	string

### 5.40. Audit Log Configuration for a component

This class provides the audit logging status of a component in the TCPWave IPAM.

Name	Description	Schema
<b>componentName</b> <i>required</i>	Name of a component in the TCPWave IPAM. <b>Example</b> : "IPv4 Network Management"	string
<b>description</b> <i>optional</i>	Description of a component whose operations can be audited in the TCPWave IPAM. <b>Example</b> : "Logs the network related operations. Ex: Network Create/Update/Delete"	string



Name	Description	Schema
<b>logging_status</b> <i>required</i>	Audit logging status for a component in the TCPWave IPAM. <b>Example</b> : "enable"	string

### 5.41. Audit Log Entry in CEF Format

This class provides the CEF log entry format for logging Security information.

Name	Description	Schema
<b>col9</b> <i>optional</i>	Internally used REST call to obtain the entity from the parsed CEF log output of the TCPWave IPAM.	string

### 5.42. Audit Report

This class contains information related to all reports. The information includes the administrator details, zone details, email, server details, monitoring alerts details, network details, subnet details, object details, history table details, DHS/DHCP details, schedule jobs details, refresh time, retry time, expire time, negative cache etc.

Name	Description	Schema
<b>action</b> <i>optional</i>	Action value <b>Example</b> : "create/modify/delete"	string
<b>actionType</b> <i>optional</i>	Action type <b>Example</b> : "success/failure"	string
<b>adminName</b> <i>optional</i>	Administrator name <b>Example</b> : "john"	string
<b>adminRole</b> <i>optional</i>	Administrator role <b>Example</b> : "FADM"	string
<b>admin_jobs</b> <i>optional</i>	Schedule Job Category <b>Example</b> : "Rest"	string
<b>asso_type</b> <i>optional</i>	DHCP association name <b>Example</b> : "abc"	string
<b>change_ticket</b> <i>optional</i>	Change ticket value <b>Example</b> : "abc123"	string
<b>clientIp</b> <i>optional</i>	Client IP <b>Example</b> : "127.0.0.2"	string
<b>commandId</b> <i>optional</i>	Command Id <b>Example</b> : "TDCE_20220330213"	string
<b>config_name</b> <i>optional</i>	Configuration name <b>Example</b> : "abc"	string
<b>contact_first_name</b> <i>optional</i>		string
<b>contact_last_name</b> <i>optional</i>		string
<b>dmz_visible</b> <i>optional</i>	DMZ Visibility <b>Example</b> : "0/1"	integer(int32)
<b>domain</b> <i>optional</i>	Domain name <b>Example</b> : "abc.com"	string
<b>dropdown_status</b> <i>optional</i>	Dropdown status value <b>Example</b> : "active/deleted"	string
<b>email_recipients</b> <i>optional</i>	Email Id <b>Example</b> : "abc@def.com"	string
<b>execution_status</b> <i>optional</i>	Execution status <b>Example</b> : "success/failure"	string
<b>execution_time</b> <i>optional</i>	Execution time <b>Example</b> : "2022-02-04 05:24:00"	string
<b>fileName</b> <i>optional</i>	Audit backup file name <b>Example</b> : "audit_history_attachment_backup_4_2022.csv"	string
<b>host_address</b> <i>optional</i>	Host IP <b>Example</b> : "10.1.10.241"	string
<b>host_id</b> <i>optional</i>	Host ID <b>Example</b> : 1241	integer(int32)
<b>host_name</b> <i>optional</i>	Host name for DHCP Lease report. <b>Example</b> : "abcd"	string
<b>internal_cache_server</b> <i>optional</i>	Cache Server Count <b>Example</b> : 12	integer(int32)
<b>ip_address</b> <i>optional</i>	IP address <b>Example</b> : "10.1.10.241"	string

Name	Description	Schema
<b>login_time</b> <i>optional</i>	Login time <b>Example</b> : "2022-02-01 05:06:14"	string
<b>logout_time</b> <i>optional</i>	Logout time <b>Example</b> : "2022-02-01 05:06:14"	string
<b>macAddress</b> <i>required</i>	MAC address for Global allocation report. <b>Example</b> : "65:e1:44:a6:85:7b"	string
<b>mailsHeading</b> <i>optional</i>		string
<b>mask</b> <i>optional</i>	Network/Subnet Mask <b>Example</b> : 24	integer(int32)
<b>monitoring_service</b> <i>optional</i>	Monitoring service name <b>Example</b> : "CHECK_MONIT"	string
<b>name</b> <i>optional</i>	Name value <b>Example</b> : "abc"	string
<b>network_status</b> <i>optional</i>	Network status value <b>Example</b> : "active/deleted"	string
<b>obj_count</b> <i>optional</i>	Total Objects Count <b>Example</b> : 12	integer(int32)
<b>optionTempl</b> <i>optional</i>	DHCP option template name <b>Example</b> : "optiontemplate"	string
<b>organization</b> <i>optional</i>	Organization name <b>Example</b> : "Earth"	string
<b>param_domainName</b> <i>optional</i>	DHCP parameter name <b>Example</b> : "abc"	string
<b>param_val</b> <i>optional</i>	DHCP Parameter value <b>Example</b> : "abc"	string
<b>patch</b> <i>optional</i>		string
<b>proxy</b> <i>optional</i>	Whether Proxy is enable or disable <b>Example</b> : 12	integer(int32)
<b>record_type</b> <i>optional</i>	Record Type <b>Example</b> : "SOA"	string
<b>rows</b> <i>optional</i>	Total number of rows <b>Example</b> : 12	integer(int32)
<b>serverIp</b> <i>optional</i>	Appliance IP <b>Example</b> : "10.0.0.5"	string
<b>serverName</b> <i>optional</i>	Appliance name <b>Example</b> : "TCPWave00002Remote"	string
<b>server_type</b> <i>optional</i>	Appliance type value <b>Example</b> : "BIND AUTH/DHCP"	string
<b>service_name</b> <i>optional</i>	Service name <b>Example</b> : "abcservice"	string
<b>source_ip</b> <i>optional</i>	Source IP <b>Example</b> : "10.1.10.241"	string
<b>stealth_server</b> <i>optional</i>	Stealth Server Count <b>Example</b> : 12	integer(int32)
<b>subnet_group</b> <i>optional</i>	Subnet group name <b>Example</b> : "subnetgrp"	string
<b>subnet_id</b> <i>optional</i>	Subnet ID <b>Example</b> : 1241	integer(int32)
<b>userId</b> <i>optional</i>	User ID <b>Example</b> : 1224	integer(int32)
<b>view_name</b> <i>optional</i>	View name <b>Example</b> : "abcview"	string
<b>vlan_id</b> <i>optional</i>	VLAN Id <b>Example</b> : "2456"	string
<b>xmlFileName</b> <i>optional</i>		string
<b>zone_name</b> <i>optional</i>	Zone name <b>Example</b> : "abc.com"	string

### 5.43. Audit Report Details

This class contains information related to all reports. The information includes the administrator details, zone details, email, server details, monitoring alerts details, network details, subnet details, object details, history table details,

Name	Description
<b>a_records</b> <i>optional</i>	Total A Record requests for DNS Zone Traffic Report for All Zones. <b>Example</b> : "10"
<b>aaaa</b> <i>optional</i>	Total AAAA requests for DNS Zone Traffic Report for All Zones. <b>Example</b> : "10"
<b>action_by</b> <i>optional</i>	Name of the user who performed the action, generic property for all reports. <b>Example</b> : "john smith"
<b>action_time</b> <i>optional</i>	Time of action performed, generic property for all reports. <b>Example</b> : "11/24/2016 15:18"
<b>action_type</b> <i>optional</i>	Type of action performed, generic property for all reports. <b>Example</b> : "Add/Modify/Deleted"
<b>actual_response</b> <i>optional</i>	
<b>ad_enable</b> <i>optional</i>	Takes Yes/No value to specify whether zone is Active Directory Enabled or not. <b>Example</b> : "yes"
<b>address</b> <i>required</i>	IP address, generic property for all reports. <b>Example</b> : "10.0.1.1"
<b>admin_group_name</b> <i>optional</i>	Admin group name for Employee entitlement report. <b>Example</b> : "default"
<b>admin_id</b> <i>optional</i>	Takes administrator ID ,generic property for all audit reports. <b>Example</b> : "432"
<b>alloc_type</b> <i>optional</i>	Allocation type for an object. <b>Example</b> : "static"
<b>ampm</b> <i>optional</i>	
<b>autoObjects</b> <i>optional</i>	Count of auto objects for Network address space utilization report. <b>Example</b> : "0"
<b>cache_dns_server</b> <i>optional</i>	Cache Appliance IP. <b>Example</b> : "10.1.2.182"
<b>category</b> <i>optional</i>	Category. <b>Example</b> : "Too_Little_Traffic"
<b>change_ticket</b> <i>optional</i>	Change Ticket value. <b>Example</b> : "12345"
<b>class_code</b> <i>optional</i>	Defines class code for DHCP template association report. <b>Example</b> : "Domain Controller"
<b>clientIp</b> <i>optional</i>	Client IP. <b>Example</b> : "127.0.0.1"
<b>client_source_ip</b> <i>optional</i>	Client Source IP. <b>Example</b> : "10.1.2.182"
<b>cname_req</b> <i>optional</i>	Total CNAME requests for DNS Zone Traffic Report for All Zones. <b>Example</b> : "10"
<b>code</b> <i>optional</i>	Code for server configuration audit report. <b>Example</b> : "BIND AUTH"
<b>configData</b> <i>optional</i>	Configuration data for Server configuration audit report <b>Example</b> : "10.0.1.5/10.0.1.6/10.0.1.7/10.0.1.8"
<b>configType</b> <i>optional</i>	Configuration type for Server configuration audit report. <b>Example</b> : "BANNER"
<b>config_name</b> <i>optional</i>	Configuration name for DHCP Option Template Report. <b>Example</b> : "subnet-mask"
<b>created_by</b> <i>optional</i>	User Name who has created the specified operation. <b>Example</b> : "John"
<b>created_time</b> <i>optional</i>	The time instance when the specified operation has been created. <b>Example</b> : "2022-02-04 05:24:00"
<b>data</b> <i>optional</i>	Target name for a resource record. <b>Example</b> : "192.168.101.2"
<b>date</b> <i>optional</i>	Takes date as input. <b>Example</b> : "01/28/2022"
<b>debugLevel</b> <i>optional</i>	
<b>deploy_date</b> <i>optional</i>	Deployment date. <b>Example</b> : "2022-02-22"

<b>Name</b>	<b>Description</b>
<b>description</b> <i>optional</i>	Details of an operation when it is performed. <b>Example</b> : "A successful login event has been recorded."
<b>destination_ip</b> <i>optional</i>	Destination IP Address. <b>Example</b> : "10.1.10.205"
<b>device</b> <i>optional</i>	Device name in DHCP Fingerprint Report By Device. <b>Example</b> : "Mac OS X"
<b>dhcp_tmpl_name</b> <i>required</i>	Name of the DHCP template. <b>Example</b> : "Generic"
<b>display_name</b> <i>optional</i>	Display name for DHCP Option Template Report. <b>Example</b> : "Time Offset"
<b>dmz_visible</b> <i>optional</i>	DMZ Visibility <b>Example</b> : "Yes/No"
<b>dns_option_template</b> <i>optional</i>	DNS option template for DNS Appliance audit. <b>Example</b> : "BIND AUTH Default Template"
<b>dns_server_template</b> <i>optional</i>	DNS Appliance template for DNS Appliance audit. <b>Example</b> : "BIND AUTH1"
<b>dnskey</b> <i>optional</i>	Total number of DNS key requests for DNS Zone Traffic Report for All Zones. <b>Example</b> : "10"
<b>dnssec_enable</b> <i>optional</i>	Takes Yes/No as input whether DNSSEC option is enable or disable. <b>Example</b> : "No"
<b>domain</b> <i>required</i>	name of a domain, generic property for all reports. <b>Example</b> : "tcpwave"
<b>domain_name</b> <i>required</i>	Name of the domain. <b>Example</b> : "tcpwave.com"
<b>dynamicObjects</b> <i>optional</i>	Count of dynamic objects for Network address space utilization report. <b>Example</b> : "28"
<b>email</b> <i>optional</i>	Takes email ID ,generic property for all audit reports. <b>Example</b> : "john@tcpwave.com"
<b>email_id</b> <i>optional</i>	Takes email ID of the contact,generic property for all audit reports. <b>Example</b> : "john@tcpwave.com"
<b>email_notify</b> <i>optional</i>	Takes yes/no as input to check the Email notify for network audit. <b>Example</b> : "No"
<b>enable_dynamic_updates</b> <i>optional</i>	takes yes/No as input, whether the dynamic updates are enable or not. <b>Example</b> : "No"
<b>endDate</b> <i>optional</i>	Takes start date as input <b>Example</b> : "11/1/2022"
<b>end_id</b> <i>optional</i>	
<b>end_of_life</b> <i>optional</i>	End Of life date of an object. <b>Example</b> : "2019-03-02"
<b>error_msg</b> <i>optional</i>	Message, when any operation is failed or success. <b>Example</b> : "Job executed successfully."
<b>execution_status</b> <i>optional</i>	Execution status of a schedule job. <b>Example</b> : "Success"
<b>execution_time</b> <i>optional</i>	Execution time of a schedule job. <b>Example</b> : "01/20/2022 15:18"
<b>expireTime</b> <i>optional</i>	Expire time of a zone. <b>Example</b> : 3600
<b>expire_date</b> <i>optional</i>	Expiration date. <b>Example</b> : "2022-02-22"
<b>extra_data</b> <i>optional</i>	Extra data for rpz_query_stats table. <b>Example</b> : "rewrite google.com via google.com.google.com"
<b>extra_params</b> <i>optional</i>	Extra parameters for a schedule job. <b>Example</b> : "sessionId:1ffqu0t1howzbs1foextz3xz3pj userName:admin remoteAddress:10.2.2.1"
<b>failover_server_details</b> <i>optional</i>	Details of the failover DHCP server. <b>Example</b> : "Primary Server : 10.1.1.18, Fail Over Server : 10.1.1.19, Primary Port :64, Fail Over Port : 64, Max Res MCLT : 1800, SPLIT : 128, Load Balance Max Secs : 3"
<b>fileName</b> <i>optional</i>	
<b>fqdn</b> <i>optional</i>	FQDN <b>Example</b> : "8.0.0.8.in-addr.arpa"
<b>frequency</b> <i>optional</i>	

Name	Description
<b>fromtimestamp</b> <i>optional</i>	From date Time stamp. <b>Example</b> : "2022-02-04 05:24:00"
<b>groupName</b> <i>optional</i>	Group of a subnet. <b>Example</b> : "group-1"
<b>hist_id</b> <i>optional</i>	ID for history table. <b>Example</b> : "45"
<b>host_address</b> <i>required</i>	host name for Monitoring alerts report. <b>Example</b> : "10.0.0.1"
<b>host_name</b> <i>optional</i>	Host name for Monitoring alerts report. <b>Example</b> : "ipam-234.tcpwave.com"
<b>id</b> <i>optional</i>	Takes ID as input, generic property for multiple reports. <b>Example</b> : "45"
<b>inactive_date</b> <i>optional</i>	Inactive date. <b>Example</b> : "2022-02-22"
<b>instance_provider_name</b> <i>optional</i>	Instance Provider Name <b>Example</b> : "Google"
<b>instance_template_name</b> <i>optional</i>	Instance Template Name <b>Example</b> : "template1"
<b>interfacelp</b> <i>optional</i>	
<b>ip_address</b> <i>required</i>	IP Address. <b>Example</b> : "10.2.6.4"
<b>ipv4</b> <i>required</i>	IPv4 Address. <b>Example</b> : "10.2.3.5"
<b>ipv4_address</b> <i>required</i>	IPv4 address. <b>Example</b> : "10.10.1.220"
<b>ipv6</b> <i>required</i>	IPv6 IP Address. <b>Example</b> : "2000::"
<b>isLoading</b> <i>optional</i>	
<b>is_ksk</b> <i>optional</i>	KSK value(Yes/No). <b>Example</b> : "Yes/No"
<b>is_reverse_zone</b> <i>optional</i>	Takes True/False as input whether Zone is reverse or not. <b>Example</b> : "TRUE"
<b>jobId</b> <i>optional</i>	Job ID of a schedule job. <b>Example</b> : "2452"
<b>job_data</b> <i>optional</i>	Data for a schedule job. <b>Example</b> : " {\"MajorVersion\": \"11\", \"ServerType\": \"DNS\", \"ZipFile\": \"IPAM_DNS_Patch002.zip\", \"PackageName\": \"TCPWave Test Patch 002\", \"MinorVersion\": \"8\", \"serverName\": \"server-name\", \"serverIp\": \"10.0.1.189\"}"
<b>job_type</b> <i>optional</i>	Job type of a schedule job. <b>Example</b> : "Event"
<b>length</b> <i>optional</i>	
<b>level</b> <i>required</i>	Permission level for Employee entitlement report. <b>Example</b> : "Admin"
<b>location</b> <i>optional</i>	Takes location as input. <b>Example</b> : "22 Main street, Atlantic city, sydney, South Australia-5540"
<b>log_notify</b> <i>optional</i>	Takes yes/no as input to check the Log notify for network audit. <b>Example</b> : "No"
<b>logger</b> <i>optional</i>	Log channels for DNS templates. <b>Example</b> : "named"
<b>login_name</b> <i>optional</i>	Login name of the user. <b>Example</b> : "John Smith"
<b>login_time</b> <i>optional</i>	Login time. <b>Example</b> : "2022-02-04 05:24:00"
<b>logout_time</b> <i>optional</i>	Logout time. <b>Example</b> : "2022-02-04 05:24:00"
<b>mac</b> <i>optional</i>	Takes MAC address for DHCP option template association report. <b>Example</b> : "00:0c:29:c5:68:5c"
<b>mac_address</b> <i>optional</i>	MAC address for Global allocation report. <b>Example</b> : "65:e1:44:a6:85:7b"

<b>Name</b>	<b>Description</b>
<b>manualObjects</b> <i>optional</i>	Count of manual objects for Network address space utilization report. <b>Example</b> : "1"
<b>mask_length</b> <i>required</i>	Mask length for subnet or network. <b>Example</b> : "24"
<b>match_clients</b> <i>optional</i>	Match Client IP. <b>Example</b> : "10.1.10.2"
<b>match_destinations</b> <i>optional</i>	Match Destination IP. <b>Example</b> : "10.1.10.2"
<b>message</b> <i>optional</i>	Message. <b>Example</b> : "Length:768B"
<b>monitoring_service</b> <i>optional</i>	Monitoring service Name <b>Example</b> : "CHECK_MONIT"
<b>mx_req</b> <i>optional</i>	Total MX requests for DNS Zone Traffic Report for All Zones. <b>Example</b> : "10"
<b>name</b> <i>optional</i>	Name, generic property for all reports. <b>Example</b> : "tcpwave"
<b>naptr</b> <i>optional</i>	Total NAPTR requests for DNS Zone Traffic Report for All Zones. <b>Example</b> : "10"
<b>negativeCache</b> <i>optional</i>	Negative Cache of a zone. <b>Example</b> : 604800
<b>networkAddress</b> <i>required</i>	Network address for audit reports. <b>Example</b> : "10.0.1.1/24"
<b>network_addr</b> <i>required</i>	Network address for audit reports. <b>Example</b> : "10.1.0.0/16"
<b>network_id</b> <i>optional</i>	
<b>network_ip</b> <i>optional</i>	
<b>ns</b> <i>optional</i>	Total NS requests for DNS Zone Traffic Report for All Zones. <b>Example</b> : "10"
<b>nsec_option</b> <i>optional</i>	Takes Yes/No as input whether Nsec option is enable or disable. <b>Example</b> : "Yes"
<b>ntp_appliance</b> <i>optional</i>	
<b>ntp_auth</b> <i>optional</i>	
<b>ntp_poll</b> <i>optional</i>	
<b>ntp_reach</b> <i>optional</i>	
<b>ntp_refid</b> <i>optional</i>	
<b>ntp_type_cast</b> <i>optional</i>	
<b>ntp_when</b> <i>optional</i>	
<b>objAddress</b> <i>required</i>	Generic property object address for all audit reports. <b>Example</b> : "10.0.0.2"
<b>obj_count</b> <i>optional</i>	Total zone to object count. <b>Example</b> : 24
<b>object_addr</b> <i>required</i>	Generic property object address for all audit reports. <b>Example</b> : "10.0.0.2"
<b>object_name</b> <i>required</i>	Generic property object name for all audit reports. <b>Example</b> : "object"
<b>object_type</b> <i>optional</i>	Type of an object. <b>Example</b> : "CRM Server"
<b>ofac_countries</b> <i>optional</i>	List of OFAC Countries. <b>Example</b> : "North Korea"
<b>ofac_ip</b> <i>optional</i>	Appliance IP in OFAC DNS Query Report. <b>Example</b> : "10.1.10.185"
<b>ofac_name</b> <i>optional</i>	Appliance Name in OFAC DNS Query Report. <b>Example</b> : "TCPWave00010Remote"

Name	Description
<b>offending_dns_query_response</b> <i>optional</i>	
<b>operation</b> <i>optional</i>	Operation performed on a schedule job. <b>Example</b> : "Schedule Create"
<b>organization_name</b> <i>optional</i>	name of an organization. <b>Example</b> : "tcpwave"
<b>output</b> <i>optional</i>	output for Monitoring alerts report. <b>Example</b> : "CRITICAL: Failed to generate the DNSDR configuration. Exception: Table 'tims.tea_zone' doesn't exist"
<b>owner</b> <i>optional</i>	Owner name of a resource record. <b>Example</b> : "www.tcpwave1.com."
<b>owner_class</b> <i>optional</i>	Code for server configuration audit report. <b>Example</b> : "BIND AUTH"
<b>percentage</b> <i>optional</i>	Percentage full of a network/Subnet. <b>Example</b> : "10%"
<b>percentagefull</b> <i>optional</i>	Percentage full for a network <b>Example</b> : "34"
<b>periods</b> <i>optional</i>	takes the period for Canned reports, whether it is Daily/Weekly/Monthly. <b>Example</b> : "daily"
<b>phone_num</b> <i>optional</i>	Phone Number. <b>Example</b> : "7236985426"
<b>policy_template</b> <i>optional</i>	Name of the policy template for DHCP server. <b>Example</b> : "Clone-Policy-1"
<b>preference</b> <i>optional</i>	Preference of the DHCP server. <b>Example</b> : "Primary"
<b>primaryRouter</b> <i>optional</i>	IP address of a primary router. <b>Example</b> : "10.0.0.1"
<b>primary_domain</b> <i>optional</i>	Name of the primary domain. <b>Example</b> : "about-tcpwave.com"
<b>producertype</b> <i>optional</i>	Producer type of Top alerts producers report. <b>Example</b> : "subnet_full_alert"
<b>proxy</b> <i>optional</i>	Proxy value. <b>Example</b> : "0/1"
<b>ptr</b> <i>optional</i>	Total PTR requests for DNS Zone Traffic Report for All Zones. <b>Example</b> : "10"
<b>queryA</b> <i>optional</i>	A <b>Example</b> : "2345"
<b>queryAAAA</b> <i>optional</i>	AAAA <b>Example</b> : "2345"
<b>queryAFSDB</b> <i>optional</i>	AFSDB <b>Example</b> : "2345"
<b>queryCAA</b> <i>optional</i>	CAA <b>Example</b> : "2345"
<b>queryCNAME</b> <i>optional</i>	CNAME <b>Example</b> : "2345"
<b>queryDKIM</b> <i>optional</i>	DKIM <b>Example</b> : "2345"
<b>queryDNAME</b> <i>optional</i>	DNAME <b>Example</b> : "2345"
<b>queryDS</b> <i>optional</i>	DS <b>Example</b> : "2345"
<b>queryHINFO</b> <i>optional</i>	HINFO <b>Example</b> : "2345"
<b>queryLOC</b> <i>optional</i>	LOC <b>Example</b> : "2345"
<b>queryMX</b> <i>optional</i>	MX <b>Example</b> : "2345"
<b>queryNAPTR</b> <i>optional</i>	NAPTR <b>Example</b> : "2345"
<b>queryNS</b> <i>optional</i>	NS <b>Example</b> : "2345"
<b>querySOA</b> <i>optional</i>	SOA <b>Example</b> : "2345"

<b>Name</b>	<b>Description</b>
<b>querySPF</b> <i>optional</i>	SPF <b>Example</b> : "2345"
<b>querySRV</b> <i>optional</i>	SRV <b>Example</b> : "2345"
<b>querySSHFP</b> <i>optional</i>	SSHFP <b>Example</b> : "2345"
<b>queryTLSA</b> <i>optional</i>	TLSA <b>Example</b> : "2345"
<b>queryTXT</b> <i>optional</i>	TXT <b>Example</b> : "2345"
<b>queryURI</b> <i>optional</i>	URI <b>Example</b> : "2345"
<b>reason</b> <i>optional</i>	Reason. <b>Example</b> : "Bad Reputation Host"
<b>record_type</b> <i>optional</i>	Record Type. <b>Example</b> : "SOA"
<b>refreshTime</b> <i>optional</i>	Refresh time of a zone. <b>Example</b> : 21600
<b>remote_ip</b> <i>optional</i>	IP address used to perform the operation. <b>Example</b> : "10.2.2.4"
<b>repeat_count</b> <i>optional</i>	Repeat count of a schedule job. <b>Example</b> : "1"
<b>report_type</b> <i>optional</i>	Report type of the audit reports, generic property for all audit reports. <b>Example</b> : "dailyFunctionalAdminAuditRpt"
<b>retryTime</b> <i>optional</i>	Retry time of a zone. <b>Example</b> : 3600
<b>role</b> <i>optional</i>	Role of an administrator. <b>Example</b> : "Functional Administrator"
<b>rows</b> <i>required</i>	Total numbers of rows. Generic property for all audit reports. <b>Example</b> : 20
<b>rr_count</b> <i>required</i>	Total number resource record count. <b>Example</b> : 5
<b>run_day</b> <i>optional</i>	Run day for a schedule job. <b>Example</b> : "0"
<b>schedule_type</b> <i>optional</i>	Type of a schedule job. <b>Example</b> : "One time Job"
<b>scope</b> <i>optional</i>	takes scope for DHCP option template association report. <b>Example</b> : "10.1.12.17-10.1.12.18"
<b>scope_count</b> <i>optional</i>	Total zone to scope count. <b>Example</b> : 245
<b>secret_key</b> <i>optional</i>	DNS TSIG Key secret key <b>Example</b> : "RS7OpG+ydNGq50usntAezYVjmsA6b"
<b>secure_ad_enable</b> <i>optional</i>	Takes Yes/No value to specify whether zone is a secure Active Directory Enabled or not. <b>Example</b> : "no"
<b>serial</b> <i>optional</i>	Serial number of zone, generic property for multiple reports. <b>Example</b> : "2016072939"
<b>serialNumber</b> <i>optional</i>	Serial Number of the specified Zone. <b>Example</b> : 2016153575
<b>serverIp</b> <i>optional</i>	Appliance IP. <b>Example</b> : "10.11.10.2"
<b>server_addr</b> <i>required</i>	Server address for the audit reports. <b>Example</b> : "10.1.0.185"
<b>server_name</b> <i>optional</i>	Server name ,generic property for multiple audit reports. <b>Example</b> : "server-name"
<b>server_type</b> <i>optional</i>	Type of the server. <b>Example</b> : "BIND AUTH"
<b>service_mode</b> <i>optional</i>	
<b>service_name</b> <i>optional</i>	Service name Monitoring alerts report. <b>Example</b> : "External Authentication"
<b>short_name</b> <i>required</i>	Short name for resource record audit. <b>Example</b> : "www"



Name	Description
<b>snmp_notify</b> <i>optional</i>	Takes yes/no as input to check the SNMP notify for network audit. <b>Example</b> : "No"
<b>soa</b> <i>optional</i>	Total SOA requests for DNS Zone Traffic Report for All Zones. <b>Example</b> : "10"
<b>source_ip</b> <i>optional</i>	Source IP Address. <b>Example</b> : "10.1.10.205"
<b>srv_req</b> <i>optional</i>	Total SRV requests for DNS Zone Traffic Report for All Zones. <b>Example</b> : "10"
<b>startDate</b> <i>optional</i>	Takes end date as input <b>Example</b> : "11/28/2022"
<b>start_id</b> <i>optional</i>	
<b>state</b> <i>optional</i>	state for Monitoring alerts report <b>Example</b> : "Critical"
<b>staticObjects</b> <i>optional</i>	Count of static objects for Network address space utilization report. <b>Example</b> : "30"
<b>stats</b> <i>required</i>	Statistics of a zone which includes most required zones and least required zones. <b>Example</b> : "25"
<b>status</b> <i>optional</i>	Status of a operation , whether it is success or failed. <b>Example</b> : "Success"
<b>subnetAddress</b> <i>required</i>	Subnet address for audit reports. <b>Example</b> : "10.0.1.1/16"
<b>subnet_addr</b> <i>required</i>	Subnet address for audit reports. <b>Example</b> : "10.0.0.0/24"
<b>subnet_address</b> <i>optional</i>	Address of the subnet <b>Example</b> : "10.1.2.8"
<b>subnet_id</b> <i>optional</i>	ID of a subnet. <b>Example</b> : 24
<b>subnet_name</b> <i>optional</i>	Name of the subnet. <b>Example</b> : "subnet1"
<b>target_name</b> <i>required</i>	Takes target name for Employee entitlement report. <b>Example</b> : "Load Simulation"
<b>target_rr</b> <i>optional</i>	
<b>target_type</b> <i>required</i>	Takes target type for Employee entitlement report. <b>Example</b> : "Subnet Group"
<b>template_name</b> <i>optional</i>	Name of a template <b>Example</b> : "zone-template-1"
<b>template_status</b> <i>optional</i>	Status of a DNS template. <b>Example</b> : "Active/Deleted"
<b>time</b> <i>optional</i>	Time when an action is performed. <b>Example</b> : "05:24:00"
<b>time_to_live</b> <i>optional</i>	Time to live for an object.. <b>Example</b> : "1200"
<b>timestamp</b> <i>optional</i>	Time Stamp. <b>Example</b> : "2022-02-04 05:24:00"
<b>timestamp_date</b> <i>optional</i>	
<b>timestamp_time</b> <i>optional</i>	
<b>total</b> <i>optional</i>	Total count of all rows, generic property for all reports. <b>Example</b> : "47"
<b>total_objzonerr</b> <i>required</i>	Total number zone to object and zone resource record count. <b>Example</b> : 35
<b>totalfqdn</b> <i>optional</i>	Total number of FQDNs. <b>Example</b> : 10
<b>totimestamp</b> <i>optional</i>	To date Time stamp. <b>Example</b> : "2022-02-04 05:24:00"
<b>ttl</b> <i>optional</i>	Time To Live(TTL) of a resource record. <b>Example</b> : "5000"
<b>txt_req</b> <i>optional</i>	Total TXT requests for DNS Zone Traffic Report for All Zones. <b>Example</b> : "10"

Name	Description
<b>type</b> <i>optional</i>	Type of resource record. <b>Example</b> : "A"
<b>unusedObjects</b> <i>optional</i>	Number of objects which are not used. <b>Example</b> : "2047"
<b>updated_by</b> <i>optional</i>	User Name who has modified the specified operation. <b>Example</b> : "John"
<b>updated_time</b> <i>optional</i>	The time instance when the specified operation has been modified. <b>Example</b> : "2022-02-04 05:24:00"
<b>user</b> <i>optional</i>	User Name. <b>Example</b> : "John"
<b>user_id</b> <i>optional</i>	ID of a schedule job. <b>Example</b> : "4562"
<b>v4_ipaddress</b> <i>optional</i>	V4 IP address of network, subnet etc. <b>Example</b> : "10.2.1.4"
<b>v6_ipaddress</b> <i>optional</i>	IPv6 address. <b>Example</b> : "5000::"
<b>value</b> <i>optional</i>	Value for zone template. <b>Example</b> : "60"
<b>vendor</b> <i>optional</i>	Vendor name in DHCP Fingerprint Report By Vendor. <b>Example</b> : "VMWare , Inc."
<b>view_name</b> <i>required</i>	DNS View name. <b>Example</b> : "viewdemo"
<b>vlan_id</b> <i>optional</i>	VLAN ID for subnet audit by group report. <b>Example</b> : "3456"
<b>z_name</b> <i>required</i>	Name of a zone. <b>Example</b> : "tcpwave.com"
<b>zoneRR_count</b> <i>required</i>	Total number zone to zone resource record count. <b>Example</b> : 4
<b>zone_count</b> <i>required</i>	Total count of zones <b>Example</b> : 24
<b>zone_id</b> <i>optional</i>	ID of a zone. <b>Example</b> : 1001
<b>zone_name</b> <i>required</i>	Zone Name. <b>Example</b> : "abc.com"

#### 5.44. AuditBackup

This class represents an audit backup files information and contains the attributes necessary for Audit backup files functionality in the TCPWave IPAM. The information includes the File Name, File Type, File Size and other related information.

Name	Description	Schema
<b>action_time</b> <i>optional</i>		string
<b>attachment</b> <i>optional</i>		string
<b>audit_history_id</b> <i>optional</i>		string
<b>change_ticket</b> <i>optional</i>		string
<b>command</b> <i>optional</i>		string
<b>created_by_Name</b> <i>optional</i>		string
<b>created_time_string</b> <i>optional</i>		string
<b>description</b> <i>optional</i>		string
<b>error_msg</b> <i>optional</i>		string
<b>fileName</b> <i>optional</i>		string
<b>fileSize</b> <i>optional</i>		integer(int64)

Name	Description	Schema
<b>fileType</b> <i>optional</i>		string
<b>fromDate</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		string
<b>ipv4_address</b> <i>optional</i>		string
<b>login_name</b> <i>optional</i>		string
<b>multipart</b> <i>optional</i>		string
<b>name</b> <i>optional</i>		string
<b>operation</b> <i>optional</i>		string
<b>organization_id</b> <i>optional</i>		string
<b>organization_name</b> <i>optional</i>		string
<b>remote_ip</b> <i>optional</i>		string
<b>reportType</b> <i>optional</i>		string
<b>role</b> <i>optional</i>		string
<b>status</b> <i>optional</i>		string
<b>target</b> <i>optional</i>		string
<b>target_instance</b> <i>optional</i>		string
<b>toDate</b> <i>optional</i>		string
<b>updated_time_string</b> <i>optional</i>		string
<b>user_id</b> <i>optional</i>		string

#### 5.45. AuditHistory

Name	Description	Schema
<b>action</b> <i>optional</i>		string
<b>action_status</b> <i>optional</i>		string
<b>audit_time</b> <i>optional</i>		string(date-time)
<b>audit_time_string</b> <i>optional</i>		string
<b>change_ticket</b> <i>optional</i>		string
<b>description</b> <i>optional</i>		string
<b>error_msg</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int32)
<b>login_name</b> <i>optional</i>		string
<b>operation</b> <i>optional</i>		string
<b>remote_ip</b> <i>optional</i>		string

Name	Description	Schema
<b>role_code</b> <i>optional</i>		string
<b>role_id</b> <i>optional</i>		integer(int32)
<b>target</b> <i>optional</i>		string
<b>user_id</b> <i>optional</i>		integer(int32)

#### 5.46. Auth Info

This class represents the authorization information for a resource instance in the TCPWave IPAM. The information includes the entity type ( Network, Subnet, Object, Subnet Group ), and the resource instances ( id/name or IP), and the list of Admin Groups and Admins that are associated with that privilege.

Name	Description	Schema
<b>created_by</b> <i>optional</i>	Database ID of the user	integer(int32)
<b>created_by_name</b> <i>optional</i>	Name of the user	string
<b>created_time</b> <i>optional</i>	Created date and time	string(date-time)
<b>created_time_string</b> <i>optional</i>		string
<b>updated_by</b> <i>optional</i>	Database ID of the user	integer(int32)
<b>updated_by_name</b> <i>optional</i>	Name of the user	string
<b>updated_time</b> <i>optional</i>	Updated date and time	string(date-time)
<b>updated_time_string</b> <i>optional</i>	Name of the user	string

#### 5.47. Authentication Configuration

This is a bean class for the TCPWave IPAM Authentication configuration that the user can modify to customize TCPWave IPAM to meet the security standards of the organization. The information includes the rules for password management including the complexity and length, and rules for reusing old password, session inactivity time out, and number of failed attempts before the user account is locked down.

Name	Description	Schema
<b>allow_similar</b> <i>required</i>	Allow similar passwords across users or not	boolean
<b>id</b> <i>optional</i>	Database ID for Authentication Configuration	integer(int32)
<b>max_failed_attempts</b> <i>required</i>	Get the number of failed login attempts	integer(int32)
<b>min_password_length</b> <i>required</i>	Minimum Password Length	integer(int32)
<b>password_complexity</b> <i>required</i>	Level of Password complexity	integer(int32)
<b>password_expiration</b> <i>required</i>	Number of days for password expiration	integer(int32)
<b>password_reuse</b> <i>required</i>	Allow reusing a given password or not	integer(int32)
<b>require_new_password</b> <i>required</i>	Enforce a new user to change the password after the first login	boolean
<b>session_timeout</b> <i>required</i>	Time in seconds to destroy an active session on idle	integer(int32)
<b>warn_timeout</b> <i>required</i>	Time in seconds before the session timeout to warn the user	integer(int32)

#### 5.48. Authentication Token

This class represents an Authentication Token. Authentication Tokens are used in the TCPWave IPAM to allow session less REST API access in a secure way. The information identifies the source IP associated with the token, generated date, validity, and the Admin credentials associated with the token. This token is set on the header parameter of a request using TIMS-SESSION-TOKEN key and the actions are authorized and audited with the associated admin credentials.

Name	Description	Schema
<b>active</b> <i>optional</i>	Is the token active? <b>Example</b> : true	boolean
<b>application</b> <i>optional</i>	Application name <b>Example</b> : "tims"	string
<b>description</b> <i>optional</i>	Description <b>Example</b> : "Test"	string
<b>generated_date</b> <i>optional</i>	Session token generated date <b>Example</b> : "03-11-2022"	string(date-time)
<b>id</b> <i>optional</i>	Database ID of the session token <b>Example</b> : 23	integer(int32)
<b>ip</b> <i>optional</i>	IP Address of the target where the session token will be used <b>Example</b> : "10.10.0.2"	string
<b>request_ip</b> <i>optional</i>	IP Address <b>Example</b> : "10.1.10.3"	string
<b>request_user_id</b> <i>optional</i>	User ID <b>Example</b> : 323	integer(int32)
<b>token</b> <i>optional</i>	Session Token String <b>Example</b> : "fhgh234hhjzdhncm"	string
<b>validity</b> <i>optional</i>	Validity of the session token in days <b>Example</b> : 30	integer(int32)

### 5.49. Authentication Token Response

This class contains the information related to newly generated authentication token and contains only subset of AuthToken information that is needed to display as response to the new token generate service call.

Name	Description	Schema
<b>application</b> <i>optional</i>	Application name <b>Example</b> : "tims"	string
<b>description</b> <i>optional</i>	Description <b>Example</b> : "Test"	string
<b>ip</b> <i>optional</i>	IP address where session token will be used. <b>Example</b> : "10.2.2.3"	string
<b>token</b> <i>optional</i>	Session token string <b>Example</b> : "56wejnbyyis6k"	string

### 5.50. Authentication Type

This class represents authentication mechanism and holds the information related to the authentication module used in TCPWave IPAM for that authentication mechanism, and if that is the active authentication mechanism selected. This information is used internally by the TCPWave IPAM Security module to verify the login user credentials with the appropriate authentication mechanism selected.

Name	Description	Schema
<b>active</b> <i>required</i>	Checks if a given authentication mechanism is active or inactive	boolean
<b>auth_module</b> <i>required</i>	Name of the Authentication Module	string
<b>code</b> <i>required</i>	Code of a given Authentication Type	string
<b>description</b> <i>required</i>	Description of the Authentication Module	string

### 5.51. Authorization Entry

This class represents the permission information entry for a resource instance in TCPWave IPAM. Each entry includes Name, Id and level of the entity.

Name	Description	Schema
<b>authorized</b> <i>optional</i>	Is the entry authorized or not <b>Example</b> : true	boolean
<b>id</b> <i>optional</i>	Database Id of the entry <b>Example</b> : 24	integer(int32)
<b>name</b> <i>optional</i>	Name of the entry <b>Example</b> : "DefaultAdminGroup"	string
<b>privilege</b> <i>required</i>	Type of privilege <b>Example</b> : "READ/READ-WRITE"	string
<b>privilegeCode</b> <i>required</i>	Integer value for the privilege <b>Example</b> : "4 = READ; 6 = READ-WRITE"	integer(int32)

## 5.52. Autonomous System Number

Detailed information about Autonomous System Number.

Name	Description	Schema
<b>as_number</b> <i>optional</i>		integer(int64)
<b>created_by_login_name</b> <i>optional</i>	Name of the User who has created the specified AS Number. <b>Example</b> : "John"	string
<b>created_time_string</b> <i>optional</i>	The time instance when the specified AS Number has been created. <b>Example</b> : "02/28/2022 4:37"	string
<b>description</b> <i>optional</i>	Description of AS Number. <b>Example</b> : "This is a appliance group."	string
<b>id</b> <i>optional</i>	Database ID of the AS number <b>Example</b> : 1234	integer(int32)
<b>info</b> <i>optional</i>	AS number Information <b>Example</b> : "2K21@ SAN"	string
<b>name</b> <i>optional</i>	Name of AS Number <b>Example</b> : "Test"	string
<b>oldName</b> <i>optional</i>		string
<b>oldNumber</b> <i>optional</i>		integer(int32)
<b>organization_id</b> <i>required</i>	Id of the Organization which is associated with the specified AS Number. <b>Example</b> : 990	integer(int32)
<b>organization_name</b> <i>required</i>	Name of the Organization which is associated to the specified AS Number. <b>Example</b> : "EARTH"	string
<b>type</b> <i>optional</i>	AS number Type <b>Example</b> : "abc"	string
<b>updated_by_login_name</b> <i>optional</i>	Name of the User who has modified the specified AS Number. <b>Example</b> : "John"	string
<b>updated_time_string</b> <i>optional</i>	The time instance when the specified AS Number has been modified. <b>Example</b> : "02/28/2022 4:37"	string

## 5.53. BGP Details

This class contains information related to BGP screen.

Name	Description	Schema
<b>interfaces</b> <i>required</i>	Array of Interfaces.	< string > array
<b>serverName</b> <i>required</i>	Appliance name. <b>Example</b> : "TCPWave00012Remote"	string
<b>staticRoutes</b> <i>optional</i>	Array of Static Routes Definitions	< <a href="#">BasicStaticRoutes</a> > array
<b>staticRoutesVal</b> <i>required</i>	Static Routes value. <b>Example</b> : "staticRoutes"	string
<b>zebraEventsVal</b> <i>required</i>	Zebra events value. <b>Example</b> : "zebraEvents"	string
<b>zebraKernelVal</b> <i>required</i>	Zebra kernel value. <b>Example</b> : "zebraKernel"	string
<b>zebra_events</b> <i>required</i>	Enable or Disable of Zebra Events. <b>Example</b> : false	boolean
<b>zebra_kernel</b> <i>required</i>	Enable or Disable of Zebra Kernel. <b>Example</b> : false	boolean
<b>zebra_static</b> <i>required</i>	Enable or Disable of Zebra Static Routes. <b>Example</b> : false	boolean

## 5.54. Basic Object Info

BasicObjectInfo class encapsulates the attributes that are defined at the Object level, such as the name, IP address, Organization, Domain, Description, CNAME Resource Records.

Name	Description	Schema
<b>address</b> <i>required</i>	IP Address of this object <b>Example</b> : "172.16.13.1"	string
<b>description</b> <i>required</i>	Description of this object <b>Example</b> : "This is a basic object information."	string

Name	Description	Schema
<b>domain_name</b> <i>required</i>	Domain of this object <b>Example</b> : "domain.com"	string
<b>name</b> <i>required</i>	Name of this object <b>Example</b> : "BasicObject"	string
<b>network_address</b> <i>required</i>	Network Address of this object <b>Example</b> : "172.16.0.0"	string
<b>organization_name</b> <i>required</i>	Organization Name <b>Example</b> : "QAOrg"	string
<b>rrs</b> <i>optional</i>	Collection of CNAME Resource Records associated to this object	< <a href="#">Resource Record</a> > array

### 5.55. BasicStaticRoutes

Name	Description	Schema
<b>gateway</b> <i>optional</i>	Gateway of the network <b>Example</b> : "255.255.255.0"	string
<b>mask</b> <i>optional</i>	Network mask length <b>Example</b> : "24"	string
<b>preference</b> <i>optional</i>	Preference of the route <b>Example</b> : "255.255.255.0"	string
<b>subnet</b> <i>optional</i>	Name of the subnet <b>Example</b> : "region"	string

### 5.56. BlocksAndNetworks

Name	Description	Schema
<b>address</b> <i>optional</i>		string
<b>createdBy</b> <i>optional</i>		string
<b>createdTime</b> <i>optional</i>		string
<b>description</b> <i>optional</i>		string
<b>mask</b> <i>optional</i>		integer(int32)
<b>name</b> <i>optional</i>		string
<b>organizationName</b> <i>optional</i>		string
<b>parentSpace</b> <i>optional</i>		string
<b>type</b> <i>optional</i>		string
<b>updatedBy</b> <i>optional</i>		string
<b>updatedTime</b> <i>optional</i>		string

### 5.57. Bookmark

This class provide means to obtain list of bookmarks defined in the TCPWave IPAM by the user and to create a new bookmark in the TCPWave IPAM.

Name	Description	Schema
<b>comment</b> <i>optional</i>	Comment for the bookmark <b>Example</b> : "This is a test bookmark."	string
<b>orgId</b> <i>optional</i>	Database ID of the organization <b>Example</b> : 21	integer(int32)
<b>orgName</b> <i>optional</i>	Name of the organization <b>Example</b> : "TCPWave"	string
<b>queryString</b> <i>optional</i>	Query string <b>Example</b> : "address=192.168.0.120&type=BIND AUTH&isClone=no"	string
<b>type</b> <i>optional</i>	Unique key value to map Bookmark with URI <b>Example</b> : "dnserver or ipamAppliance"	string
<b>user</b> <i>optional</i>	Name of the user <b>Example</b> : "twcadm"	string

Name	Description	Schema
<b>value</b> <i>optional</i>	Name of Bookmark Example : "Test"	string

### 5.58. CentralLoggingConfig

Name	Description	Schema
<b>configName</b> <i>optional</i>		string
<b>configProperties</b> <i>optional</i>		string
<b>configStatus</b> <i>optional</i>		string
<b>configType</b> <i>optional</i>		string
<b>created_by</b> <i>optional</i>		integer(int32)
<b>created_time</b> <i>optional</i>		string(date-time)
<b>created_time_string</b> <i>optional</i>		string
<b>created_user</b> <i>optional</i>		string
<b>description</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int32)
<b>oldConfigProperties</b> <i>optional</i>		string
<b>updated_by</b> <i>optional</i>		integer(int32)
<b>updated_time</b> <i>optional</i>		string(date-time)
<b>updated_time_string</b> <i>optional</i>		string
<b>updated_user</b> <i>optional</i>		string

### 5.59. CentralLoggingFullConfig

Name	Description	Schema
<b>centralLoggingConfig</b> <i>optional</i>		<a href="#">CentralLoggingConfig</a>
<b>centralLoggingConfigs</b> <i>optional</i>		< <a href="#">CentralLoggingConfig</a> > array
<b>dhcpLogs</b> <i>optional</i>		< <a href="#">CentralLoggingServerLog</a> > array
<b>dnsLogs</b> <i>optional</i>		< <a href="#">CentralLoggingServerLog</a> > array
<b>ipamLogs</b> <i>optional</i>		< <a href="#">CentralLoggingServerLog</a> > array

### 5.60. CentralLoggingServerLog

Name	Description	Schema
<b>created_by</b> <i>optional</i>		integer(int32)
<b>created_time</b> <i>optional</i>		string(date-time)
<b>created_time_string</b> <i>optional</i>		string
<b>created_user</b> <i>optional</i>		string
<b>description</b> <i>optional</i>		string



Name	Description	Schema
<b>id</b> <i>optional</i>		integer(int32)
<b>logName</b> <i>optional</i>		string
<b>logPath</b> <i>optional</i>		string
<b>logProperties</b> <i>optional</i>		string
<b>logStatus</b> <i>optional</i>		string
<b>logType</b> <i>optional</i>		string
<b>serverType</b> <i>optional</i>		string
<b>updated_by</b> <i>optional</i>		integer(int32)
<b>updated_time</b> <i>optional</i>		string(date-time)
<b>updated_time_string</b> <i>optional</i>		string
<b>updated_user</b> <i>optional</i>		string

### 5.61. Certificate

Certificate class represents an SSL certificate. It holds the information related to SSL certificate including the serial number, issuer, validity, signature and other information. This class is used in the service calls to import a customer specified SSL certificate into the TCPWave IPAM Web Server.

Name	Description	Schema
<b>cert_name</b> <i>required</i>	Name of the certificate. <b>Example</b> : "User_Certificate"	string
<b>issuer</b> <i>optional</i>	Issuer of the certificate.	string
<b>serial_number</b> <i>optional</i>	Serial number of the certificate. <b>Example</b> : "12345"	string
<b>valid</b> <i>optional</i>	Is the certificate valid? <b>Example</b> : true	boolean
<b>valid_from</b> <i>optional</i>	Certificate validity start date. <b>Example</b> : "02/18/2022"	string
<b>valid_to</b> <i>optional</i>	Certificate validity end date. <b>Example</b> : "02/17/2022"	string

### 5.62. ChartSample

Name	Description	Schema
<b>ip</b> <i>optional</i>		object
<b>name</b> <i>optional</i>		object
<b>time</b> <i>optional</i>		integer(int64)
<b>value</b> <i>optional</i>		object

### 5.63. ChartsData

Name	Description	Schema
<b>dataMap</b> <i>optional</i>		< string, < <a href="#">ChartSample</a> > array > map
<b>ip</b> <i>optional</i>		string
<b>maxHeap</b> <i>optional</i>		integer(int64)
<b>name</b> <i>optional</i>		string

### 5.64. Child Reverse Zone

This class represents a Zone and contains the attributes necessary for Zone management functionality in the TCPWave IPAM. The information includes the Zone Name, Template Name and other Zone related information.

Name	Description	Schema
<b>name</b> <i>required</i>	Name of a reverse zone. <b>Example</b> : "10.in-addr.arpa"	string
<b>networkAddress</b> <i>optional</i>	Reverse zone network full address. <b>Example</b> : "192.168.0.0"	string
<b>networkMask</b> <i>optional</i>	Reverse zone network mask length. <b>Example</b> : 24	integer(int32)

### 5.65. Class Code

This class provides handle to Add, Delete and Update Object type in the TCPWave IPAM. It also provides a list of all available Object types in TCPWave IPAM.

Name	Description	Schema
<b>code</b> <i>required</i>	Object type <b>Example</b> : "Windows"	string
<b>created_by</b> <i>optional</i>	ID of the user who created this object type <b>Example</b> : 45	integer(int32)
<b>created_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified Domain. <b>Example</b> : "Stephen"	string
<b>created_by_name</b> <i>optional</i>	Name of the user who created this object type <b>Example</b> : "user"	string
<b>created_time</b> <i>optional</i>	Created time of the object type <b>Example</b> : "05:21:35 02-01-2022"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time instance when the specified object type has been created. <b>Example</b> : "05:21:35 02-01-2022"	string
<b>description</b> <i>optional</i>	Description for this object type <b>Example</b> : "Windows object type."	string
<b>initial_seq_num</b> <i>required</i>	Initial sequence number used as suffix in the object name. <b>Example</b> : 1	integer(int32)
<b>logo</b> <i>required</i>	Object type logo <b>Example</b> : "/tims/img/custom-object-types/windows2.png"	string
<b>old_class_code</b> <i>optional</i>	Old object type <b>Example</b> : "3G Phone"	string
<b>prefix</b> <i>required</i>	Prefix value of the Object type name <b>Example</b> : "3G"	string
<b>prefix_zeros</b> <i>required</i>	Allow prefix zeros <b>Example</b> : "yes/no"	string
<b>suffix</b> <i>required</i>	Suffix of the Object type name <b>Example</b> : "Phone"	string
<b>updated_by</b> <i>optional</i>	ID of the user who updated this object type <b>Example</b> : 45	integer(int32)
<b>updated_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified Domain. <b>Example</b> : "John"	string
<b>updated_by_name</b> <i>optional</i>	Name of the user who updated this object type <b>Example</b> : "user"	string
<b>updated_seq_num</b> <i>required</i>	Generated sequence number to be used to create the object name <b>Example</b> : 5	integer(int32)
<b>updated_time</b> <i>optional</i>	Updated time of the object type <b>Example</b> : "05:21:35 02-01-2022"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the time instance when the specified object has been updated. <b>Example</b> : "05:21:35 02-01-2022"	string

### 5.66. Class Code Logo

This class represents the file path for rendering logos for various object types.

Type : object

### 5.67. Cloud Hosted Subnet

Cloud Hosted Subnet holds information about Auto Cloud Import status

Name	Description	Schema
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Name	Description	Schema
<b>autoImportEnabled</b> <i>optional</i>	Is auto cloud import enabled on this subnet? <b>Example</b> : true	boolean
<b>cloudProviderName</b> <i>optional</i>	Cloud provider name mapped to the subnet <b>Example</b> : "Test"	string
<b>cloudProviderType</b> <i>optional</i>	Cloud provider type <b>Example</b> : "AWS"	string
<b>id</b> <i>optional</i>	Database ID of the cloud hosted subnet <b>Example</b> : 34	integer(int32)
<b>subnetAddress</b> <i>optional</i>	Subnet address <b>Example</b> : "10.1.2.0/24"	string
<b>updatedBy</b> <i>optional</i>	User who updated the cloud hosted subnet information <b>Example</b> : 321	integer(int32)
<b>updatedByLoginName</b> <i>required</i>	Login name of the user who has updated the specified AWS Image. <b>Example</b> : "Stephen"	string
<b>updatedAt</b> <i>required</i>	AWS Image Updated Time <b>Example</b> : "10:20:20 01-20-2022"	string(date-time)
<b>updatedAtStr</b> <i>required</i>	AWS Image Updated Time <b>Example</b> : "10:20:20 01-20-2022"	string

### 5.68. Cloud Instance Bean

CloudInstanceBean class encapsulates the attributes that are defined at the Cloud Instance, such as the zone name, machine type, image etc.

Name	Description	Schema
<b>dnsName</b> <i>optional</i>	DNS name of the cloud instance <b>Example</b> : "AWS172311623.test.com"	string
<b>objectAddress</b> <i>required</i>	Address of the cloud instance object <b>Example</b> : "10.31.16.23"	string
<b>objectId</b> <i>optional</i>	Database ID of the cloud instance object <b>Example</b> : 501	integer(int32)
<b>objectName</b> <i>required</i>	Name of the cloud instance object <b>Example</b> : "AWS172311623"	string
<b>organizationId</b> <i>optional</i>	Database ID of the organization to which cloud instance object is associated <b>Example</b> : 1	integer(int32)
<b>organizationName</b> <i>required</i>	Name of the organization to which cloud instance object is associated <b>Example</b> : "Internal"	string
<b>providerTemplate</b> <i>required</i>	Cloud instance template to which cloud instance object is associated	<a href="#">Cloud Instance Template</a>
<b>publicIP</b> <i>optional</i>	Public IP address of the cloud instance	string
<b>status</b> <i>required</i>	Status of the cloud instance <b>Example</b> : "RUNNING"	string
<b>subnetAddress</b> <i>required</i>	Subnet Address to which the cloud instance object is associated <b>Example</b> : "10.31.16.0"	string
<b>templateId</b> <i>optional</i>	Database ID of the cloud instance template to which cloud instance is associated <b>Example</b> : 101	integer(int32)
<b>templateName</b> <i>required</i>	Name of the cloud instance template to which cloud instance is associated <b>Example</b> : "AWS-Instance-Provisioning-Template"	string

### 5.69. Cloud Instance Template

CloudInstanceTemplate class encapsulates the attributes that are defined at the Cloud Instance Template, such as the name, cloud provider, description etc.

Name	Description
<b>cloudProviderId</b> <i>required</i>	Database cloud provider ID associated with this cloud instance template <b>Example</b> : 21
<b>cloudProviderName</b> <i>required</i>	Cloud provider name associated with this cloud instance template <b>Example</b> : "AWS-Provider"
<b>cloudProviderType</b> <i>required</i>	Cloud provider type associated with this cloud instance template <b>Example</b> : "AWS"
<b>created_by_name</b> <i>optional</i>	Name of the user who created this cloud instance template <b>Example</b> : "admin"
<b>created_time_string</b> <i>optional</i>	String instance of the created time <b>Example</b> : "2022-01-20 03:16:04"

Name	Description
<b>description</b> <i>required</i>	Description for this cloud instance template <b>Example</b> : "AWS Instance template test"
<b>id</b> <i>optional</i>	Database ID of cloud instance template <b>Example</b> : 101
<b>instanceTplJsonStr</b> <i>required</i>	Cloud provider specific JSON string required to create the cloud instance template <b>Example</b> : "{ \"zone\": \"us-east1-b\", \"machineType\": \"f1-micro\", \"bootDiskImageFamily\": \"centos\", \"bootDiskImage\": \"centos-6-v20180401\", \"nonDepricatedImage\": true, \"bootDiskType\": \"pd-standard\", \"bootDiskSize\": \"10\", \"bootDiskAutoDelete\": true, \"allowHttpTraffic\": true, \"allowHttpsTraffic\": true } \"
<b>name</b> <i>required</i>	Name of the cloud instance template <b>Example</b> : "AWS-Instance-Provisioning-Template"
<b>newName</b> <i>required</i>	New name of the cloud instance template <b>Example</b> : "Default-AWS-Instance-Provisioning-Template"
<b>organizationId</b> <i>optional</i>	Database ID of the organization <b>Example</b> : 1
<b>organizationName</b> <i>required</i>	Name of the organization associated with this cloud instance template <b>Example</b> : "Internal"
<b>updated_by</b> <i>optional</i>	Database ID of the user who updated this cloud instance template <b>Example</b> : 21
<b>updated_by_name</b> <i>optional</i>	Name of the user who updated this cloud instance template <b>Example</b> : "admin"
<b>updated_time_string</b> <i>optional</i>	String instance of the updated time <b>Example</b> : "2022-01-20 05:26:05"

### 5.70. Cloud Subnet Bean

Cloud subnet bean holds information about the cloud enabled subnet

Name	Description	Schema
<b>cloudProviderId</b> <i>optional</i>	Cloud provider ID <b>Example</b> : 34	integer(int32)
<b>cloudProviderName</b> <i>optional</i>	Cloud provider name <b>Example</b> : "TestProvider"	string
<b>cloudProviderType</b> <i>optional</i>	Cloud provider type <b>Example</b> : "AWS"	string
<b>fullAddress</b> <i>optional</i>	Subnet address <b>Example</b> : "10.1.10.0/24"	string
<b>name</b> <i>optional</i>	Subnet name <b>Example</b> : "TestSubnet"	string
<b>organizationId</b> <i>optional</i>	Organization ID <b>Example</b> : 23	integer(int32)
<b>organizationName</b> <i>optional</i>	Organization name <b>Example</b> : "Internal"	string
<b>subnetTemplateId</b> <i>optional</i>	Subnet template ID <b>Example</b> : 34	integer(int32)
<b>subnetTemplateName</b> <i>optional</i>	Subnet template name <b>Example</b> : "TestSubnetTemplate"	string

### 5.71. Cloud Subnet Creation Status Information

This bean holds information about the cloud subnet creation status

Name	Description	Schema
<b>status</b> <i>optional</i>	Subnet creation status (Created/Failed) <b>Example</b> : "Created"	string
<b>statusMsg</b> <i>optional</i>	Subnet creation status message <b>Example</b> : "Subnet 10.1.10.0/24 has been created successfully."	string
<b>subnet</b> <i>optional</i>	Subnet address <b>Example</b> : "10.1.10.0/24"	string
<b>success</b> <i>optional</i>	Is subnet creation success or not? <b>Example</b> : true	boolean

### 5.72. Cloud Subnets Creation Status in the IPAM

This class encapsulates the information which indicates import subnets status after importing the cloud subnets into the TCPWave IPAM.

Name	Description	Schema

Name	Description	Schema
<b>created</b> <i>optional</i>	Number of subnets successfully created <b>Example</b> : 30	integer(int32)
<b>failed</b> <i>optional</i>	Number of subnets failed to import <b>Example</b> : 20	integer(int32)
<b>statusMessages</b> <i>optional</i>	List of SubnetCreateInfo instances	< <a href="#">Cloud Subnet Creation Status Information</a> > array
<b>totalRequested</b> <i>optional</i>	Total Number of requested subnets <b>Example</b> : 50	integer(int32)

### 5.73. CloudGeoLocations

Name	Description	Schema
<b>continentCode</b> <i>optional</i>	Continent code <b>Example</b> : "AS"	string
<b>continentname</b> <i>optional</i>	Name of the continent <b>Example</b> : "ASIA"	string
<b>countryCode</b> <i>optional</i>	Country code <b>Example</b> : "IN"	string
<b>countyName</b> <i>optional</i>	Name of the country <b>Example</b> : "INDIA"	string
<b>type</b> <i>optional</i>		string

### 5.74. CloudHealthCheckerforAliasRRS

Name	Description	Schema
<b>healthCallerReference</b> <i>optional</i>	Reference of the health checker <b>Example</b> : "43ce0b8f-4e1b-4568-8f95-b8988c01b053"	string
<b>healthCheckversion</b> <i>optional</i>	Version of the health checker <b>Example</b> : "2.0"	integer(int64)
<b>healthID</b> <i>optional</i>	ID of the health checker <b>Example</b> : "43ce0b8f-4e1b-4568-8f95-b8988c01b053"	string

### 5.75. CloudRR

Name	Description	Schema
<b>addedARRs</b> <i>optional</i>		< <a href="#">CloudRR</a> > array
<b>data</b> <i>optional</i>		string
<b>deletedARRs</b> <i>optional</i>		< <a href="#">CloudRR</a> > array
<b>domain</b> <i>optional</i>		string
<b>evaluateHealthTarget</b> <i>optional</i>		boolean
<b>failover</b> <i>optional</i>		boolean
<b>geoLocation</b> <i>optional</i>		string
<b>healthCheck</b> <i>optional</i>		boolean
<b>healthCheckID</b> <i>optional</i>		string
<b>hostedZoneID</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int32)
<b>isAliasType</b> <i>optional</i>		boolean
<b>name</b> <i>optional</i>		string
<b>region</b> <i>optional</i>		string

Name	Description	Schema
<b>routingPolicy</b> <i>optional</i>		string
<b>setIdentifier</b> <i>optional</i>		string
<b>ttl</b> <i>optional</i>		integer(int32)
<b>type</b> <i>optional</i>		string
<b>value</b> <i>optional</i>		string
<b>weight</b> <i>optional</i>		integer(int64)
<b>zone_id</b> <i>optional</i>		integer(int32)

### 5.76. CloudResource

Name	Description	Schema
<b>account</b> <i>optional</i>		string
<b>cloudProviderId</b> <i>optional</i>		integer(int32)
<b>iamRole</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int32)
<b>region</b> <i>optional</i>		string
<b>resourceName</b> <i>optional</i>		string
<b>resourceType</b> <i>optional</i>		integer(int32)

### 5.77. CloudResourceWrapper

Name	Description	Schema
<b>account</b> <i>optional</i>		string
<b>cloud_provider_id</b> <i>optional</i>		integer(int32)
<b>cloud_provider_name</b> <i>optional</i>		string
<b>cloud_provider_type</b> <i>optional</i>		string
<b>iam_role</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int32)
<b>old_resource_name</b> <i>optional</i>		string
<b>organization_name</b> <i>optional</i>		string
<b>region</b> <i>optional</i>		string
<b>resource_name</b> <i>optional</i>		string
<b>resource_type</b> <i>optional</i>		string

### 5.78. Column Metadata

This class holds the metadata related to a given column of import type.

Name	Description	Schema
<b>mandatory</b> <i>optional</i>	Is the column mandatory for the import <b>Example</b> : true	boolean

Name	Description	Schema
<b>maxLength</b> <i>optional</i>	Maximum length of the data allowed for the column <b>Example</b> : 30	integer(int32)
<b>minLength</b> <i>optional</i>	Minimum length of the data allowed for the column <b>Example</b> : 3	integer(int32)
<b>name</b> <i>optional</i>	Column name <b>Example</b> : "IP Address"	string
<b>type</b> <i>optional</i>	Column type <b>Example</b> : "IP"	enum (INT, STR, ENUM_0, IP, STR_LIST, DOMAIN, DOMAIN_ARRAY, MAC, EMAIL, SUPRESS, RR_TYPE, CLASS, PHONE_NUM, DATE, REGEX, IP_LIST)
<b>xtnId</b> <i>optional</i>	Get extension attribute Id <b>Example</b> : 3	integer(int32)

### 5.79. Component

Name	Description	Schema
<b>component</b> <i>optional</i>	Name or Address of the Component <b>Example</b> : "ns0001"	string
<b>componentId</b> <i>optional</i>	Database ID of the Component <b>Example</b> : 364	integer(int32)
<b>componentType</b> <i>required</i>	Type of the Component <b>Example</b> : "DNS"	string

### 5.80. Contacts Information

This class encapsulates the information of various contacts defined.

Name	Description	Schema
<b>created_by_name</b> <i>required</i>	Login name of the user who created this entity	string
<b>created_time_string</b> <i>optional</i>	String instance of the Date and Time	string
<b>email_id</b> <i>required</i>	Email address of the contact	string
<b>first_name</b> <i>required</i>	First name of the contact	string
<b>full_name</b> <i>required</i>	Full name of the contact	string
<b>id</b> <i>optional</i>	ID of this Contact	integer(int32)
<b>last_name</b> <i>required</i>	Last name of the contact	string
<b>middle_name</b> <i>required</i>	Middle name of Contact	string
<b>old_email_id</b> <i>required</i>	Previous email id of the contact being updated.	string
<b>old_first_name</b> <i>required</i>	Previous first name of the contact being updated.	string
<b>old_last_name</b> <i>required</i>	Previous last name of the contact being updated.	string
<b>old_middle_name</b> <i>required</i>	Previous middle name of the contact being updated.	string
<b>organization_id</b> <i>optional</i>	Database ID of the organization to which this contact belongs	integer(int32)
<b>organization_name</b> <i>required</i>	Organization name of the contact to which this contact belongs	string
<b>phone_num</b> <i>required</i>	Phone number of the contact	string
<b>roles</b> <i>required</i>	Role of the contact	string
<b>updated_by_name</b> <i>required</i>	Login name of the user who updated this entity	string
<b>updated_time_string</b> <i>optional</i>	String instance of the Date and Time	string

### 5.81. Countries list

List of countries.

Name	Description	Schema
<b>countryCode</b> <i>optional</i>		string
<b>countryName</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int32)

### 5.82. Create Network Request

This class holds the information required to create network in cloud.

Name	Description	Schema
<b>cloudProviderName</b> <i>optional</i>	Cloud provider name <b>Example</b> : "AWS"	string
<b>dhcpOptionsSetId</b> <i>optional</i>	DHCP Option Set ID <b>Example</b> : "Test"	string
<b>endIP</b> <i>optional</i>	End IP of IP range. <b>Example</b> : "10.0.0.255"	string
<b>fullAddress</b> <i>optional</i>	Network address <b>Example</b> : "10.1.10.0/24"	string
<b>mask</b> <i>optional</i>	Mask length of the network <b>Example</b> : 24	integer(int32)
<b>name</b> <i>optional</i>	Name of the network <b>Example</b> : "Test"	string
<b>orgName</b> <i>optional</i>	Name of the organization <b>Example</b> : "Internal"	string
<b>series</b> <i>optional</i>	Network Series. It accepts 10, 172 or 192 <b>Example</b> : "10"	string
<b>startIP</b> <i>optional</i>	Start IP of IP range. <b>Example</b> : "10.0.0.1"	string
<b>tenancy</b> <i>optional</i>	Tenancy of the network <b>Example</b> : "Dedicated"	string

### 5.83. Create Network Response

This class holds the information of the network created in cloud.

Name	Description	Schema
<b>dhcpOptionsId</b> <i>optional</i>	DHCP Option Set ID <b>Example</b> : "Test"	string
<b>instanceTenancy</b> <i>optional</i>	Tenancy of the network <b>Example</b> : "Dedicated"	string
<b>isDefault</b> <i>optional</i>	Is this network default one? <b>Example</b> : true	boolean
<b>state</b> <i>optional</i>	State of the network <b>Example</b> : "Pending"	string
<b>v4FullAddress</b> <i>optional</i>	Network address <b>Example</b> : "10.1.10.0/24"	string
<b>vpcId</b> <i>optional</i>	Network ID <b>Example</b> : "vpc-10"	string

### 5.84. Create Scope Request

Name	Description	Schema
<b>dyn_update_rrs_a</b> <i>required</i>	Boolean value for Dynamic DNS Update of A resource records for DHCP lease objects <b>Example</b> : true	boolean
<b>dyn_update_rrs_cname</b> <i>required</i>	Boolean value for Dynamic DNS Update of CNAME resource records for DHCP lease objects <b>Example</b> : true	boolean
<b>dyn_update_rrs_mx</b> <i>required</i>	Boolean value for Dynamic DNS Update of MX resource records for DHCP lease objects <b>Example</b> : true	boolean
<b>dyn_update_rrs_ptr</b> <i>required</i>	Boolean value for Dynamic DNS Update of PTR resource records for DHCP lease objects <b>Example</b> : true	boolean



Name	Description	Schema
<b>scope</b> <i>required</i>	Scope Information	<a href="#">Scope Information</a>
<b>subnetAddress</b> <i>required</i>	Subnet address of the scope <b>Example</b> : "10.0.0.1"	string
<b>ttl</b> <i>required</i>	TTL value for the scope objects <b>Example</b> : 1200	integer(int32)
<b>update_ns_a</b> <i>required</i>	Boolean value to update Name Services A resource records for DHCP lease objects <b>Example</b> : true	boolean
<b>update_ns_ptr</b> <i>required</i>	Boolean value to update Name Services PTR resource records for DHCP lease objects <b>Example</b> : true	boolean
<b>v6Scope</b> <i>required</i>	IPv6 Scope	<a href="#">IPv6 Scope</a>

### 5.85. Create Subnet Request

This class holds the information required to create subnet in cloud.

Name	Description	Schema
<b>cloudProviderName</b> <i>optional</i>	Cloud provider name <b>Example</b> : "AWS"	string
<b>mask</b> <i>optional</i>	Mask length of the subnet <b>Example</b> : 24	integer(int32)
<b>name</b> <i>optional</i>	Name of the subnet <b>Example</b> : "Test"	string
<b>networkFullAddress</b> <i>required</i>	Name of the region where subnet is being created <b>Example</b> : "us-east1"	string
<b>orgName</b> <i>optional</i>	Name of the organization <b>Example</b> : "Internal"	string
<b>region</b> <i>required</i>	Name of the region where subnet is being created <b>Example</b> : "us-east1"	string
<b>subnetFullAddress</b> <i>optional</i>	Subnet address <b>Example</b> : "10.1.10.0/24"	string
<b>vpcId</b> <i>optional</i>	Network ID <b>Example</b> : "vpc-10"	string

### 5.86. Create Subnet Response

This class holds the information of the subnet created in cloud.

Name	Description	Schema
<b>availableIpsCount</b> <i>optional</i>	Available IP count in the subnet <b>Example</b> : 150	integer(int32)
<b>state</b> <i>optional</i>	State of the subnet <b>Example</b> : "Pending"	string
<b>subnetAddress</b> <i>optional</i>	Subnet address <b>Example</b> : "10.1.10.0/24"	string
<b>subnetId</b> <i>optional</i>	Subnet ID <b>Example</b> : "subnet-01"	string
<b>vpcId</b> <i>optional</i>	Network ID <b>Example</b> : "vpc-10"	string

### 5.87. DBDiscoveryCommand

The class includes discovery of Database and list the discovered information and set the status on the discovery command.

Name	Description	Schema
<b>cmdId</b> <i>required</i>	Command ID <b>Example</b> : 238	integer(int32)
<b>current</b> <i>optional</i>	Current Command	integer(int32)
<b>endTime</b> <i>optional</i>	End Time	string
<b>ipAdd</b> <i>required</i>	IP Address	string
<b>mask</b> <i>required</i>	Return Mask	string

Name	Description	Schema
<b>noDevicesDiscovered</b> <i>optional</i>	Un-Discovered Devices	integer(int32)
<b>numberOfDevicesInSubnet</b> <i>optional</i>	Number Of Devices In Subnet	integer(int32)
<b>numberOfDevicesPolled</b> <i>required</i>	Number Of Devices Polled	integer(int32)
<b>orgName</b> <i>required</i>	Name of the organization <b>Example</b> : "Internal"	string
<b>seedRouterList</b> <i>optional</i>	Seed Routers List	string
<b>startTime</b> <i>optional</i>	Start Time	string
<b>status</b> <i>required</i>	Status	string(byte)
<b>statusName</b> <i>required</i>	Status Name	string
<b>subnetWithMask</b> <i>optional</i>	Subnet with Mask	string
<b>type</b> <i>required</i>	Type	string(byte)
<b>vrfName</b> <i>required</i>	Name of the VRF	string

### 5.88. DHCP Appliance

Holds the properties that are specific to a DHCP Appliance. That are used to generate the DHCP configuration.

Name	Description	Schema
<b>macExclusionArray</b> <i>optional</i>	Array of MAC Addresses to exclude from a lease grant	< <a href="#">MAC Addresses Information</a> > array
<b>server</b> <i>optional</i>	Server Information	<a href="#">Server Information</a>

### 5.89. DHCP Appliance Statistics Details

This class contains information related to all DHCP Appliance Statistics used in DHCP Appliance Statistics Report.

Type : object

### 5.90. DHCP Class

Holds the name, description and match expression for DHCP Client, Vendor and User class definitions.

Name	Description	Schema
<b>created_by</b> <i>optional</i>	Database ID of the user who created this entity	integer(int32)
<b>created_by_login_name</b> <i>optional</i>	Login name of the user who created this entity	string
<b>created_by_name</b> <i>required</i>	Login name of the user who created this entity	string
<b>created_time</b> <i>required</i>	Date and Time of creation of the entity	string(date-time)
<b>created_time_string</b> <i>optional</i>	String instance of the Date and Time	string
<b>description</b> <i>required</i>	Description of the DHCP Class	string
<b>entity_type</b> <i>required</i>	Entity Type of the DHCP Class (CLIENT/VENDOR/USER)	string
<b>id</b> <i>optional</i>	Database ID of the DHCP Class	integer(int32)
<b>match_expression</b> <i>required</i>	Match Expression of the given DHCP Class	string
<b>name</b> <i>required</i>	Name of the DHCP Class	string
<b>previous_name</b> <i>required</i>	Previous name of the DHCP Class	string
<b>updated_by</b> <i>optional</i>	Database ID of the user who updated this entity	integer(int32)

Name	Description	Schema
<b>updated_by_login_name</b> <i>optional</i>	Login name of the user who updated this entity	string
<b>updated_by_name</b> <i>required</i>	Login name of the user who updated this entity	string
<b>updated_time</b> <i>optional</i>	Date and Time of updating the entity	string(date-time)
<b>updated_time_string</b> <i>required</i>	String instance of the Date and Time	string

### 5.91. DHCP Failover

Encapsulates the DHCP Failover Server Configuration such as, Failover address, Port essential to perform DHCP peer to peer communication, Split ratio etc.

Name	Description	Schema
<b>created_by</b> <i>required</i>	Id of the User who has created the DHCP peer. <b>Example</b> : 2017	integer(int32)
<b>created_by_login_name</b> <i>required</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified DHCP peer. <b>Example</b> : "Stephen"	string
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified DHCP peer is created. <b>Example</b> : "03/18/2022 3:39"	string
<b>description</b> <i>optional</i>	Description for the DHCP Peer. <b>Example</b> : " Tcwave peer1"	string
<b>dhcp_type</b> <i>required</i>	DHCP Appliance type <b>Example</b> : "dhcp/msdhcp"	string
<b>failoverServerAddress</b> <i>required</i>	DHCP Peer Configuration failover appliance IP Address <b>Example</b> : "10.1.20.8"	string
<b>failoverServerName</b> <i>required</i>	Name of the failover appliance. <b>Example</b> : "est015-s109115"	string
<b>failoverState</b> <i>optional</i>	Failover state of the DHCP failover peer <b>Example</b> : "normal"	string
<b>failover_port</b> <i>required</i>	DHCP Failover appliance Port number for peer Configuration <b>Example</b> : 648	integer(int32)
<b>load_balance_max_secs</b> <i>required</i>	DHCP Failover Configuration Parameters for load balance(in sec) <b>Example</b> : 3	integer(int32)
<b>max_response_delay</b> <i>required</i>	Maximum Response delay (in sec) <b>Example</b> : 30	integer(int32)
<b>max_unacked_updates</b> <i>required</i>	Maximum unpacked updates <b>Example</b> : 30	integer(int32)
<b>mclt</b> <i>required</i>	Maximum client lease time for failover configuration(in sec) <b>Example</b> : 1800	integer(int32)
<b>message_authentication</b> <i>optional</i>	Microsoft DHCP appliance failover configuration parameter to enable/disable message authentication between peer appliances <b>Example</b> : true	boolean
<b>name</b> <i>required</i>	DHCP Peer name <b>Example</b> : "failoverPeer1"	string
<b>oldName</b> <i>required</i>	DHCP Peer previous name <b>Example</b> : "failoverPeer"	string
<b>organizationName</b> <i>required</i>	Organization name <b>Example</b> : "Internal"	string
<b>primaryServerAddress</b> <i>required</i>	DHCP Peer Configuration Primary appliance IP Address <b>Example</b> : "10.1.20.5"	string
<b>primaryServerName</b> <i>required</i>	Name of the primary appliance. <b>Example</b> : "est015-s109113"	string
<b>primaryState</b> <i>optional</i>	Primary state of the DHCP failover peer <b>Example</b> : "normal"	string
<b>primary_port</b> <i>required</i>	DHCP Primary appliance Port number for peer Configuration <b>Example</b> : 647	integer(int32)
<b>shared_secret</b> <i>optional</i>	Shared secret key for Microsoft DHCP appliance failover communication <b>Example</b> : "abc123"	string
<b>split</b> <i>required</i>	Load balancing share percentage <b>Example</b> : 50	integer(int32)
<b>sso_interval</b> <i>optional</i>	State switch over interval time duration(in seconds) <b>Example</b> : 2	integer(int32)

Name	Description	Schema
<b>status</b> <i>optional</i>	Status of the DHCP failover peer <b>Example</b> : true	boolean
<b>updated_by</b> <i>required</i>	Id of the User who has modified the specified DHCP peer. <b>Example</b> : 123	integer(int32)
<b>updated_by_login_name</b> <i>required</i>	The User's name, who has logged into the TCPWave IPAM, has been set as updated By for the specified DHCP Peer. <b>Example</b> : "John"	string
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified DHCP peer is modified. <b>Example</b> : "03/18/2022 4:37"	string

### 5.92. DHCP Option Space

DHCP option space class encapsulates the attributes of a generic Option space.

Name	Description	Schema
<b>created_by</b> <i>required</i>	Id of the User who has created the specified DHCP Option Space. <b>Example</b> : 2017	integer(int32)
<b>created_by_name</b> <i>optional</i>	Name of the User who has created the specified DHCP Option Space. <b>Example</b> : "Stephen"	string
<b>created_time</b> <i>optional</i>	The time instance when the specified DHCP Option Space has been created. <b>Example</b> : "05:21:35 02-01-2022"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified DHCP Option Space is created. <b>Example</b> : "05:21:35 02-01-2022"	string
<b>description</b> <i>required</i>	Description for option space <b>Example</b> : "Integrated with DB sub options "	string
<b>optionSpaceName</b> <i>required</i>	option space name <b>Example</b> : "optionSpacedb"	string
<b>prevoptionSpaceName</b> <i>required</i>	Previous option space name <b>Example</b> : "optionSpacedb1"	string
<b>updated_by</b> <i>required</i>	Id of the User who has modified the specified DHCP Option Space. <b>Example</b> : 2019	integer(int32)
<b>updated_by_name</b> <i>optional</i>	Name of the user who has modified the DHCP Option Space. <b>Example</b> : "John"	string
<b>updated_time</b> <i>optional</i>	The time instance when the specified DHCP Option Space has been modified. <b>Example</b> : "05:21:35 02-01-2022"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified DHCP Option Space is modified. <b>Example</b> : "05:21:35 02-01-2022"	string
<b>vendorClassName</b> <i>optional</i>	Vendor class identifier <b>Example</b> : "Apple"	string

### 5.93. DHCP active lease count

This class gives the information of IPv4 and IPv6 DHCP active lease and free objects count.

Type : object

### 5.94. DHCPApplianceDefaults

Name	Description
<b>created_by</b> <i>required</i>	IPAM appliance template created by user Id <b>Example</b> : 1219
<b>created_by_name</b> <i>optional</i>	IPAM appliance template created by user name <b>Example</b> : "twcuser"
<b>created_time</b> <i>optional</i>	IPAM appliance template created time stamp <b>Example</b> : "122221231"
<b>elevatedPrivilegesConfig</b> <i>optional</i>	Elevated Privileges Configuration Details <b>Example</b> : "{\environmentVariables\": [{\value\": \"Defaults always_query_group_plugin\"}], \"userAliases\": [{\user_alias_name\": \"USER_ALIAS_1\", \"user_alias_value\": \"testuser\"}], \"hostAliases\": [{\host_alias_name\": \"HOST_ALIAS_1\", \"host_alias_value\": \"192.168.0.139\"}], \"runasAliases\": [{\runas_alias_name\": \"RUNAS_ALIAS_1\", \"runas_alias_value\": \"user2\"}], \"commandAliases\": [{\command_alias_name\": \"COMMAND_ALIAS_1\", \"command_alias_value\": \"/cp\"}], \"userSpecifications\": [{\user_alias\": \"USER_ALIAS_1\", \"host_alias\": \"HOST_ALIAS_1\", \"runas_alias\": \"RUNAS_ALIAS_1\", \"runas_group_al

Name	Description
<b>elevatedPrivilegesJson</b> <i>optional</i>	Elevated Privileges Configuration JSON String <b>Example:</b> <code>"{\environmentVariables\": [{\"value\": \"Defaults always_query_group_plugin\"}], \"userAliases\": [{\"user_alias_name\": \"USER_ALIAS_1\", \"user_alias_value\": \"testuser\"}], \"hostAliases\": [{\"host_alias_name\": \"HOST_ALIAS_1\", \"host_alias_value\": \"192.168.0.139\"}], \"runasAliases\": [{\"runas_alias_name\": \"RUNAS_ALIAS_1\", \"runas_alias_value\": \"user2\"}], \"commandAliases\": [{\"command_alias_name\": \"COMMAND_ALIAS_1\", \"command_alias_value\": \"/cp\"}], \"userSpecifications\": [{\"user_alias\": \"USER_ALIAS_1\", \"host_alias\": \"HOST_ALIAS_1\", \"runas_alias\": \"RUNAS_ALIAS_1\", \"runas_group_al</code>
<b>ldapSSHConfig</b> <i>optional</i>	JSON string of the LDAP SSH configuration - for Internal use only
<b>syslogConfig</b> <i>optional</i>	JSON string of the Syslog-ng configuration – for Internal use only
<b>syslogNgConfig</b> <i>optional</i>	Syslog-NG Configuration Details
<b>tacacsConfig</b> <i>optional</i>	JSON string of the TACACS configuration - for Internal use only
<b>tacacsConfigDecrypted</b> <i>optional</i>	JSON decrypted string of the TACACS configuration - for Internal use only
<b>updated_by</b> <i>optional</i>	IPAM appliance template updated by user Id <b>Example:</b> 1219
<b>updated_by_name</b> <i>optional</i>	IPAM appliance template updated by user name <b>Example:</b> "twcuser"
<b>updated_time</b> <i>optional</i>	IPAM appliance template updated time stamp <b>Example:</b> "1222221231"

### 5.95. DHCPLeaseObject

Name	Description	Schema
<b>address</b> <i>required</i>	DHCP lease object address <b>Example:</b> "10.2.3.5"	string
<b>dhcpServer</b> <i>required</i>	DHCP appliance name <b>Example:</b> "DHCP_appliance"	string
<b>ends</b> <i>optional</i>	Lease duration end time <b>Example:</b> "02/28/2022 11:27:30"	string
<b>fingerPrintData</b> <i>optional</i>	Finger print data	<a href="#">Fingerprint data information</a>
<b>mac</b> <i>required</i>	Hardware Address of object <b>Example:</b> "aa:bb:cc:dd:ee:ff"	string
<b>name</b> <i>required</i>	Client host name of the object <b>Example:</b> "ctxs-phone"	string
<b>starts</b> <i>optional</i>	Lease duration start time <b>Example:</b> "02/28/2022 1:27:30"	string

### 5.96. DHCPTrafficChart

Name	Description	Schema
<b>acknowledge</b> <i>optional</i>		integer(int32)
<b>discover</b> <i>optional</i>		integer(int32)
<b>offer</b> <i>optional</i>		integer(int32)
<b>release</b> <i>optional</i>		integer(int32)
<b>request</b> <i>optional</i>		integer(int32)
<b>server_name</b> <i>optional</i>		string
<b>start_time</b> <i>optional</i>		string

### 5.97. DNS Appliance Statistics Details

This class contains information related to all DNS Appliance Statistics used in DNS Appliance Statistics Report.

Name	Description	Schema
<b>action_time</b> <i>optional</i>		string

Name	Description	Schema
<b>appliance_type</b> <i>optional</i>		string
<b>badvers</b> <i>optional</i>		integer(int32)
<b>boot_time</b> <i>optional</i>		string
<b>config_time</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		string
<b>ipv4_address</b> <i>optional</i>		string
<b>noerror</b> <i>optional</i>		integer(int32)
<b>notauth</b> <i>optional</i>		integer(int32)
<b>notzone</b> <i>optional</i>		integer(int32)
<b>nxdomain</b> <i>optional</i>		integer(int32)
<b>qryauthans</b> <i>optional</i>		integer(int32)
<b>qrydropped</b> <i>optional</i>		integer(int32)
<b>qryduplicate</b> <i>optional</i>		integer(int32)
<b>qrynoauthans</b> <i>optional</i>		integer(int32)
<b>qrynxdomain</b> <i>optional</i>		integer(int32)
<b>qryrecursion</b> <i>optional</i>		integer(int32)
<b>qryreferral</b> <i>optional</i>		integer(int32)
<b>qryservfail</b> <i>optional</i>		integer(int32)
<b>qrysuccess</b> <i>optional</i>		integer(int32)
<b>qrytcp</b> <i>optional</i>		integer(int32)
<b>qryudp</b> <i>optional</i>		integer(int32)
<b>refused</b> <i>optional</i>		integer(int32)
<b>regedns0</b> <i>optional</i>		integer(int32)
<b>reqtcp</b> <i>optional</i>		integer(int32)
<b>requestv4</b> <i>optional</i>		integer(int32)
<b>requestv6</b> <i>optional</i>		integer(int32)
<b>respedns0</b> <i>optional</i>		integer(int32)
<b>response</b> <i>optional</i>		integer(int32)
<b>server_name</b> <i>optional</i>		string
<b>servfail</b> <i>optional</i>		integer(int32)
<b>total_queries</b> <i>optional</i>		integer(int32)

Name	Description	Schema
<b>totalrows</b> <i>optional</i>		string
<b>version</b> <i>optional</i>		string

### 5.98. DNS Appliance Template

This class represents a DNS Appliance Template and contains the attributes necessary for DNS Appliance Template management functionality in TCPWave IPAM. The information includes the Access Control List(ACL) List, Algorithm List, Appliance Type and other DNS Appliance Template related information.

Name	Description	Schema
<b>acls</b> <i>required</i>	List of all Access Control List associated to the specified DNS Appliance Template.	< <a href="#">Access Control List(ACL)</a> > array
<b>addedforwarders</b> <i>optional</i>		< <a href="#">ForwardersCategory</a> > array
<b>algos</b> <i>required</i>	List of all DNS signing Algorithm associated to the specified DNS Appliance Template.	< <a href="#">Algorithm</a> > array
<b>created_by</b> <i>required</i>	Id of the User who has created the specified DNS Appliance Template. <b>Example</b> : 2017	integer(int32)
<b>created_by_login_name</b> <i>optional</i>	The User's name, has logged into the TCPWave IPAM, has been set as Created By for the specified DNS Appliance Template. <b>Example</b> : "Stephen"	string
<b>created_by_name</b> <i>optional</i>	User Name who has created this DNS Appliance Template. <b>Example</b> : "Stephen"	string
<b>created_time</b> <i>optional</i>	The time instance when the specified DNS Appliance Template has been created. <b>Example</b> : "03/18/2022 3:39"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified DNS Appliance Template has been created. <b>Example</b> : "03/18/2022 3:39"	string
<b>deletedforwarders</b> <i>optional</i>		< <a href="#">ForwardersCategory</a> > array
<b>description</b> <i>optional</i>	Description for the specified DNS Appliance Template. <b>Example</b> : "DNS Appliance Template for BIND Auth Appliance type. "	string
<b>dmzForwarders</b> <i>optional</i>	Semicolon separated list of IPv4 addresses of internal resolvers for DMZ cache forwarding. <b>Example</b> : "192.168.0.20;172.16.0.2"	string
<b>email_id</b> <i>optional</i>	E-mail id of the user for the specified DNS Appliance Template. <b>Example</b> : " <a href="mailto:Stephen.martin@gmail.com">Stephen.martin@gmail.com</a> "	string
<b>enable_dnstap</b> <i>required</i>	Specifies whether DNSTAP logs for the specified DNS Appliance Template is enabled or not. <b>Example</b> : true	boolean
<b>enable_dynamic_updates</b> <i>required</i>	Specifies whether dynamic update for the specified DNS Appliance Template is enabled or not. <b>Example</b> : true	boolean
<b>forwarders</b> <i>optional</i>		< <a href="#">ForwardersCategory</a> > array
<b>id</b> <i>optional</i>	ID of the specified DNS Server Template. <b>Example</b> : 84	integer(int32)
<b>loggers</b> <i>required</i>	List of the log categories and log channels for the specified DNS Appliance Template.	< <a href="#">Logger</a> > array
<b>name</b> <i>required</i>	Name of the specified DNS Appliance Template. <b>Example</b> : "Bind Auth Appliance Template"	string
<b>new_name</b> <i>optional</i>	Modified name for the specified DNS Appliance Template. <b>Example</b> : "BIND CACHE Appliance Template"	string
<b>server_type_code</b> <i>required</i>	Code of the Appliance type for the specified DNS Appliance Template. <b>Example</b> : "BIND AUTH"	string
<b>server_type_id</b> <i>required</i>	ID of the Appliance type for the specified DNS Appliance Template. <b>Example</b> : 128	integer(int32)
<b>updated_by</b> <i>required</i>	Id of the User who has modified the specified DNS Appliance Template. <b>Example</b> : 2019	integer(int32)

Name	Description	Schema
<b>updated_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Updated By for the specified DNS Appliance Template. <b>Example</b> : "John"	string
<b>updated_by_name</b> <i>optional</i>	User Name who has modified the specified DNS Appliance Template. <b>Example</b> : "John"	string
<b>updated_time</b> <i>optional</i>	The time instance when the specified DNS Appliance Template has been modified. <b>Example</b> : "03/18/2022 4:37"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified this DNS Appliance Template has been updated. <b>Example</b> : "03/18/2022 4:37"	string

### 5.99. DNS Appliance Tool

This class represents a DNS Tool and contains the attributes necessary for DNS Tool management functionality in the TCPWave IPAM. The information includes the Resource Record Name, Resource Record Value, Resource Record Type, Domain Name and other DNS Tool related information.

Name	Description	Schema
<b>dnssec_details</b> <i>required</i>	DNSSEC Details (Key).	string
<b>domain_id</b> <i>required</i>	Id of the Domain for the specified Converge Resource Record. <b>Example</b> : 135978	integer(int32)
<b>domain_name</b> <i>required</i>	Name of the Domain for the specified Converge Resource Record. <b>Example</b> : "edu.com"	string
<b>getdnssec_enabled</b> <i>required</i>	DNSSEC is Enabled/Disabled (true/false)	boolean
<b>interfaceIP</b> <i>optional</i>		string
<b>items</b> <i>optional</i>		< string, string > map
<b>maskLength</b> <i>optional</i>	Network mask length <b>Example</b> : 24	integer(int32)
<b>obj_type</b> <i>required</i>	Address type of the specified Object. <b>Example</b> : "IPv4"	string
<b>organization_id</b> <i>required</i>	Id of the Organization for the specified Converge Resource Record. <b>Example</b> : 998	integer(int32)
<b>organization_name</b> <i>required</i>	Name of the organization. <b>Example</b> : "EARTH"	string
<b>rev_zone_name</b> <i>required</i>	Name of the Reverse Zone for the specified Network. <b>Example</b> : "0-17.144.133.in-addr.arpa"	string
<b>rr_data</b> <i>required</i>	Data of the Resource Record for the Converge Resource Record.	string
<b>rr_fqdn</b> <i>required</i>	Fully qualified domain name for the specified Converge Resource Record.	string
<b>rr_name</b> <i>required</i>	Short name of the Resource Record Name for the Converge Resource Record. <b>Example</b> : "www.edu.com"	string
<b>rr_type</b> <i>required</i>	Type of the Resource Record for the specified Converge Resource Record. <b>Example</b> : "A"	string
<b>rr_value</b> <i>required</i>	Value Resource Record for the specified Converge Resource Record. <b>Example</b> : "10.0.0.1"	string
<b>server_ip</b> <i>required</i>	IP Address of DNS Appliance for the specified Converge Resource Record. <b>Example</b> : "10.1.10.191"	string
<b>server_name</b> <i>required</i>	Name of the DNS Appliance for the specified Converge Resource Record. <b>Example</b> : "nus1ax-s10983-191.edu.com"	string
<b>server_type</b> <i>required</i>	Type of DNS Server i.e. Master or Slave for the specified Converge Resource Record. <b>Example</b> : "Master"	string
<b>server_type_code</b> <i>required</i>	Code of the Appliance Type for the specified Converge Resource Record. <b>Example</b> : "BIND AUTH"	string
<b>status</b> <i>required</i>	Defines whether the resource record is up to date or not with respect to master and slaves. <b>Example</b> : "Up to Date"	string

### 5.100. DNS Cloud Provider

This class contains cloud DNS provider information. The information includes the cloud DNS provider name and



authentication credentials required for interaction with cloud DNS service provider API.

Name	Description	Schema
<b>account</b> <i>optional</i>		string
<b>addedResources</b> <i>optional</i>		< <a href="#">CloudResource</a> > array
<b>adtenant</b> <i>required</i>	AD tenant ID of the cloud DNS provider.	string
<b>api_key</b> <i>required</i>	API Key for the cloud provider.	string
<b>api_password</b> <i>optional</i>		string
<b>application</b> <i>required</i>	Application of the cloud DNS provider.	string
<b>cloud_dns_provider_type_id</b> <i>required</i>	ID of the cloud DNS provider type. <b>Example</b> : 1	integer(int32)
<b>cloud_dns_provider_type_name</b> <i>required</i>	Name of the cloud DNS provider type. <b>Example</b> : "AWS"	string
<b>created_by</b> <i>required</i>	An ID of the user who has created the specified cloud DNS provider. <b>Example</b> : 1	integer(int32)
<b>created_by_login_name</b> <i>required</i>	Login name user name who has created the specified cloud DNS provide. <b>Example</b> : "Stephen"	string
<b>created_by_name</b> <i>required</i>	User Name who has created the specified cloud DNS provider. <b>Example</b> : "Stephen"	string
<b>created_time</b> <i>required</i>	The time when the specified cloud DNS provider is created. <b>Example</b> : "1.4792E+12"	string(date-time)
<b>created_time_string</b> <i>optional</i>	The time when the specified cloud DNS provider is created, in string format. <b>Example</b> : "03/18/2022 3:39"	string
<b>cust_name</b> <i>optional</i>		string
<b>deletedResources</b> <i>optional</i>		< <a href="#">CloudResource</a> > array
<b>description</b> <i>required</i>	Description of Cloud DNS provider. <b>Example</b> : "AWS DNS Zone"	string
<b>id</b> <i>optional</i>	ID of the cloud DNS provider. <b>Example</b> : 2	integer(int32)
<b>keystorepassword</b> <i>required</i>	Secret key of the cloud DNS provider.	string
<b>name</b> <i>required</i>	Name of the cloud DNS provider. <b>Example</b> : "AWS Cloud DNS"	string
<b>organization_id</b> <i>required</i>	Organization ID of the cloud DNS provider. <b>Example</b> : 1	integer(int32)
<b>organization_name</b> <i>required</i>	Organization name of the cloud DNS provider. <b>Example</b> : "Internal"	string
<b>region</b> <i>optional</i>		string
<b>resourceMap</b> <i>optional</i>		< string, <a href="#">CloudResource</a> > map
<b>resourcegroup</b> <i>required</i>	Resource group name of the cloud DNS provider. <b>Example</b> : "DNS_Zone"	string
<b>updated_by</b> <i>required</i>	User Id who has updated the specified cloud DNS provider. <b>Example</b> : 1	integer(int32)
<b>updated_by_login_name</b> <i>required</i>	Login name of the user who has updated the specified cloud DNS provide. <b>Example</b> : "Stephen"	string
<b>updated_by_name</b> <i>required</i>	User Name who has updated the specified cloud DNS provide. <b>Example</b> : "Stephen"	string
<b>updated_time</b> <i>required</i>	The time when the specified cloud DNS provider is updated. <b>Example</b> : "1.47911E+12"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	The time when the specified cloud DNS provider is updated, in string format. <b>Example</b> : "03/28/2022 5:30"	string

Name	Description	Schema
<b>uri</b> <i>optional</i>		string
<b>useIAMRole</b> <i>optional</i>		boolean
<b>user</b> <i>required</i>	User name of the cloud DNS provider.	string
<b>vpcResourceBlocks</b> <i>optional</i>		< <a href="#">NetworkBlock</a> > array

### 5.101. DNS Cloud Provider Template

This class contains cloud DNS provider association information with DNS zone template. The information includes the cloud DNS provider name and associated DNS zone template name.

Name	Description	Schema
<b>cloud_dns_provider_type_name</b> <i>optional</i>		string

### 5.102. DNS Cloud Provider Type

This class contains cloud DNS service provider information. The information includes the cloud DNS service provider name and description.

Name	Description	Schema
<b>created_by</b> <i>optional</i>	User Id who has created the specified cloud DNS provider type. <b>Example</b> : 1	integer(int32)
<b>created_by_name</b> <i>optional</i>	User name who has created the specified cloud DNS provider type. <b>Example</b> : "Stephen"	string
<b>created_time</b> <i>optional</i>	The time when the specified cloud DNS provider type is created.	string(date-time)
<b>created_time_string</b> <i>optional</i>	The time when the specified cloud DNS provider is created, in string format. <b>Example</b> : "04/25/2022 5:30"	string
<b>description</b> <i>required</i>	Description of the cloud DNS provider. <b>Example</b> : "Amazon Web Service"	string
<b>id</b> <i>optional</i>	ID of the cloud DNS provider. <b>Example</b> : 1	integer(int32)
<b>name</b> <i>required</i>	Name of the cloud DNS provider. <b>Example</b> : "AWS"	string
<b>updated_by</b> <i>optional</i>	The time when the specified cloud DNS provider type is updated. <b>Example</b> : 1	integer(int32)
<b>updated_by_name</b> <i>optional</i>	User name who has updated the specified cloud DNS provider type. <b>Example</b> : "Stephen"	string
<b>updated_time</b> <i>optional</i>	The time when the specified cloud DNS provider type is updated.	string(date-time)
<b>updated_time_string</b> <i>optional</i>	The time when the specified cloud DNS provider is updated, in string format. <b>Example</b> : "03/28/2022 4:20"	string

### 5.103. DNS External Root Hints

This class represents a DNS External Root Hints and contains the attributes necessary for DNS External Root Hints management functionality in the TCPWave IPAM. The information includes the Name server FQDN, Name server IPv4 address and other information.

Name	Description	Schema
<b>appliance_template_id</b> <i>optional</i>	Appliance template id of the specified DNS External Root Hints. <b>Example</b> : 84	integer(int32)
<b>appliance_template_name</b> <i>required</i>	Appliance template name of the specified DNS External Root Hints. <b>Example</b> : "84"	string
<b>created_by</b> <i>required</i>	Id of the User who has created the specified DNS External Root Hints. <b>Example</b> : 2017	integer(int32)
<b>created_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified DNS External Root Hints. <b>Example</b> : "Stephen"	string
<b>created_by_name</b> <i>optional</i>	User Name who has created this DNS External Root Hints. <b>Example</b> : "Stephen"	string

Name	Description	Schema
<b>created_time</b> <i>optional</i>	The time instance when the specified DNS External Root Hints has been created. <b>Example</b> : "01/18/20122 3:39"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified DNS External Root Hints has been created. <b>Example</b> : "01/18/20122 3:39"	string
<b>id</b> <i>optional</i>	ID of the specified DNS External Root Hints. <b>Example</b> : 84	integer(int32)
<b>ns_fqdn</b> <i>required</i>	Name server FQDN of the specified DNS External Root Hint. <b>Example</b> : "ns1.tcpwave.com."	string
<b>ns_ipv4Address</b> <i>required</i>	Name server IPv4 address of the specified DNS External Root Hint. <b>Example</b> : "10.1.10.10"	string
<b>old_ns_fqdn</b> <i>required</i>	Old name of the specified DNS External Root Hint. <b>Example</b> : "ns1.tcpwave.com."	string
<b>old_ns_ipv4Address</b> <i>required</i>	Old IPv4 address of the specified DNS External Root Hint. <b>Example</b> : "10.1.10.10"	string
<b>organization_id</b> <i>optional</i>	Organization ID of a DNS External Root Hints. <b>Example</b> : 1	integer(int32)
<b>organization_name</b> <i>required</i>	Organization Name of DNS External Root Hints. <b>Example</b> : "TCPWave"	string
<b>ttl</b> <i>required</i>	TTL (Time To Live) of the specified DNS External Root Hint. <b>Example</b> : 3600	integer(int32)
<b>updated_by</b> <i>required</i>	Id of the User who has modified the specified DNS External Root Hints. <b>Example</b> : 2019	integer(int32)
<b>updated_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified DNS External Root Hints. <b>Example</b> : "John"	string
<b>updated_by_name</b> <i>optional</i>	User Name who has modified the specified DNS External Root Hints. <b>Example</b> : "John"	string
<b>updated_time</b> <i>optional</i>	The time instance when the specified DNS External Root Hints has been modified. <b>Example</b> : "01/18/20122 4:37"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified this DNS External Root Hints has been updated. <b>Example</b> : "01/18/20122 4:37"	string

#### 5.104. DNS Interfaces

This class represents a DNS interface configuration necessary for DNS management functionality in the TCPWave IPAM. The information includes the Interface Name, Listen-on Interfaces, Organization Name and other DNS Interface related information.

Name	Description	Schema
<b>created_by</b> <i>optional</i>	Database ID of the user who created this entity	integer(int32)
<b>created_by_name</b> <i>required</i>	Login name of the user who created this entity	string
<b>created_time</b> <i>required</i>	Date and Time of creation of the entity	string(date-time)
<b>id</b> <i>optional</i>	ID of the DNS Interface associated with specified DNS Appliance <b>Example</b> : 15	integer(int32)
<b>interfaceIP</b> <i>optional</i>	IP Address of the DNS Interface associated with specified DNS Appliance <b>Example</b> : "192.168.0.103"	string
<b>interfaceName</b> <i>optional</i>	Name of the DNS Interface associated with specified DNS Appliance <b>Example</b> : "xyz-interface"	string
<b>listenOnInterfacesIPs</b> <i>optional</i>	IP Addresses of the Listen On DNS Interfaces associated with specified DNS Appliance <b>Example</b> : "192.168.0.111, 192.168.0.103"	string
<b>listenOnInterfacesNames</b> <i>optional</i>	Names of the Listen On DNS Interfaces associated with specified DNS Appliance <b>Example</b> : "xyz-interface, abc-inteface"	string
<b>notifySource</b> <i>optional</i>	IP Address of the DNS Interface associated as Notify Source <b>Example</b> : "192.168.0.105"	string
<b>organiation_id</b> <i>required</i>	Id of the Organization which is associated with the specified server. <b>Example</b> : 990	integer(int32)

Name	Description	Schema
<b>organizationName</b> <i>required</i>	Name of the Organization which is associated to the specified server. <b>Example</b> : "EARTH"	string
<b>querySource</b> <i>optional</i>	IP Address of the DNS Interface associated as Query Source <b>Example</b> : "192.168.0.105"	string
<b>serverIP</b> <i>required</i>	IP Address of the specified DNS Appliance <b>Example</b> : "192.168.0.105"	string
<b>serverId</b> <i>required</i>	Id of the specified DNS Appliance. <b>Example</b> : 17	integer(int32)
<b>serverName</b> <i>required</i>	Name of the specified DNS Appliance <b>Example</b> : "xyz-est015-s109113"	string
<b>transferSource</b> <i>optional</i>	IP Address of the DNS Interface associated as Transfer Source <b>Example</b> : "192.168.0.105"	string
<b>updated_by</b> <i>optional</i>	Database ID of the user who updated this entity	integer(int32)
<b>updated_by_name</b> <i>required</i>	Login name of the user who updated this entity	string
<b>updated_time</b> <i>optional</i>	Date and Time of updating the entity	string(date-time)

### 5.105. DNS TSIG (Transaction Signatures) Keys

This class represents a TSIG (Transaction Signatures) keys and contains the attributes necessary for TSIG key management functionality in the TCPWave IPAM. The information includes the name, algorithm, secret key and other TSIG key related information.

Name	Description	Schema
<b>algoId</b> <i>optional</i>	ID of the specified TSIG algorithm. <b>Example</b> : 1	integer(int32)
<b>algoName</b> <i>required</i>	Name of the specified TSIG algorithm. <b>Example</b> : "HMAC-SHA512"	string
<b>autoGenSecretKey</b> <i>optional</i>	Auto generate the TSIG key for given name and algorithm. <b>Example</b> : "0 or 1"	integer(int32)
<b>created_by</b> <i>optional</i>	Id of the User who has created the specified TSIG key. <b>Example</b> : 12	integer(int32)
<b>created_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified TSIG key. <b>Example</b> : "Stephen"	string
<b>created_by_name</b> <i>optional</i>	User Name who has created the specified TSIG key. <b>Example</b> : "Stephen"	string
<b>created_time</b> <i>optional</i>	The time instance when the specified TSIG key has been created. <b>Example</b> : "02/18/2022 4:37"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified TSIG key has been created. <b>Example</b> : "02/18/2022 3:39"	string
<b>description</b> <i>optional</i>	Description of the specified TSIG key. <b>Example</b> : "TSIG key for the key1."	string
<b>id</b> <i>optional</i>	ID of the specified TSIG key. <b>Example</b> : 1	integer(int32)
<b>name</b> <i>required</i>	Name of the specified TSIG key. <b>Example</b> : "key1"	string
<b>newName</b> <i>required</i>	Modified Name of the specified TSIG key. <b>Example</b> : "key2"	string
<b>secretKey</b> <i>required</i>	Secret key of the TSIG key. <b>Example</b> : "wTrdaq6SHatfVkfYQ7sQ33dD/xVDURiF6eSBmBufGrmc9arTy6RfMatCpI481hLaebqgq4mrzUKMF55B1gv/Q=="	string
<b>updated_by</b> <i>optional</i>	Id of the User who has modified the specified TSIG key. <b>Example</b> : 12	integer(int32)
<b>updated_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Updated by for the specified TSIG key. <b>Example</b> : "John"	string
<b>updated_by_name</b> <i>optional</i>	User Name who has modified the specified TSIG key. <b>Example</b> : "John"	string
<b>updated_time</b> <i>optional</i>	The time instance when the specified TSIG key has been modified . <b>Example</b> : "02/18/2022 4:37"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified TSIG key has been modified. <b>Example</b> : "02/18/2022 3:39"	string

## 5.106. DNS View

This class represents a DNS View and contains the attributes necessary for DNS View management functionality in the TCPWave IPAM. The information includes the View Name, Match Clients, Match Destinations and other DNS View related information.

Name	Description	Schema
<b>allowRecursion</b> <i>optional</i>		< <a href="#">Access Control List(ACL)</a> > array
<b>allowRecursionValue</b> <i>optional</i>	Allow Recursion of a view. Allow Recursion takes array list of Access Control List(ACL). <b>Example</b> : "[ACL1, ACL2, ACL3]"	string
<b>createdBy</b> <i>optional</i>	Id of a user who created the view. <b>Example</b> : 1	integer(int32)
<b>createdByName</b> <i>optional</i>	Name of the user who created the view. <b>Example</b> : "User1"	string
<b>createdTime</b> <i>optional</i>	View creation time. <b>Example</b> : "01/22/2022"	string(date-time)
<b>createdTimeString</b> <i>optional</i>	Created time of a view in String format. <b>Example</b> : "01/22/2022 6:57"	string
<b>created_by_login_name</b> <i>optional</i>		string
<b>enableRecursion</b> <i>optional</i>	Enable Recursion of a view. Enable Recursion accepts yes/no values. <b>Example</b> : "no"	string
<b>forward</b> <i>optional</i>		string
<b>forwarders</b> <i>optional</i>		string
<b>geoType</b> <i>optional</i>		string
<b>id</b> <i>optional</i>	ID of a view. <b>Example</b> : 1	integer(int32)
<b>matchClients</b> <i>required</i>	Match clients of a view. Match clients takes array list of Access Control List(ACL).	< <a href="#">Access Control List(ACL)</a> > array
<b>matchClientsValue</b> <i>optional</i>	View match clients value as a string. <b>Example</b> : "localhost;10.0.0.0/16"	string
<b>matchDestinations</b> <i>required</i>	Match destinations of a view. Match destinations takes array list of Access Control List(ACL).	< <a href="#">Access Control List(ACL)</a> > array
<b>matchDestinationsValue</b> <i>optional</i>	View match destinations value as a string. <b>Example</b> : "localhost;10.0.0.0/16"	string
<b>matchGeoClients</b> <i>optional</i>		string
<b>matchGeoDestinations</b> <i>optional</i>		string
<b>matchRecursiveOnly</b> <i>optional</i>	Match Recursive Only of a view. Match Recursive Only accepts yes/no values. <b>Example</b> : "no"	string
<b>name</b> <i>required</i>	Name of a view <b>Example</b> : "internal"	string
<b>newName</b> <i>required</i>	New name of a view. <b>Example</b> : "external"	string
<b>organizationId</b> <i>required</i>	Organization id of a view. <b>Example</b> : 1	integer(int32)
<b>organizationName</b> <i>required</i>	Organization name of a view. <b>Example</b> : "TCPWave"	string
<b>sequence</b> <i>optional</i>	Sequence number of a view when it is assigned to remote servers. <b>Example</b> : 1	integer(int32)
<b>updatedBy</b> <i>optional</i>	Id of a user who last updated the view. <b>Example</b> : 1	integer(int32)
<b>updatedByName</b> <i>optional</i>	Name of the user who last updated the view. <b>Example</b> : "1"	string
<b>updatedTime</b> <i>optional</i>	Last updated time of a view. <b>Example</b> : "10/2/2016"	string(date-time)
<b>updatedTimeString</b> <i>optional</i>	Updated time of a zone in String format. <b>Example</b> : "01/22/2022 6:57"	string
<b>updated_by_login_name</b> <i>optional</i>		string

## 5.107. DNS/DHCP Appliance information

Fetches the DNS/DHCP Appliances information defined in the TCPWave IPAM

Name	Description	Schema
<b>authAsCache</b> <i>optional</i>	Authoritative as Cache appliance. <b>Example</b> : "1"	string
<b>enableTunnelDetection</b> <i>optional</i>	Specifies whether the given appliance has DNS tunnel detection enable or not. <b>Example</b> : "no"	string
<b>ip</b> <i>required</i>	Get server IP Address <b>Example</b> : "10.1.1.3"	string
<b>name</b> <i>required</i>	Get server name <b>Example</b> : "nusax"	string
<b>scode</b> <i>required</i>	Get server type <b>Example</b> : "BIND-AUTH"	string

## 5.108. DNS64

Name	Description	Schema
<b>breakDnssec</b> <i>required</i>	Break DNSSEC for the DNS64 template <b>Example</b> : "yes"	string
<b>clientsValue</b> <i>required</i>	Comma separated string of clients <b>Example</b> : "192.168.0.1,192.168.0.45"	string
<b>createdBy</b> <i>optional</i>	ID of the user who created this DNS64 template <b>Example</b> : 45	integer(int32)
<b>createdByName</b> <i>optional</i>	Name of the user who created this DNS64 template <b>Example</b> : "user"	string
<b>createdTime</b> <i>optional</i>	Created time of the DNS64 template <b>Example</b> : "03/05/2022 4:39"	string(date-time)
<b>createdTimeString</b> <i>optional</i>	String format of the time instance when the specified DNS64 template has been created. <b>Example</b> : "03/05/2022 4:39"	string
<b>created_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified Domain. <b>Example</b> : "Stephen"	string
<b>description</b> <i>optional</i>	Description for the DNS64 template <b>Example</b> : "DNS64 is a mechanism for synthesizing AAAA resource records (RRs) from A RRs."	string
<b>excludeValue</b> <i>required</i>	Comma separated string of exclude <b>Example</b> : "192.168.0.19,192.168.0.65"	string
<b>id</b> <i>optional</i>	ID of the DNS64 template <b>Example</b> : 34	integer(int32)
<b>mappedValue</b> <i>required</i>	Comma separated string of mapped <b>Example</b> : "192.168.0.10,192.168.0.55"	string
<b>mask</b> <i>required</i>	Mask length of prefix <b>Example</b> : 64	integer(int32)
<b>name</b> <i>required</i>	Name of the DNS64 template <b>Example</b> : "cloud"	string
<b>newName</b> <i>optional</i>	New name of the DNS64 template <b>Example</b> : "provider"	string
<b>organizationId</b> <i>required</i>	Organization ID of the DNS64 template <b>Example</b> : "yes"	integer(int32)
<b>organizationName</b> <i>required</i>	Organization name of the DNS64 template <b>Example</b> : "Organization"	string
<b>prefix</b> <i>required</i>	Prefix value of IPv6 address <b>Example</b> : "5000:0002::"	string
<b>recursiveOnly</b> <i>required</i>	Recursion only for the DNS64 template <b>Example</b> : "yes"	string
<b>suffix</b> <i>required</i>	Suffix of the DNS64 template <b>Example</b> : "::5000"	string
<b>updatedBy</b> <i>optional</i>	ID of the user who modified this DNS64 template <b>Example</b> : 45	integer(int32)
<b>updatedByName</b> <i>optional</i>	Name of the user who modified this DNS64 template <b>Example</b> : "user"	string
<b>updatedTime</b> <i>optional</i>	Modified time of the DNS64 template <b>Example</b> : "03/05/2022 4:39"	string(date-time)

Name	Description	Schema
<b>updatedTimeString</b> <i>optional</i>	String format of the time instance when the specified DNS64 template has been modified. <b>Example</b> : "03/05/2022 4:39"	string
<b>updated_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Updated By for the specified Domain. <b>Example</b> : "John"	string

### 5.109. DNSAnalyticsRules

Name	Description	Schema
<b>fqdnLengthThreshold</b> <i>optional</i>		integer(int32)
<b>intPercentThreshold</b> <i>optional</i>		integer(int32)
<b>queryCountPerDomainThreshold</b> <i>optional</i>		integer(int32)
<b>queryCountPerHostThreshold</b> <i>optional</i>		integer(int32)
<b>subdomainLengthThreshold</b> <i>optional</i>		integer(int32)

### 5.110. DNSApplianceDefaults

Name	Description
<b>created_by</b> <i>required</i>	IPAM appliance template created by user Id <b>Example</b> : 1219
<b>created_by_name</b> <i>optional</i>	IPAM appliance template created by user name <b>Example</b> : "twcuser"
<b>created_time</b> <i>optional</i>	IPAM appliance template created time stamp <b>Example</b> : "1222221231"
<b>elevatedPrivilegesConfig</b> <i>optional</i>	Elevated Privileges Configuration Details <b>Example</b> : "{\environmentVariables\": [{\value\": \"Defaults always_query_group_plugin\"}], \userAliases\": [{\user_alias_name\": \"USER_ALIAS_1\", \user_alias_value\": \"testuser\"}], \hostAliases\": [{\host_alias_name\": \"HOST_ALIAS_1\", \host_alias_value\": \"192.168.0.139\"}], \runasAliases\": [{\runas_alias_name\": \"RUNAS_ALIAS_1\", \runas_alias_value\": \"user2\"}], \commandAliases\": [{\command_alias_name\": \"COMMAND_ALIAS_1\", \command_alias_value\": \"/cp\"}], \userSpecifications\": [{\user_alias\": \"USER_ALIAS_1\", \host_alias\": \"HOST_ALIAS_1\", \runas_alias\": \"RUNAS_ALIAS_1\", \runas_group_al
<b>elevatedPrivilegesJson</b> <i>optional</i>	Elevated Privileges Configuration JSON String <b>Example</b> : "{\environmentVariables\": [{\value\": \"Defaults always_query_group_plugin\"}], \userAliases\": [{\user_alias_name\": \"USER_ALIAS_1\", \user_alias_value\": \"testuser\"}], \hostAliases\": [{\host_alias_name\": \"HOST_ALIAS_1\", \host_alias_value\": \"192.168.0.139\"}], \runasAliases\": [{\runas_alias_name\": \"RUNAS_ALIAS_1\", \runas_alias_value\": \"user2\"}], \commandAliases\": [{\command_alias_name\": \"COMMAND_ALIAS_1\", \command_alias_value\": \"/cp\"}], \userSpecifications\": [{\user_alias\": \"USER_ALIAS_1\", \host_alias\": \"HOST_ALIAS_1\", \runas_alias\": \"RUNAS_ALIAS_1\", \runas_group_al
<b>ldapSSHConfig</b> <i>optional</i>	JSON string of the LDAP SSH configuration - for Internal use only
<b>syslogConfig</b> <i>optional</i>	JSON string of the Syslog-ng configuration - for Internal use only
<b>syslogNgConfig</b> <i>optional</i>	Syslog-NG Configuration Details
<b>tacacsConfig</b> <i>optional</i>	JSON string of the TACACS configuration - for Internal use only
<b>tacacsConfigDecrypted</b> <i>optional</i>	JSON decrypted string of the TACACS configuration - for Internal use only
<b>updated_by</b> <i>optional</i>	IPAM appliance template updated by user Id <b>Example</b> : 1219
<b>updated_by_name</b> <i>optional</i>	IPAM appliance template updated by user name <b>Example</b> : "twcuser"
<b>updated_time</b> <i>optional</i>	IPAM appliance template updated time stamp <b>Example</b> : "1222221231"

### 5.111. DNSForwarders

Name	Description	Schema
<b>forward</b> <i>optional</i>	Forward is only relevant in conjunction with a valid forwarders statement. If set to 'only' the Appliance will only forward queries, if set to 'first' (default) it will send the queries to the forwarder and if not answered will attempt to answer the query. <b>Example</b> : "only/first"	string

Name	Description	Schema
<b>forwardersIPv4</b> <i>optional</i>	List IPv4 Address(es) to which queries will be forwarded for the specified Appliance Forwarder. It's only relevant when used with the related forward statement. <b>Example</b> : "192.1.100.10"	string
<b>forwardersIPv6</b> <i>optional</i>	List IPv6 Address(es) to which queries will be forwarded for the specified Appliance Forwarder. It's only relevant when used with the related forward statement. <b>Example</b> : "2001:503:ba3e::2:30"	string
<b>isPresent</b> <i>optional</i>	This represents if the forwarder is from the IPAM database or not. <b>Example</b> : false	boolean
<b>zoneName</b> <i>optional</i>	Name of the zone associated with the specified DNS Appliance template. <b>Example</b> : "edu.com"	string

### 5.112. DNSForwardersList

Name	Description	Schema
<b>addedForwarders</b> <i>optional</i>	List of the Added Forwarders.	< <a href="#">DNSForwarders</a> > array
<b>deletedForwarders</b> <i>optional</i>	List of the deleted Forwarders.	< <a href="#">DNSForwarders</a> > array
<b>description</b> <i>optional</i>	Description for the DNS Forwarder Category. <b>Example</b> : "Microsoft Forwarders"	string
<b>forwarders</b> <i>optional</i>	List of the DNS Forwarder Categories.	< <a href="#">DNSForwarders</a> > array
<b>name</b> <i>optional</i>	Name of the DNS Forwarder Category. <b>Example</b> : "Microsoft"	string

### 5.113. DNSTotalTrafficChart

This class represents the information to display DNS traffic charts on dashboard.

Name	Description	Schema
<b>a</b> <i>required</i>	A record query count <b>Example</b> : 100	integer(int32)
<b>aaaa</b> <i>required</i>	AAAA record query count <b>Example</b> : 100	integer(int32)
<b>cname</b> <i>required</i>	CNAME record query count <b>Example</b> : 100	integer(int32)
<b>mx</b> <i>required</i>	MX record query count <b>Example</b> : 100	integer(int32)
<b>ns</b> <i>required</i>	NS record query count <b>Example</b> : 100	integer(int32)
<b>ptr</b> <i>required</i>	PTR record query count <b>Example</b> : 100	integer(int32)
<b>server_name</b> <i>required</i>	Appliance Name <b>Example</b> : "Test-Appliance"	string
<b>soa</b> <i>required</i>	SOA record query count <b>Example</b> : 100	integer(int32)
<b>srv</b> <i>required</i>	SRV record query count <b>Example</b> : 100	integer(int32)
<b>start_time</b> <i>required</i>	Start time to get queries count <b>Example</b> : "2022-20-01 00:01:00"	string

### 5.114. Dashboard

Name	Description	Schema
<b>configList</b> <i>optional</i>		string
<b>getwList</b> <i>optional</i>		string
<b>isDefault</b> <i>required</i>	Is dashboard default ? <b>Example</b> : false	boolean
<b>name</b> <i>required</i>	Dashboard Name <b>Example</b> : "Dashboard1"	string
<b>oldName</b> <i>optional</i>		string



Name	Description	Schema
<b>positions</b> <i>optional</i>		string
<b>widgetList</b> <i>optional</i>	List of selected widgets in the dashboard	< <a href="#">DashboardWidget</a> > array

### 5.115. DashboardWidget

Name	Description	Schema
<b>config</b> <i>required</i>	Widget Config <b>Example:</b> <code>"{\r\n\r\n\"USER SESSION\": {\"url\": \" /rest/user/session\", \"chartType\": \"BAR\"},\r\n\r\n\"DNS Statistics\":\r\n\r\n{\r\n\"url\": \" /rest/dns/statistics\", \"chartType\": \"DONUT\"}\r\n\r\n\"}</code>	string
<b>dashenum</b> <i>optional</i>		enum (user_sessions, zone_distribution, total_objects, object_types, object_allocation, health_index_score, dns_allocation_trend, dhcp_ip_allocation_trend, ipam_counter, active_sessions, clocks, world_clock, noncompliant_dhcp_policies, noncompliant_dns_policies, non_compliant_ipam_policies, alerts_widget, top_alert_producers, ipam_cpu_utilization, ipam_database_connections, ipam_database_network_traffic, ipam_database_row_operations, ipam_database_summary, ipam_database_table_locks, ipam_database_thread, ipam_disk_utilization, ipam_memory_utilization, ipam_ntp_statistics, ipam_runtime_heap_usage, ipv4_network_space_utilization, ipv4_subnet_space_utilization, ipv6_network_space_utilization, ipv6_subnet_space_utilization, dhcp_cpu_utilization, dhcp_cumulative_chart, dhcp_query_statistics, dhcp_response_statistics, dhcp_disk_utilization, dhcp_heartbeat_statistics, dhcp_icmp_statistics, dhcp_memory_utilization, dhcp_ntp_statistics, dhcp_swap_memory, dhcp_top10_least_used_scopes, dhcp_top10_most_used_scopes, dns_cache_hit_ratio_metrics, dns_cpu_utilization, dns_disk_utilization, dns_authoritative_cumulative_chart, dns_cache_cumulative_chart, dns_proxy_cumulative_chart, dns_query_statistics, dns_response_statistics, dns_heartbeat_statistics, dns_icmp_statistics, dns_memory_utilization, dns_ntp_statistics, dns_swap_memory, dns_top_talker, dns_large_queries, dns_large_responses, dns_nxdomain_query_responses, dns_traffic_anomaly, dns_unique_subdomain_count, top10_anomalous_queries, anomaly_alerts, intrusion_alerts, ips_action_type_distribution, ips_protocol_type_distribution, titan_threat_intel_score, anomalous_query_distribution, suspicious_query_ml_log, suspicious_query_signature_log, active_directory_updates, alarms_and_statistics, ddns_updates, dhcp_configuration, dhcp_leases, dns_configuration, ha_configuration, ha_delegation, health_check, remote_commands,

Name	Description	Schema
		cumulative_utilization, top_10_cpu_consumers, top_10_memory_consumers, top_10_disk_consumers, top_10_disk_query_per_second, top_10_disk_leases_per_second, dns_top_talkers, my_device, total_discovered_routers, distribution_by_device_type, distribution_by_vendor_type, top10_switch_port_utilization, discovery_events, device_count_for_os, top_least_busiest_poller, discovered_devices_details, discovered_devices_uptime, top_10_gps_and_aps_data, outliers_grid, discovery_integration, ATIS_Counter, DGA_Pie_Chart, Intrusion_Alerts_, anomalous_query_distribution_, top10_Zones)
<b>name</b> <i>required</i>	Widget Name <b>Example</b> : "DNS Statistics"	string

### 5.116. Data Types

This class encapsulates various data types defined in the system for DHCP Options

Type : object

### 5.117. Delete Cloud Network Request

DeleteCloudNetworkRequest class encapsulates the attributes that are required to delete a private cloud network, such as VPC ID, Cloud Provider Name and Organization Name.

Name	Description	Schema
<b>cloudProviderName</b> <i>required</i>	Name of the Cloud Provider <b>Example</b> : "AWS-Provider"	string
<b>orgName</b> <i>required</i>	Name of the Organization <b>Example</b> : "Internal"	string
<b>vpcId</b> <i>required</i>	ID of the VPC <b>Example</b> : "ERTFDFD54SDS6SDS"	string

### 5.118. Delete Cloud Subnet Request

DeleteSubnetRequest class encapsulates the attributes that are required to delete a private cloud subnet, such as Subnet Address List, Organization Name etc.

Name	Description	Schema
<b>addressList</b> <i>required</i>	Array of subnet addresses	< string > array
<b>deletedBy</b> <i>optional</i>	Database ID of the User who requested the delete operation <b>Example</b> : 201	integer(int32)
<b>isDeleteErrorsChecked</b> <i>optional</i>	This field checks if referenced resource records are allowed to be deleted along with the object delete. <b>Example</b> : 0	integer(int32)
<b>organizationName</b> <i>required</i>	Name of the Organization <b>Example</b> : "Internal"	string

### 5.119. Delete Scope Request

This is a request object to delete a given scope on a given server for a specified subnet.

Name	Description	Schema
<b>addressRange</b> <i>required</i>	Address range of scope to be deleted <b>Example</b> : "10.0.0.7-10.0.0.20"	string
<b>organization_name</b> <i>required</i>	Organization name <b>Example</b> : "Internal"	string
<b>primary_dhcp_server</b> <i>required</i>	Subnet DHCP appliance address <b>Example</b> : "10.0.0.5"	string
<b>subnetAddress</b> <i>required</i>	Subnet address of the scope <b>Example</b> : "10.0.0.0"	string

### 5.120. Device Details

This class represents device details which include IP Address, Description, Up time, Contact, Name, Location etc.

Name	Description	Schema

Name	Description	Schema
<b>accepted</b> <i>optional</i>		boolean
<b>cmdId</b> <i>required</i>	Command ID <b>Example</b> : 23	integer(int32)
<b>commandId</b> <i>optional</i>		string
<b>configDifference</b> <i>optional</i>		string
<b>configFilePath</b> <i>optional</i>	Configuration File Path <b>Example</b> : "/opt/tcpwave/timsdiscovery/configs/TDCE_20211026102220/10.1.1.20_show_version.raw"	string
<b>description</b> <i>optional</i>	Description <b>Example</b> : "5"	string
<b>deviceName</b> <i>optional</i>		string
<b>deviceType</b> <i>optional</i>		string
<b>discoveredBy</b> <i>required</i>	The user who submitted the discovery command. <b>Example</b> : "sadm"	string
<b>discoveredElements</b> <i>required</i>	Discovered Element	integer(int32)
<b>discoveryAgentCommandId</b> <i>optional</i>		string
<b>endTime</b> <i>required</i>	End Time	string
<b>ifNumber</b> <i>required</i>	Interface number <b>Example</b> : "001"	string
<b>ipAddress</b> <i>required</i>	IP address <b>Example</b> : "10.2.2.3"	string
<b>mac</b> <i>required</i>	Mac address	string
<b>organization</b> <i>optional</i>		string
<b>password</b> <i>optional</i>		string
<b>platform</b> <i>optional</i>	Platform	string
<b>snmpCommunityString</b> <i>optional</i>		string
<b>snmpVersion</b> <i>optional</i>		string
<b>startTime</b> <i>required</i>	Start Time	string
<b>subnetIP</b> <i>required</i>	Subnet IP	string
<b>sysContact</b> <i>required</i>	Contact <b>Example</b> : "John"	string
<b>sysDesc</b> <i>required</i>	Description	string
<b>sysLocation</b> <i>required</i>	Location <b>Example</b> : "TCPWave"	string
<b>sysName</b> <i>required</i>	Name <b>Example</b> : "Switch"	string
<b>sysUpTime</b> <i>required</i>	Switch uptime <b>Example</b> : "2hrs"	string
<b>user_name</b> <i>optional</i>		string
<b>v3ApprovedPassword</b> <i>optional</i>		string
<b>v3Password</b> <i>optional</i>		string
<b>v3UserName</b> <i>optional</i>		string

Name	Description	Schema
<b>vendor</b> <i>optional</i>	Vendor Example : "5"	string

### 5.121. Device Details Map

This class represents device details.

Name	Description	Schema
<b>deviceName</b> <i>optional</i>		string
<b>deviceType</b> <i>optional</i>		string
<b>ipAddress</b> <i>optional</i>		string
<b>vendor</b> <i>optional</i>		string

### 5.122. DiscoDashboard

Name	Description	Schema
<b>category</b> <i>optional</i>		string
<b>commandid</b> <i>optional</i>		string
<b>date</b> <i>optional</i>		string
<b>description</b> <i>optional</i>		string
<b>deviceIP</b> <i>optional</i>		string
<b>deviceType</b> <i>optional</i>		string
<b>device_count</b> <i>optional</i>		integer(int32)
<b>device_name</b> <i>optional</i>		string
<b>lastdays</b> <i>optional</i>		string
<b>organization</b> <i>optional</i>		string
<b>percentage</b> <i>optional</i>		string
<b>platform</b> <i>optional</i>		string
<b>pollerip</b> <i>optional</i>		string
<b>pollertype</b> <i>optional</i>		string
<b>status</b> <i>optional</i>		string
<b>switchIP</b> <i>optional</i>		string
<b>switchPortName</b> <i>optional</i>		string
<b>total</b> <i>optional</i>		string
<b>totalPorts</b> <i>optional</i>		integer(int32)
<b>uptime</b> <i>optional</i>		string
<b>usedPorts</b> <i>optional</i>		integer(int32)
<b>vendorType</b> <i>optional</i>		string
<b>vendor_count</b> <i>optional</i>		integer(int32)

Name	Description	Schema
<b>version</b> <i>optional</i>		string

### 5.123. Discovered Object

This class represents the Discovered Object details which include switch id, name, mac and location.

Name	Description	Schema
<b>contact</b> <i>required</i>	Contact <b>Example</b> : "Jhon"	string
<b>description</b> <i>required</i>	Description <b>Example</b> : "Discovered object"	string
<b>id</b> <i>required</i>	ID <b>Example</b> : 101	integer(int32)
<b>location</b> <i>required</i>	Location <b>Example</b> : "TCPWave"	string
<b>mac</b> <i>required</i>	Mac address <b>Example</b> : "00-14-22-01-23-45"	string
<b>name</b> <i>required</i>	Name <b>Example</b> : "Test"	string

### 5.124. Discovery Agent VMWare

This class represents Discovery Agent VMWare.

Name	Description	Schema
<b>commandId</b> <i>optional</i>	Command Id <b>Example</b> : "TDCE_20220422123"	string
<b>if_number</b> <i>optional</i>	Interface number <b>Example</b> : "101a01"	string
<b>ip</b> <i>required</i>	IP Address of a VMWare server <b>Example</b> : "10.0.0.0"	string
<b>mac</b> <i>optional</i>	System MAC <b>Example</b> : "00:00:5e:00:53:af"	string
<b>platform</b> <i>optional</i>	Platform <b>Example</b> : "ESX"	string
<b>serial_number</b> <i>optional</i>	System serial number <b>Example</b> : "1A012B"	string
<b>sys_contact</b> <i>optional</i>	System Contact <b>Example</b> : "John"	string
<b>sys_desc</b> <i>optional</i>	System Description <b>Example</b> : "VMWare device."	string
<b>sys_location</b> <i>optional</i>	System Location <b>Example</b> : "USA"	string
<b>sys_name</b> <i>optional</i>	System Name <b>Example</b> : "VMWareDevice"	string
<b>sys_services</b> <i>optional</i>	System service <b>Example</b> : "service"	string
<b>sys_uptime</b> <i>optional</i>	System up time <b>Example</b> : "2022-04-22 10:29:24"	string
<b>vendor</b> <i>optional</i>	Vendor <b>Example</b> : "VMWare"	string

### 5.125. Discovery Appliance

This class represents a discovery appliance that has discovery agent running on it and can do discovery of a network/subnet.

Name	Description	Schema
<b>addedExclusions</b> <i>optional</i>		< <a href="#">Discovery Exclusions</a> > array
<b>addedRouters</b> <i>optional</i>		< <a href="#">DiscoveryRouters</a> > array
<b>applianceIP</b> <i>required</i>	IP address of the discovery appliance. <b>Example</b> : "10.1.10.2"	string
<b>applianceId</b> <i>optional</i>	Id of the specified discovery appliance. <b>Example</b> : 1	integer(int32)

Name	Description	Schema
<b>applianceName</b> <i>optional</i>	Name of the specified discovery appliance. <b>Example</b> : "RemoteAppliance"	string
<b>autoCreateVrfOrg</b> <i>optional</i>		string
<b>autoSync</b> <i>optional</i>		string
<b>banner</b> <i>optional</i>		string
<b>connectedIPAM</b> <i>optional</i>		string
<b>connectedIPAMIP</b> <i>optional</i>		string
<b>createdBy</b> <i>optional</i>	UserId of user who created the specific discovery appliance. <b>Example</b> : 1234	integer(int32)
<b>createdByUser</b> <i>optional</i>	Name of user who created the specific discovery appliance. <b>Example</b> : "admin"	string
<b>createdTime</b> <i>optional</i>	Discovery appliance creation time. <b>Example</b> : "03/18/2022 4:37"	string(date-time)
<b>defaultNetworkMask</b> <i>optional</i>		integer(int32)
<b>deletedExclusions</b> <i>optional</i>		< <a href="#">Discovery Exclusions</a> > array
<b>deletedRouters</b> <i>optional</i>		< <a href="#">DiscoveryRouters</a> > array
<b>description</b> <i>optional</i>	Description of the discovery appliance. <b>Example</b> : "This is discovery appliance."	string
<b>discovery</b> <i>optional</i>		string
<b>discovery_init</b> <i>optional</i>		string
<b>domainName</b> <i>optional</i>		string
<b>enableSNMPv3</b> <i>optional</i>		boolean
<b>extraData</b> <i>optional</i>		string
<b>haIPAMList</b> <i>optional</i>		< string > array
<b>heapSize</b> <i>optional</i>		string
<b>hostName</b> <i>optional</i>		string
<b>id</b> <i>optional</i>	Id of the specified discovery appliance. <b>Example</b> : 1	integer(int32)
<b>isAlive</b> <i>optional</i>		boolean
<b>monitServices</b> <i>optional</i>		string
<b>neighborDiscovery</b> <i>optional</i>		string
<b>objectDiscovery</b> <i>optional</i>		string
<b>oldApplianceIP</b> <i>optional</i>	IP address of the discovery appliance before the update. <b>Example</b> : "10.1.10.2"	string
<b>oldOrganizationName</b> <i>optional</i>	Name of an organization to which the specified discovery appliance is associated with before the update. <b>Example</b> : "Internal"	string
<b>oldTemplateName</b> <i>required</i>	Name of the specified discovery template before the update. <b>Example</b> : "DiscoveryTemplate"	string
<b>organizationId</b> <i>optional</i>	Id of an organization to which the specified discovery appliance is associated with. <b>Example</b> : 1	integer(int32)

Name	Description	Schema
<b>organizationName</b> <i>required</i>	Name of an organization to which the specified discovery appliance is associated with. <b>Example</b> : "Internal"	string
<b>resolverObj</b> <i>optional</i>		string
<b>resolvers</b> <i>optional</i>		string
<b>scheduleConfig</b> <i>optional</i>		string
<b>snmpConfig</b> <i>optional</i>		string
<b>snmpCredentialsCommunityString</b> <i>optional</i>		string
<b>snmpCredentialsVersion</b> <i>optional</i>		string
<b>snmpCredentialsv3Users</b> <i>optional</i>		string
<b>snmpv3Users</b> <i>optional</i>		string
<b>templateId</b> <i>optional</i>	Id of the specified discovery template. <b>Example</b> : 1	integer(int32)
<b>templateName</b> <i>required</i>	Name of the specified discovery template. <b>Example</b> : "DiscoveryTemplate"	string
<b>threadPoolSize</b> <i>optional</i>		integer(int32)
<b>timeZone</b> <i>optional</i>		string
<b>updatedBy</b> <i>optional</i>	UserId of user who updated the specific discovery appliance. <b>Example</b> : 1234	integer(int32)
<b>updatedByUser</b> <i>optional</i>	Name of user who updated the specific discovery appliance. <b>Example</b> : "admin"	string
<b>updatedTime</b> <i>optional</i>	Discovery appliance updated time. <b>Example</b> : "03/18/2022 4:37"	string(date-time)
<b>vrfDiscovery</b> <i>optional</i>		string

### 5.126. Discovery Command Data

This class encapsulates discovery request details to perform discovery.

Name	Description	Schema
<b>community_strings</b> <i>required</i>	List of community strings	< string > array
<b>discoPrefs</b> <i>optional</i>	Discovery preferences <b>Example</b> : "Ping,SNMP,Reverse DNS,Switch"	string
<b>orgName</b> <i>optional</i>	Organization name <b>Example</b> : "Internal"	string
<b>retries</b> <i>optional</i>	SNMP retries count <b>Example</b> : 3	integer(int32)
<b>reverseDNSTimeout</b> <i>optional</i>	Reverse DNS timeout in milliseconds <b>Example</b> : 2000	integer(int64)
<b>seed_routers</b> <i>optional</i>	Seed routers	< string > array
<b>snmpCredentialsv3Users</b> <i>required</i>	List of SNMPv3 users	string
<b>subnets</b> <i>optional</i>	List of subnets	< string > array
<b>switchIPs</b> <i>optional</i>	List of switch IPs	< string > array
<b>timeout</b> <i>optional</i>	SNMP timeout in milliseconds <b>Example</b> : 2000	integer(int64)
<b>type</b> <i>optional</i>	Discovery type. It can be Network or Subnet. <b>Example</b> : "N"	string

Name	Description	Schema
<b>userId</b> <i>optional</i>	User Id <b>Example</b> : 1234	integer(int32)
<b>vmWareAuthSourceList</b> <i>optional</i>	VMWare authentication source	< <a href="#">VMWareAuthenticationSource</a> > array

### 5.127. Discovery Exclusions

This class represents a discovery exclusions that has discovery agent running on it and can do discovery of a network/subnet.

Name	Description	Schema
<b>id</b> <i>optional</i>		integer(int32)
<b>ip</b> <i>optional</i>		string
<b>name</b> <i>optional</i>		string
<b>type</b> <i>optional</i>		string

### 5.128. Discovery Request

This class encapsulates the network discovery requests and the type of the discovery requests.

Name	Description	Schema
<b>reqs</b> <i>required</i>	List of the network discovery requests to allow multiple requests at a time.	< <a href="#">Network Discovery Request</a> > array
<b>type</b> <i>required</i>	Discovery type <b>Example</b> : "N"	string

### 5.129. Discovery Template

This class represents a discovery template that can be used during creation or modification of a network and subnet.

Name	Description	Schema
<b>addNonConflictingObjects</b> <i>required</i>	Non-conflicting objects will be added on accepting discovery results. <b>Example</b> : true	boolean
<b>conflictingObjPreference</b> <i>required</i>	Preferences to perform operations for conflicting objects. <b>Example</b> : "Flag For Manual Reconciliation"	string
<b>createdBy</b> <i>optional</i>	UserId of user who created the specific discovery template. <b>Example</b> : 1234	integer(int32)
<b>createdByUser</b> <i>optional</i>	Name of user who created the specific discovery template. <b>Example</b> : "admin"	string
<b>createdTime</b> <i>optional</i>	Discovery template creation time. <b>Example</b> : "03/08/2022 4:37"	string(date-time)
<b>description</b> <i>optional</i>	Description of discovery template.	string
<b>discoveryPreferences</b> <i>optional</i>	Comma separated list of the different discovery methods. <b>Example</b> : "SNMP, NMAP"	string
<b>discoveryRemoteApplianceAddress</b> <i>required</i>	IP address of the Discovery Remote Appliance. <b>Example</b> : "192.0.0.32"	string
<b>discoveryRemoteApplianceId</b> <i>optional</i>	Id of the Discovery Remote Appliance. <b>Example</b> : 1	integer(int32)
<b>discoveryRemoteApplianceName</b> <i>required</i>	Name of the Discovery Remote Appliance. <b>Example</b> : "DHCPAppliance1"	string
<b>id</b> <i>optional</i>	Id of the specified discovery template. <b>Example</b> : 1	integer(int32)
<b>maxSNMPReqRetries</b> <i>required</i>	Maximum number of retries of a transaction allowed after it hits deadlock. <b>Example</b> : 2	integer(int32)
<b>name</b> <i>required</i>	Name of the specified discovery template. <b>Example</b> : "test_template1"	string
<b>oldName</b> <i>optional</i>	Old name of the specified discovery template. <b>Example</b> : "test_template2"	string
<b>organizationId</b> <i>optional</i>	Id of an organization to which the specified discovery template is associated with. <b>Example</b> : 1	integer(int32)



Name	Description	Schema
<b>organizationName</b> <i>required</i>	Name of an organization to which the specified discovery template is associated with. <b>Example</b> : "Internal"	string
<b>reclaim_grace_duration</b> <i>optional</i>	Reclaim grace duration time. <b>Example</b> : 2	integer(int32)
<b>revDNSLookupTimeout</b> <i>required</i>	Maximum time(in milliseconds) to wait to retry transaction after it hits deadlock. Accepts a value between 1,000 and 10,000. <b>Example</b> : 2000	integer(int32)
<b>snmpResTimeout</b> <i>required</i>	Response timeout (in milliseconds). Accepts a value between 1 and 10,000. <b>Example</b> : 2000	integer(int32)
<b>updatedBy</b> <i>optional</i>	UserId of user who updated the specific discovery template. <b>Example</b> : 1234	integer(int32)
<b>updatedByUser</b> <i>optional</i>	Name of user who updated the specific discovery template. <b>Example</b> : "admin"	string
<b>updatedTime</b> <i>optional</i>	Discovery template updated time. <b>Example</b> : "03/08/2022 4:37"	string(date-time)

### 5.130. DiscoveryAgentCommand

Name	Description	Schema
<b>accepted</b> <i>optional</i>		boolean
<b>applianceIp</b> <i>optional</i>		string
<b>applianceName</b> <i>optional</i>		string
<b>cidr</b> <i>optional</i>		integer(int32)
<b>commandId</b> <i>optional</i>		string
<b>description</b> <i>optional</i>		string
<b>discoveredDevicesCount</b> <i>optional</i>		integer(int32)
<b>endTime</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int32)
<b>ipaddress</b> <i>optional</i>		string
<b>mask</b> <i>optional</i>		string
<b>organization</b> <i>optional</i>		string
<b>startTime</b> <i>optional</i>		string
<b>status</b> <i>optional</i>		integer(int32)
<b>statusName</b> <i>optional</i>		string
<b>type</b> <i>optional</i>		integer(int32)
<b>userid</b> <i>optional</i>		integer(int32)

### 5.131. DiscoveryElementDTO

Name	Description	Schema
<b>discoveryApplianceIp</b> <i>optional</i>		string
<b>domain</b> <i>optional</i>		string
<b>elementType</b> <i>optional</i>		string

Name	Description	Schema
<b>ipAddress</b> <i>optional</i>		string
<b>organization</b> <i>optional</i>		string
<b>vlan</b> <i>optional</i>		string
<b>vrf</b> <i>optional</i>		string

### 5.132. DiscoveryEvents

Name	Description	Schema
<b>applianceIp</b> <i>optional</i>		string
<b>category</b> <i>optional</i>		integer(int32)
<b>commandId</b> <i>optional</i>		string
<b>deviceIp</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int32)
<b>message</b> <i>optional</i>		string
<b>organization</b> <i>optional</i>		string
<b>status</b> <i>optional</i>		integer(int32)

### 5.133. DiscoveryMap

Name	Description	Schema
<b>connected_router</b> <i>optional</i>		string
<b>cr_address</b> <i>optional</i>		string
<b>cr_type</b> <i>optional</i>		string
<b>deviceAddress</b> <i>optional</i>		string
<b>r_type</b> <i>optional</i>		string
<b>router</b> <i>optional</i>		string

### 5.134. DiscoveryRouters

Name	Description	Schema
<b>description</b> <i>optional</i>		string
<b>deviceAlgorithms</b> <i>optional</i>		string
<b>deviceType</b> <i>optional</i>		string
<b>firewallContexts</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int32)
<b>ipPrefixes</b> <i>optional</i>		string
<b>loginType</b> <i>optional</i>		string
<b>neighbors</b> <i>optional</i>	Neighbors <b>Example</b> : "10.0.0.0,192.168.56.0"	string
<b>password</b> <i>optional</i>		string

Name	Description	Schema
<b>platform</b> <i>optional</i>		string
<b>port</b> <i>optional</i>		integer(int32)
<b>retry</b> <i>optional</i>		integer(int32)
<b>router_address</b> <i>optional</i>		string
<b>router_name</b> <i>optional</i>		string
<b>routingProtocols</b> <i>optional</i>		string
<b>snmpCommunityString</b> <i>optional</i>		string
<b>snmpPort</b> <i>optional</i>		integer(int32)
<b>snmpVersion</b> <i>optional</i>		string
<b>sshTimeout</b> <i>optional</i>		integer(int32)
<b>switchDeviceIP</b> <i>optional</i>		string
<b>switchPort</b> <i>optional</i>		string
<b>timeout</b> <i>optional</i>		integer(int32)
<b>user_name</b> <i>optional</i>		string
<b>v3ApprovedPassword</b> <i>optional</i>		string
<b>v3Password</b> <i>optional</i>		string
<b>v3SnmpAuthProtocol</b> <i>optional</i>		string
<b>v3SnmpEncryptProtocol</b> <i>optional</i>		string
<b>v3UserName</b> <i>optional</i>		string
<b>vendor</b> <i>optional</i>		string

### 5.135. DnstapLogs

Name	Description	Schema
<b>date</b> <i>optional</i>	Date of the log <b>Example</b> : "2022-05-03"	string
<b>query</b> <i>optional</i>	Query that caused the log <b>Example</b> : "tcpwave.com IN SOA"	string
<b>status</b> <i>optional</i>	Status of the log <b>Example</b> : "NO ERROR"	string
<b>time</b> <i>optional</i>	Time of the log <b>Example</b> : "10:14:54"	string

### 5.136. Domain

This class represents a Domain and contains the attributes necessary for Domain management functionality in the TCPWave IPAM. The information includes the Domain Name, Domain Id, Zone Id, Organization Name and other Domain related information.

Name	Description	Schema
<b>contact_email</b> <i>optional</i>	Email Id of the contact person of the specified Domain. <b>Example</b> : " <a href="mailto:Stephen.martin@gmail.com">Stephen.martin@gmail.com</a> "	string
<b>contact_phone</b> <i>optional</i>	Phone Number of the contact person of the specified Domain. <b>Example</b> : "1 (877) 609-2236"	string
<b>created_by</b> <i>required</i>	Id of the User who has created the specified Domain. <b>Example</b> : 2017	integer(int32)

Name	Description	Schema
<b>created_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified Domain. <b>Example</b> : "Stephen"	string
<b>created_by_name</b> <i>optional</i>	Name of the User who has created the specified Domain. <b>Example</b> : "Stephen"	string
<b>created_time</b> <i>required</i>	The time instance when the specified Domain has been created. <b>Example</b> : "03/18/2022 3:39"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified Domain has been created. <b>Example</b> : "03/18/2022 3:39"	string
<b>description</b> <i>optional</i>	Description for the specified Domain. <b>Example</b> : "Domain for edu.com"	string
<b>enableLoadBalance</b> <i>optional</i>		boolean
<b>id</b> <i>optional</i>	Id of the specified Domain. <b>Example</b> : 45	integer(int32)
<b>is_managed</b> <i>required</i>	Specifies whether the specified Domain has Zone defined in it or not. <b>Example</b> : "Yes"	string
<b>name</b> <i>required</i>	Name of the specified Domain. <b>Example</b> : "edu.com"	string
<b>object_address</b> <i>optional</i>	Address of the associated Domain Controller object for the AD Enabled Zone. <b>Example</b> : "10.0.0.20"	string
<b>old_name</b> <i>required</i>	Name of the specified Domain before modification. <b>Example</b> : "accitrade.com"	string
<b>organization_id</b> <i>required</i>	Id of the Organization which is associated to the specified Domain <b>Example</b> : 990	integer(int32)
<b>organization_name</b> <i>required</i>	Name of the Organization which is associated to the specified Domain. <b>Example</b> : "EARTH"	string
<b>restrictedDomain</b> <i>required</i>	Determines if the specified Domain is a Restricted Domain. <b>Example</b> : "yes"	string
<b>updateSubDomain</b> <i>optional</i>	Update the sub domain name when parent domain name is changed. <b>Example</b> : true	boolean
<b>updated_by</b> <i>optional</i>	Id of the User who has modified the specified Domain. <b>Example</b> : 2019	integer(int32)
<b>updated_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified Domain. <b>Example</b> : "John"	string
<b>updated_by_name</b> <i>optional</i>	Name of the User who has modified the specified Domain. <b>Example</b> : "John"	string
<b>updated_time</b> <i>optional</i>	The time instance when the specified Domain has been modified. <b>Example</b> : "03/18/2022 4:37"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified Domain has been modified. <b>Example</b> : "03/18/2022 4:37"	string
<b>zone_id</b> <i>optional</i>	Zone Id for the specified Domain. <b>Example</b> : 34	integer(int32)

### 5.137. DomainController

This class represents a Domain Controller and contains the attributes necessary for Domain Controller management functionality in the TCPWave IPAM. The information includes the Domain Controller Name, Domain Controller Id, Zone Id, Organization Name and other Domain Controller related information.

Name	Description	Schema
<b>address</b> <i>optional</i>	Address of the associated Domain Controller object for the AD Enabled Zone. <b>Example</b> : "10.0.0.20"	string
<b>dc_newpassword</b> <i>optional</i>	New password of the associated Domain Controller object for the AD Enabled Zone. <b>Example</b> : "10.0.0.20"	string
<b>dc_oldpassword</b> <i>optional</i>	Old password of the associated Domain Controller object for the AD Enabled Zone. <b>Example</b> : "10.0.0.20"	string
<b>dc_password</b> <i>optional</i>	Password of the associated Domain Controller object for the AD Enabled Zone. <b>Example</b> : "10.0.0.20"	string

Name	Description	Schema
<b>dc_usehttps</b> <i>optional</i>	Specifies the use of https in the associated Domain Controller. <b>Example</b> : false	boolean
<b>dc_username</b> <i>optional</i>	User Name of the associated Domain Controller object for the AD Enabled Zone. <b>Example</b> : "10.0.0.20"	string
<b>id</b> <i>optional</i>	Id of the specified Domain Controller. <b>Example</b> : 45	integer(int32)
<b>name</b> <i>required</i>	Name of the specified Domain Controller. <b>Example</b> : "edu.com"	string
<b>organization_id</b> <i>required</i>	Id of the Organization which is associated to the specified Domain Controller. <b>Example</b> : 990	integer(int32)
<b>organization_name</b> <i>required</i>	Name of the Organization which is associated to the specified Domain Controller. <b>Example</b> : "EARTH"	string
<b>zone_id</b> <i>optional</i>	Zone Id for the specified Domain Controller. <b>Example</b> : 34	integer(int32)

### 5.138. DomainNode

Type : object

### 5.139. Dropdown Details

This class holds the information of a row in a dropdown.

Name	Description	Schema
<b>description</b> <i>optional</i>	Description of the row <b>Example</b> : "Description"	string
<b>id</b> <i>optional</i>	Database row ID <b>Example</b> : 71	integer(int32)
<b>name</b> <i>optional</i>	Name of the row <b>Example</b> : "Internal"	string

### 5.140. Dump DB Response

This is a response of a Dump DB operation. The bean contains the directory where the dump is located.

Name	Description	Schema
<b>dumpDir</b> <i>required</i>	Directory/Location of dump database	string

### 5.141. Export Response Information

Holds the End result of an export process such as: Time taken to export, exported file path, number of errors etc.

Name	Description	Schema
<b>elapsed_time</b> <i>optional</i>	Time taken for the import	integer(int64)
<b>error_message</b> <i>optional</i>	Error message in case of error	string
<b>fileName</b> <i>required</i>	Exported File Name	string
<b>is_success</b> <i>required</i>	Is the export successfully completed? <b>Example</b> : true	boolean
<b>total_rows</b> <i>required</i>	Total number of rows exported	integer(int32)

### 5.142. External DNS Master

This class represents an External DNS Master and contains the attributes necessary for DNS Masters management functionality in the TCPWave IPAM. The information includes the DNS Master IP, Name and other DNS Master related information.

Name	Description	Schema
<b>created_by</b> <i>optional</i>	Id of a user who created the external DNS master. <b>Example</b> : 1	integer(int32)
<b>created_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified server. <b>Example</b> : "Stephen"	string
<b>created_by_name</b> <i>optional</i>	Name of the user who created the external DNS master. <b>Example</b> : "User1"	string

Name	Description	Schema
<b>created_time</b> <i>optional</i>	External DNS master creation time. <b>Example</b> : "03/01/2022"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified server is created. <b>Example</b> : "05:21:35 02-01-2022"	string
<b>description</b> <i>optional</i>	Description of a external DNS master. <b>Example</b> : "This DNS master is created by TCPWave Inc."	string
<b>id</b> <i>optional</i>	Id of an external DNS master <b>Example</b> : 1	integer(int32)
<b>ipv6_address</b> <i>required</i>	IPv4 address of an external DNS master. <b>Example</b> : "10.1.10.10"	string
<b>isAlive</b> <i>optional</i>	Is secure communication establish or not <b>Example</b> : false	boolean
<b>lastSyncTime</b> <i>optional</i>	Last sync time of the External DNS master <b>Example</b> : "05:21:35 02-01-2022"	string(date-time)
<b>lastSyncTimeString</b> <i>optional</i>	String format of the time when the specified external DNS master is last synchronized. <b>Example</b> : "05:21:35 02-01-2022"	string
<b>masterType</b> <i>required</i>	Type of an external DNS master. <b>Example</b> : "PDNS/XDNS"	string
<b>name</b> <i>required</i>	Name of an external DNS master. <b>Example</b> : "dns1.tcpwave.com"	string
<b>newPassword</b> <i>optional</i>	New updated password <b>Example</b> : "abc1234"	string
<b>oldLiveStatus</b> <i>optional</i>	Is secure communication establish or not <b>Example</b> : false	boolean
<b>organization_id</b> <i>optional</i>	Organization ID of an external DNS master. <b>Example</b> : 1	integer(int32)
<b>organization_name</b> <i>required</i>	Organization Name of an external DNS master. <b>Example</b> : "TCPWave"	string
<b>password</b> <i>optional</i>	Password of an external DNS master to communicate. <b>Example</b> : "password1"	string
<b>secret_key</b> <i>optional</i>	Secret of an external DNS master to communicate with an internal TCPWave slave remote. <b>Example</b> : "AHDNsjhgd6702870JSNLA=-sdjjkdf&HHNs"	string
<b>tsig_algo</b> <i>optional</i>	TSIG algorithm of an external DNS master to communicate with an internal TCPWave slave remote. <b>Example</b> : "HMAC-SHA512"	string
<b>tsig_name</b> <i>optional</i>	TSIG key name of an external DNS master to communicate with an internal TCPWave slave remote. <b>Example</b> : "key_name"	string
<b>updated_by</b> <i>optional</i>	Id of a user who updated the external DNS master last time. <b>Example</b> : 1	integer(int32)
<b>updated_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified server. <b>Example</b> : "John"	string
<b>updated_by_name</b> <i>optional</i>	Name of the user who updated the external DNS master last time. <b>Example</b> : "User1"	string
<b>updated_time</b> <i>optional</i>	Last updated time of an external DNS master. <b>Example</b> : "03/01/2022"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified server is modified. <b>Example</b> : "05:21:35 02-01-2022"	string
<b>user_name</b> <i>optional</i>	User name of an external DNS master to communicate. <b>Example</b> : "username1"	string

### 5.143. External DNS Zone

This class represents an External DNS Zone and contains the attributes necessary for Zone management functionality in the TCPWave IPAM. The information includes the Zone Name, External DNS Masters, Internal DNS Slaves and other Zone related information.

Name	Description	Schema
<b>created_by</b> <i>optional</i>	Id of a user who created the external DNS zone. <b>Example</b> : 1	integer(int32)
<b>created_by_login_name</b> <i>optional</i>	Login Name of a user who created an external DNS zone. <b>Example</b> : "admin"	string
<b>created_by_name</b> <i>optional</i>	Name of the user who created the external DNS zone. <b>Example</b> : "User1"	string

Name	Description	Schema
<b>created_time</b> <i>optional</i>	External DNS zone creation time. <b>Example</b> : "03/01/2022"	string(date-time)
<b>created_time_string</b> <i>optional</i>	Created time of an external DNS zone in String format. <b>Example</b> : "03/01/2022 6:57"	string
<b>description</b> <i>optional</i>	Description of a external DNS zone. <b>Example</b> : "This zone is created by the TCPWave Inc."	string
<b>externalDNSMasterIPs</b> <i>required</i>	An array list of external DNS or PowerDNS masters of an external DNS zone.	< string > array
<b>id</b> <i>optional</i>	Zone ID of an external DNS zone. <b>Example</b> : 1	integer(int32)
<b>internalDNSSlaveIPs</b> <i>optional</i>	An array list of internal DNS slaves of an external DNS zone.	< string > array
<b>masterType</b> <i>required</i>	Type of an external DNS zone. <b>Example</b> : "PDNS/XDNS"	string
<b>orgId</b> <i>optional</i>	Organization ID of an external DNS zone. <b>Example</b> : 1	integer(int32)
<b>orgName</b> <i>required</i>	Organization Name of an external DNS zone. <b>Example</b> : "TCPWave"	string
<b>rrs</b> <i>optional</i>	An array list of resource records present in an external DNS zone.	< <a href="#">Resource Record</a> > array
<b>secretKey</b> <i>optional</i>	Secret of an external DNS master to communicate with an internal TCPWave slave remote. <b>Example</b> : "AHDnsjhdg6702870JSNLA=-sdjjkdf&HHNs"	string
<b>serial_number</b> <i>required</i>	Serial Number of a zone. <b>Example</b> : 2016102800	integer(int32)
<b>tsigAlgo</b> <i>optional</i>	TSIG algorithm of an external DNS master to communicate with an internal TCPWave slave remote. <b>Example</b> : "HMAC-SHA512"	string
<b>tsig_name</b> <i>optional</i>	TSIG key name of an external DNS zone to communicate with an internal TCPWave slave remote. <b>Example</b> : "key_name"	string
<b>updated_by</b> <i>optional</i>	Id of a user who updated the external DNS zone last time. <b>Example</b> : 1	integer(int32)
<b>updated_by_login_name</b> <i>optional</i>	Login Name of a user who updated an external DNS zone. <b>Example</b> : "admin"	string
<b>updated_by_name</b> <i>optional</i>	Name of the user who updated the external DNS zone last time. <b>Example</b> : "User1"	string
<b>updated_time</b> <i>optional</i>	Last updated time of an external DNS zone. <b>Example</b> : "03/01/2022"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	Updated time of an external DNS zone in String format. <b>Example</b> : "03/01/2022 6:57"	string
<b>zoneName</b> <i>required</i>	Name of an external DNS zone. <b>Example</b> : "tcpwave.com"	string

#### 5.144. Failed Row Information

Holds the information of a failed row and the reason of failure

Name	Description	Schema
<b>row_data</b> <i>required</i>	Row that has failed to be imported	string
<b>row_error_message</b> <i>required</i>	Error message in case of error	string

#### 5.145. File Set

Detailed information about File Distribution Management.

Name	Description	Schema
<b>created_by</b> <i>required</i>	Name of the user who created file set <b>Example</b> : "Smith"	string
<b>created_time</b> <i>required</i>	Created time <b>Example</b> : "3/18/2022 4:37"	string
<b>description</b> <i>required</i>	Description for file set	string
<b>filesetData</b> <i>required</i>	File set data	< <a href="#">File Set File</a> > array

Name	Description	Schema
<b>filesetappliances</b> <i>required</i>	List of the DHCP appliances	< <a href="#">ApplianceInfo</a> > array
<b>name</b> <i>required</i>	File set name <b>Example</b> : "Test"	string
<b>old_name</b> <i>optional</i>		string
<b>organization_name</b> <i>required</i>	Name of the organization <b>Example</b> : "Internal"	string
<b>protocol</b> <i>required</i>	Name of the protocol <b>Example</b> : "TFTP"	string
<b>server</b> <i>required</i>	List of servers	< <a href="#">Server Information</a> > array
<b>updated_by</b> <i>required</i>	Name of the user who updated file set <b>Example</b> : "Smith"	string
<b>updated_time</b> <i>required</i>	Updated time <b>Example</b> : "3/18/2022 4:37"	string

### 5.146. File Set File

Detailed information about File set File.

Name	Description	Schema
<b>change_ticket</b> <i>optional</i>	change ticket value of the file. <b>Example</b> : "Abc123Qwr"	string
<b>children</b> <i>optional</i>	List of File Set Files.	< <a href="#">File Set File</a> > array
<b>content</b> <i>optional</i>	Content of the specified file. <b>Example</b> : "files are added under file set files"	string
<b>created_by</b> <i>optional</i>	Name of the User who has created the specified File. <b>Example</b> : "raina"	string
<b>created_time</b> <i>optional</i>	The time instance when the specified file has been created. <b>Example</b> : "03/18/2022 3:39"	string
<b>description</b> <i>optional</i>	Description for the specified file. <b>Example</b> : "files added"	string
<b>file_set_id</b> <i>optional</i>	Id of the specific File Set File. <b>Example</b> : 12	integer(int32)
<b>id</b> <i>optional</i>	Id of the specified file. <b>Example</b> : 101	integer(int32)
<b>isFolder</b> <i>optional</i>	This represents if selected row is a file or a folder . <b>Example</b> : false	boolean
<b>name</b> <i>optional</i>	Name of the specified file. <b>Example</b> : "Trent"	string
<b>old_name</b> <i>optional</i>	Old name of file. <b>Example</b> : "raina"	string
<b>parent_id</b> <i>optional</i>	Id of the parent file. <b>Example</b> : 12	integer(int32)
<b>parent_name</b> <i>optional</i>	Parent file name of the specific file. <b>Example</b> : "topone"	string
<b>path</b> <i>optional</i>	Path of the specified file. <b>Example</b> : "/etc/var/lib/tmp"	string
<b>updated_by</b> <i>optional</i>	Name of the User who has Updated the specified File. <b>Example</b> : "raina"	string
<b>updated_time</b> <i>optional</i>	Name of the User who has modified the specified file. <b>Example</b> : "03/18/2022 4:37"	string

### 5.147. Fingerprint data information

This class represents fingerprint information of the DHCP client.

Name	Description	Schema
<b>certaintyIndex</b> <i>optional</i>	DCI (Digital Certainty Index) score of DHCP client <b>Example</b> : "11"	string
<b>device</b> <i>optional</i>	Device information of the DHCP client <b>Example</b> : "Microsoft Windows Kernel 6.0"	string
<b>optionSequence</b> <i>optional</i>	DHCP standard option sequence <b>Example</b> : "1,2,3,9,11,"	string



Name	Description	Schema
<b>osName</b> <i>optional</i>	Operating system information of the DHCP client <b>Example</b> : "10.1"	string
<b>userAgent</b> <i>optional</i>	System details to appliance hosting the web page <b>Example</b> : "1.1"	string
<b>vendor</b> <i>optional</i>	Vendor information of the DHCP client <b>Example</b> : "3COM CORPORATION"	string

### 5.148. Firewall

This class represents a discovery firewall

Name	Description	Schema
<b>base_bridge_address</b> <i>optional</i>	Base bridge address.	string
<b>commandId</b> <i>optional</i>		string
<b>id</b> <i>optional</i>	Id of the specified router. <b>Example</b> : 1	integer(int64)
<b>if_number</b> <i>optional</i>	if_number.	string
<b>ip</b> <i>optional</i>	IP address of the specified router. <b>Example</b> : "1.0.0.1"	string
<b>mac</b> <i>optional</i>	MAC.	string
<b>neighborIp</b> <i>optional</i>		string
<b>platform</b> <i>optional</i>	Platform	string
<b>serial_number</b> <i>optional</i>	Serial number.	string
<b>sys_contact</b> <i>optional</i>	System contact.	string
<b>sys_desc</b> <i>optional</i>	System Description.	string
<b>sys_location</b> <i>optional</i>	System location.	string
<b>sys_name</b> <i>optional</i>	System name.	string
<b>sys_services</b> <i>optional</i>	System services.	string
<b>sys_uptime</b> <i>optional</i>	System uptime.	string
<b>vendor</b> <i>optional</i>	Vendor	string
<b>version</b> <i>optional</i>	Version <b>Example</b> : "5"	string

### 5.149. Firewall Element Details

This class represents the IP Address, Mac Address, and Firewall IP details of a device connected to a Switch.

Name	Description	Schema
<b>aton_address</b> <i>optional</i>		integer(int64)
<b>commandId</b> <i>optional</i>		string
<b>description</b> <i>required</i>	Description	string
<b>elementIp</b> <i>optional</i>		string
<b>firewallIP</b> <i>required</i>	Firewall IP	string
<b>firewallIp</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int64)

Name	Description	Schema
<b>interfaceName</b> <i>optional</i>		string
<b>last_seen</b> <i>optional</i>		string
<b>mac</b> <i>optional</i>		string
<b>macAddress</b> <i>required</i>	Mac address	string
<b>name</b> <i>required</i>	Element Name	string
<b>vrf</b> <i>optional</i>		string

### 5.150. Firewall Interface

This class represents a discovery firewall neighbor

Name	Description	Schema
<b>commandId</b> <i>optional</i>		string
<b>description</b> <i>optional</i>		string
<b>firewallIp</b> <i>optional</i>	IP address of the specified firewall interface. <b>Example</b> : "1"	string
<b>id</b> <i>optional</i>	Id of the specified router interface.	integer(int64)
<b>interfaceIp</b> <i>optional</i>	Interface IP. <b>Example</b> : "1"	string
<b>interfaceName</b> <i>optional</i>	Interface name. <b>Example</b> : "1"	string
<b>ipVersion</b> <i>optional</i>		integer(int32)
<b>protocol</b> <i>optional</i>	Protocol. <b>Example</b> : false	boolean
<b>status</b> <i>optional</i>	Status. <b>Example</b> : false	boolean

### 5.151. Firewall NAT Pool Details

This class represents the Rule, NAT type, NAT Rule Set, Host Addresses, Destination Addresses, Mask and VRF details of a device connected to a Firewall.

Name	Description	Schema
<b>commandId</b> <i>required</i>	Command Id <b>Example</b> : "TDCE_20220331012"	string
<b>destinationAddress</b> <i>required</i>	Destination Addresses <b>Example</b> : "10.1.10.26"	string
<b>firewallIp</b> <i>required</i>	Firewall IP Address <b>Example</b> : "10.1.10.28"	string
<b>hostAddress</b> <i>required</i>	Host Addresses <b>Example</b> : "10.1.10.25"	string
<b>mask</b> <i>required</i>	Mask <b>Example</b> : 32	integer(int32)
<b>natPool</b> <i>required</i>	NAT Pool <b>Example</b> : "DIP-5"	string
<b>natRule</b> <i>required</i>	NAT Rule <b>Example</b> : "STATIC_01"	string
<b>natRuleSet</b> <i>required</i>	NAT Rule Set <b>Example</b> : "MIP_NAT_02"	string
<b>natType</b> <i>required</i>	NAT Type <b>Example</b> : "static"	string
<b>total_addresses</b> <i>optional</i>		integer(int64)
<b>vrf</b> <i>required</i>	VRF Name <b>Example</b> : "TCPWaveVRF"	string

### 5.152. Firewall Neighbor

This class represents a discovery firewall neighbor

Name	Description	Schema
<b>capabilities</b> <i>optional</i>	Router neighbor capabilities.	string
<b>chassis_id</b> <i>optional</i>	Chassis Id of the specified router neighbor.	string
<b>commandId</b> <i>optional</i>		string
<b>id</b> <i>optional</i>	Id of the specified router neighbor. <b>Example</b> : 1	integer(int64)
<b>ipVersion</b> <i>optional</i>		integer(int32)
<b>local_interface</b> <i>optional</i>	Local Interface of the specified router neighbor.	string
<b>management_ip</b> <i>optional</i>	Management IP of the specified router neighbor.	string
<b>neighbor</b> <i>optional</i>	Router Neighbor.	string
<b>neighbor_interface</b> <i>optional</i>	Interface of the specified router neighbor.	string
<b>neighbor_port_id</b> <i>optional</i>	Port Id of the specified router neighbor.	string
<b>protocol</b> <i>optional</i>		string
<b>routerIp</b> <i>optional</i>		string
<b>serial</b> <i>optional</i>	Serial.	string
<b>system_description</b> <i>optional</i>	System description.	string

### 5.153. Firewall Subnet

This class represents a firewall subnet

Name	Description	Schema
<b>appliance_ip</b> <i>optional</i>		string
<b>commandId</b> <i>optional</i>		string
<b>description</b> <i>optional</i>		string
<b>domain_name</b> <i>required</i>	Domain of the router. <b>Example</b> : "tcpwave.com"	string
<b>firewallIP</b> <i>required</i>	IP address of the router. <b>Example</b> : "10.1.10.2"	string
<b>id</b> <i>optional</i>	Id of the specified router subnet. <b>Example</b> : 1	integer(int64)
<b>interfacelp</b> <i>optional</i>		string
<b>interfaceName</b> <i>required</i>	Name of the interface. <b>Example</b> : "loopback0"	string
<b>ipVersion</b> <i>optional</i>		integer(int32)
<b>isAccepted</b> <i>optional</i>		integer(int32)
<b>local</b> <i>required</i>	Is local. <b>Example</b> : <code>false</code>	boolean
<b>nextHop</b> <i>required</i>	Next hop.	string
<b>objectIP</b> <i>optional</i>		string
<b>organization_name</b> <i>required</i>	Organization of the router. <b>Example</b> : "Internal"	string
<b>protocol</b> <i>required</i>	Protocol.	string

Name	Description	Schema
<b>subnetIP</b> <i>required</i>	IP address of the subnet. <b>Example</b> : "10.1.10.0"	string
<b>subnetMask</b> <i>required</i>	Subnet mask. <b>Example</b> : "255.255.255.0"	string
<b>subnetMaskLength</b> <i>required</i>	Mask length of subnet. <b>Example</b> : 24	integer(int32)
<b>type</b> <i>required</i>	type.	string
<b>vlan</b> <i>optional</i>		string
<b>vrfEnabled</b> <i>optional</i>		boolean
<b>vrfName</b> <i>optional</i>		string

#### 5.154. Firewall Template

This is a bean class which provides Firewall template to a DNS Appliance. A firewall template contains firewall rule, name, description etc. i»¿

Type : object

#### 5.155. Firewall Template Association

This is a bean class that encapsulates the association between a DNS Appliance and a Firewall template in the TCPWave IPAM.

Name	Description	Schema
<b>snmpAcl</b> <i>optional</i>		string

#### 5.156. FirewallSubnetElement

Name	Description	Schema
<b>aton_address</b> <i>optional</i>		integer(int64)
<b>commandId</b> <i>optional</i>		string
<b>contact</b> <i>optional</i>		string
<b>description</b> <i>optional</i>		string
<b>device</b> <i>optional</i>		string
<b>domainName</b> <i>optional</i>		string
<b>firewallIp</b> <i>optional</i>		string
<b>ip_address</b> <i>optional</i>		string
<b>last_seen</b> <i>optional</i>		string
<b>latency</b> <i>optional</i>		string
<b>location</b> <i>optional</i>		string
<b>mac</b> <i>optional</i>		string
<b>maskLength</b> <i>optional</i>		integer(int32)
<b>name</b> <i>optional</i>		string
<b>organizationName</b> <i>optional</i>		string
<b>os</b> <i>optional</i>		string
<b>port_duplex</b> <i>optional</i>		string

Name	Description	Schema
<b>ports</b> <i>optional</i>		string
<b>status</b> <i>optional</i>		string
<b>subnetip</b> <i>optional</i>		string
<b>switch_name</b> <i>optional</i>		string
<b>switch_port</b> <i>optional</i>		string
<b>vendor</b> <i>optional</i>		string

### 5.157. ForwardZonesCount

Name	Description	Schema
<b>count</b> <i>optional</i>		integer(int32)
<b>name</b> <i>optional</i>		string

### 5.158. ForwardersCategory

Name	Description	Schema
<b>created_by</b> <i>optional</i>	Name of the user who has created the specified forwarder category. <b>Example</b> : "raina"	string
<b>cretaed_time</b> <i>optional</i>	The time instance when the specified Forwarder has been created. <b>Example</b> : "03/18/2022 3:39"	string
<b>description</b> <i>optional</i>	Description for the forwarder category. <b>Example</b> : "Google Forwarders"	string
<b>id</b> <i>optional</i>	Id of the specified forwarder category. <b>Example</b> : 121	integer(int32)
<b>name</b> <i>optional</i>	Name of the DNS forwarder category. <b>Example</b> : "Google"	string
<b>updated_by</b> <i>optional</i>	Name of the user who has Updated the specified forwarder category. <b>Example</b> : "raina"	string
<b>updated_time</b> <i>optional</i>	Time when user modified the specified forwarder category. <b>Example</b> : "03/18/2022 4:37"	string

### 5.159. Function

Name	Description	Schema
<b>description</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int32)
<b>isGranular</b> <i>optional</i>		string
<b>name</b> <i>optional</i>		string

### 5.160. Functions

Name	Description	Schema
<b>description</b> <i>optional</i>		string
<b>granular_support</b> <i>optional</i>		boolean
<b>id</b> <i>optional</i>		integer(int32)
<b>name</b> <i>optional</i>		string

### 5.161. GSLBBasicConfig

Name	Description	Schema
<b>delegationSubType</b> <i>required</i>	Delegation sub type of the specified ADC appliance. <b>Example</b> : "internal"	string

Name	Description	Schema
<b>delegationType</b> <i>required</i>	Delegation type of the specified ADC appliance. <b>Example</b> : "root"	string
<b>enableGslbService</b> <i>required</i>	Enable GSLB service on the specified ADC appliance. <b>Example</b> : true	boolean

### 5.162. GSLBRRRRule

Name	Description	Schema
<b>aclAssociation</b> <i>optional</i>	Comma separated list of ACL associated with Advanced Rule element	string
<b>aclElementList</b> <i>optional</i>	Advanced rule element list of the specified Advanced Rule Set.	< <a href="#">GSLBRRRRule</a> > array
<b>aclRules</b> <i>required</i>	ACL list of the specified Rule element.	< <a href="#">SLBAclRule</a> > array
<b>aclRulesString</b> <i>optional</i>	Comma separated list of ACL associated with Advanced Rule element	string
<b>created_by</b> <i>optional</i>	Id of the User who has created the specified SLB Advanced Rule Set. <b>Example</b> : 2017	integer(int32)
<b>created_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified Advanced Rule Set. <b>Example</b> : "Stephen"	string
<b>created_time</b> <i>optional</i>	String format of the time when the specified SLB Advanced Rule Set has been created. <b>Example</b> : "03/01/2022 3:39"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified SLB Advanced Rule Set is created. <b>Example</b> : "03/18/2022 3:39"	string
<b>customParameter</b> <i>optional</i>	Custom parameter value of the specified Advanced Rule Set.	string
<b>description</b> <i>optional</i>	Description of the specified SLB Advanced Rule Set. <b>Example</b> : "Access Control List for the cardsprod."	string
<b>fetchName</b> <i>optional</i>	Fetch name of the specified Rule element.	string
<b>id</b> <i>optional</i>	ID of the specified SLB Advanced Rule Set. <b>Example</b> : 101	integer(int32)
<b>isAndOperator</b> <i>optional</i>	Operator of the specified Advanced Rule Element. <b>Example</b> : "no"	string
<b>isExclude</b> <i>optional</i>	Operator of the specified Advanced Rule Element. <b>Example</b> : "1"	string
<b>is_case_sensitive</b> <i>optional</i>	Case sensitive of the specified SLB Advanced Rule element. <b>Example</b> : "1"	string
<b>mode</b> <i>optional</i>		string
<b>name</b> <i>required</i>	Name of the specified SLB Advanced Rule Set. <b>Example</b> : "Ruleset"	string
<b>oldRule</b> <i>optional</i>	Name of the specified Rule element before modification.	string
<b>old_name</b> <i>optional</i>	Name of the specified SLB Advanced Rule Set before modification. <b>Example</b> : "SLBRuleset"	string
<b>operator</b> <i>optional</i>		string
<b>optionType</b> <i>required</i>	Option type of the specified Rule element. <b>Example</b> : "deny"	string
<b>organization_id</b> <i>required</i>	Id of the Organization which is associated with the specified SLB Advanced Rule Set. <b>Example</b> : 990	integer(int32)
<b>organization_name</b> <i>required</i>	Name of the Organization associated with the specified SLB Advanced Rule Set. <b>Example</b> : "Internal"	string
<b>rule</b> <i>required</i>	Rule name of the specified SLB Advanced Rule element. <b>Example</b> : "Test"	string
<b>rule_count</b> <i>optional</i>	Rule count of the specified Rule Set. <b>Example</b> : 10	integer(int32)
<b>type</b> <i>required</i>	Type of the specified Rule element. <b>Example</b> : "request"	string

Name	Description	Schema
<b>updated_by</b> <i>optional</i>	Id of the User who has modified the specified SLB Advanced Rule Set. <b>Example</b> : 2019	integer(int32)
<b>updated_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Updated by for the specified SLB Advanced Rule Set. <b>Example</b> : "John"	string
<b>updated_time</b> <i>optional</i>	The time instance when the specified SLB Advanced Rule Set has been modified . <b>Example</b> : "03/01/2022 4:37"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified SLB Advanced Rule Set is modified. <b>Example</b> : "03/18/2022 4:37"	string
<b>value</b> <i>required</i>	Value of the specified SLB Advanced Rule element.	string

### 5.163. GSLBTrafficControlRules

Name	Description	Schema
<b>created_by</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified GSLB Traffic Control Rule Set. <b>Example</b> : "Stephen"	integer(int32)
<b>created_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified GSLB Traffic Control Rule Set. <b>Example</b> : "Stephen"	string
<b>created_time</b> <i>optional</i>	String format of the time when the specified GSLB Traffic Control Rule Set has been created. <b>Example</b> : "03/01/2022 3:39"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified GSLB Traffic Control Rule Set is created. <b>Example</b> : "03/18/2022 3:39"	string
<b>description</b> <i>optional</i>	Description of the specified GSLB Traffic Control Rule Set. <b>Example</b> : "GSLB Traffic Control Rule Set."	string
<b>destinationType</b> <i>required</i>	Destination type of the specified GSLB Traffic Control Rule. <b>Example</b> : "frontend"	string
<b>frontEndId</b> <i>optional</i>	Id of the Frontend which is associated with the specified GSLB Traffic Control Rule. <b>Example</b> : "990"	string
<b>frontEndName</b> <i>required</i>	Frontend name of the specified GSLB Traffic Control Rule. <b>Example</b> : "TIMS_FRONTEND"	string
<b>frontEnds</b> <i>optional</i>	Frontend list for the specified GSLB Traffic Control Rule.	< <a href="#">SLBFrontEndBasicProperties</a> > array
<b>gslbTrafficControlRuleList</b> <i>optional</i>	Element list of the specified GSLB Traffic Control Rule Set.	< <a href="#">GSLBTrafficControlRules</a> > array
<b>id</b> <i>optional</i>	ID of the specified GSLB Traffic Control Rule Set. <b>Example</b> : 1	integer(int32)
<b>matchValue</b> <i>required</i>	Match value of the specified GSLB Traffic Control Rule. <b>Example</b> : "10.0.0.0/8"	string
<b>memberDomain</b> <i>optional</i>	Member domain of the specified GSLB Traffic Control Rule. <b>Example</b> : "tcpwave.com"	string
<b>memberId</b> <i>optional</i>	Id of the Frontend member which is associated with the specified GSLB Traffic Control Rule. <b>Example</b> : "990"	string
<b>memberIp</b> <i>optional</i>	Id of the Frontend member IP Address which is associated with the specified GSLB Traffic Control Rule. <b>Example</b> : "10.0.0.0"	string
<b>memberName</b> <i>required</i>	Frontend member of the specified GSLB Traffic Control Rule. <b>Example</b> : "TIMS_FRONTEND_MEMBER"	string
<b>memberPort</b> <i>optional</i>	Member port of the specified GSLB Traffic Control Rule. <b>Example</b> : "440"	string
<b>memberTtl</b> <i>optional</i>	Member TTL of the specified GSLB Traffic Control Rule. <b>Example</b> : 1200	integer(int32)
<b>name</b> <i>required</i>	Name of the specified GSLB Traffic Control Rule Set. <b>Example</b> : "GTCRule"	string
<b>oldRuleName</b> <i>optional</i>	Name of the specified Rule element before modification.	string

Name	Description	Schema
<b>old_name</b> <i>required</i>	Name of the specified GSLB Traffic Control Rule before modification. <b>Example</b> : "SLBRuleSet"	string
<b>organization_id</b> <i>required</i>	Id of the Organization which is associated with the specified GSLB Traffic Control Rule Set <b>Example</b> : 990	integer(int32)
<b>organization_name</b> <i>required</i>	Name of the Organization associated with the specified GSLB Traffic Control Rule Set. <b>Example</b> : "Internal"	string
<b>priority</b> <i>optional</i>	Frontend priority for the specified GSLB Traffic Control Rule. <b>Example</b> : 1	integer(int32)
<b>ruleDescription</b> <i>optional</i>	Description of the specified GSLB Traffic Control Rule.	string
<b>ruleName</b> <i>required</i>	Rule name of the specified Rule GSLB Traffic Control Rule.	string
<b>ruleType</b> <i>required</i>	Rule type of the specified GSLB Traffic Control Rule. <b>Example</b> : "subnet"	string
<b>ruleValue</b> <i>required</i>	Rule value of the specified GSLB Traffic Control Rule. <b>Example</b> : "IP Address/Mask"	string
<b>rule_count</b> <i>optional</i>		integer(int32)
<b>updated_by</b> <i>optional</i>	Id of the User who has modified the specified GSLB Traffic Control Rule Set. <b>Example</b> : 2019	integer(int32)
<b>updated_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Updated by for the specified GSLB Traffic Control Rule Set. <b>Example</b> : "John"	string
<b>updated_time</b> <i>optional</i>	String format of the time when the specified GSLB Traffic Control Rule Set is modified. <b>Example</b> : "03/18/2022 4:37"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified GSLB Traffic Control Rule Set is modified. <b>Example</b> : "03/18/2022 4:37"	string

#### 5.164. Global Options List

This class contains a list of global options supported by the TCPWave IPAM. Global options control the behavior of various sub components and the overall performance of the product. Changes to the global options are audited.

Name	Description	Schema
<b>category</b> <i>optional</i>	Category of the option	string
<b>description</b> <i>optional</i>	Description of the option	string
<b>display_name</b> <i>optional</i>	Display name of the option	string
<b>paramName</b> <i>required</i>	Name of the option	string
<b>paramValue</b> <i>optional</i>	Value of the option	string
<b>prompt</b> <i>optional</i>	Prompt for the option	string
<b>updated_by_name</b> <i>optional</i>	User who updated the option value	string
<b>updated_time</b> <i>optional</i>	Option update time	string(date-time)

#### 5.165. Global Policy Management(GPM)

This class represents Global Policy Management(GPM) and contains the attributes necessary for Global Policy Management functionality in TCPWave IPAM. The information includes the id, name, value,category, type, unit and other Global Policy related information.

Name	Description	Schema
<b>getpCat</b> <i>required</i>	Category of the specified Global Policy Management. <b>Example</b> : "Preferences"	string
<b>getpId</b> <i>required</i>	ID of the specified Global Policy Management. <b>Example</b> : "1"	string



Name	Description	Schema
<b>getpName</b> <i>required</i>	Name of the specified Global Policy Management. <b>Example</b> : "LOGO"	string
<b>getpType</b> <i>required</i>	Type of the specified Global Policy Management. <b>Example</b> : "FILE"	string
<b>getpUnit</b> <i>required</i>	Unit of the specified Global Policy Management. <b>Example</b> : "1"	string
<b>getpValue</b> <i>required</i>	Value of the specified Global Policy Management. <b>Example</b> : "1"	string

### 5.166. HA IPAM

The IPAM Server information in HA Setting.

Name	Description	Schema
<b>create_by_string</b> <i>required</i>	Name of the user who setup the HA. <b>Example</b> : "Smith"	string
<b>created_by</b> <i>required</i>	Database ID of the user who setup the HA. <b>Example</b> : 2862	integer(int32)
<b>created_time_string</b> <i>required</i>	HA setup creation time. <b>Example</b> : "01/20/2022 4:37"	string
<b>description</b> <i>required</i>	Description about HA setup.	string
<b>extra_info</b> <i>required</i>	Extra information about HA IPAM.	string
<b>id</b> <i>required</i>	ID of the HA IPAM <b>Example</b> : 1123	integer(int32)
<b>is_pseudomaster</b> <i>required</i>	Is IPAM master or not?	integer(int32)
<b>name</b> <i>required</i>	Name of the IPAM Appliance.	string
<b>priority</b> <i>required</i>	Priority given to the appliance.	integer(int32)
<b>updated_by</b> <i>required</i>	Database ID of the user who updated the HA. <b>Example</b> : 2862	integer(int32)
<b>updated_by_string</b> <i>required</i>	Name of the user who modified the HA. <b>Example</b> : "John"	string
<b>updated_time</b> <i>required</i>	HA setup modification time. <b>Example</b> : "01/20/2022 4:37"	string(date-time)
<b>updated_time_string</b> <i>required</i>	HA setup modification time. <b>Example</b> : "01/20/2022 4:37"	string
<b>v4_ipaddress</b> <i>required</i>	IPV4 Address of the IPAM Appliance.	string
<b>v6_ipaddress</b> <i>required</i>	IPV6 Address of the IPAM Appliance.	string

### 5.167. HealthIndices

Name	Description	Schema
<b>dhcp_count</b> <i>optional</i>	Number of DHCP alerts <b>Example</b> : 23	integer(int32)
<b>dhcp_hosts_critical</b> <i>optional</i>	Number of DHCP hosts in critical state <b>Example</b> : 23	integer(int32)
<b>dhcp_lastsync_failed</b> <i>optional</i>	Number of sync failed on DHCP host <b>Example</b> : 24	integer(int32)
<b>dhcp_services_count</b> <i>optional</i>	Number of DHCP services <b>Example</b> : 20	integer(int32)
<b>dhcp_services_critical</b> <i>optional</i>	Number of DHCP services in critical state <b>Example</b> : 32	integer(int32)
<b>dns_count</b> <i>optional</i>	Number of DNS alerts <b>Example</b> : 32	integer(int32)
<b>dns_hosts_critical</b> <i>optional</i>	Number of DNS hosts in critical state <b>Example</b> : 23	integer(int32)
<b>dns_lastsync_failed</b> <i>optional</i>	Number of sync failed on DNS host <b>Example</b> : 22	integer(int32)

Name	Description	Schema
<b>dns_services_count</b> <i>optional</i>	Number of DNS services <b>Example</b> : 14	integer(int32)
<b>dns_services_critical</b> <i>optional</i>	Number of DNS services in critical state <b>Example</b> : 25	integer(int32)
<b>ipam_critical</b> <i>optional</i>	Number of critical alerts on the IPAM. <b>Example</b> : 25	integer(int32)

### 5.168. Home

This class represents the information to display on dashboard.

Name	Description	Schema
<b>address</b> <i>required</i>	Network's full address <b>Example</b> : "10.1.10.45"	string
<b>count</b> <i>required</i>	Count value <b>Example</b> : 1	integer(int32)
<b>email_id</b> <i>optional</i>	Email ID <b>Example</b> : "admin@tcpwave.com"	string
<b>fullAddress</b> <i>required</i>	Network's full address <b>Example</b> : "10.1.10.135"	string
<b>network_id</b> <i>required</i>	Database ID of network <b>Example</b> : 156	integer(int32)
<b>organization_id</b> <i>required</i>	Database ID of organization <b>Example</b> : 134	integer(int32)
<b>organization_name</b> <i>required</i>	Name of organization <b>Example</b> : "Internal"	string
<b>primary_dhcp_server</b> <i>required</i>	IP address of primary DHCP server <b>Example</b> : "10.1.56.24"	string

### 5.169. Home Scopes

Fetches the top ten DHCP scopes in the TCPWave IPAM.

Name	Description	Schema
<b>end_address</b> <i>required</i>	Get Ending Address <b>Example</b> : "10.1.1.25"	string
<b>not_leased</b> <i>required</i>	Get IP's not leased count <b>Example</b> : 10	integer(int32)
<b>object_count</b> <i>required</i>	Get Object count <b>Example</b> : 25	integer(int32)
<b>start_address</b> <i>required</i>	Get Starting Address <b>Example</b> : "10.1.1.0"	string

### 5.170. Home Subnet List Tree

This class contains the information about the list of monitoring service enabled DNS and DHCP servers list

Name	Description	Schema
<b>class_code</b> <i>required</i>	Status of the remote appliance. either zero or one <b>Example</b> : "0/1"	string
<b>end_time</b> <i>required</i>	End time <b>Example</b> : "02/09/2022"	string
<b>explicit_server_type</b> <i>required</i>	Server type of remote appliance <b>Example</b> : "BIND-AUTH"	string
<b>id</b> <i>optional</i>	ID of remote appliance <b>Example</b> : 69	integer(int32)
<b>ipv4</b> <i>required</i>	IPv4 address of appliance <b>Example</b> : "10.1.10.56"	string
<b>ipv6</b> <i>required</i>	IPv6 address of appliance <b>Example</b> : "2001:db8:a0b:12f0::1"	string
<b>object_id</b> <i>required</i>	Object ID <b>Example</b> : 8	integer(int32)
<b>start_time</b> <i>required</i>	Start time <b>Example</b> : "01/05/2022"	string
<b>type</b> <i>required</i>	remote appliance type <b>Example</b> : "BIND-AUTH"	string
<b>valInt</b> <i>required</i>	Heartbeat status of the remote appliance. either zero or one <b>Example</b> : "0/1"	integer(int32)

### 5.171. HopData

Name	Description	Schema
<b>host</b> <i>optional</i>		string
<b>index</b> <i>optional</i>		integer(int32)
<b>ip</b> <i>optional</i>		string
<b>lost</b> <i>optional</i>		string
<b>time</b> <i>optional</i>		string

### 5.172. Host Naming Policies

This class represents a Host Naming Policy and contains the attributes necessary for Policy management functionality in the TCPWave IPAM. The information includes the Policy Name, Policy Id, Policy Value, Policy Type and other Policy related information.

Name	Description	Schema
<b>created_by</b> <i>required</i>	Id of the User who has created the specified Policy. <b>Example</b> : 2017	integer(int32)
<b>created_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified policy. <b>Example</b> : "Stephen"	string
<b>created_by_name</b> <i>optional</i>	Name of the User who has created the specified Policy. <b>Example</b> : "Stephen"	string
<b>created_time</b> <i>required</i>	The time instance when the specified Policy has been created. <b>Example</b> : "04/25/2022 4:39"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified Policy has been created. <b>Example</b> : "04/25/2022 4:39"	string
<b>policy_description</b> <i>optional</i>	Description for the specified Policy. <b>Example</b> : "description"	string
<b>policy_id</b> <i>optional</i>	ID of the specified policy. <b>Example</b> : 10	integer(int32)
<b>policy_name</b> <i>required</i>	Name of the specified Policy. <b>Example</b> : "policy"	string
<b>policy_type</b> <i>required</i>	Type of the specified policy. <b>Example</b> : "Contains"	string
<b>policy_value</b> <i>required</i>	Value of the specified Domain. <b>Example</b> : "value"	string
<b>updated_by</b> <i>required</i>	Id of the User who has modified the specified Policy. <b>Example</b> : 2017	integer(int32)
<b>updated_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Updated By for the specified policy. <b>Example</b> : "John"	string
<b>updated_by_name</b> <i>optional</i>	Name of the User who has modified the specified Policy. <b>Example</b> : "Stephen"	string
<b>updated_time</b> <i>required</i>	The time instance when the specified Policy has been updated. <b>Example</b> : "04/25/2022 4:39"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified Policy has been modified. <b>Example</b> : "04/25/2022 4:39"	string

### 5.173. IPAM Sub Versions

Detailed information about IPAM Sub Versions.

Name	Description	Schema
<b>autoRestarterVersion</b> <i>required</i>	Auto Restarter/Watchdog version <b>Example</b> : "5.25.2"	string
<b>bios</b> <i>required</i>	BIOS version <b>Example</b> : "2.11.0"	string
<b>cliengine</b> <i>required</i>	CLI engine version	string
<b>dataengine</b> <i>required</i>	Data engine version	string
<b>discovery</b> <i>required</i>	Discovery engine version	string

Name	Description	Schema
<b>firmware</b> <i>required</i>	Firmware version <b>Example</b> : "2.47.41"	string
<b>galera</b> <i>required</i>	Galera version	string
<b>heartbeat</b> <i>required</i>	Heart beat of appliance	boolean
<b>ipam</b> <i>required</i>	IPAM version	string
<b>kernel</b> <i>required</i>	Kernel version <b>Example</b> : "4.4.194"	string
<b>monitoringengine</b> <i>required</i>	Monitoring engine version	string
<b>name</b> <i>required</i>	Name <b>Example</b> : "Test"	string
<b>ntp</b> <i>required</i>	NTP version	string
<b>ntpServers</b> <i>optional</i>		string
<b>scheduler</b> <i>required</i>	Scheduler version	string
<b>searchengine</b> <i>required</i>	Search engine version	string
<b>snmp</b> <i>required</i>	SNMP version	string
<b>snmpTraps</b> <i>optional</i>		string
<b>ssh</b> <i>required</i>	SSH version	string
<b>syslogNGServers</b> <i>optional</i>		string
<b>tacacsServers</b> <i>optional</i>		string
<b>tcpwavemq</b> <i>required</i>	TCPWave AMQ version	string

### 5.174. IPAM statistics

Fetches the networks,subnets,objects,zones,servers ,scopes count defined in the TCPWave IPAM

Name	Description	Schema
<b>admin</b> <i>required</i>	Get administrators count <b>Example</b> : 5	integer(int64)
<b>alert</b> <i>optional</i>		integer(int64)
<b>cloud_provider</b> <i>required</i>	Get Cloud Providers count <b>Example</b> : 5	integer(int64)
<b>dhcp</b> <i>required</i>	Get dhcp servers count <b>Example</b> : 3	integer(int64)
<b>dhcp_option_template</b> <i>required</i>	Get option templates count <b>Example</b> : 5	integer(int64)
<b>dns</b> <i>required</i>	Get dns servers count <b>Example</b> : 4	integer(int64)
<b>network</b> <i>required</i>	Get networks count <b>Example</b> : 5	integer(int64)
<b>object</b> <i>required</i>	Get objects count <b>Example</b> : 100	integer(int64)
<b>scope</b> <i>required</i>	Get scopes count <b>Example</b> : 0	integer(int64)
<b>subnet</b> <i>required</i>	Get subnets count <b>Example</b> : 10	integer(int64)
<b>zone</b> <i>required</i>	Get zones count <b>Example</b> : 7	integer(int64)
<b>zone_dnssec</b> <i>required</i>	Get dnssec enabled zones count <b>Example</b> : 5	integer(int64)

## 5.175. IPAM sub-components version

Fetches the IPAM sub-components versions present in the TCPWave IPAM

Name	Description	Schema
<b>name</b> <i>required</i>	Get global options name <b>Example</b> : "CLI engine"	string
<b>version</b> <i>required</i>	Get version of IPAM subcomponent <b>Example</b> : "11.8"	string

## 5.176. IPAMAppliance

Name	Description
<b>applianceGroups</b> <i>optional</i>	
<b>applianceGroupsStr</b> <i>optional</i>	
<b>created_by</b> <i>required</i>	IPAM appliance created by user Id <b>Example</b> : 1219
<b>created_by_name</b> <i>optional</i>	IPAM appliance created by user name <b>Example</b> : "twcuser"
<b>created_time</b> <i>optional</i>	IPAM appliance created time stamp <b>Example</b> : "1222221231"
<b>description</b> <i>optional</i>	IPAM appliance description <b>Example</b> : "This is a IPAM appliance."
<b>domain_id</b> <i>optional</i>	Domain Id <b>Example</b> : 15
<b>domain_name</b> <i>required</i>	Domain name <b>Example</b> : "tcpwave.com"
<b>firewall_template</b> <i>optional</i>	Firewall template of the IPAM appliance <b>Example</b> : "Firewall_Template"
<b>firewall_template_id</b> <i>optional</i>	Template ID of Firewall template <b>Example</b> : 15
<b>id</b> <i>optional</i>	IPAM Appliance ID <b>Example</b> : 12
<b>ipamTemplate</b> <i>optional</i>	Template name of IPAM appliance
<b>isAlive</b> <i>required</i>	Is secure communication establish or not <b>Example</b> : false
<b>isClusterIPAM</b> <i>optional</i>	Is the IPAM appliance part of the HA or DR cluster or not? <b>Example</b> : "true/false"
<b>isHost</b> <i>optional</i>	Is IPAM appliance local host or not? <b>Example</b> : false
<b>lastSyncTime</b> <i>optional</i>	Last sync time of the IPAM appliance <b>Example</b> : "05:21:35 02-01-2022"
<b>mgmtIP</b> <i>optional</i>	IP address of management or primary network interface, that is used to connect to IPAM. <b>Example</b> : "192.168.0.45"
<b>name</b> <i>required</i>	Object name of the TCPWave IPAM type object or IPAM appliance name <b>Example</b> : "test"
<b>nicsConfig</b> <i>optional</i>	Details of network interface
<b>object_id</b> <i>optional</i>	Object ID of the TCPWave IPAM type object <b>Example</b> : 15
<b>old_firewall_template</b> <i>optional</i>	
<b>old_v4_ipaddress</b> <i>required</i>	Object IPv4 old address of the TCPWave IPAM type object <b>Example</b> : "10.12.1.2"
<b>oldtimeZone</b> <i>optional</i>	Old Time Zone of the IPAM appliance <b>Example</b> : "GMT"
<b>organization_id</b> <i>optional</i>	Organization Id <b>Example</b> : 15
<b>organization_name</b> <i>optional</i>	Organization Name <b>Example</b> : "Internal"
<b>rtTablesjson</b> <i>optional</i>	RtTables information JSON string <b>Example</b> : "{\\"port\\":\\"255\\",\\"name\\":\\"local\\"},{\\"port\\":\\"254\\",\\"name\\":\\"main\\"},{\\"port\\":\\"253\\",\\"name\\":\\"def
<b>snmpAcl</b> <i>optional</i>	Acl Name <b>Example</b> : "TestAcl"

Name	Description
<b>snmpAcl_id</b> <i>optional</i>	Acl Id <b>Example</b> : 123
<b>sysLogs</b> <i>optional</i>	Syslog-ng configuration object <b>Example</b> : <code>{"globalOptions":{"timewaitdead":{"70"},"timetoidle":{"78"},"messageToBuffer":{"60"},"twstatic":{"name":{"s_sys"},"allSources":[{"type":"internal","filePath":null,"fileName":null,"address":null,"port":{"type":"system","filePath":null,"fileName":null,"address":null,"port":null,"protocol":null}],"sourceType":"system"},"category":"complex"},"destinationData":{"name":"d_mesg","typeSNG":"File","logDestGivenValSNG":"/var/log/messages","syncAfterEachMsg":false}}</code>
<b>timeZone</b> <i>optional</i>	Time Zone of the IPAM appliance <b>Example</b> : "GMT"
<b>updated_by</b> <i>optional</i>	IPAM appliance updated by user Id <b>Example</b> : 1219
<b>updated_by_name</b> <i>optional</i>	IPAM appliance updated by user name <b>Example</b> : "twcuser"
<b>updated_time</b> <i>optional</i>	IPAM appliance updated time stamp <b>Example</b> : "1222221231"
<b>v4_ipaddress</b> <i>required</i>	Object IPv4 address of the TCPWave IPAM type object <b>Example</b> : "10.12.1.2"
<b>v6_ipaddress</b> <i>optional</i>	Object IPv6 address of the TCPWave IPAM type object <b>Example</b> : "1000::"

### 5.177. IPAMApplianceTrafficData

Name	Description	Schema
<b>date</b> <i>optional</i>	Current date of IPAM <b>Example</b> : "2022-03-07"	string
<b>destination</b> <i>optional</i>	Destination IP address <b>Example</b> : "192.168.0.125"	string
<b>destport</b> <i>optional</i>	Destination port of IPAM <b>Example</b> : "61617/tcp"	string
<b>information</b> <i>optional</i>	Traffic information <b>Example</b> : "cksum 0x4aa5 (correct), ack 1806646258, win 128, length 0"	string
<b>packetlength</b> <i>optional</i>	Size of packet <b>Example</b> : "0"	string
<b>protocol</b> <i>optional</i>	Protocols <b>Example</b> : "TCP"	string
<b>source</b> <i>optional</i>	Source IP address <b>Example</b> : "192.168.0.120"	string
<b>sourceport</b> <i>optional</i>	Source port of IPAM <b>Example</b> : "53868/tcp"	string
<b>time</b> <i>optional</i>	Current time of IPAM <b>Example</b> : "21:12:12.373054"	string

### 5.178. IPAMServices

Name	Description	Schema
<b>cli</b> <i>optional</i>	CLI service status <b>Example</b> : "yes/no"	string
<b>cron</b> <i>optional</i>	CRON service status <b>Example</b> : "yes/no"	string
<b>dbreplicator</b> <i>optional</i>	DB Replicator status <b>Example</b> : "yes/no"	string
<b>de</b> <i>optional</i>	DE service status <b>Example</b> : "yes/no"	string
<b>iptables</b> <i>optional</i>	IP table service status <b>Example</b> : "yes/no"	string
<b>mysql</b> <i>optional</i>	MariaDB status <b>Example</b> : "yes/no"	string
<b>name</b> <i>optional</i>	Name of the IPAM appliance <b>Example</b> : "Test-IPAM"	string
<b>ntp</b> <i>optional</i>	NTP service status <b>Example</b> : "yes/no"	string
<b>organization_id</b> <i>optional</i>	Organization ID <b>Example</b> : 101	integer(int32)

Name	Description	Schema
<b>organization_name</b> <i>required</i>	Organization Name <b>Example</b> : "Internal"	string
<b>search</b> <i>optional</i>	Search service status <b>Example</b> : "yes/no"	string
<b>servicesArr</b> <i>optional</i>		< string > array
<b>snmp</b> <i>optional</i>	SNMP service status <b>Example</b> : "yes/no"	string
<b>ssh</b> <i>optional</i>	SSH service status <b>Example</b> : "yes/no"	string
<b>tims</b> <i>optional</i>	TIMS status <b>Example</b> : "yes/no"	string
<b>timsdiscovery</b> <i>optional</i>	DE service status <b>Example</b> : "yes/no"	string
<b>timsmonitor</b> <i>optional</i>	TIMS Monitor status <b>Example</b> : "yes/no"	string
<b>timsscheduler</b> <i>optional</i>	TIMS Scheduler status <b>Example</b> : "yes/no"	string
<b>v4_ipaddress</b> <i>required</i>	IPv4 IP address of the IPAM appliance <b>Example</b> : "192.168.0.101"	string
<b>v6_ipaddress</b> <i>optional</i>	IPv6 IP address of the IPAM appliance <b>Example</b> : "1000::12"	string

### 5.179. IPAMServicesInfo

Name	Description	Schema
<b>appliances</b> <i>optional</i>	List of IPAM appliances and their services.	< <a href="#">IPAMServices</a> > array
<b>operation</b> <i>optional</i>	Operation type <b>Example</b> : "start/stop/restart/rebuild"	string
<b>operationMethod</b> <i>optional</i>	Operation method <b>Example</b> : "sequential/simultaneous"	string
<b>schedTime</b> <i>optional</i>	Operation schedule time <b>Example</b> : "2022-03-07 16:22:00"	string
<b>services</b> <i>optional</i>	Comma separated services <b>Example</b> : "ntpd,sshd,snmpd,cliserver"	string

### 5.180. IPAMTemplate

Name	Description
<b>applianceType</b> <i>optional</i>	IPAM appliance type <b>Example</b> : "development"
<b>banner</b> <i>optional</i>	IPAM appliance banner text <b>Example</b> : "This is a banner."
<b>banner_color</b> <i>optional</i>	IPAM appliance banner text color <b>Example</b> : "red"
<b>created_by</b> <i>required</i>	IPAM appliance template created by user Id <b>Example</b> : 1219
<b>created_by_name</b> <i>optional</i>	IPAM appliance template created by user name <b>Example</b> : "twcuser"
<b>created_time</b> <i>optional</i>	IPAM appliance template created time stamp <b>Example</b> : "122221231"
<b>description</b> <i>optional</i>	IPAM appliance template description <b>Example</b> : "This is a test template."
<b>dnsResolverConfig</b> <i>required</i>	IPAM appliance template DNSResolver configuration JSON string <b>Example</b> : "{\n\"ns1\": \"10.2.1.21\", \"ns2\": \"\", \"ns3\": \"\", \"ns4\": \"\", \"search1\": \"\", \"search2\": \"\", \"search3\": \"\"}"
<b>elevatedPrivilegesConfig</b> <i>optional</i>	Elevated Privileges Configuration Details <b>Example</b> : "{\n\"environmentVariables\": [{\n\"value\": \"Defaults always_query_group_plugin\"}], \"userAliases\": [{\n\"user_alias_name\": \"HOST_ALIAS_1\", \"host_alias_value\": \"192.168.0.139\"}], \"runasAliases\": [{\n\"runas_alias_name\": \"COMMAND_ALIAS_1\", \"command_alias_value\": \"/cp\"}], \"userSpecifications\": [{\n\"user_alias\": \"USER_ALIAS_1\", \"host_alias\": \"HOST_ALIAS_1\", \"runas_alias\": \"RUNAS_ALIAS_1\", \"runas_group_alias\": \"\"}]"
<b>elevatedPrivilegesjson</b> <i>optional</i>	Elevated Privileges Configuration JSON String <b>Example</b> : "{\n\"environmentVariables\": [{\n\"value\": \"Defaults always_query_group_plugin\"}], \"userAliases\": [{\n\"user_alias_name\": \"HOST_ALIAS_1\", \"host_alias_value\": \"192.168.0.139\"}], \"runasAliases\": [{\n\"runas_alias_name\": \"COMMAND_ALIAS_1\", \"command_alias_value\": \"/cp\"}], \"userSpecifications\": [{\n\"user_alias\": \"USER_ALIAS_1\", \"host_alias\": \"HOST_ALIAS_1\", \"runas_alias\": \"RUNAS_ALIAS_1\", \"runas_group_alias\": \"\"}]"

Name	Description
<b>enableSNMPv3</b> <i>required</i>	Specifies whether SNMPv3 is enabled or not on the IPAM. <b>Example</b> : true
<b>id</b> <i>optional</i>	IPAM appliance template Id <b>Example</b> : 15
<b>idracConfig</b> <i>optional</i>	IPAM appliance template iDrac configuration JSON string <b>Example</b> : "{\password\": \"\", \"address\": \"\", \"enable\": \"\", \"snmp_community_string\": \"\"}"
<b>ldapSSHConfig</b> <i>optional</i>	LDAP_SSH Configuration JSON String <b>Example</b> : "{enable\": false}"
<b>log_file_size</b> <i>optional</i>	IPAM appliance template, log file size <b>Example</b> : "5MB"
<b>name</b> <i>optional</i>	IPAM appliance template name <b>Example</b> : "test"
<b>no_of_backup_log_files</b> <i>optional</i>	IPAM appliance template, no of backup log files <b>Example</b> : 5
<b>nntpConfig</b> <i>required</i>	Comma separated NTP appliances of IPAM appliance template <b>Example</b> : "10.2.2.1,10.2.21.1"
<b>oldName</b> <i>required</i>	IPAM appliance template old name <b>Example</b> : "test"
<b>organization</b> <i>required</i>	Organization name <b>Example</b> : "Internal"
<b>organization_id</b> <i>optional</i>	Organization Id <b>Example</b> : 2121
<b>rootConfig</b> <i>optional</i>	IPAM appliance template Root password <b>Example</b> : "abc"
<b>snmpConfig</b> <i>required</i>	IPAM appliance template SNMP configuration JSON string <b>Example</b> : "{systemLocation\": \"\", \"processes\": \"ntpd-1/snmpd-0/crond-0/sshd-0/de-1/cli-0/search-1/tims-0/timssche0\", \"trapSink2\": \"10.2.2.43\", \"communityString\": \"8DE1BF9E2B9819A3\", \"trapSink1\": \"10.2.1.122\", \"systemContact\"}
<b>snmpv3Users</b> <i>required</i>	Specifies list of SNMPv3 users.
<b>sshConfig</b> <i>optional</i>	IPAM appliance template SSH configuration string <b>Example</b> : "22"
<b>ssh_banner</b> <i>optional</i>	IPAM appliance SSH banner text <b>Example</b> : "This is a SSH banner."
<b>sysLogNgConfig</b> <i>optional</i>	Syslog-ng configuration object
<b>sysLogsConfig</b> <i>optional</i>	Syslog-ng configuration object <b>Example</b> : "{globalOptions\": \"{\timewaitdead\": \"70\", \"timetoidle\": \"78\", \"messagetoBuffer\": \"60\", \"twstatic\": \"\", \"name\": \"s_sys\", \"allSources\": [{type\": \"internal\", \"filePath\": null, \"fileName\": null, \"address\": null, \"port\": null, \"protocol\": null}, {type\": \"system\", \"filePath\": null, \"fileName\": null, \"address\": null, \"port\": null, \"protocol\": null}], \"source\": (facility(mail) or facility(authpriv) or facility(cron))\", \"category\": \"complex\"}], \"destinationData\": [{name\": \"d_msg\", \"typeSNG\": \"File\", \"logDestGivenValSNG\": \"/var/log/messages\", \"syncAfterEachMsg\": false}]}
<b>systemResources</b> <i>required</i>	Specifies system resource option values
<b>tacacsConfig</b> <i>required</i>	IPAM appliance template TACACS configuration JSON string <b>Example</b> : "{appliance\": \"\", \"enable\": false, \"pass_key\": \"\"}"
<b>updated_by</b> <i>optional</i>	IPAM appliance template updated by user Id <b>Example</b> : 1219
<b>updated_by_name</b> <i>optional</i>	IPAM appliance template updated by user name <b>Example</b> : "twcuser"
<b>updated_time</b> <i>optional</i>	IPAM appliance template updated time stamp <b>Example</b> : "122221231"

### 5.181. IPAMTopicStats

Name	Description	Schema
<b>rx_msg_count</b> <i>optional</i>		integer(int64)
<b>rx_msg_size</b> <i>optional</i>		integer(int64)
<b>stat_time</b> <i>optional</i>		string
<b>topic</b> <i>optional</i>		string



Name	Description	Schema
<b>tx_msg_count</b> <i>optional</i>		integer(int64)
<b>tx_msg_size</b> <i>optional</i>		integer(int64)

### 5.182. IPAMVersion

Name	Description	Schema
<b>bldDisplayString</b> <i>optional</i>		string
<b>bldString</b> <i>optional</i>		string
<b>majorVersion</b> <i>optional</i>		string
<b>minorVersion</b> <i>optional</i>		string
<b>patchLevel</b> <i>optional</i>		integer(int32)

### 5.183. IPV6 Scope

Persists the attributes of DHCP v6 Scope such as start address, end address, subnet address, network address, organization, DHCP v6 Option Template, DHCP v6 Server, DHCP v6 Classes to be allowed and denied etc.

Name	Description	Schema
<b>allocation_type</b> <i>optional</i>	IPv6 object allocation type <b>Example</b> : "4"	string
<b>class_code</b> <i>optional</i>	IPv6 object class code <b>Example</b> : "Router"	string
<b>count</b> <i>optional</i>	Number of scopes to be created. <b>Example</b> : 1	integer(int32)
<b>created_by_login_name</b> <i>optional</i>	Login name of the user who created the entity	string
<b>created_by_name</b> <i>optional</i>	Login name of the user who created the entity	string
<b>created_time</b> <i>optional</i>	Date and Time of creation of the entity	string(date-time)
<b>created_time_string</b> <i>optional</i>	String instance of the created time	string
<b>description</b> <i>optional</i>	Description <b>Example</b> : "Adding an object."	string
<b>endIP</b> <i>optional</i>	IPv6 scope end IP address <b>Example</b> : "4c-2018:2018::95"	string
<b>full</b> <i>required</i>	Percentage full in terms of active leases in a given scope	integer(int32)
<b>network_address</b> <i>optional</i>	IPv6 network address <b>Example</b> : "1000::"	string
<b>organization_name</b> <i>optional</i>	Organization <b>Example</b> : "Internal"	string
<b>primary_dhcp_server</b> <i>optional</i>	IPv6 primary DHCP appliance <b>Example</b> : "dhcpserver"	string
<b>size</b> <i>optional</i>	Number of DHCP objects in the scope range. <b>Example</b> : 3	integer(int32)
<b>startIP</b> <i>optional</i>	IPv6 scope start IP address <b>Example</b> : "2018:2018"	string
<b>subnetAddress</b> <i>optional</i>	IPv6 subnet address <b>Example</b> : "1000::"	string
<b>subnet_address</b> <i>required</i>	IP Address of the subnet	string
<b>template_name</b> <i>optional</i>	IPv6 template <b>Example</b> : "template"	string
<b>updated_by_login_name</b> <i>optional</i>	Login name of the user who updated the entity	string
<b>updated_by_name</b> <i>optional</i>	Login name of the user who updated the entity	string

Name	Description	Schema
<b>updated_time</b> <i>optional</i>	Date and Time of updating the entity	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String instance of the updated time	string
<b>v6_dhcp_server_address</b> <i>optional</i>		string

#### 5.184. IPv6 Network Details

This class provides the attributes that are associated with an IPv6 network such as the address, size, mask length etc.

Name	Description	Schema
<b>address</b> <i>required</i>	Full address of the IPv6 network	string
<b>block_count</b> <i>optional</i>		integer(int32)
<b>block_id</b> <i>optional</i>		integer(int32)
<b>cloud_region</b> <i>optional</i>		string
<b>contact_email_id</b> <i>optional</i>		string
<b>contact_id</b> <i>optional</i>		integer(int32)
<b>contact_name</b> <i>optional</i>		string
<b>createRevZone</b> <i>optional</i>	Auto create reverse zone for a network <b>Example</b> : "Yes/No"	string
<b>created_by</b> <i>optional</i>	Database ID of the user who created the entity	integer(int32)
<b>created_by_login_name</b> <i>optional</i>	Login name of the user who created the IPv6 network	string
<b>created_by_name</b> <i>required</i>	Database ID of the user who created the entity <b>Example</b> : "22"	string
<b>created_time</b> <i>required</i>	IPv6 network created time in the TCPWave IPAM <b>Example</b> : "03/18/2022 3:39"	string(date-time)
<b>description</b> <i>optional</i>	Description of IPv6 Network	string
<b>dhcp_enabled_subnets</b> <i>required</i>	Number of DHCP enabled subnets in IPv6 network in the TCPWave IPAM	integer(int32)
<b>discoveryTemplateId</b> <i>required</i>	Id of the Discovery Template defined in the organization which is associated with the specified Network. <b>Example</b> : 41010	integer(int32)
<b>discovery_template</b> <i>required</i>	Name of the Discovery Template defined in the organization which is associated with the specified Network. <b>Example</b> : "DiscoveryTemp1"	string
<b>dmzVisible</b> <i>required</i>	Specifies whether the zone which is associated with the Network is a Demilitarized Zone(DMZ) or not. <b>Example</b> : "Yes/No"	string
<b>dnssec_enable</b> <i>required</i>	Specifies whether Domain Name System Security Extensions(DNSSEC) enabled or not for the zone associated with the specified Network. <b>Example</b> : "Yes/No"	string
<b>email_id</b> <i>optional</i>	Internal use only	string
<b>enable_discovery</b> <i>required</i>	Specifies whether discovery is enabled or not for the specified Network. <b>Example</b> : "Yes/No"	string
<b>end_addr_val</b> <i>optional</i>	Internal use only	integer(int64)
<b>extensions</b> <i>optional</i>		< <a href="#">Xtn NVP</a> > array
<b>first_name</b> <i>optional</i>		string
<b>has_block</b> <i>optional</i>		boolean

Name	Description	Schema
<b>has_blocks</b> <i>optional</i>		integer(int32)
<b>id</b> <i>optional</i>	Database ID of the IPv6 network	integer(int32)
<b>ipv6ShortAddress</b> <i>optional</i>	IPv6 short address <b>Example</b> : "3000::"	string
<b>last_name</b> <i>optional</i>		string
<b>mask_length</b> <i>required</i>	IPv6 network mask length	integer(int32)
<b>middle_name</b> <i>optional</i>		string
<b>monitoringService</b> <i>optional</i>		string
<b>name</b> <i>required</i>	Name of the IPv6 network	string
<b>network_id</b> <i>optional</i>		string
<b>nsec_option</b> <i>required</i>	Takes NSEC or NSEC3 when Domain Name System Security Extensions(DNSSEC) is enabled for the zone which is associated with the specific Network. <b>Example</b> : "NSEC/NSEC3"	string
<b>nw_mask_length</b> <i>required</i>	Mask length of the IPv6 Network	integer(int32)
<b>object_count</b> <i>optional</i>	Number of objects defined in this IPV6 Network	integer(int32)
<b>oldName</b> <i>required</i>	Old name of the IPv6 network <b>Example</b> : "IPv6TestNetwork"	string
<b>organization_id</b> <i>required</i>	Organization ID of the network	integer(int32)
<b>organization_name</b> <i>required</i>	Organization name of the network	string
<b>parent_block</b> <i>optional</i>		integer(int32)
<b>parent_pool</b> <i>optional</i>		integer(int32)
<b>percentChanged</b> <i>optional</i>		boolean
<b>percent_full</b> <i>optional</i>	Threshold percentage full for the IPv6 network	number(double)
<b>percentageFull</b> <i>optional</i>	Percentage usage of a given network	integer(int32)
<b>pool</b> <i>optional</i>		boolean
<b>poolAddress</b> <i>optional</i>		string
<b>pool_id</b> <i>optional</i>		integer(int32)
<b>pool_name</b> <i>optional</i>		string
<b>pool_short_ip</b> <i>optional</i>		string
<b>reverse_zone</b> <i>optional</i>	Reverse Zone for the given IPv6 network	string
<b>reverse_zone_serial</b> <i>required</i>	Serial Number of the Reverse Zone which is associated with the specified Network. <b>Example</b> : 2016102800	integer(int32)
<b>rrs</b> <i>required</i>	List of Resource Records associated with the specified IPv6 Network.	< <a href="#">Resource Record</a> > array
<b>selectedMasterServer</b> <i>required</i>	List of Master Servers defined in Zone Templates associated with the specified IPv6 Network.	< <a href="#">Server Information</a> > array
<b>selectedSlaveServer</b> <i>required</i>	List of Slave Servers defined in Zone Templates associated with the specified IPv6 Network.	< <a href="#">Server Information</a> > array

Name	Description	Schema
<b>serialFormat</b> <i>required</i>	Serial Number format of the zone which is associated with the specified Network. <b>Example</b> : "NODATE/DATE"	string
<b>server_count</b> <i>optional</i>	Number of servers provisioned in the IPv6 network	integer(int32)
<b>server_id</b> <i>required</i>	Id of the server which is associated with the specified Network. <b>Example</b> : 121	integer(int32)
<b>server_name</b> <i>required</i>	Name of the server which is associated with the specified Network. <b>Example</b> : "lisartx-est015-sl012"	string
<b>startAddress</b> <i>optional</i>	IPv6 network Start Address	string
<b>start_addr_val</b> <i>optional</i>	Internal use only	integer(int64)
<b>subnet_count</b> <i>optional</i>	Number of subnets defined in the IPv6 network	integer(int32)
<b>templateList</b> <i>required</i>	Provides the list of templates to be applied to IPv6 network	< <a href="#">Template</a> > array
<b>updated_by</b> <i>optional</i>	Login ID of the user who updated the IPv6 Network	integer(int32)
<b>updated_by_login_name</b> <i>optional</i>	Login name of the user who updated the IPv6 network	string
<b>updated_by_name</b> <i>optional</i>	Login ID of the user who updated the IPv6 Network	string
<b>updated_time</b> <i>required</i>	IPv6 network updated time in the TCPWave IPAM <b>Example</b> : "03/18/2022 3:40"	string(date-time)
<b>vrf_id</b> <i>optional</i>		integer(int32)
<b>vrf_name</b> <i>optional</i>		string
<b>zoneTemplateId</b> <i>required</i>	Id of the Zone Template defined in the zone which is associated with the specified Network. <b>Example</b> : 41010	integer(int32)
<b>zoneTemplateName</b> <i>required</i>	Name of the Zone Template defined in the zone which is associated with the specified Network. <b>Example</b> : "ZoneTemp1"	string

### 5.185. IPv6 Subnet

This class provides the attributes that are associated with an IPv6 network such as the address, size, mask length etc.

Name	Description	Schema
<b>alloc_type</b> <i>optional</i>		string
<b>awsSubnetId</b> <i>optional</i>		string
<b>block_address</b> <i>optional</i>	IPv6 Network address of this IPv6 Subnet	string
<b>block_id</b> <i>optional</i>	ID of the IPv6 Network to which the IPv6 Subnet belongs	integer(int32)
<b>block_mask</b> <i>optional</i>		integer(int32)
<b>block_name</b> <i>optional</i>	Name of the IPv6 Network to which the IPv6 Subnet belongs	string
<b>city</b> <i>optional</i>	City of the location	string
<b>cloudProviderId</b> <i>optional</i>		integer(int32)
<b>cloudProviderName</b> <i>optional</i>		string
<b>contact_id</b> <i>optional</i>	Contact ID of the admin user whom the IPv6 subnet is associated	integer(int32)
<b>country</b> <i>optional</i>	Country of the location <b>Example</b> : "spain"	string
<b>createRevZone</b> <i>optional</i>		string

Name	Description	Schema
<b>created_by_name</b> <i>optional</i>	Name of the User who has created the specified IPv6 subnet. <b>Example :</b> "Stephen"	string
<b>created_time</b> <i>optional</i>	Date and Time of creation of the IPv6 subnet	string(date-time)
<b>created_time_string</b> <i>optional</i>	String instance of the created time.	string
<b>description</b> <i>optional</i>	Description of the IPv6 Subnet	string
<b>dhcpFailoverPeer</b> <i>optional</i>		string
<b>dhcp_object_count</b> <i>optional</i>		integer(int64)
<b>dhcpserverType</b> <i>optional</i>		string
<b>discoveryTemplateId</b> <i>optional</i>		integer(int32)
<b>discovery_template</b> <i>optional</i>		string
<b>dns_appliances</b> <i>optional</i>		string
<b>domains</b> <i>optional</i>	List of the secondary domains	< string > array
<b>email_id</b> <i>optional</i>	Email ID of the admin user whom the IPv6 subnet is associated	string
<b>enable_discovery</b> <i>optional</i>		string
<b>endAddress</b> <i>optional</i>		string
<b>extensions</b> <i>optional</i>		< <a href="#">Xtn NVP</a> > array
<b>first_name</b> <i>optional</i>	First Name of the admin user whom the IPv6 subnet is associated	string
<b>id</b> <i>optional</i>	ID of the IPv6 subnet	integer(int32)
<b>last_name</b> <i>optional</i>	Last Name of the admin user whom the IPv6 subnet is associated	string
<b>location_id</b> <i>optional</i>	Location ID of the IPv6 subnet	integer(int32)
<b>location_name</b> <i>optional</i>	Location name of the IPv6 subnet	string
<b>mask_length</b> <i>optional</i>	Mask length of the IPv6 Subnet	integer(int32)
<b>merge_subnet_end_ip</b> <i>optional</i>		string
<b>merge_subnet_start_ip</b> <i>optional</i>		string
<b>middle_name</b> <i>optional</i>		string
<b>name</b> <i>optional</i>	Name of the IPv6 Subnet	string
<b>network_id</b> <i>optional</i>		string
<b>object_count</b> <i>optional</i>	Total number of objects defined in the IPv6 subnet	integer(int64)
<b>organization_id</b> <i>optional</i>	Organization ID to which the IPv6 subnet is associated	integer(int32)
<b>organization_name</b> <i>optional</i>	Name of the Organization to which the IPv6 subnet is associated	string
<b>percent_full</b> <i>optional</i>	Threshold percentage full for the IPv6 Subnet	number(double)
<b>primary_dhcp_server</b> <i>optional</i>	Name of the primary DHCP Appliance	string

Name	Description	Schema
<b>primary_dhcp_server_address</b> <i>optional</i>	Associated v6 primary DHCP appliance address <b>Example</b> : "201820180000000000000000000020"	string
<b>primary_domain</b> <i>optional</i>	Name of the Primary domain of the subnet	string
<b>primary_router</b> <i>optional</i>		string
<b>reclaim_objects</b> <i>optional</i>		string
<b>region</b> <i>optional</i>		string
<b>routerAddress</b> <i>required</i>	Address of the primary router	string
<b>router_name</b> <i>required</i>	Name of the primary router	string
<b>router_option</b> <i>required</i>	Selection option for the primary router - can be either the first IP in the subnet or the last IP in the subnet	string
<b>schedule_job_id</b> <i>optional</i>		string
<b>schedule_reclaim</b> <i>optional</i>		string
<b>secondaryDomains</b> <i>optional</i>		< string > array
<b>secondaryDomainsString</b> <i>optional</i>		string
<b>sharedNetwork</b> <i>optional</i>		string
<b>startAddress</b> <i>optional</i>		string
<b>state</b> <i>optional</i>	State - of the location	string
<b>street1</b> <i>optional</i>	Street 1 of the location	string
<b>street2</b> <i>optional</i>	Street 2 of the location	string
<b>subnetTemplateName</b> <i>optional</i>		string
<b>subnet_group_id</b> <i>optional</i>	ID of the group to which this IPv6 Subnet belongs	integer(int32)
<b>subnet_group_name</b> <i>optional</i>	Name of the group to which the IPv6 Subnet belongs	string
<b>subnet_template</b> <i>optional</i>	Name of the subnet template. <b>Example</b> : "testTemplate1"	string
<b>subnetscreate</b> <i>optional</i>		string
<b>subnetview</b> <i>optional</i>		string
<b>template_id</b> <i>optional</i>	Database ID of the DHCP Option Template	integer(int32)
<b>template_name</b> <i>optional</i>	Name of the DHCP Option Template	string
<b>updated_by_name</b> <i>optional</i>	Name of the User who has modified the specified IPv6 subnet. <b>Example</b> : "John"	string
<b>updated_time</b> <i>optional</i>	Date and Time of updating the IPv6 subnet	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String instance of the updated time.	string
<b>v4_primary_dhcp_server_address</b> <i>optional</i>	Associated v4 primary DHCP appliance address <b>Example</b> : "192.168.0.145"	string
<b>viewList</b> <i>optional</i>		< <a href="#">DNS View</a> > array
<b>vlan_id</b> <i>optional</i>	VLAN ID of the IPv6 subnet	string

Name	Description	Schema
<b>vrfGrid</b> <i>optional</i>		string
<b>vrf_id</b> <i>optional</i>		integer(int32)
<b>vrf_name</b> <i>optional</i>		string
<b>xtn</b> <i>optional</i>		string
<b>zip</b> <i>optional</i>	Zip code of the location	string
<b>zoneTemplateId</b> <i>optional</i>		integer(int32)
<b>zoneTemplateName</b> <i>optional</i>		string

### 5.186. IPv6 object

This class provides the attributes that are associated to a IPv6 object such as the name, domain, etc.

Name	Description	Schema
<b>addedRRs</b> <i>optional</i>		< <a href="#">Resource Record</a> > array
<b>address</b> <i>required</i>	IPv6 Address of the object.	string
<b>addressArray</b> <i>optional</i>	Collection of IPv6 Addresses - for Internal use.	< string > array
<b>alias</b> <i>optional</i>	Alias Name of IPV6 Object.	string
<b>alloc_type</b> <i>required</i>	Allocation Type for this IPv6 object.	integer(int32)
<b>alloc_type_desc</b> <i>required</i>	Allocation type: Static, Dynamic, Manual or Auto.	string
<b>allowClassesArray</b> <i>optional</i>	List of DHCP Classes applicable to this object.	< string > array
<b>block_id</b> <i>optional</i>	ID of the IPv6 Network to which the IPv6 Subnet belongs	integer(int32)
<b>change_control_team</b> <i>optional</i>	Details of the change control team <b>Example</b> : "56"	string
<b>city</b> <i>optional</i>	City of the location.	string
<b>class_code</b> <i>required</i>	Object type/Class code of the IPv6 object.	string
<b>client_hostname</b> <i>required</i>	Hostname of this object.	string
<b>contact_email_id</b> <i>required</i>	Email address of the IPv6 object. <b>Example</b> : " <a href="mailto:adm@tcpwave.com">adm@tcpwave.com</a> "	string
<b>contact_first_name</b> <i>required</i>	First name of the IPv6 object. <b>Example</b> : "Shawn"	string
<b>contact_id</b> <i>required</i>	Database ID of the contact. <b>Example</b> : 524	integer(int32)
<b>contact_last_name</b> <i>optional</i>	Last name of the IPv6 object. <b>Example</b> : "Mendes"	string
<b>contact_middle_name</b> <i>optional</i>	Middle name of the IPv6 object.	string
<b>contact_name</b> <i>optional</i>	Name of the contact responsible for this IPv6 object.	string
<b>country</b> <i>optional</i>	Country Name.	string
<b>created_by_name</b> <i>optional</i>	Name of the user who created this IPv6 object.	string
<b>created_time_string</b> <i>optional</i>	String instance of the created time.	string
<b>deletedRRs</b> <i>optional</i>		< <a href="#">Resource Record</a> > array

Name	Description	Schema
<b>denyClassesArray</b> <i>optional</i>	List of denied DHCP Classes for this object.	< string > array
<b>description</b> <i>optional</i>	Description of the IPv6 Object.	string
<b>dhcp_server</b> <i>optional</i>	DHCP Appliance associated to this Object.	string
<b>domain_id</b> <i>required</i>	Database ID of the domain associated to this IPv6 object.	integer(int32)
<b>domain_name</b> <i>required</i>	Name of the domain associated to this IPv6 object.	string
<b>dyn_update_rrs_aaaa</b> <i>required</i>	Dynamic update DNS with AAAA Resource Records.	boolean
<b>dyn_update_rrs_cname</b> <i>required</i>	Dynamic update DNS with CNAME Resource Records.	boolean
<b>dyn_update_rrs_mx</b> <i>required</i>	Dynamic update DNS with MX Resource Records.	boolean
<b>dyn_update_rrs_ptr</b> <i>required</i>	Dynamic update DNS with PTR Resource Records.	boolean
<b>end_of_life</b> <i>optional</i>	End of life for this object <b>Example</b> : "03/29/2022"	string
<b>ends</b> <i>optional</i>	Lease end time in case of a DHCPv6 Object.	string
<b>extensions</b> <i>optional</i>		< <a href="#">Xtn NVP</a> > array
<b>floor</b> <i>optional</i>	Floor (placement) of this object <b>Example</b> : "3"	string
<b>fullAddress</b> <i>optional</i>	IPv6 full address.	string
<b>id</b> <i>optional</i>	Database ID the object.	integer(int32)
<b>ip_address</b> <i>required</i>	IPv6 Address of this object.	string
<b>isDeleterrChecked</b> <i>required</i>	Delete resource record references. <b>Example</b> : "0 or 1"	integer(int32)
<b>isRenew</b> <i>optional</i>	Lease status of dynamic object <b>Example</b> : true	boolean
<b>last_seen</b> <i>optional</i>	Last seen date and time of this object <b>Example</b> : "2022-02-21 05:30:25"	string(date-time)
<b>location_id</b> <i>required</i>	Database ID of the location. <b>Example</b> : 2	integer(int32)
<b>location_name</b> <i>optional</i>	Name of the location. <b>Example</b> : "New York"	string
<b>mac</b> <i>optional</i>	MAC Address of this IPv6 object.	string
<b>mac_address</b> <i>optional</i>	MAC Address of this object.	string
<b>managed_by</b> <i>optional</i>	Name of user who manages this object <b>Example</b> : "John"	string
<b>model_type</b> <i>optional</i>	Model type of this IPv6 object.	string
<b>monitored_by</b> <i>optional</i>	Name of the user who manages this object <b>Example</b> : "Andrew"	string
<b>name</b> <i>optional</i>	Name of the IPv6 object.	string
<b>noOfAssociation</b> <i>optional</i>		integer(int32)
<b>object_short_address</b> <i>optional</i>	IPv6 short address <b>Example</b> : "3000::"	string
<b>oldName</b> <i>optional</i>		string
<b>option_template_id</b> <i>optional</i>	DHCPv6 Option Template ID.	integer(int32)



Name	Description	Schema
<b>option_template_name</b> <i>optional</i>	Name of the DHCPv6 Option Template.	string
<b>organization_id</b> <i>optional</i>	Database ID of the organization.	integer(int32)
<b>organization_name</b> <i>required</i>	Name of the organization associated with this IPv6 object.	string
<b>room</b> <i>optional</i>	Room (placement) of this object <b>Example</b> : "6"	string
<b>rrs</b> <i>optional</i>	Collection of Resource Records associated to this IPv6 object.	< <a href="#">Resource Record</a> > array
<b>serial_num</b> <i>optional</i>	Serial Number of this IPv6 object.	string
<b>shortAddress</b> <i>optional</i>	Short IPv6 address.	string
<b>starts</b> <i>optional</i>	Lease Start time in case of a DHCPv6 Object.	string
<b>state</b> <i>optional</i>	State of the location.	string
<b>street1</b> <i>optional</i>	Street-1 of the location. <b>Example</b> : "Lane-1"	string
<b>street2</b> <i>optional</i>	Street-2 of the location.	string
<b>subnet_address</b> <i>required</i>	Subnet address to which the IPv6 object belongs to.	string
<b>subnet_id</b> <i>required</i>	Database ID of the subnet associated to this IPv6 object.	integer(int32)
<b>subnet_name</b> <i>optional</i>	Name of the subnet to which object associated to <b>Example</b> : "v6subnet-5689"	string
<b>terminal_server_kvm</b> <i>optional</i>	Terminal Server for this object <b>Example</b> : "10.0.0.5"	string
<b>ttl</b> <i>optional</i>	Time to live for this IPv6 object.	integer(int32)
<b>update_ns_aaaa</b> <i>required</i>	Dynamic update DNS with the AAAA records.	boolean
<b>update_ns_ptr</b> <i>required</i>	Dynamic update DNS with PTR records.	boolean
<b>updated_by_name</b> <i>optional</i>	Name of the user who updated this IPv6 object.	string
<b>updated_time</b> <i>optional</i>	Name of the user who created this IPv6 object.	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String instance of the updated time.	string
<b>v6addr</b> <i>optional</i>	IPv6 object address	string
<b>zip</b> <i>required</i>	Zip code of the location. <b>Example</b> : "3001"	string

### 5.187. Idn

Type : object

### 5.188. IdracSslCert

Name	Description	Schema
<b>applianceIp</b> <i>required</i>	IP address of the appliance. <b>Example</b> : "10.1.10.244"	string
<b>applianceName</b> <i>optional</i>	Name of the appliance. <b>Example</b> : "appliance001"	string
<b>applianceType</b> <i>required</i>	Type of the appliance. <b>Example</b> : "BIND AUTH"	string
<b>idracIP</b> <i>optional</i>	iDRAC IP address of the appliance. <b>Example</b> : "10.1.10.240"	string
<b>organization</b> <i>required</i>	Name of the organization. <b>Example</b> : "TCPWave"	string

Name	Description	Schema
<b>sslCert</b> <i>optional</i>	Name of the iDRAC server certificate. This is required in upload operation. <b>Example</b> : "cert.crt"	string
<b>sslCertKey</b> <i>optional</i>	Name of the iDRAC key certificate. This is required in upload operation. <b>Example</b> : "cert.key"	string
<b>sslCertType</b> <i>optional</i>	Type of the iDRAC certificate. Specify '1' for SSL server certificate and '3' for custom signing certificate. This is required while upload and download operation. <b>Example</b> : "1"	string
<b>sslOperationResponseMessage</b> <i>optional</i>	Response message of the SSL certificate operation.	string
<b>sslOperationStatus</b> <i>optional</i>	Status of the SSL certificate operation. <b>Example</b> : "Success"	string
<b>sslPkcsPassphrase</b> <i>optional</i>	Pass phrase of the PKCS12 certificate. This is required while uploading custom signing certificate.	string

### 5.189. Import Cloud Response

This class encapsulates the response message of Import from Cloud operation on a Subnet.

Name	Description	Schema
<b>result</b> <i>required</i>	Result string contains cloud response	string

### 5.190. Import Command

This encapsulates the Import request which includes input file, output file, error file and maximum permissible errors.

Name	Description	Schema
<b>error_file</b> <i>optional</i>	Error file	string
<b>failed_entries_file</b> <i>optional</i>	File containing only failed entries	string
<b>input_file</b> <i>required</i>	input file to import	string
<b>max_permissible_errors</b> <i>optional</i>	Maximum permissible errors	integer(int32)
<b>output_file</b> <i>required</i>	output file to store result	string

### 5.191. Import Instances From Cloud Subnet

This class encapsulates the information required to import instances from a cloud subnet in the TCPWave IPAM.

Name	Description	Schema
<b>cloudProvider</b> <i>required</i>	Database ID of the cloud provider <b>Example</b> : 101	integer(int32)
<b>orgName</b> <i>required</i>	Name of the organization <b>Example</b> : "Internal"	string

### 5.192. Import Response Information

Holds the End result of an import process such as: Time taken to import, Import File path, Number of errors due to referential integrity checks etc.

Name	Description	Schema
<b>elapsed_time</b> <i>optional</i>	Total time taken to process the import	integer(int64)
<b>error_count</b> <i>optional</i>	Number of errors in an import	integer(int32)
<b>error_message</b> <i>optional</i>	Reason for the failure	string
<b>failed_rows</b> <i>optional</i>	Collection of failed rows	< <a href="#">Failed Row Information</a> > array
<b>importType</b> <i>required</i>	Import Type <b>Example</b> : "Object"	string
<b>import_command</b> <i>optional</i>	Instance that is being imported	<a href="#">Import Command</a>

Name	Description	Schema
<b>imported_rows</b> <i>optional</i>	Number of rows that have been imported successfully	integer(int32)
<b>is_success</b> <i>optional</i>	Is the import operation successful? <b>Example</b> : true	boolean
<b>responseText</b> <i>optional</i>	Return response message of the import	string
<b>success_rows</b> <i>optional</i>	Collection of success rows	< <a href="#">Failed Row Information</a> > array
<b>total_rows</b> <i>optional</i>	Number of rows that are attempted to be imported	integer(int32)

### 5.193. Import Type Information

Holds a list of predefined entities that the product can import.

Name	Description	Schema
<b>description</b> <i>optional</i>	Description of imported file	string
<b>type</b> <i>required</i>	Import file type	string

### 5.194. Internet Root Hint

This class represents an Internet Root Hint and contains the attributes necessary for Internet Root Hint management functionality in the TCPWave IPAM. The information includes the Zone Name, Name Service Record, Time To Live(TTL) Value and other Internet Root Hint related information.

Name	Description	Schema
<b>createdBy</b> <i>required</i>	Id of the User who has created the specified Internet Root Hint. <b>Example</b> : 2017	integer(int32)
<b>createdByName</b> <i>optional</i>	User Name who has created the specified Internet Root Hint. <b>Example</b> : "Stephen"	string
<b>createdTime</b> <i>optional</i>	The time instance when the specified Internet Root Hint has been created. <b>Example</b> : "03/18/2022 3:39"	string(date-time)
<b>createdTimeString</b> <i>optional</i>	String format of the time when the specified Internet Root Hint has been created. <b>Example</b> : "03/18/2022 3:39"	string
<b>description</b> <i>optional</i>	Description of the specified Internet Root Hints <b>Example</b> : "FORMERLY NS. INTERNIC.NET"	string
<b>id</b> <i>optional</i>	Id of the specified Internet Root Hint. <b>Example</b> : 23	integer(int32)
<b>ipv4</b> <i>required</i>	IPv4 Address of the specified Internet Root Hint <b>Example</b> : "198.41.0.4"	string
<b>ipv6</b> <i>required</i>	IPv6 Address of the specified Internet Root Hint <b>Example</b> : "2001:503:ba3e::2:30"	string
<b>ns</b> <i>required</i>	Name Service record of the specified Internet Root Hint <b>Example</b> : "A.ROOT-SERVERS.NET."	string
<b>ttl</b> <i>required</i>	Time To Live(TTL) value of the specified Internet Root Hint <b>Example</b> : 3600000	integer(int32)
<b>updatedBy</b> <i>required</i>	Id of the User who has modified the specified Internet Root Hint. <b>Example</b> : 2019	integer(int32)
<b>updatedByName</b> <i>optional</i>	User Name who has modified the specified Internet Root Hint. <b>Example</b> : "John"	string
<b>updatedTime</b> <i>optional</i>	The time instance when the specified Internet Root Hint has been modified. <b>Example</b> : "03/18/2022 4:37"	string(date-time)
<b>updatedTimeString</b> <i>optional</i>	String format of the time when the specified Internet Root Hint has been modified. <b>Example</b> : "03/18/2022 4:37"	string
<b>zoneName</b> <i>required</i>	Root zone name of specified Internet Root Hint <b>Example</b> : "."	string

### 5.195. InternetRootHints Sync

This class represents an Internet root hint and contains the attributes necessary for Internet root hint Sync functionality in the TCPWave IPAM. The information includes the Organization Name & Server List.

Name	Description	Schema

Name	Description	Schema
<b>organization_name</b> <i>required</i>	Name of an Organization. <b>Example</b> : "tcpwave"	string
<b>serversInfo</b> <i>required</i>	Array list of InternetRootHint SyncInfo objects of an InternetRootHint that contains the server IP address, server name and other sync related information.	< <a href="#">InternetRootHints Sync Information</a> > array

### 5.196. InternetRootHints Sync Information

InternetRootHintsSyncInfo bean class encapsulates the attributes like organization name and other information related to InternetRootHints Sync.

Name	Description	Schema
<b>isSyncSuccess</b> <i>optional</i>	States if InternetRootHint sync is successful or not. <b>Example</b> : false	boolean
<b>serverIP</b> <i>required</i>	IPV4 Address which is associated with the specified Server. <b>Example</b> : "192.1.10.200"	string
<b>serverName</b> <i>required</i>	Name of a DNS Server. <b>Example</b> : "nusr tx-est015-s109113"	string

### 5.197. Intrusion Provision System Rule

This class represents a rule definition which can be used for intrusion detection and prevention.

Name	Description	Schema
<b>action</b> <i>required</i>	Action of the IPS Rule. <b>Example</b> : "drop"	string
<b>classtype</b> <i>required</i>	Classtype of the IPS Rule. <b>Example</b> : "pup-activity"	string
<b>destination_ip</b> <i>required</i>	Destination IP address of the IPS Rule. <b>Example</b> : "172.16.0.20"	string
<b>destination_port</b> <i>required</i>	Destination port of the IPS Rule. <b>Example</b> : "53"	string
<b>id</b> <i>required</i>	ID of IPS Rule.	integer(int32)
<b>message</b> <i>required</i>	Message of the IPS Rule. <b>Example</b> : "(msg:\"TCPWAVE DNS TITAN This is a drop query test\"; dns_query; content:\"www.drop.com\"; depth:14; fast_pattern; endswith; nocase; rev:33;)"	string
<b>protocol</b> <i>required</i>	Protocol of the IPS Rule. <b>Example</b> : "dns"	string
<b>ruleDefinition</b> <i>required</i>	Definition of IPS Rule.	string
<b>signature_id</b> <i>required</i>	Signature Id of the IPS Rule. <b>Example</b> : 123	integer(int32)
<b>source_ip</b> <i>required</i>	Source IP address of the IPS Rule. <b>Example</b> : "192.168.0.20"	string
<b>source_port</b> <i>required</i>	Source port of the IPS Rule. <b>Example</b> : "229"	string
<b>status</b> <i>required</i>	Status of the IPS Rule. <b>Example</b> : true	boolean
<b>templateId</b> <i>required</i>	Template ID in which specified IPS Rules defined	integer(int32)

### 5.198. IntrusionPreventionAlerts

Name	Description	Schema
<b>applianceAddress</b> <i>optional</i>		string
<b>count</b> <i>optional</i>		integer(int32)
<b>date</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int32)
<b>optionType</b> <i>optional</i>		string
<b>optionValue</b> <i>optional</i>		string

Name	Description	Schema
<b>time</b> <i>optional</i>		string
<b>timeStamp</b> <i>optional</i>		string

### 5.199. IpPermission

Name	Description	Schema
<b>fromPort</b> <i>optional</i>		integer(int32)
<b>ipProtocol</b> <i>optional</i>		string
<b>ipRanges</b> <i>optional</i>		< string > array
<b>ipv4Ranges</b> <i>optional</i>		< <a href="#">IpRange</a> > array
<b>ipv6Ranges</b> <i>optional</i>		< <a href="#">Ipv6Range</a> > array
<b>prefixListIds</b> <i>optional</i>		< <a href="#">PrefixListId</a> > array
<b>toPort</b> <i>optional</i>		integer(int32)
<b>userIdGroupPairs</b> <i>optional</i>		< <a href="#">UserIdGroupPair</a> > array

### 5.200. IpRange

Name	Description	Schema
<b>cidrIp</b> <i>optional</i>		string
<b>description</b> <i>optional</i>		string

### 5.201. Ipv6Range

Name	Description	Schema
<b>cidrIpv6</b> <i>optional</i>		string
<b>description</b> <i>optional</i>		string

### 5.202. Job data for scheduling operation.

This bean encapsulates the information needed to execute the operation when it is scheduled.

Name	Description	Schema
<b>data</b> <i>optional</i>	Scheduled job details	string
<b>entity</b> <i>optional</i>	Entity type for scheduled operation <b>Example</b> : "zone"	string
<b>extensiondata</b> <i>optional</i>	Extension details	string
<b>operation</b> <i>optional</i>	Type of scheduled operation <b>Example</b> : "true"	string
<b>userIP</b> <i>optional</i>	IP address of the system from which operation is scheduled <b>Example</b> : "192.168.0.139"	string
<b>userId</b> <i>optional</i>	Database id of the user <b>Example</b> : 1225	integer(int32)

### 5.203. KerberosConfSections

Name	Description	Schema
<b>appdefaults</b> <i>optional</i>	Contents of the appdefaults section in the Kerberos configuration file.	< string, string > map
<b>capaths</b> <i>optional</i>	Contents of the capaths section in the Kerberos configuration file.	< string, string > map
<b>domain_realm</b> <i>optional</i>	Contents of the domain_realm section in the Kerberos configuration file.	< string, string > map

Name	Description	Schema
<b>libdefaults</b> <i>optional</i>	Contents of the libdefaults section in the Kerberos configuration file.	< string, string > map
<b>logging</b> <i>optional</i>	Contents of the logging section in the Kerberos configuration file.	< string, string > map
<b>plugins</b> <i>optional</i>	Contents of the plugins section in the Kerberos configuration file.	< string, string > map
<b>realms</b> <i>optional</i>	Contents of the realms section in the Kerberos configuration file.	< string, string > map

#### 5.204. KerberosKeytabData

Name	Description	Schema
<b>encryptionType</b> <i>optional</i>	Encryption type of the keytab entry.	string
<b>kvNo</b> <i>optional</i>	KVNO of the keytab file entry.	string
<b>principle</b> <i>optional</i>	Principle of the keytab file entry.	string
<b>slot</b> <i>optional</i>	Slot of the keytab entry.	string
<b>timestamp</b> <i>optional</i>	Timestamp of the keytab file entry.	string

#### 5.205. Last sync status

Fetches the last sync status information of DNS/DHCP Appliances in the TCPWave IPAM

Name	Description	Schema
<b>ip</b> <i>required</i>	Get server IP Address <b>Example</b> : "10.1.1.23"	string
<b>last_updated</b> <i>required</i>	Get last updated time <b>Example</b> : "2022-01-18 16:11:30"	string
<b>name</b> <i>required</i>	Get server name <b>Example</b> : "nsuax"	string
<b>scode</b> <i>required</i>	Get server type <b>Example</b> : "DHCP"	string
<b>status</b> <i>required</i>	Get server sync status <b>Example</b> : "nsuax"	string
<b>status_msg</b> <i>required</i>	Get last sync status message <b>Example</b> : "Sync successful for DNS Appliance: 10.1.1.23"	string
<b>syncDuration</b> <i>optional</i>		string
<b>synctime</b> <i>required</i>	Get last sync time <b>Example</b> : "2022-01-18 16:11:30"	string

#### 5.206. License Data

This class represents the License information of IPAM server.

Name	Description	Schema
<b>cust</b> <i>optional</i>		string
<b>custId</b> <i>optional</i>		string
<b>daysToExpiry</b> <i>optional</i>		integer(int32)
<b>expiry</b> <i>optional</i>		string(date-time)
<b>expiryString</b> <i>optional</i>		string
<b>gsIbEnabled</b> <i>optional</i>		boolean
<b>haEnabled</b> <i>optional</i>		boolean
<b>ip</b> <i>optional</i>		string

Name	Description	Schema
<b>isPermanent</b> <i>optional</i>		boolean
<b>licenseValid</b> <i>optional</i>		string
<b>major_version</b> <i>optional</i>		string
<b>maxIPs</b> <i>optional</i>		integer(int32)
<b>minor_version</b> <i>optional</i>		string
<b>serviceTag</b> <i>optional</i>		string
<b>titanEus</b> <i>optional</i>		<a href="#">TitanEndUserSecurity</a>

### 5.207. LicenseData

Name	Description	Schema
<b>cust</b> <i>optional</i>		string
<b>cust_id</b> <i>optional</i>		string
<b>daysToExpiry</b> <i>optional</i>		integer(int32)
<b>expiry</b> <i>optional</i>		string(date-time)
<b>expiryString</b> <i>optional</i>		string
<b>ip</b> <i>optional</i>		string
<b>isPermanent</b> <i>optional</i>		boolean
<b>licenseExpired</b> <i>optional</i>		boolean
<b>licenseHostValid</b> <i>optional</i>		boolean
<b>licensePresent</b> <i>optional</i>		boolean
<b>licenseValid</b> <i>optional</i>		boolean
<b>major_version</b> <i>optional</i>		string
<b>minor_version</b> <i>optional</i>		string
<b>serverType</b> <i>optional</i>		integer(int32)
<b>serviceTag</b> <i>optional</i>		string
<b>serviceTagValid</b> <i>optional</i>		boolean
<b>status</b> <i>optional</i>		string

### 5.208. Location References

This class represents the Subnets which are associated to a location in the TCPWave IPAM.

Name	Description	Schema
<b>subnet</b> <i>required</i>	Subnet	<a href="#">Subnet</a>

### 5.209. Locations

Holds the information that is relevant to a location such as the street address, city, state , zip code etc.

Name	Description	Schema

Name	Description	Schema
<b>city</b> <i>required</i>	City of the location <b>Example</b> : "WARNERTOWN"	string
<b>country</b> <i>required</i>	Country of the location <b>Example</b> : "Australia"	string
<b>created_by_name</b> <i>optional</i>	Name of the user who created the location <b>Example</b> : "admin"	string
<b>created_time</b> <i>optional</i>	Date and time of the creation of the entity	string(date-time)
<b>created_time_string</b> <i>optional</i>	String instance of the updated time	string
<b>full_location</b> <i>optional</i>	Complete address which contains Street 1, Street2, City, State, Country, ZIP code etc. <b>Example</b> : "22 Main street, Opp. white mall, WARNERTOWN, Sydney, Australia-5540"	string
<b>id</b> <i>optional</i>	Database ID of the location <b>Example</b> : 22	integer(int32)
<b>new_city</b> <i>required</i>	New City of the location to update <b>Example</b> : "Toronto"	string
<b>new_country</b> <i>required</i>	New Country of the location to update <b>Example</b> : "Canada"	string
<b>new_state</b> <i>required</i>	New State of the location to update <b>Example</b> : "Ontario"	string
<b>new_street1</b> <i>required</i>	New Street 1 of the location to update <b>Example</b> : "32 Main street"	string
<b>new_street2</b> <i>required</i>	New Street 2 of the location to update <b>Example</b> : "Opp. Red Bungalow"	string
<b>new_zip</b> <i>required</i>	New Zip code of the location to update <b>Example</b> : "6580"	string
<b>organization_id</b> <i>optional</i>	Organization ID of the location <b>Example</b> : 3401	integer(int32)
<b>organization_name</b> <i>required</i>	Organization name of the location <b>Example</b> : "QAOrg"	string
<b>state</b> <i>required</i>	State of the location <b>Example</b> : "Sydney"	string
<b>street1</b> <i>required</i>	Street 1 of the location <b>Example</b> : "22 Main street"	string
<b>street2</b> <i>required</i>	Street 2 of the location <b>Example</b> : "Opp. white mall"	string
<b>updated_by_name</b> <i>optional</i>	Name of the user who updated the location <b>Example</b> : "admin"	string
<b>updated_time</b> <i>optional</i>	Date and time of updating the entity	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String instance of the created time	string
<b>zip</b> <i>required</i>	Zip code of the location <b>Example</b> : "5540"	string

### 5.210. Log

This class contains detailed Information about logs. The information includes the hostname, log message and file name.

Name	Description	Schema
<b>date</b> <i>required</i>	Date and time of the log generation. <b>Example</b> : "2022-03-04 6:16:29"	string
<b>file_name</b> <i>required</i>	Name of file to which the log belongs to. <b>Example</b> : "/opt/tcpwave/logs/Tims.log"	string
<b>hostName</b> <i>required</i>	Name of the system where the log is generated. <b>Example</b> : "COMMON-DEVELOPER-IPAM"	string
<b>message</b> <i>required</i>	Log message. <b>Example</b> : "Domain tcpwave.com has been created successfully."	string

### 5.211. Logger

This class represents the Log category information and different log channels.

Type : object



### 5.212. Logger Category

This class contains Logger Category information. The information includes the Id, Name and its description.

Name	Description	Schema
<b>category</b> <i>required</i>	Specific class of the specified Log Category. <b>Example</b> : "Client"	string
<b>description</b> <i>required</i>	Description of the specified Log Category. <b>Example</b> : "Processing of client requests."	string
<b>id</b> <i>optional</i>	Id of the specified Log Category. <b>Example</b> : 13	integer(int32)

### 5.213. Logger Channel

This class contains detailed information about Log Channel. This includes log channel name, type, versions, severity and debug level etc.

Name	Description	Schema
<b>channel</b> <i>required</i>	Name of the specified Log Channel. <b>Example</b> : "named"	string
<b>created_by_name</b> <i>required</i>	User Name who has created the specified Log Channel. <b>Example</b> : "Stephen"	string
<b>created_time</b> <i>required</i>	The time instance when the specified Log Channel has been created. <b>Example</b> : "03/18/2022 3:39"	string(date-time)
<b>created_time_string</b> <i>required</i>	String format of the time when the specified Access Control List has been created. <b>Example</b> : "03/18/2022 3:39"	string
<b>debug_level</b> <i>required</i>	Debug level of a log channel. <b>Example</b> : 0	integer(int32)
<b>facility</b> <i>required</i>	The facility argument is used to specify what type of program is logging the message. <b>Example</b> : "syslog"	string
<b>file_path</b> <i>required</i>	File is the absolute path to the logging file. <b>Example</b> : "/var/named/log/named.log"	string
<b>id</b> <i>optional</i>	Id of the specified Log Channel. <b>Example</b> : 21	integer(int32)
<b>print_category</b> <i>required</i>	Controls whether the severity level is written to the output channel (true) or not (false). <b>Example</b> : true	boolean
<b>print_severity</b> <i>required</i>	Controls whether the severity level is written to the output channel (true) or not (false). <b>Example</b> : true	boolean
<b>print_time</b> <i>required</i>	Controls whether the date and time are written to the output channel (true) or not (false). <b>Example</b> : true	boolean
<b>severity</b> <i>required</i>	Controls the logging levels and takes the values defined (0(dynamic), 1(debug), 2(info), 3(notice), 4(warning), 5(error), 6(critical)). <b>Example</b> : 1	integer(int32)
<b>severity_text</b> <i>required</i>	String format of the severity value. <b>Example</b> : "debug"	string
<b>size</b> <i>required</i>	Size allows you to define a limit to the file size created. <b>Example</b> : 1024000	integer(int32)
<b>special_channel</b> <i>required</i>	This parameter is used to specify whether the channel is a special channel or user defined channel. <b>Example</b> : false	boolean
<b>type</b> <i>required</i>	Type of the specified Log Channel. Type can be 0(FILE), 1(SYSLOG), 2(STDERR), 3(NULL) <b>Example</b> : 0	integer(int32)
<b>type_string</b> <i>required</i>	String format of type for the specified Log Channel. <b>Example</b> : "SYSLOG/FILE/STDERR/ NULL"	string
<b>updated_by_name</b> <i>required</i>	User Name who has modified the specified Log Channel. <b>Example</b> : "John"	string
<b>updated_time</b> <i>required</i>	The time instance when the specified Log Channel has been modified. <b>Example</b> : "03/18/2022 4:37"	string(date-time)
<b>updated_time_string</b> <i>required</i>	String format of the time when the specified Access Control List has been modified. <b>Example</b> : "03/18/2022 4:37"	string
<b>versions</b> <i>required</i>	Versions takes the parameter 'number' and defines the number of file versions that should be kept by BIND. <b>Example</b> : 6	integer(int32)

### 5.214. Logs Information

Encapsulates the live logs retrieved from a Remote DNS/DHCP Appliance in a format that can be loaded onto a data grid.

Name	Description	Schema
<b>category</b> <i>optional</i>	Log category	string
<b>classification</b> <i>optional</i>	Classification about the log. <b>Example:</b> "This log gives classifications details. Example: Generic Protocol Command Decode"	string
<b>description</b> <i>optional</i>	Description about the log. <b>Example:</b> "This log gives lease details."	string
<b>destinationIP</b> <i>optional</i>	DestinationIP about the log. <b>Example:</b> "This log gives destination IP Address details."	string
<b>destinationPort</b> <i>optional</i>		string
<b>dgaFamily</b> <i>optional</i>		string
<b>id</b> <i>optional</i>	Database Id of the log. <b>Example:</b> "112"	string
<b>leaseenddate</b> <i>optional</i>	DHCP lease end date	string
<b>leasestartdate</b> <i>optional</i>	DHCP lease start date	string
<b>logData</b> <i>optional</i>	Log information fetched from the server	string
<b>macaddress</b> <i>optional</i>	Mac Address of leased DHCP server	string
<b>priority</b> <i>optional</i>	Priority about the log. <b>Example:</b> "This log gives priority details."	string
<b>protocol</b> <i>optional</i>	Protocol about the log. <b>Example:</b> "This log gives protocol details."	string
<b>serverIP</b> <i>optional</i>	IP Address of remote appliance	string
<b>severity</b> <i>optional</i>	Severity level of log	string
<b>sourceIP</b> <i>optional</i>	SourceIP about the log. <b>Example:</b> "This log gives source IP Address details."	string
<b>sourcePort</b> <i>optional</i>		string
<b>type</b> <i>optional</i>	Type of remote appliance	string
<b>zoneName</b> <i>optional</i>		string

### 5.215. MAC Addresses Information

Represents the MAC Addresses and their descriptions that are blackholed/excluded from a given DHCP Appliance.

Name	Description	Schema
<b>macAddress</b> <i>optional</i>	MAC Address to be blacklisted for a given DHCP Appliance	string
<b>macDescription</b> <i>optional</i>	Reason/Description for the blacklisted mac address	string

### 5.216. MS DNS Logs Wrapper

This class represents Microsoft DNS Appliance logs in the TCPWave IPAM.

Name	Description	Schema
<b>category</b> <i>optional</i>		string
<b>date</b> <i>optional</i>		string
<b>log</b> <i>optional</i>		string
<b>seviarity</b> <i>optional</i>		string

Name	Description	Schema
<b>source</b> <i>optional</i>		string
<b>type</b> <i>optional</i>		string

### 5.217. ManagedZonesInfo

Name	Description	Schema
<b>addedAliasRRs</b> <i>optional</i>		< <a href="#">CloudRR</a> > array
<b>addedNormalRRs</b> <i>optional</i>		< <a href="#">CloudRR</a> > array
<b>arecs</b> <i>optional</i>		< string > array
<b>deletedAliasRRs</b> <i>optional</i>		< <a href="#">CloudRR</a> > array
<b>deletedNormalRRs</b> <i>optional</i>		< <a href="#">Resource Record</a> > array

### 5.218. Mask Length

For internal use only - Maps the mask length to the Mask Bits.

Type : object

### 5.219. Microsoft DHCP Exclusion range Information

Persists the attributes of DHCP Exclusion range such as start address, end address, subnet address, network address, organization, DHCP Appliance etc.

Name	Description	Schema
<b>created_by_login_name</b> <i>optional</i>	Login name of the user who created the entity <b>Example</b> : "twcadm"	string
<b>created_time</b> <i>optional</i>	Date and Time of creation of the entity	string(date-time)
<b>created_time_string</b> <i>optional</i>	String instance of the created time	string
<b>description</b> <i>optional</i>	Description for the Exclusion range	string
<b>dhcpServerAddress</b> <i>required</i>	Name of the DHCP Appliance <b>Example</b> : "10.1.0.180"	string
<b>organizationName</b> <i>required</i>	Name of the organization <b>Example</b> : "Internal"	string
<b>subnetAddress</b> <i>required</i>	Subnet Address of the network <b>Example</b> : "10.1.0.0"	string
<b>updated_by_login_name</b> <i>optional</i>	Login name of the user who updated the entity <b>Example</b> : "twcadm"	string
<b>updated_time</b> <i>optional</i>	Date and Time of update of the entity	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String instance of the updated time	string

### 5.220. Microsoft Server Information

Server bean class encapsulates the attributes of a generic windows server. This class represents the properties that are common to both windows DNS and DHCP Sever.

Name	Description	Schema
<b>auto_sync_interval</b> <i>optional</i>	This value represents Auto sync interval of the Microsoft appliance. It accepts a value between 2 and 240. <b>Example</b> : 10	integer(int32)
<b>created_by</b> <i>required</i>	Id of the User who has created the specified Server. <b>Example</b> : 2017	integer(int32)
<b>created_by_name</b> <i>optional</i>	Name of the User who has created the specified Server. <b>Example</b> : "Stephen"	string
<b>created_time</b> <i>optional</i>	The time instance when the specified Server has been created. <b>Example</b> : "03/18/2022 3:39"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified Server is created. <b>Example</b> : "03/18/2022 3:39"	string

Name	Description	Schema
<b>description</b> <i>optional</i>	Description for the Specified appliance. <b>Example</b> : "DNS appliance added by the TCPWave IPAM by Professional Services."	string
<b>domain_name</b> <i>required</i>	Name of the domain associated to the specified IP address <b>Example</b> : "test.com"	string
<b>folderName</b> <i>optional</i>		string
<b>httpsEnabled</b> <i>optional</i>	This value represents if HTTPS connection is enabled to connect to the Microsoft appliance. It accepts either 1 or 0. <b>Example</b> : 1	integer(int32)
<b>id</b> <i>optional</i>	Id of the specified server. <b>Example</b> : 121	integer(int32)
<b>isAlive</b> <i>optional</i>	True/false describes the status of the specified appliance <b>Example</b> : false	boolean
<b>isSplitBrainConf</b> <i>optional</i>	This value represents either Split brain is configured on the Microsoft appliance or not. It accepts 0 or 1. <b>Example</b> : 0	integer(int32)
<b>is_auto_sync_enabled</b> <i>optional</i>	This value represents if Auto sync is enabled on the Microsoft appliance. It accepts either yes or no. <b>Example</b> : "yes"	string
<b>monitoringService</b> <i>required</i>	Defines if monitoring is enabled or disabled for the specified server. <b>Example</b> : "Yes"	string
<b>newPassword</b> <i>optional</i>	New updated password <b>Example</b> : "abc1234"	string
<b>oldWindowsUserName</b> <i>optional</i>		string
<b>old_server_ip</b> <i>optional</i>	Previous appliance IP Address <b>Example</b> : "10.0.1.8"	string
<b>organization_name</b> <i>required</i>	Name of the Organization which is associated to the specified Server. <b>Example</b> : "EARTH"	string
<b>password</b> <i>required</i>	Password for the Microsoft appliance <b>Example</b> : "abc123"	string
<b>read_write_option</b> <i>optional</i>	This value represents either Read or Read and Write operations can be performed on the Microsoft appliance. It accepts 0 or 1. <b>Example</b> : 1	integer(int32)
<b>server_ip</b> <i>required</i>	Address which is associated with the specified Server. <b>Example</b> : "10.1.10.45"	string
<b>server_name</b> <i>required</i>	Name of the specified Server. <b>Example</b> : "WIND-est015-s109113"	string
<b>server_type</b> <i>required</i>	Type of the specified Server. <b>Example</b> : "MSDHCP"	string
<b>updated_by</b> <i>required</i>	Id of the User who has modified the specified Server. <b>Example</b> : 1145	integer(int32)
<b>updated_by_name</b> <i>optional</i>	Name of the User who has modified the specified Server. <b>Example</b> : "John"	string
<b>updated_time</b> <i>optional</i>	The time instance when the specified Server has been modified. <b>Example</b> : "03/18/2022 4:37"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified Server is modified. <b>Example</b> : "03/18/2022 4:37"	string
<b>windows_user_name</b> <i>required</i>	User name of the specified Server. <b>Example</b> : "Administrator"	string

### 5.221. MicrosoftActiveUsers

Name	Description	Schema
<b>domain</b> <i>optional</i>		string
<b>domaincontroller</b> <i>optional</i>		string
<b>firstSeen</b> <i>optional</i>		string
<b>first_name</b> <i>optional</i>		string
<b>fqdn</b> <i>optional</i>		string

Name	Description	Schema
<b>ipAddr</b> <i>optional</i>		string
<b>isAnomaly</b> <i>optional</i>		string
<b>lastSeen</b> <i>optional</i>		string
<b>lastUpdated</b> <i>optional</i>		string
<b>last_name</b> <i>optional</i>		string
<b>mac</b> <i>optional</i>		string
<b>name</b> <i>optional</i>		string
<b>userName</b> <i>optional</i>		string
<b>whenChanged</b> <i>optional</i>		string
<b>whenCreated</b> <i>optional</i>		string

### 5.222. Mirrored Zones

This class represents a Mirrored Zone and contains the attributes necessary for mirrored zone management functionality in the TCPWave IPAM. The information includes the Zone id, Organization id, Mirrored zone name and other Mirrored zone related information.

Name	Description	Schema
<b>created_by_login_name</b> <i>optional</i>	Name of the user who created this mirrored zone	string
<b>description</b> <i>optional</i>	Description of the mirrored zone <b>Example</b> : "Description of Mirrored Zones."	string
<b>id</b> <i>optional</i>	Database id of the mirrored zone <b>Example</b> : 23	integer(int32)
<b>mirror_name</b> <i>optional</i>	Name of the specified Mirrored Zone. <b>Example</b> : "zone.com"	string
<b>mirrored_zone_list</b> <i>required</i>	Comma separated list of Mirrored Zone names. <b>Example</b> : "example.com,mirror.com"	string
<b>old_description</b> <i>optional</i>	Description of the mirrored zone <b>Example</b> : "This is the mirrored zone for the zone domain.com."	string
<b>old_mirror_name</b> <i>optional</i>	Name of the mirrored zone. <b>Example</b> : "zone.com"	string
<b>org_id</b> <i>optional</i>	Database ID of the organization <b>Example</b> : 12	integer(int32)
<b>org_name</b> <i>optional</i>	Name of the organization <b>Example</b> : "Org"	string
<b>updated_by_login_name</b> <i>optional</i>	Name of the user who updated this mirrored zone	string
<b>zone_id</b> <i>required</i>	Id of the specified Mirrored Zone. <b>Example</b> : 10	integer(int32)
<b>zone_name</b> <i>optional</i>	Name of the zone. <b>Example</b> : "zone.com"	string

### 5.223. Module

This class represents status of the TCPWave IPAM sub components such as search server, CLI Engine, Database Engine, Discovery Engine, Monitoring Engine, Scheduler.

Name	Description	Schema
<b>cli</b> <i>required</i>	CLI Engine status <b>Example</b> : "ACTIVE"	integer(int32)
<b>cli_S</b> <i>required</i>	CLI Engine status <b>Example</b> : "ACTIVE"	string
<b>database</b> <i>required</i>	Database Engine status <b>Example</b> : "ACTIVE"	integer(int32)

Name	Description	Schema
<b>database_S</b> <i>required</i>	DatabaseEngine status <b>Example</b> : "ACTIVE"	string
<b>dhcp</b> <i>required</i>	DHCP Appliance status <b>Example</b> : "ACTIVE"	integer(int32)
<b>dhcp_S</b> <i>required</i>	DHCP Appliance status <b>Example</b> : "ACTIVE"	string
<b>dns</b> <i>required</i>	DNS Appliance status <b>Example</b> : "ACTIVE"	integer(int32)
<b>dns_S</b> <i>required</i>	DNS Appliance status <b>Example</b> : "ACTIVE"	string
<b>ipam</b> <i>required</i>	IPAM server status <b>Example</b> : "ACTIVE"	integer(int32)
<b>ipam_S</b> <i>required</i>	IPAM server status <b>Example</b> : "ACTIVE"	string
<b>monitoringengine</b> <i>required</i>	Monitoring Engine status <b>Example</b> : "ACTIVE"	integer(int32)
<b>monitoringengine_S</b> <i>required</i>	Monitoring Engine status <b>Example</b> : "ACTIVE"	string
<b>scheduler</b> <i>required</i>	Scheduler status <b>Example</b> : "ACTIVE"	integer(int32)
<b>scheduler_S</b> <i>required</i>	Scheduler status <b>Example</b> : "ACTIVE"	string
<b>search</b> <i>required</i>	Search server status <b>Example</b> : "ACTIVE"	integer(int32)
<b>search_S</b> <i>required</i>	Search server status <b>Example</b> : "ACTIVE"	string

#### 5.224. MonitRCParams

Name	Description	Schema
<b>anomalyDetection</b> <i>optional</i>		boolean
<b>enableDiscovery</b> <i>optional</i>		boolean
<b>enableTLS</b> <i>optional</i>		boolean
<b>routingMechanisms</b> <i>optional</i>		< string > array
<b>suricata</b> <i>optional</i>		boolean
<b>systemResourcesOptions</b> <i>optional</i>		string
<b>types</b> <i>optional</i>		< string > array
<b>zeek</b> <i>optional</i>		boolean

#### 5.225. Monitor Information

This class provides the service monitoring information. The information includes the host types and services that are being monitored

Name	Description	Schema
<b>bindAuth</b> <i>required</i>	Enable monitoring on BIND Authoritative Servers <b>Example</b> : "true/false"	string
<b>bindCache</b> <i>required</i>	Enable monitoring on BIND Cache Servers <b>Example</b> : "true/false"	string
<b>category</b> <i>optional</i>	Category of the Monitoring Service <b>Example</b> : "Appliance Components"	string
<b>createdBy</b> <i>optional</i>	Database Id of a user who created the Monitoring Service. <b>Example</b> : 1	integer(int32)
<b>createdByName</b> <i>optional</i>	Name of the user who created the Monitoring Service. <b>Example</b> : "User1"	string
<b>createdTime</b> <i>optional</i>	Monitoring Service creation time. <b>Example</b> : "06:57:00 03-10-2022"	string(date-time)

Name	Description	Schema
<b>createdTimeString</b> <i>optional</i>	Created time of a Monitoring Service in String format. <b>Example</b> : "06:57:00 03-01-2022"	string
<b>created_by_login_name</b> <i>optional</i>	Login Name of a user who created a Monitoring Service. <b>Example</b> : "admin"	string
<b>criticalThresholdVal</b> <i>required</i>	Critical Threshold Value <b>Example</b> : "70"	string
<b>dhcp</b> <i>required</i>	Enable monitoring on DHCP Appliances <b>Example</b> : "true/false"	string
<b>disableAlertFromString</b> <i>optional</i>	Disable monitoring of the service from the specified time. <b>Example</b> : "2022-02-13 12:00:00"	string
<b>disableAlertToString</b> <i>optional</i>	Disable monitoring of the service till the specified time. <b>Example</b> : "2022-02-13 12:00:00"	string
<b>enableAlertAck</b> <i>required</i>	Enable Alert Acknowledgment, Should be specified as 1 or 0 <b>Example</b> : "1"	string
<b>enableCritical</b> <i>optional</i>	Get Critical alerts flag, Should be specified 0 or 1 <b>Example</b> : "1"	string
<b>enableFlapping</b> <i>required</i>	Enable Flapping, Should be specified as 1 or 0 <b>Example</b> : "1"	string
<b>enableUnknown</b> <i>optional</i>	Get Unknown alerts flag, Should be specified 0 or 1 <b>Example</b> : "0"	string
<b>enableWarning</b> <i>optional</i>	Get Warning alerts flag, Should be specified 0 or 1 <b>Example</b> : "1"	string
<b>gslb</b> <i>required</i>	Enable monitoring on GSLB appliances <b>Example</b> : "true/false"	string
<b>ipam</b> <i>required</i>	Enable monitoring on IPAM Servers <b>Example</b> : "true/false"	string
<b>nsdAuth</b> <i>optional</i>	If the value is 1, NSD service on authoritative appliance will be monitored. Otherwise, it will not be monitored. <b>Example</b> : "1"	string
<b>scheduledDownTime</b> <i>optional</i>	Scheduled down time of the monitoring service. <b>Example</b> : "03/01/2022 12:00:00"	string(date-time)
<b>serviceDescription</b> <i>required</i>	Description of each service <b>Example</b> : "Monitor the % CPU of all host types"	string
<b>serviceId</b> <i>required</i>	ID of this monitoring service <b>Example</b> : 1	integer(int32)
<b>serviceName</b> <i>required</i>	Monitoring service name which is being monitored by host groups <b>Example</b> : "SYSTEM_CPU"	string
<b>unboundCache</b> <i>required</i>	Enable monitoring on Unbound Cache Servers <b>Example</b> : "true/false"	string
<b>updatedBy</b> <i>optional</i>	Database Id of a user who updated the Monitoring Service last time. <b>Example</b> : 1	integer(int32)
<b>updatedByName</b> <i>optional</i>	Name of the user who updated the Monitoring Service last time. <b>Example</b> : "User1"	string
<b>updatedAt</b> <i>optional</i>	Last updated time of a Monitoring Service. <b>Example</b> : "08:34:00 03-01-2022"	string(date-time)
<b>updatedAtString</b> <i>optional</i>	Updated time of a Monitoring Service in String format. <b>Example</b> : "08:34:00 03-01-2022"	string
<b>updated_by_login_name</b> <i>optional</i>	Login Name of a user who updated a Monitoring Service. <b>Example</b> : "admin"	string
<b>userScriptPath</b> <i>optional</i>		string
<b>warningThresholdVal</b> <i>required</i>	Warning Threshold Value <b>Example</b> : "50"	string

## 5.226. Monitored devices

Fetches the monitoring information of DNS/DHCP Appliances in the TCPWave IPAM

Name	Description	Schema
<b>alerts</b> <i>required</i>	Get the current alerts for monitored device <b>Example</b> : 5	integer(int32)
<b>ip</b> <i>required</i>	Get monitored device IP address <b>Example</b> : "172.31.11.23"	string
<b>isAlive</b> <i>required</i>	Get the status of an appliance <b>Example</b> : true	boolean

Name	Description	Schema
<b>mservice</b> <i>required</i>	Get monitoring service <b>Example</b> : "172.31.11.24"	string
<b>name</b> <i>required</i>	Get monitored device name <b>Example</b> : "nsuax"	string
<b>organizationName</b> <i>optional</i>	Organization Name <b>Example</b> : "TCPWave"	string
<b>threshold</b> <i>required</i>	Get the number of monitoring thresholds <b>Example</b> : 35	integer(int32)
<b>traps</b> <i>required</i>	Get the traps sent <b>Example</b> : 5	integer(int32)
<b>type</b> <i>required</i>	Get monitored device type <b>Example</b> : "DHCP"	string

### 5.227. Monitoring Details

This class provides the alert information viz. Ok, Critical, Warning and Unknown for all the services monitored for a specific host types.

Type : object

### 5.228. Monitoring Service Information

Service encapsulates the attributes that pertain to a monitoring service such as the service name address, host address, host name, alert units, critical threshold, warning threshold of the monitoring service etc.

Name	Description	Schema
<b>acknowledge_id</b> <i>optional</i>	Acknowledge ID	string
<b>acknowledge_status</b> <i>optional</i>	Acknowledge Status <b>Example</b> : "no"	string
<b>acknowledge_time</b> <i>optional</i>	Acknowledge Time	string
<b>acknowledged_by</b> <i>optional</i>	Acknowledge By	string
<b>alertUnits</b> <i>optional</i>	Alerts Units	string
<b>attempts</b> <i>optional</i>	Attempts to be performed	string
<b>autoAck</b> <i>optional</i>	Auto Acknowledgment	string
<b>category</b> <i>optional</i>	Notification Category <b>Example</b> : "TOTAL_USED_RAM"	string
<b>criticalThreshold</b> <i>optional</i>	Critical Threshold Value	string
<b>data</b> <i>optional</i>	Data	string
<b>end_time</b> <i>optional</i>	End Time <b>Example</b> : "2022-01-20 12:40:41"	string
<b>hostName</b> <i>optional</i>	Host Name <b>Example</b> : "TCPWaveRemote"	string
<b>host_address</b> <i>required</i>	Host Address <b>Example</b> : "192.168.2.215"	string
<b>host_type</b> <i>required</i>	Server Type <b>Example</b> : "IPAMServerAlert"	string
<b>ipv4</b> <i>optional</i>	IPv4 Address <b>Example</b> : "192.168.2.215"	string
<b>last_state_change</b> <i>optional</i>	Last State Change <b>Example</b> : "1d 0h 44m 51s"	string
<b>notification_id</b> <i>optional</i>	Notification ID	integer(int32)
<b>notifyCriticalAlert</b> <i>optional</i>	Notify Critical Alerts	string
<b>notifyFlappingService</b> <i>optional</i>	Notify Flapping Service	string
<b>notifyOKAlert</b> <i>optional</i>	Notify Ok Alerts	string



Name	Description	Schema
<b>notifyUnknownAlert</b> <i>optional</i>	Notify Unknown Alerts	string
<b>notifyWarningAlert</b> <i>optional</i>	Notify Warning Alerts	string
<b>serviceDownEndTime</b> <i>optional</i>	Service Down End Time	string
<b>serviceDownStartTime</b> <i>optional</i>	Service Down Start Time	string
<b>serviceEnable</b> <i>optional</i>	Enable Service	string
<b>serviceName</b> <i>required</i>	Name of the service <b>Example</b> : "TOTAL_USED_RAM"	string
<b>start_time</b> <i>optional</i>	Start Time <b>Example</b> : "2022-01-20 12:40:41"	string
<b>triggerInterval</b> <i>optional</i>	Trigger Interval	string
<b>v6_server_name</b> <i>optional</i>	IPv6 Sever name of the host <b>Example</b> : "TCPWaveRemote"	string
<b>v6_short_address</b> <i>optional</i>	IPv6 Address of the host <b>Example</b> : "ff02::1"	string
<b>warningThreshold</b> <i>optional</i>	Warning Threshold Value	string

### 5.229. MonitoringHierarchy

Name	Description	Schema
<b>applianceIp</b> <i>optional</i>		string
<b>applianceName</b> <i>optional</i>		string
<b>applianceType</b> <i>optional</i>		string
<b>commonConfigChecks</b> <i>optional</i>		integer(int32)
<b>criticalAlerts</b> <i>optional</i>		integer(int32)
<b>criticalConfigChecks</b> <i>optional</i>		integer(int32)
<b>dhcpCriticalAlerts</b> <i>optional</i>		integer(int32)
<b>dhcpCriticalConfigChecks</b> <i>optional</i>		integer(int32)
<b>dhcpGroups</b> <i>optional</i>		string
<b>dhcpHeartbeat</b> <i>optional</i>		boolean
<b>dhcpId</b> <i>optional</i>		integer(int32)
<b>dhcpOkAlerts</b> <i>optional</i>		integer(int32)
<b>dhcpOkConfigChecks</b> <i>optional</i>		integer(int32)
<b>dhcpWarningAlerts</b> <i>optional</i>		integer(int32)
<b>dnsCriticalAlerts</b> <i>optional</i>		integer(int32)
<b>dnsCriticalConfigChecks</b> <i>optional</i>		integer(int32)
<b>dnsGroups</b> <i>optional</i>		string
<b>dnsHeartbeat</b> <i>optional</i>		boolean
<b>dnsId</b> <i>optional</i>		integer(int32)

Name	Description	Schema
<b>dnsOkAlerts</b> <i>optional</i>		integer(int32)
<b>dnsOkConfigChecks</b> <i>optional</i>		integer(int32)
<b>dnsWarningAlerts</b> <i>optional</i>		integer(int32)
<b>heartbeat</b> <i>optional</i>		boolean
<b>okAlerts</b> <i>optional</i>		integer(int32)
<b>okConfigChecks</b> <i>optional</i>		integer(int32)
<b>warningAlerts</b> <i>optional</i>		integer(int32)

### 5.230. MonitoringUpdateRequest

Name	Description	Schema
<b>ip</b> <i>required</i>	IPA Address of the specific resource <b>Example</b> : "network"	string
<b>monitor</b> <i>optional</i>	Monitoring status of the specific resource <b>Example</b> : true	boolean
<b>name</b> <i>optional</i>	Name of the specific resource <b>Example</b> : "Network-1"	string
<b>organization</b> <i>optional</i>	Organization of the specific resource <b>Example</b> : "network"	string
<b>stype</b> <i>optional</i>	Appliance type <b>Example</b> : "DHCP"	string
<b>type</b> <i>required</i>	Type of the specific resource <b>Example</b> : "network"	string

### 5.231. MsgCert

Name	Description	Schema
<b>cert_details</b> <i>optional</i>		string
<b>cert_name</b> <i>optional</i>		string
<b>cn</b> <i>optional</i>		string
<b>errMsg</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int32)
<b>info</b> <i>optional</i>		< string > array
<b>issuer</b> <i>optional</i>		string
<b>serial_number</b> <i>optional</i>		string
<b>valid</b> <i>optional</i>		boolean
<b>valid_from</b> <i>optional</i>		string
<b>valid_to</b> <i>optional</i>		string
<b>validity</b> <i>optional</i>		string

### 5.232. Multi IPv6 Subnet Request

This class encapsulates request information for creating multiple V6 Subnets.

Name	Description	Schema
<b>address</b> <i>optional</i>		< string > array

Name	Description	Schema
<b>ids</b> <i>optional</i>		< integer(int32) > array
<b>ip_full_addr_val</b> <i>optional</i>	IPv6 subnet full address <b>Example</b> : "1000:0000:0000:0000:0000:0000:0000:0000"	integer(int64)
<b>mask_length</b> <i>optional</i>	IPv6 subnet mask length <b>Example</b> : "/64"	integer(int32)
<b>nw_mask_length</b> <i>optional</i>	IPv6 network mask length <b>Example</b> : 48	integer(int32)
<b>subnet</b> <i>optional</i>	IPv6 subnet	<a href="#">IPv6 Subnet</a>

### 5.233. Multi Subnet Request

This class encapsulates request information for creating multiple V4 Subnets in the TCPWave IPAM.

Name	Description	Schema
<b>address</b> <i>required</i>	Subnet address	< string > array
<b>end_addr_val</b> <i>required</i>	Subnet end ip <b>Example</b> : "10.0.0.254"	integer(int64)
<b>mask_length</b> <i>required</i>	Subnet mask length <b>Example</b> : 24	integer(int32)
<b>start_addr_val</b> <i>required</i>	Subnet start IP <b>Example</b> : "10.0.0.0"	integer(int64)
<b>subnet</b> <i>required</i>	Subnet Information	<a href="#">Subnet Information</a>

### 5.234. NICConfig

Name	Description	Schema
<b>appliance</b> <i>optional</i>	Appliances <b>Example</b> : "10.1.1.10.245,10.1.1.10.250"	string
<b>newIPAddress</b> <i>optional</i>		string
<b>nicType</b> <i>optional</i>		string
<b>nics</b> <i>optional</i>	NIC JSON string <b>Example</b> : "[{'device': 'eth0'}, {'device': 'eth1'}]"	string
<b>syncStatus</b> <i>optional</i>	NIC Sync Status <b>Example</b> : "0/1/2"	integer(int32)

### 5.235. NICObject

Type : object

### 5.236. Network Discovery Request

This class encapsulates the discovery preferences and network or subnet address of a discovery request.

Name	Description	Schema
<b>address</b> <i>required</i>	Network or subnet address <b>Example</b> : "10.0.0.0/24"	string
<b>discoPrefs</b> <i>required</i>	Discovery methods <b>Example</b> : "PING,SNMP"	string
<b>organization</b> <i>required</i>	Name of the organization <b>Example</b> : "Internal"	string
<b>retries</b> <i>required</i>	SNMP request retries <b>Example</b> : 2	integer(int32)
<b>reverseDNSTimeout</b> <i>required</i>	Reverse DNS lookup timeout <b>Example</b> : 2000	integer(int64)
<b>timeout</b> <i>required</i>	SNMP response timeout <b>Example</b> : 2000	integer(int64)

### 5.237. Network Information

Holds various attributes that are associated to a network such as the address, size, mask length etc.

Name	Description	Schema
<b>addr1</b> <i>required</i>	Octet-1 of the network	integer(int32)

Name	Description	Schema
<b>addr2</b> <i>required</i>	Octet-2 of the network	integer(int32)
<b>addr3</b> <i>required</i>	Octet-3 of the network	integer(int32)
<b>addr4</b> <i>required</i>	Octet-4 of the network	integer(int32)
<b>address</b> <i>required</i>	Full address of the network	string
<b>autoCreateBlock</b> <i>optional</i>		string
<b>contact_email_id</b> <i>optional</i>	Email of the contact	string
<b>contact_id</b> <i>optional</i>	ID of the contact	integer(int32)
<b>contact_name</b> <i>optional</i>	Name of the contact	string
<b>createRevZone</b> <i>optional</i>	Auto create reverse zone for a network <b>Example</b> : "Yes/No"	string
<b>created_by</b> <i>optional</i>	Login name of the user who created the network	integer(int32)
<b>created_by_login_name</b> <i>optional</i>	Login name of the user who updated the entity	string
<b>created_by_name</b> <i>optional</i>	Database ID of the user who created the entity	string
<b>created_time</b> <i>optional</i>	Date and Time of creation of the entity	string(date-time)
<b>created_time_string</b> <i>optional</i>	String instance of creating the entity	string
<b>customTemplate</b> <i>required</i>	It specifies whether the template is custom defined or pre-defined <b>Example</b> : false	boolean
<b>description</b> <i>optional</i>	Description for the network	string
<b>discoveryApplianceIp</b> <i>optional</i>		string
<b>discoveryTemplateId</b> <i>required</i>	Id of the Discovery Template defined in the organization which is associated with the specified Network. <b>Example</b> : 41010	integer(int32)
<b>discovery_template</b> <i>required</i>	Name of the Discovery Template defined in the organization which is associated with the specified Network. <b>Example</b> : "DiscoveryTemp1"	string
<b>dmzVisible</b> <i>optional</i>	Specifies whether the zone which is associated with the Network is a Demilitarized Zone(DMZ) or not. <b>Example</b> : "Yes/No"	string
<b>dnssec_enable</b> <i>required</i>	Specifies whether Domain Name System Security Extensions(DNSSEC) enabled or not for the zone associated with the specified Network. <b>Example</b> : "Yes/No"	string
<b>email_check</b> <i>optional</i>	Email to send out the network capacity/usage information	integer(int32)
<b>email_id</b> <i>optional</i>	Email ID <b>Example</b> : "admin@tcpwave.com"	string
<b>enable_discovery</b> <i>required</i>	Specifies whether discovery is enabled or not for the specified Network. <b>Example</b> : "Yes/No"	string
<b>extensions</b> <i>optional</i>	Login name of the user who created the entity	< <a href="#">Xtn NVP</a> > array
<b>first_name</b> <i>optional</i>	First name of the contact	string
<b>id</b> <i>optional</i>	Database ID of the network	integer(int32)
<b>last_name</b> <i>optional</i>	Last name of the contact	string
<b>mask_length</b> <i>required</i>	Network mask length	integer(int32)

Name	Description	Schema
<b>middle_name</b> <i>optional</i>	Middle name of the contact	string
<b>monitoringService</b> <i>optional</i>		string
<b>name</b> <i>required</i>	Name of the network	string
<b>network_usage</b> <i>optional</i>	Percentage usage of a given network	string
<b>nsec_option</b> <i>required</i>	Takes NSEC or NSEC3 when Domain Name System Security Extensions(DNSSEC) is enabled for the zone which is associated with the specific Network. <b>Example</b> : "NSEC/NSEC3"	string
<b>nw_mask_length</b> <i>required</i>	Mask length of the network	integer(int32)
<b>object_count</b> <i>optional</i>	Number of objects defined in this network	integer(int32)
<b>oldName</b> <i>required</i>	Old name of the network	string
<b>organization_id</b> <i>required</i>	Organization ID of the network	integer(int32)
<b>organization_name</b> <i>required</i>	Organization name of the network	string
<b>percent_full</b> <i>optional</i>	Threshold percentage full for the network	number(double)
<b>percentageFull</b> <i>optional</i>	Percentage full for the given network	integer(int32)
<b>region</b> <i>optional</i>		string
<b>reverse_zone</b> <i>optional</i>	Reverse Zone for the given network	string
<b>reverse_zone_serial</b> <i>required</i>	Serial Number of the Reverse Zone which is associated with the specified Network. <b>Example</b> : 2016102800	integer(int32)
<b>selectedMasterServer</b> <i>required</i>	List of Master Servers defined in Zone Templates associated with the specified Network.	< <a href="#">Server Information</a> > array
<b>selectedSlaveServer</b> <i>required</i>	List of Slave Servers defined in Zone Templates associated with the specified Network.	< <a href="#">Server Information</a> > array
<b>serialFormat</b> <i>required</i>	Serial Number format of the zone which is associated with the specified Network. <b>Example</b> : "NODATE/DATE"	string
<b>server_count</b> <i>optional</i>	Number of servers provisioned in the network	integer(int32)
<b>server_id</b> <i>required</i>	Id of the server which is associated with the specified Network. <b>Example</b> : 121	integer(int32)
<b>server_name</b> <i>required</i>	Name of the server which is associated with the specified Network. <b>Example</b> : "lisartx-est015-s1012"	string
<b>snmp_check</b> <i>optional</i>	SNMP to send out the network capacity/usage information	integer(int32)
<b>startAddress</b> <i>optional</i>	Network Start Address	string
<b>subnet_count</b> <i>optional</i>	Number of subnets defined in the network	integer(int32)
<b>templateList</b> <i>required</i>	Array list of Zone Templates associated with the specified Network	< <a href="#">Template</a> > array
<b>updated_by</b> <i>optional</i>	Login name of the user who updated the network	integer(int32)
<b>updated_by_login_name</b> <i>optional</i>	Login name of the user who created the entity	string
<b>updated_by_name</b> <i>optional</i>	Database ID of the user who updated the entity	string
<b>updated_time</b> <i>optional</i>	Date and time of updating the entity	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String instance of updating the entity	string

Name	Description	Schema
<b>vrf_id</b> <i>optional</i>		integer(int32)
<b>vrf_name</b> <i>optional</i>		string
<b>zoneTemplateId</b> <i>required</i>	Id of the Zone Template defined in the zone which is associated with the specified Network. <b>Example</b> : 41010	integer(int32)
<b>zoneTemplateName</b> <i>required</i>	Name of the Zone Template defined in the zone which is associated with the specified Network. <b>Example</b> : "ZoneTemp1"	string

### 5.238. Network Interface

This class consolidates the details of a Network Interface configuration file.

Name	Description	Schema
<b>bond_mode</b> <i>optional</i>	Bonding mode of network interfaces bond i.e. Mode 1 (active-backup policy)	string
<b>broadCast</b> <i>required</i>	Network broadcast of network interface <b>Example</b> : "192.168.0.255"	string
<b>gateway</b> <i>required</i>	Network gateway of network interface <b>Example</b> : "192.168.0.1"	string
<b>ipv4Addr</b> <i>required</i>	IPv4 address of network interface <b>Example</b> : "192.168.0.105"	string
<b>ipv6Addr</b> <i>optional</i>	IPv6 address of network interface <b>Example</b> : "2000::2"	string
<b>ipv6DefaultGw</b> <i>optional</i>	IPv6 network gateway of network interface <b>Example</b> : "2000::1"	string
<b>ipv6Init</b> <i>optional</i>	IPv6 address of network interface <b>Example</b> : "fe80::a00:27ff:fece:c5de"	string
<b>isMgmtInterface</b> <i>optional</i>	Network interface is management interface or not. <b>Example</b> : false	boolean
<b>master</b> <i>optional</i>	Master bond Name <b>Example</b> : "bond0"	string
<b>netMask</b> <i>required</i>	Netmask of network interface <b>Example</b> : "255.255.255.0"	string
<b>nicBootproto</b> <i>optional</i>	It is an attribute of Network Interface Configuration file. <b>Example</b> : "none"	string
<b>nicDevice</b> <i>required</i>	Name of network interface <b>Example</b> : "eth0"	string
<b>nicHwaddr</b> <i>optional</i>	MAC Address <b>Example</b> : "08:00:27:cd:c5:de"	string
<b>nicJSON</b> <i>optional</i>	JSON string of network interfaces	string
<b>nicNM_controlled</b> <i>optional</i>	It is only for bond interface. <b>Example</b> : "none"	string
<b>nicNetwork</b> <i>required</i>	Network IP of network interface <b>Example</b> : "192.168.0.0"	string
<b>nicOnboot</b> <i>optional</i>	It is a bond interface or not <b>Example</b> : "yes/no"	string
<b>nicType</b> <i>required</i>	Name of network interface type <b>Example</b> : "Ethernet"	string
<b>route</b> <i>optional</i>	Routes for Network Interface	string
<b>rule</b> <i>optional</i>	Rules for Network Interface	string
<b>serverIP</b> <i>required</i>	Remote IP Address <b>Example</b> : "192.168.0.105"	string
<b>serverName</b> <i>required</i>	Remote Name <b>Example</b> : "remote-1"	string
<b>serverType</b> <i>required</i>	Server Type Code <b>Example</b> : "BIND AUTH"	string
<b>slave</b> <i>optional</i>	It is slave device or not <b>Example</b> : "yes/no"	string

### 5.239. Network Security Monitoring Template

This class represents a NSM template that can be used to configure Threat Intelligence settings for DNS appliances.

Name	Description	Schema
<b>configuration</b> <i>optional</i>	JSON format of NSM Template configuration parameters: Interface, Enable Anomaly Detection, Enable Tunnel Detection, Enable Intrusion Prevention, etc.	string
<b>createdBy</b> <i>optional</i>	UserId of user who created the specific NSM template. <b>Example</b> : 1234	integer(int32)
<b>createdByUser</b> <i>optional</i>	Name of user who created the specific NSM template. <b>Example</b> : "admin"	string
<b>createdTime</b> <i>optional</i>	NSM template creation time. <b>Example</b> : "03/04/2022 4:37"	string(date-time)
<b>description</b> <i>optional</i>	Description of NSM template.	string
<b>domainList</b> <i>optional</i>	ArrayList of NSM domains associated to NSM template.	< <a href="#">Whitelist and Blacklist domain</a> > array
<b>id</b> <i>optional</i>	Id of the NSM template. <b>Example</b> : 1	integer(int32)
<b>ipsRuleList</b> <i>optional</i>	ArrayList of IPS rules associated to NSM template.	< <a href="#">Intrusion Provision System Rule</a> > array
<b>ipsRuleVariables</b> <i>optional</i>	JSON format of IPS rule variables.	string
<b>name</b> <i>required</i>	Name of the NSM template. <b>Example</b> : "nsm_template_1"	string
<b>oldName</b> <i>required</i>	Old name of the NSM template. <b>Example</b> : "test_template"	string
<b>organizationId</b> <i>optional</i>	Id of an organization to which the specified NSM template is associated with. <b>Example</b> : 1	integer(int32)
<b>organizationName</b> <i>required</i>	Name of an organization to which the specified NSM template is associated with. <b>Example</b> : "Internal"	string
<b>tunnelDetectionRules</b> <i>optional</i>	JSON format of tunnel detection rule parameters.	string
<b>updatedBy</b> <i>optional</i>	UserId of user who updated the specific NSM template. <b>Example</b> : 1234	integer(int32)
<b>updatedByUser</b> <i>optional</i>	Name of user who updated the specific NSM template. <b>Example</b> : "admin"	string
<b>updatedTime</b> <i>optional</i>	NSM template updated time. <b>Example</b> : "03/05/2022 4:37"	string(date-time)

#### 5.240. Network Stats

This bean encapsulates the statistics related to a Network. The information includes the percentages values of address space that is free, address space occupied by static, manual, auto, and dynamic objects, and the list of top ten subnets in the network by size.

Name	Description	Schema
<b>auto_percent</b> <i>optional</i>	Percentage of the DHCP-Auto objects usage <b>Example</b> : 20.0	number(double)
<b>dynamic_percent</b> <i>optional</i>	Percentage of the DHCP-Dynamic objects usage <b>Example</b> : 20.0	number(double)
<b>free_percent</b> <i>optional</i>	Percentage of the network that is usable <b>Example</b> : 20.0	number(double)
<b>manual_percent</b> <i>optional</i>	Percentage of the DHCP-Manual objects usage <b>Example</b> : 20.0	number(double)
<b>static_percent</b> <i>optional</i>	Percentage of the static objects usage <b>Example</b> : 20.0	number(double)
<b>top_ten</b> <i>optional</i>	List of the top ten subnets	< <a href="#">Top Ten Element</a> > array

#### 5.241. NetworkBlock

Name	Description	Schema
<b>endIP</b> <i>optional</i>		integer(int64)
<b>fullAddress</b> <i>optional</i>		string

Name	Description	Schema
<b>mask</b> <i>optional</i>		integer(int32)
<b>startIP</b> <i>optional</i>		integer(int64)

### 5.242. NonManagedNameServer

Name	Description	Schema
<b>id</b> <i>optional</i>	Non-Managed Name Server id	integer(int32)
<b>is_tsig</b> <i>optional</i>	Non-Managed Name Server is secured with TSIG key or not <b>Example</b> : 0	integer(int32)
<b>ns_fqdn</b> <i>optional</i>	Non-Managed Name Server FQDN <b>Example</b> : "nameserver.domain.com"	string
<b>ns_ip</b> <i>optional</i>	Non-Managed Name Server IP Address <b>Example</b> : "10.1.10.12"	string
<b>zone_id</b> <i>optional</i>	Zone id	integer(int32)

### 5.243. Notification Details

Notifications class gives the information about an IPAM notification such as Host Address, Host Type, Category, Service, Start Time, End Time etc.

Name	Description	Schema
<b>host_address</b> <i>optional</i>	Address of the Host for which notification is generated <b>Example</b> : "196.168.10.101"	string
<b>host_name</b> <i>optional</i>	Name of the host for which notification is generated <b>Example</b> : "dhcp-appliance-2.test.com. "	string
<b>host_type</b> <i>optional</i>	Type of the host for which notification is generated <b>Example</b> : "DHCP"	string
<b>output</b> <i>optional</i>	Notification Message <b>Example</b> : "CRITICAL - Secure communication between the IPAM and the remote appliance is not functional. "	string
<b>start_time</b> <i>optional</i>	Start time at which notification is generated <b>Example</b> : "3/15/2022 10:29:03"	string
<b>status</b> <i>optional</i>	Severity Code of the notification. Codes 0, 1 and 2 represent OK, WARNING and CRITICAL respectively <b>Example</b> : 0	integer(int32)

### 5.244. OFAC Country

This class represents OFAC country and contains the attributes necessary for Export Compliance Management functionality in TCPWave IPAM. The information includes the Country Name, ccTLDs, and other OFAC related information.

Name	Description	Schema
<b>ctld</b> <i>optional</i>	CcTld of a country <b>Example</b> : "nk"	string
<b>contact_email</b> <i>optional</i>	User's email ID who has modified the specified OFAC record. <b>Example</b> : "Smith@abc.com"	string
<b>countryname</b> <i>optional</i>	Country Name <b>Example</b> : "North Korea"	string
<b>created_by</b> <i>optional</i>	User ID who has created the specified OFAC record. <b>Example</b> : 1234	integer(int32)
<b>created_by_login_name</b> <i>optional</i>	The User's name, who has logged into TCPWave IPAM, has been set as Created By for the specified Domain. <b>Example</b> : "Stephen"	string
<b>created_by_name</b> <i>optional</i>	User Name who has created the specified OFAC record. <b>Example</b> : "John"	string
<b>created_time</b> <i>optional</i>	The time instance when the specified OFAC record has been created. <b>Example</b> : "2022-02-04 05:24:00"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified Domain has been created. <b>Example</b> : "03/18/2022 3:39"	string
<b>description</b> <i>optional</i>	Description <b>Example</b> : "This is for OFAC Report"	string
<b>firstName</b> <i>optional</i>	User's first name who has modified the specified OFAC record. <b>Example</b> : "John"	string



Name	Description	Schema
<b>lastName</b> <i>optional</i>	User's last name who has modified the specified OFAC record. <b>Example</b> : "Smith"	string
<b>updated_by</b> <i>optional</i>	User ID who has modified the specified OFAC record. <b>Example</b> : 1234	integer(int32)
<b>updated_by_login_name</b> <i>optional</i>	The User's name, who has logged into TCPWave IPAM, has been set as Created By for the specified Domain. <b>Example</b> : "John"	string
<b>updated_by_name</b> <i>optional</i>	User name who has modified the specified OFAC record. <b>Example</b> : "John"	string
<b>updated_time</b> <i>optional</i>	The time instance when the specified OFAC record has been updated. <b>Example</b> : "2022-02-04 05:24:00"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified Domain has been modified. <b>Example</b> : "03/18/2022 4:37"	string

### 5.245. OSPF Details

This class contains information related to OSPF screen.

Name	Description	Schema
<b>areas</b> <i>optional</i>	List of areas	< <a href="#">OSPF Details</a> > array
<b>delay</b> <i>optional</i>	Delay Time in seconds <b>Example</b> : 60	integer(int32)
<b>graceful_restart</b> <i>optional</i>	Is graceful restart enabled or not? <b>Example</b> : false	boolean
<b>holdTime</b> <i>optional</i>	Hold time value in seconds. It ranges 1 to 65535 seconds <b>Example</b> : 60	integer(int32)
<b>hostName</b> <i>optional</i>	Host name <b>Example</b> : "Host-IPAM"	string
<b>log_adjacency_changes</b> <i>optional</i>	Log adjacency changes detail <b>Example</b> : false	boolean
<b>logging</b> <i>optional</i>	Is logging is enabled or not? <b>Example</b> : false	boolean
<b>ospfInterfaces</b> <i>optional</i>	List of OSPF Interfaces	< <a href="#">OSPF Details</a> > array
<b>redistribute_connected</b> <i>optional</i>	Is redistribute connected or not? <b>Example</b> : false	boolean
<b>rfc_compatible</b> <i>optional</i>	Is RFC service compatible or not? <b>Example</b> : false	boolean
<b>routerAddress</b> <i>optional</i>	IP address of the router <b>Example</b> : "192.168.0.1"	string

### 5.246. OSPatch

This class represents an OS Patch and contains the attributes necessary for OS Patch management functionality in TCPWave IPAM. The information includes the Patch Name, Patch Type, Patch Size, Patch Checksum and Patch Folder Path and other related information.

Name	Description	Schema
<b>createdTime</b> <i>optional</i>	The time instance when the patch has been created. <b>Example</b> : "2022-02-04 05:24:00"	string(date-time)
<b>createBy</b> <i>required</i>	Database ID of the user who created the patch. <b>Example</b> : 2862	integer(int32)
<b>createdByName</b> <i>required</i>	Name of the user who created the patch. <b>Example</b> : "Smith"	string
<b>createdTimeString</b> <i>required</i>	Patch creation time. <b>Example</b> : "03/18/2022 4:37"	string
<b>id</b> <i>optional</i>	Database Id of the patch <b>Example</b> : 1252	integer(int32)
<b>patchChecksum</b> <i>optional</i>	Patch checksum value <b>Example</b> : 1	integer(int32)
<b>patchFolderPath</b> <i>optional</i>	Patch folder location <b>Example</b> : "/tmp/patches"	string
<b>patchLevel</b> <i>optional</i>		string

Name	Description	Schema
<b>patchName</b> <i>optional</i>	Patch name <b>Example</b> : "DB_patch1"	string
<b>patchSize</b> <i>optional</i>	Patch size <b>Example</b> : 1000	integer(int64)
<b>patchType</b> <i>optional</i>	Patch type <b>Example</b> : "dellhardware"	string
<b>patchVersion</b> <i>optional</i>		string

### 5.247. OSPatchStatus

Name	Description	Schema
<b>applianceID</b> <i>optional</i>		integer(int32)
<b>applianceName</b> <i>optional</i>		string
<b>applianceType</b> <i>optional</i>		string
<b>exitCode</b> <i>optional</i>		string
<b>ipAddress</b> <i>optional</i>		string
<b>lastAppliedTime</b> <i>optional</i>		string
<b>message</b> <i>optional</i>		string

### 5.248. Object Allocation

This class represents Object allocation count of different types of Objects like Static, DHCP etc. in TCPWave IPAM.

Name	Description	Schema
<b>auto_dhcp</b> <i>required</i>	Get auto DHCP object count. <b>Example</b> : 600	integer(int64)
<b>ddhcp_count</b> <i>required</i>	Get dynamic DHCP object count <b>Example</b> : 6	integer(int64)
<b>mdhcp_count</b> <i>required</i>	Get DHCP device name <b>Example</b> : "nsuax"	integer(int64)
<b>static_count</b> <i>required</i>	Get static object count <b>Example</b> : 4	integer(int64)
<b>total</b> <i>required</i>	Get total object count <b>Example</b> : 300	integer(int64)
<b>unalloc_count</b> <i>required</i>	Get unallocated object count <b>Example</b> : 100	integer(int64)

### 5.249. Object Basic Information

This class represents the properties of object.

Name	Description	Schema
<b>change_control_ticket</b> <i>optional</i>	Details of the change control team <b>Example</b> : "324554"	string
<b>class_code</b> <i>required</i>	Object type/Class code of the object <b>Example</b> : "3G Phone"	string
<b>contact_email_id</b> <i>optional</i>	Email address of the contact	string
<b>contact_first_name</b> <i>optional</i>	First name of the contact <b>Example</b> : "3G-Phone-0002"	string
<b>contact_id</b> <i>optional</i>	Database ID of the contact <b>Example</b> : 11	integer(int32)
<b>contact_last_name</b> <i>optional</i>	Last name of the contact	string
<b>contact_middle_name</b> <i>optional</i>	Middle name of the contact	string
<b>domain_id</b> <i>required</i>	Database ID of the domain associated to this object <b>Example</b> : 990	integer(int32)

Name	Description	Schema
<b>domain_name</b> <i>required</i>	Name of the domain associated to this object <b>Example</b> : "tcp.com"	string
<b>dyn_update_rrs_a</b> <i>required</i>	Dynamic update DNS with A Resource Records <b>Example</b> : false	boolean
<b>dyn_update_rrs_cname</b> <i>required</i>	Dynamic update DNS with CNAME Resource Records <b>Example</b> : false	boolean
<b>dyn_update_rrs_mx</b> <i>required</i>	Dynamic update DNS with MX Resource Records <b>Example</b> : false	boolean
<b>dyn_update_rrs_ptr</b> <i>required</i>	Dynamic update DNS with PTR Resource Records <b>Example</b> : true	boolean
<b>enable_dynamic_dns_options</b> <i>optional</i>	Enable the Dynamic dns options <b>Example</b> : false	boolean
<b>floor</b> <i>optional</i>	Floor (placement) of this object	string
<b>managed_by</b> <i>optional</i>	Name of user who manages this object <b>Example</b> : "admin"	string
<b>monitored_by</b> <i>optional</i>	Name of the user who monitors this object <b>Example</b> : "admin"	string
<b>objectKeyList</b> <i>optional</i>	List of Object Keys (ID and Address)	< <a href="#">ObjectKey</a> > array
<b>organization_id</b> <i>optional</i>	Database ID of the organization <b>Example</b> : 2357	integer(int32)
<b>organization_name</b> <i>required</i>	Name of the organization associated with this object <b>Example</b> : "QA0rg"	string
<b>room</b> <i>optional</i>	Room (placement) of this object	string
<b>subnet_id</b> <i>required</i>	Database ID of the subnet associated to this object <b>Example</b> : 1	integer(int32)
<b>terminal_server_kvm</b> <i>optional</i>	Terminal Server for this object	string
<b>ttl</b> <i>optional</i>	Time to live for this object <b>Example</b> : 1200	integer(int32)
<b>update_ns_a</b> <i>required</i>	Dynamic update DNS with the A rec <b>Example</b> : false	boolean
<b>update_ns_ptr</b> <i>required</i>	Dynamic update DNS with PTR rec <b>Example</b> : false	boolean
<b>updated_by</b> <i>optional</i>	Name of the user who has updated this object <b>Example</b> : "admin"	integer(int32)

### 5.250. Object Chart

This class contains object added/deleted information.

Name	Description	Schema
<b>count</b> <i>optional</i>	Count of object <b>Example</b> : 10	integer(int32)
<b>date</b> <i>optional</i>	Get Date <b>Example</b> : "3/18/2022"	string
<b>day_count</b> <i>optional</i>	Day count <b>Example</b> : 3	integer(int32)
<b>dynamic_objects_added</b> <i>optional</i>	Total dynamic objects added	integer(int32)
<b>dynamic_objects_deleted</b> <i>optional</i>	Total dynamic objects deleted	integer(int32)
<b>static_objects_added</b> <i>optional</i>	Total static objects added	integer(int32)
<b>static_objects_deleted</b> <i>optional</i>	Total static objects deleted	integer(int32)
<b>total_objects_added</b> <i>optional</i>	Total number of objects added	integer(int32)
<b>total_objects_deleted</b> <i>optional</i>	Total number of objects deleted	integer(int32)

### 5.251. Object DHCP Details

Persists the DHCP Profile - Option Template and the DHCP Appliance for a given object.

Name	Description	Schema
<b>allow_client_class</b> <i>required</i>	Allow client class name	< string > array
<b>allow_user_class</b> <i>required</i>	Allow user class name	< string > array
<b>allow_vendor_class</b> <i>required</i>	Allow vendor class name	< string > array
<b>deny_client_class</b> <i>required</i>	Deny client class name	< string > array
<b>deny_user_class</b> <i>required</i>	Deny user class name	< string > array
<b>deny_vendor_class</b> <i>required</i>	Deny vendor class name	< string > array
<b>server_name</b> <i>optional</i>	DHCP Appliance of a DHCP Object - Internal use only	string
<b>template_name</b> <i>optional</i>	DHCP Option Template of a DHCP Object - Internal use only	string

### 5.252. Object Discovery Data

This class represents the object discovery data which include switch name, switch port, port duplex and object address.

Name	Description	Schema
<b>objectAddress</b> <i>required</i>	Object address <b>Example</b> : "10.0.0.0"	string
<b>objectId</b> <i>required</i>	Database ID of Object <b>Example</b> : 101	integer(int32)
<b>organization</b> <i>required</i>	Organization name <b>Example</b> : "Internal"	string
<b>portDuplex</b> <i>required</i>	Port duplex <b>Example</b> : "Full/10Mbps"	string
<b>switchName</b> <i>required</i>	Switch Name <b>Example</b> : "Switch001"	string
<b>switchPort</b> <i>required</i>	Switch port <b>Example</b> : "Eth1"	string

### 5.253. Object Type Chart

This class fetches the number of object types defined in the TCPWave IPAM

Name	Description	Schema
<b>parameter</b> <i>required</i>	Get type of object <b>Example</b> : "4"	string
<b>value</b> <i>required</i>	Get the object count <b>Example</b> : "4"	string

### 5.254. ObjectKey

Name	Description	Schema
<b>id</b> <i>optional</i>	Database ID the object	integer(int32)

### 5.255. Organization

This class contains organization information. The information includes the organization name, DNS root zone enable flag and created/updated information.

Name	Description	Schema
<b>auth_info</b> <i>required</i>	Information about the organization.	<a href="#">Auth Info</a>
<b>description</b> <i>required</i>	Description of the organization. <b>Example</b> : "Internal organization"	string
<b>enable_root_zone</b> <i>required</i>	Indicate root zone is enabled or not. 1 indicates root zone is enabled and 0 indicate that root zone is disabled. <b>Example</b> : 1	integer(int32)
<b>id</b> <i>optional</i>	ID of the organization. <b>Example</b> : 1	integer(int32)
<b>name</b> <i>required</i>	Name of the organization. <b>Example</b> : "Internal"	string

Name	Description	Schema
<b>oldName</b> <i>required</i>	Old Name of the organization. <b>Example</b> : "Test"	string

### 5.256. PagedList

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< object > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.257. PagedListAccess Control List(ACL)

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Access Control List(ACL)</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.258. PagedListAdmin Group

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Admin Group</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.259. PagedListAudit Report Details

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Audit Report Details</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.260. PagedListContacts Information

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Contacts Information</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.261. PagedListDHCP Failover

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">DHCP Failover</a> > array

Name	Description	Schema
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.262. PagedListDHCPLeaseObject

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">DHCPLeaseObject</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.263. PagedListDNS Appliance Template

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">DNS Appliance Template</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.264. PagedListDomain

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Domain</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.265. PagedListExternal DNS Zone

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">External DNS Zone</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.266. PagedListHome

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Home</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.267. PagedListIPv6 Scope

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">IPV6 Scope</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.268. PagedListIPv6 Network Details

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">IPv6 Network Details</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.269. PagedListIPv6 Object

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">IPv6 object</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.270. PagedListIPv6 Subnet

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">IPv6 Subnet</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.271. PagedListLocations

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Locations</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.272. PagedListLogger Channel

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Logger Channel</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

#### 5.273. PagedListMicrosoft DHCP Exclusion Range Information

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Microsoft DHCP Exclusion range Information</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

#### 5.274. PagedListMicrosoft Server Information

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Microsoft Server Information</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

#### 5.275. PagedListNetwork Information

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Network Information</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

#### 5.276. PagedListNetwork Security Monitoring Template

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Network Security Monitoring Template</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

#### 5.277. PagedListObject

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< object > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

#### 5.278. PagedListOrganization

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Organization</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)



Name	Description	Schema
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.279. PagedListParameters Information

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Parameters Information</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.280. PagedListResource Record

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Resource Record</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.281. PagedListResponse Policy Zone(RPZ) Rule File

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Response Policy Zone(RPZ) Rule File</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.282. PagedListSOA

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">SOA</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.283. PagedListScheduled Job Execution Status Information

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Scheduled job execution status information</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.284. PagedListScope Information

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Scope Information</a> > array

Name	Description	Schema
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.285. PagedListServer Entity Version

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Server Entity Version</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.286. PagedListServer Information

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Server Information</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.287. PagedListSubnet Group

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Subnet Group</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.288. PagedListSubnet Information

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Subnet Information</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.289. PagedListSubnet Template

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Subnet Template</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.290. PagedListTIMS Object

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">TIMS Object</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.291. PagedListTemplate

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Template</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.292. PagedListTemplate Selection Data

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Template Selection Data</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.293. PagedListUser

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">User</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.294. PagedListZone

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Zone</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)
<b>total</b> <i>optional</i>	Total Number of rows. <b>Example</b> : 20	integer(int32)

### 5.295. PagedList\_d

Name	Description	Schema
<b>data</b> <i>optional</i>		< object > array
<b>draw</b> <i>optional</i>		integer(int32)
<b>recordsFiltered</b> <i>optional</i>		integer(int32)
<b>recordsTotal</b> <i>optional</i>		integer(int32)

### 5.296. PagedList\_dIPv6 Network Details

Name	Description	Schema
<b>data</b> <i>optional</i>		< <a href="#">IPv6 Network Details</a> > array
<b>draw</b> <i>optional</i>		integer(int32)
<b>recordsFiltered</b> <i>optional</i>		integer(int32)
<b>recordsTotal</b> <i>optional</i>		integer(int32)

### 5.297. PaginatedList

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< object > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.298. PaginatedListADCNodeMember

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">ADCNodeMember</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.299. PaginatedListAdministratorRoles

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">AdministratorRoles</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.300. PaginatedListAlarm Subscription

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Alarm Subscription</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.301. PaginatedListAmazon Machine Image

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Amazon Machine Image</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.302. PaginatedListAppliance Group

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Appliance Group</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.303. PaginatedListAuditEntry

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Audit Entry</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.304. PaginatedListAudit Log Entry In CEF Format

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Audit Log Entry in CEF Format</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.305. PaginatedListAudit Report Details

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Audit Report Details</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.306. PaginatedListAuditHistory

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">AuditHistory</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.307. PaginatedListAutonomous System Number

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Autonomous System Number</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.308. PaginatedListCloud Hosted Subnet

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Cloud Hosted Subnet</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.309. PaginatedListCloud Instance Template

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Cloud Instance Template</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.310. PaginatedListCloudResourceWrapper

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">CloudResourceWrapper</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.311. PaginatedListComponent

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Component</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.312. PaginatedListContacts Information

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Contacts Information</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.313. PaginatedListDHCP Appliance Statistics Details

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">DHCP Appliance Statistics Details</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.314. PaginatedListDNS Appliance Statistics Details

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">DNS Appliance Statistics Details</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.315. PaginatedListDNS Cloud Provider

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">DNS Cloud Provider</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.316. PaginatedListDNS TSIG (Transaction Signatures) Keys

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">DNS TSIG (Transaction Signatures) Keys</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.317. PaginatedListDevice Details

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Device Details</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.318. PaginatedListDiscoDashboard

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">DiscoDashboard</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.319. PaginatedListDiscovery Exclusions

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Discovery Exclusions</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.320. PaginatedListDiscovery Template

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Discovery Template</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.321. PaginatedListDiscoveryEvents

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">DiscoveryEvents</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.322. PaginatedListDiscoveryRouters

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">DiscoveryRouters</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.323. PaginatedListDomain

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Domain</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.324. PaginatedListExternal DNS Master

Name	Description	Schema
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Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">External DNS Master</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.325. PaginatedListExternal DNS Zone

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">External DNS Zone</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.326. PaginatedListFile Set

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">File Set</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.327. PaginatedListFirewall Element Details

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Firewall Element Details</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.328. PaginatedListFirewall Interface

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Firewall Interface</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.329. PaginatedListFirewall NAT Pool Details

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Firewall NAT Pool Details</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.330. PaginatedListFirewall Neighbor

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Firewall Neighbor</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.331. PaginatedListFirewall Subnet

Name	Description	Schema
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Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Firewall Subnet</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.332. PaginatedListFirewallSubnetElement

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">FirewallSubnetElement</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.333. PaginatedListForwardersCategory

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">ForwardersCategory</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.334. PaginatedListFunction

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Function</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.335. PaginatedListFunctions

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Functions</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.336. PaginatedListGSLBRRRRule

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">GSLBRRRRule</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.337. PaginatedListGSLBTrafficControlRules

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">GSLBTrafficControlRules</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.338. PaginatedListHome

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Home</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.339. PaginatedListHome Scopes

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Home Scopes</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.340. PaginatedListIPAMAppliance

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">IPAMAppliance</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.341. PaginatedListIPv6 Scope

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">IPv6 Scope</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.342. PaginatedListIPv6 Network Details

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">IPv6 Network Details</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.343. PaginatedListIPv6 Object

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">IPv6 object</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.344. PaginatedListIPv6 Subnet

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">IPv6 Subnet</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.345. PaginatedListIntrusion Provision System Rule

Name	Description	Schema
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Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Intrusion Provision System Rule</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

#### 5.346. PaginatedListLog

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Log</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

#### 5.347. PaginatedListLogs Information

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Logs Information</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

#### 5.348. PaginatedListMS DNS Logs Wrapper

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">MS DNS Logs Wrapper</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

#### 5.349. PaginatedListMicrosoft Server Information

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Microsoft Server Information</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

#### 5.350. PaginatedListMirrored Zones

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Mirrored Zones</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

#### 5.351. PaginatedListMonitor Information

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Monitor Information</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

#### 5.352. PaginatedListMonitored Devices

Name	Description	Schema
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Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Monitored devices</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.353. PaginatedListMonitoring Service Information

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Monitoring Service Information</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.354. PaginatedListNetwork Information

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Network Information</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.355. PaginatedListNetwork Security Monitoring Template

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Network Security Monitoring Template</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.356. PaginatedListNotification Details

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Notification Details</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.357. PaginatedListPayload For Approval Workflows.

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Payload for Approval Workflows.</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.358. PaginatedListPermission

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Permission</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.359. PaginatedListPolicy Compliance Entity

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Policy Compliance Entity</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.360. PaginatedListPort Details

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Port Details</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.361. PaginatedListResource Record

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Resource Record</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.362. PaginatedListRouter Element Details

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Router Element Details</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.363. PaginatedListRouter Interface

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Router Interface</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.364. PaginatedListRouter Neighbor

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Router Neighbor</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.365. PaginatedListRouter Subnet

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Router Subnet</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.366. PaginatedListRouterSubnetElement

Name	Description	Schema
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Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">RouterSubnetElement</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.367. PaginatedListSLBAclRule

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">SLBAclRule</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.368. PaginatedListSLBAppliance

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">SLBAppliance</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.369. PaginatedListSLBApplianceTemplate

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">SLBApplianceTemplate</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.370. PaginatedListSLBBackendAssociation

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">SLBBackendAssociation</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.371. PaginatedListSLBBackendConfig

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">SLBBackendConfig</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.372. PaginatedListSLBBindProperties

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">SLBBindProperties</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.373. PaginatedListSLBFrontEndBasicProperties

Name	Description	Schema
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Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">SLBFrontEndBasicProperties</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

#### 5.374. PaginatedListSLBResponsePage

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">SLBResponsePage</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

#### 5.375. PaginatedListSecurity Group

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Security Group</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

#### 5.376. PaginatedListServer Information

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Server Information</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

#### 5.377. PaginatedListSubnet Elements

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Subnet Elements</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

#### 5.378. PaginatedListSubnet Information

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Subnet Information</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

#### 5.379. PaginatedListSubnet Template

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Subnet Template</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

#### 5.380. PaginatedListSwitch Details

Name	Description	Schema
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Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Switch Details</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.381. PaginatedListSwitch Element Details

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Switch Element Details</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.382. PaginatedListSwitch Neighbor

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Switch Neighbor</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.383. PaginatedListSwitch VLAN Subnet Element Details

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Switch VLAN Subnet Element Details</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.384. PaginatedListTIMS Object

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">TIMS Object</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.385. PaginatedListTemplate

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Template</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.386. PaginatedListUndo Data

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Undo Data</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.387. PaginatedListUser

Name	Description	Schema
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Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">User</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.388. PaginatedListV6IPAMAppliance

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">V6IPAMAppliance</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.389. PaginatedListVMWare Discovery Element Details

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">VMWare Discovery Element Details</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.390. PaginatedListVRF

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">VRF</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.391. PaginatedListVlan Details

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Vlan Details</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.392. PaginatedListVlan Subnet Details

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Vlan Subnet Details</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.393. PaginatedListWhitelist And Blacklist Domain

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Whitelist and Blacklist domain</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.394. PaginatedListXtnResponse

Name	Description	Schema
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Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">XtnResponse</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.395. PaginatedListZone

Name	Description	Schema
<b>data</b> <i>optional</i>	Rows List	< <a href="#">Zone</a> > array
<b>recordsFiltered</b> <i>optional</i>	Total number of rows fetched based on filter. <b>Example</b> : 40	integer(int32)
<b>recordsTotal</b> <i>optional</i>	Total number of rows. <b>Example</b> : 40	integer(int32)

### 5.396. Parameters Information

Persists the attributes of various DNS and DHCP Configuration parameters - such as their actual name, Configuration name, Option number in case of DHCP, Data type, the value for the Parameter etc.

Name	Description	Schema
<b>array_params</b> <i>optional</i>	Collection of DNS/DHCP Params	< <a href="#">Parameters Information</a> > array
<b>config_name</b> <i>required</i>	Name of the parameter as in the DNS/DHCP Configuration Files	string
<b>created_by</b> <i>required</i>	Id of the User who has created the specified Parameter.	integer(int32)
<b>created_by_login_name</b> <i>optional</i>	The User's name, who has logged into TCPWave IPAM, has been set as Created By for the specified Parameter.	string
<b>created_by_name</b> <i>optional</i>	Name of the User who has created the specified Parameter.	string
<b>created_time</b> <i>optional</i>	The time instance when the specified Resource Record has been created.	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified Parameter has been created. <b>Example</b> : "03/18/2022 3:37"	string
<b>data_type</b> <i>optional</i>	Data type of the specified Parameter.	string
<b>display_name</b> <i>optional</i>	Display name of a parameter	string
<b>entity_type_code</b> <i>required</i>	Code for the entity type	string
<b>entity_type_id</b> <i>optional</i>	Database ID of the entity type	integer(int32)
<b>group_name</b> <i>required</i>	Category of a parameter	string
<b>id</b> <i>optional</i>	Id of the specified Parameter.	string
<b>mandatory</b> <i>optional</i>	Defines if the Parameter is mandatory or not.	string
<b>max_value</b> <i>optional</i>	Maximum value of the specified Parameter.	integer(int32)
<b>min_value</b> <i>optional</i>	Minimum value of the specified Parameter.	integer(int32)
<b>name</b> <i>optional</i>	Name of the specified Parameter.	string
<b>old_group_name</b> <i>optional</i>	DHCP custom folder previous name. <b>Example</b> : "DGroup1"	string
<b>server_type_code</b> <i>required</i>	Code for the server type	string
<b>subOption</b> <i>optional</i>	Create the sub option <b>Example</b> : true	boolean
<b>updated_by</b> <i>required</i>	Id of the User who has modified the specified Parameter.	integer(int32)

Name	Description	Schema
<b>updated_by_login_name</b> <i>optional</i>	The User's name, who has logged into TCPWave IPAM, has been set as Created By for the specified Parameter.	string
<b>updated_by_name</b> <i>optional</i>	Name of the User who has modified the specified Parameter.	string
<b>updated_time</b> <i>optional</i>	The time instance when the specified Resource Record has been modified.	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified Parameter has been modified. <b>Example</b> : "03/18/2022 3:37"	string
<b>user_defined</b> <i>required</i>	Boolean to check if a parameter is user defined or not	string
<b>value</b> <i>optional</i>	Value of the specified Parameter.	string

### 5.397. Patch deployment details in a Server.

This class contains the patch deployment information in a server. It contains the details of sever address, server name, patch name, level, status, description, package version, status, description.

Name	Description	Schema
<b>componentCode</b> <i>optional</i>		string
<b>created_by</b> <i>optional</i>		integer(int32)
<b>created_by_name</b> <i>optional</i>		string
<b>created_time</b> <i>optional</i>		string(date-time)
<b>created_time_string</b> <i>optional</i>		string
<b>description</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int32)
<b>message</b> <i>optional</i>		string
<b>package_description</b> <i>optional</i>		string
<b>package_id</b> <i>optional</i>		integer(int32)
<b>package_major_version</b> <i>optional</i>		string
<b>package_minor_version</b> <i>optional</i>		string
<b>package_name</b> <i>optional</i>		string
<b>package_server_type</b> <i>optional</i>		string
<b>package_version</b> <i>optional</i>		string
<b>patchSchedule_job_id</b> <i>optional</i>		string
<b>patch_description</b> <i>optional</i>		string
<b>patch_id</b> <i>optional</i>		integer(int32)
<b>patch_level</b> <i>optional</i>		integer(int32)
<b>patch_name</b> <i>optional</i>		string
<b>patch_schedule_id</b> <i>optional</i>		integer(int32)
<b>server_id</b> <i>optional</i>		integer(int32)

Name	Description	Schema
<b>server_ipaddress</b> <i>optional</i>		string
<b>server_name</b> <i>optional</i>		string
<b>server_type</b> <i>optional</i>		string
<b>status</b> <i>optional</i>		integer(int32)
<b>status_string</b> <i>optional</i>		string
<b>stepId</b> <i>optional</i>		integer(int32)
<b>updated_by</b> <i>optional</i>		integer(int32)
<b>updated_by_name</b> <i>optional</i>		string
<b>updated_time</b> <i>optional</i>		string(date-time)
<b>updated_time_string</b> <i>optional</i>		string
<b>workflowId</b> <i>optional</i>		integer(int32)

### 5.398. Payload for Approval Workflows.

This bean encapsulates the information needed to execute the operation when it is staged for approval and processing.

Name	Description	Schema
<b>approverLoginName</b> <i>optional</i>	User who has approved/denied the workflow <b>Example</b> : "SADM/FADM"	string
<b>changeTicket</b> <i>optional</i>	Change ticket number obtained from the session information <b>Example</b> : "12345"	string
<b>created_by_login_name</b> <i>optional</i>	User Name who has created the specified operation. <b>Example</b> : "John"	string
<b>created_time_string</b> <i>optional</i>	The time when the specified operation is created, in string format. <b>Example</b> : "01/20/2022 6:04:15"	string
<b>data</b> <i>optional</i>	Data encapsulating the workflow information <b>Example</b> : "{ \"addressArray\" : [ \"10.0.0.3\" ], \"isDeleterrrsChecked\" : 0, \"organization_name\" : \"World\", \"routersArray\" : [ ], \"subnet_id\" : 848652, \"updated_by\" : \"23199\" }"	string
<b>description</b> <i>optional</i>	Description <b>Example</b> : "Adding an object."	string
<b>entity</b> <i>optional</i>	DDI Classification <b>Example</b> : "IPv4 Network/IPv4 Subnet/Subnet Group/IPv4 Object/IPv4 DHCP Scopes/DNS Domain/DNS Managed Zone"	string
<b>executionSummary</b> <i>optional</i>	Execution Summary <b>Example</b> : "Completed. Time taken: 410 ms"	string
<b>extensionData</b> <i>optional</i>	Any extended attributes that are applicable to the workflow entity <b>Example</b> : "extension"	string
<b>notes</b> <i>optional</i>	Notes for workflow. <b>Example</b> : "Adding an object."	string
<b>operation</b> <i>optional</i>	Operations Add, Edit, Delete, Multi-Add, Add-All, Subnet Split and Subnet Merge(ForSubnets) are supported <b>Example</b> : "Add"	string
<b>stage</b> <i>optional</i>	The stage of the workflow <b>Example</b> : "Staged/Approved/Denied/Implement/Completed"	string
<b>stageCode</b> <i>optional</i>	Stage code of workflow <b>Example</b> : "1/2/3/4/5"	integer(int32)
<b>status</b> <i>optional</i>	The status of the workflow <b>Example</b> : "Awaiting Approval/In Progress/Pass/Fail"	string
<b>statusCode</b> <i>optional</i>	Status code of workflow <b>Example</b> : "1/2/3/4"	integer(int32)
<b>updated_by_login_name</b> <i>optional</i>	User Name who has updated the specified operation. <b>Example</b> : "John"	string

Name	Description	Schema
<b>updated_time_string</b> <i>optional</i>	The time when the specified operation is updated, in string format. <b>Example</b> : "01/20/2022 6:04:15"	string

### 5.399. Permission

Name	Description	Schema
<b>adminAdminGroup</b> <i>optional</i>		string
<b>adminGroupName</b> <i>required</i>	Admin group name <b>Example</b> : "Dev"	string
<b>adminName</b> <i>required</i>	Admin name <b>Example</b> : "Jack"	string
<b>createdBy</b> <i>optional</i>		string
<b>createdTime</b> <i>optional</i>		string
<b>functionName</b> <i>required</i>	Function Name <b>Example</b> : "IPv4 Networks"	string
<b>functionValue</b> <i>required</i>	Function value <b>Example</b> : "test"	string
<b>organizationName</b> <i>required</i>	Organization Name <b>Example</b> : "Internal"	string
<b>permissionLevel</b> <i>required</i>	Permission level either admin or admin-group <b>Example</b> : "admin/admin-group"	string
<b>privilege</b> <i>required</i>	Privilege <b>Example</b> : "2/4/6"	integer(int32)
<b>role</b> <i>required</i>	Role <b>Example</b> : "NADM/PADM"	string
<b>selectAll</b> <i>required</i>	Is select all <b>Example</b> : "0/1"	integer(int32)
<b>selectedList</b> <i>required</i>	comma separated list of Selected entity like selected networks or subnets <b>Example</b> : "network1,network2"	string
<b>updatedBy</b> <i>optional</i>		string
<b>updatedTime</b> <i>optional</i>		string
<b>userId</b> <i>optional</i>		integer(int32)

### 5.400. Permission Information

This class represents the permission information for a resource instance in the TCPWave IPAM. The information includes the entity type (Network, Subnet, Object and Subnet Group), and the resource instances (id/name or IP), and the list of Admin Groups and Admins that are associated with that privilege.

Name	Description	Schema
<b>admins</b> <i>optional</i>	Admin Permission	< <a href="#">Authorization Entry</a> > array
<b>groups</b> <i>optional</i>	Admin Permission Group	< <a href="#">Authorization Entry</a> > array
<b>target_names</b> <i>optional</i>	Address of Network/Subnet/Object for which permission is given.	< string > array
<b>target_type</b> <i>required</i>	Various targets to which the enforcement is applicable <b>Example</b> : "N (for network)/S (for subnet)/O (for object)"	string

### 5.401. Ping Data

This class holds the results of a ping operation. This class is used for internal calls in TCPWave IPAM.

Name	Description	Schema
<b>avg</b> <i>required</i>	Average value ping result	string
<b>hops</b> <i>required</i>	List of hope data	< <a href="#">HopData</a> > array
<b>ip</b> <i>optional</i>		string
<b>isUp</b> <i>optional</i>		boolean

Name	Description	Schema
<b>loss</b> <i>optional</i>		string
<b>max</b> <i>required</i>	Max value ping result	string
<b>min</b> <i>optional</i>		string
<b>rx</b> <i>required</i>	Rx value ping result	string
<b>tx</b> <i>required</i>	Tx value ping result	string

### 5.402. Policy Compliance Entity

CheckoutEntity class encapsulates the attributes that are required to perform policy compliance operations, such as Policy Name, Threshold Name, Expected Value, Actual Value etc.

Name	Description	Schema
<b>actualValue</b> <i>required</i>	Actual value of the threshold <b>Example</b> : "100"	string
<b>checkoutID</b> <i>optional</i>	Database ID of the policy compliance action <b>Example</b> : 543	integer(int32)
<b>checkoutStatus</b> <i>optional</i>	Compliance status <b>Example</b> : "In Compliance"	string
<b>common</b> <i>required</i>	Common policy compliance flag. This flag indicates if the policy compliance entity is common among DNS and DHCP. <b>Example</b> : false	boolean
<b>expectedValue</b> <i>required</i>	Expected value of the threshold <b>Example</b> : "100"	string
<b>name</b> <i>optional</i>	Name of the appliance. <b>Example</b> : "ns0001"	string
<b>policyID</b> <i>optional</i>	Database ID of the policy <b>Example</b> : 546	integer(int32)
<b>policyName</b> <i>required</i>	Name of the policy <b>Example</b> : "TCPWave-Application-Check-Policy"	string
<b>server_type</b> <i>optional</i>	Type of the appliance. <b>Example</b> : "DHCP"	string
<b>setBaseLine</b> <i>required</i>	Set Baseline flag. This flag indicates if the policy compliance entity can be set baseline or not. <b>Example</b> : true	boolean
<b>thresholdName</b> <i>required</i>	Name of the threshold <b>Example</b> : "DNS Zone Count"	string
<b>v4_ipaddress</b> <i>optional</i>	IPv4 Address of the appliance. <b>Example</b> : "192.168.20.12"	string
<b>v6_ipaddress</b> <i>optional</i>	IPv6 Address of the appliance. <b>Example</b> : "2001:503:ba3e::2:30"	string

### 5.403. Port Details

This class represents switch port details which include index, name, vlan, duplex, speed, type, description, Mac Address and switch IP.

Name	Description	Schema
<b>commandId</b> <i>optional</i>		string
<b>desc</b> <i>optional</i>	Description	string
<b>duplex</b> <i>optional</i>	Duplex <b>Example</b> : "Full"	string
<b>ifIndex</b> <i>optional</i>	Interface Index <b>Example</b> : "2"	string
<b>index</b> <i>optional</i>	Port Index <b>Example</b> : "3"	string
<b>name</b> <i>optional</i>	Name <b>Example</b> : "eth1"	string
<b>physicalAddr</b> <i>optional</i>	Interface Physical Address <b>Example</b> : "10.1.1.2"	string

Name	Description	Schema
<b>speed</b> <i>optional</i>	Speed <b>Example</b> : "10Mbps"	string
<b>status</b> <i>optional</i>	Status <b>Example</b> : "down"	string
<b>switchIP</b> <i>optional</i>	Switch IP <b>Example</b> : "10.2.3.4"	string
<b>vlan</b> <i>optional</i>	Vlan <b>Example</b> : "vlan0"	string

#### 5.404. PrefixListId

Name	Description	Schema
<b>description</b> <i>optional</i>		string
<b>prefixListId</b> <i>optional</i>		string

#### 5.405. Progress Status Information

Holds various attributes that are associated to progress status.

Name	Description	Schema
<b>operation</b> <i>optional</i>		string
<b>organization</b> <i>optional</i>		string
<b>percentCompleted</b> <i>optional</i>	Percentage completed	integer(int32)
<b>response</b> <i>optional</i>	List of responses	< object > array
<b>serverIP</b> <i>optional</i>		string
<b>serverType</b> <i>optional</i>		string
<b>statusMsg</b> <i>optional</i>		string

#### 5.406. Quick Move

This class consolidates the details needed to move an object to different IP Address/name/domain.

Name	Description	Schema
<b>currentAddress</b> <i>required</i>	Current address of an object. <b>Example</b> : "10.2.3.0"	string
<b>currentDomain</b> <i>required</i>	Current domain of an object. <b>Example</b> : "tcpctest.com"	string
<b>currentName</b> <i>required</i>	Current name of an object. <b>Example</b> : "3G00001Phone"	string
<b>destinationAddress</b> <i>required</i>	Destination Address of an object. <b>Example</b> : "10.1.6.0"	string
<b>destinationDomain</b> <i>required</i>	Destination domain of an object. <b>Example</b> : "test.com"	string
<b>destinationName</b> <i>required</i>	Destination name. <b>Example</b> : "phone32"	string
<b>moveType</b> <i>required</i>	Object or Alias.	string
<b>organizationName</b> <i>required</i>	Name of an organization. <b>Example</b> : "Internal"	string
<b>status</b> <i>optional</i>		boolean

#### 5.407. RPZTemplate

Name	Description	Schema
<b>certfile</b> <i>optional</i>		string
<b>created_by</b> <i>optional</i>		integer(int32)

Name	Description	Schema
<b>created_by_name</b> <i>optional</i>		string
<b>created_time</b> <i>optional</i>		string(date-time)
<b>created_time_string</b> <i>optional</i>		string
<b>data</b> <i>optional</i>		string
<b>description</b> <i>optional</i>		string
<b>ext_feed_provider</b> <i>optional</i>		string
<b>full_policy_file</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int32)
<b>isZoneTransfer</b> <i>optional</i>		boolean
<b>name</b> <i>optional</i>		string
<b>new_name</b> <i>optional</i>		string
<b>organization_id</b> <i>optional</i>		integer(int32)
<b>organization_name</b> <i>optional</i>		string
<b>policy_file</b> <i>optional</i>		string
<b>rpz_qname_wait_recurse</b> <i>optional</i>		boolean
<b>server_ip</b> <i>optional</i>		< string > array
<b>server_keyalgo</b> <i>optional</i>		string
<b>server_keyname</b> <i>optional</i>		string
<b>server_keyvalue</b> <i>optional</i>		string
<b>updated_by</b> <i>optional</i>		integer(int32)
<b>updated_by_name</b> <i>optional</i>		string
<b>updated_time</b> <i>optional</i>		string(date-time)
<b>updated_time_string</b> <i>optional</i>		string
<b>url</b> <i>optional</i>		string
<b>zone_name</b> <i>optional</i>		string
<b>zone_type</b> <i>optional</i>		integer(int32)

#### 5.408. RRSets Order

This class represents an RRSets Order and contains the attributes necessary for RRSetsOrder management functionality in TCPWave IPAM. The information includes the Zone Name, Resource Record Type, RRSets Order Value and other RRSetsOrder related information.

Name	Description	Schema
<b>isDefaultOrder</b> <i>optional</i>	Takes 0 or 1 to specify whether the RRSets Order is default or not <b>Example</b> : 0	integer(int32)
<b>recordType</b> <i>required</i>	Type of the specified Resource Record. <b>Example</b> : "CNAME"	string



Name	Description	Schema
<b>rrDefaultOrder</b> <i>required</i>	Specifies the default order for RRSet Order. <b>Example</b> : "Random"	string
<b>rrSetOrder</b> <i>required</i>	Specifies the order of the Resource Record. <b>Example</b> : "Cyclic"	string
<b>zone_name</b> <i>required</i>	Name of a zone. <b>Example</b> : "tcpwave.com"	string

### 5.409. Reference Results

This class contains the list of Subnets, Objects, Servers, ACLs, Templates, AdminGroups, Scopes, Zones, RRs, DNS Servers and DHCP Appliances. This class is used to get and set search results of the above lists.

Name	Description	Schema
<b>aclList</b> <i>optional</i>	List of Access Control List(ACLs)	<a href="#">PagedListAccess Control List(ACL)</a>
<b>adminList</b> <i>optional</i>	List of Admins.	<a href="#">PagedListUser</a>
<b>agList</b> <i>optional</i>	List of Admin Groups.	<a href="#">PagedListAdmin Group</a>
<b>dhcpServerList</b> <i>optional</i>	List of available DHCP Appliances.	<a href="#">PagedListServer Information</a>
<b>dnsServerList</b> <i>optional</i>	List of available DNS Servers.	<a href="#">PagedListServer Information</a>
<b>externalDNSZoneList</b> <i>optional</i>	List of Non-managed DNS zone references which are associated with the specified Non-managed DNS master.	<a href="#">PagedListExternal DNS Zone</a>
<b>getv6ObjList</b> <i>optional</i>	List of IPV6 Objects which are associated with the Specified Resource Record.	<a href="#">PagedListIPv6 Object</a>
<b>getv6ScopeList</b> <i>optional</i>	List of available Scopes.	<a href="#">PagedListIPv6 Scope</a>
<b>getv6SubnetList</b> <i>optional</i>	List of IPV6 Subnet References which are associated with the Specified Network.	<a href="#">PagedListIPv6 Subnet</a>
<b>networkList</b> <i>optional</i>	List of available networks.	<a href="#">PagedListNetwork Information</a>
<b>nsmTemplateList</b> <i>optional</i>	List of available DNS Servers.	<a href="#">PagedListNetwork Security Monitoring Template</a>
<b>objList</b> <i>optional</i>	List of Objects which are associated with the Specified Resource Record.	<a href="#">PagedListTIMS Object</a>
<b>rrlist</b> <i>optional</i>	List of Resource Records.	<a href="#">PagedListResource Record</a>
<b>scopeList</b> <i>optional</i>	List of available Scopes.	<a href="#">PagedListScope Information</a>
<b>serverList</b> <i>optional</i>	List of all Servers.	<a href="#">PagedListServer Information</a>
<b>subnetList</b> <i>optional</i>	List of Subnet References which are associated with the Specified Network.	<a href="#">PagedListSubnet Information</a>
<b>subnetTemplateList</b> <i>optional</i>	List of Subnet Templates.	<a href="#">PagedListSubnet Template</a>
<b>templList</b> <i>optional</i>	List of templates.	<a href="#">PagedListTemplate</a>
<b>zoneList</b> <i>optional</i>	List of Zones.	<a href="#">PagedListZone</a>

### 5.410. Remote Cluster Server Information

Remote Cluster Server bean class encapsulates the attributes of a remote cluster setup.

Name	Description	Schema
<b>allowKernelRoutersCountDiff</b> <i>optional</i>		boolean
<b>createdBy</b> <i>optional</i>		integer(int32)
<b>createdByName</b> <i>optional</i>		string
<b>createdTime</b> <i>optional</i>		string(date-time)

Name	Description	Schema
<b>createdTimeString</b> <i>optional</i>		string
<b>description</b> <i>optional</i>		string
<b>extraInfo</b> <i>optional</i>		string
<b>node01OrgName</b> <i>optional</i>		string
<b>node01Priority</b> <i>optional</i>	Priority of the first node in the cluster.	integer(int32)
<b>node01ServerIP</b> <i>optional</i>		string
<b>node01ServerId</b> <i>required</i>	Server id of the first node in the cluster.	integer(int32)
<b>node01ServerName</b> <i>optional</i>		string
<b>node02OrgName</b> <i>optional</i>		string
<b>node02Priority</b> <i>optional</i>	Priority of the second node in the cluster.	integer(int32)
<b>node02ServerIP</b> <i>optional</i>		string
<b>node02ServerId</b> <i>required</i>	Server id of the second node in the cluster.	integer(int32)
<b>node02ServerName</b> <i>optional</i>		string
<b>nodeStickiness</b> <i>optional</i>	Priority stickiness of the resources in a node.	integer(int32)
<b>numOfNodes</b> <i>required</i>	Number of nodes in the cluster.	integer(int32)
<b>serverIP</b> <i>optional</i>	Cluster IP.	string
<b>serverId</b> <i>required</i>	The cluster server id.	integer(int32)
<b>serverName</b> <i>optional</i>		string
<b>serverOrgName</b> <i>optional</i>		string
<b>serverType</b> <i>optional</i>		string
<b>updatedBy</b> <i>optional</i>		integer(int32)
<b>updatedByName</b> <i>optional</i>		string
<b>updatedAt</b> <i>optional</i>		string(date-time)
<b>updatedAtString</b> <i>optional</i>		string

#### 5.411. RemoteClusterState

Name	Description	Schema
<b>activeNode</b> <i>optional</i>		string
<b>clusterName</b> <i>optional</i>		string
<b>member01Active</b> <i>optional</i>		boolean
<b>member01IP</b> <i>optional</i>		string
<b>member01Name</b> <i>optional</i>		string
<b>member01Offline</b> <i>optional</i>		boolean

Name	Description	Schema
<b>member01Online</b> <i>optional</i>		boolean
<b>member01StandBy</b> <i>optional</i>		boolean
<b>member02Active</b> <i>optional</i>		boolean
<b>member02IP</b> <i>optional</i>		string
<b>member02Name</b> <i>optional</i>		string
<b>member02Offline</b> <i>optional</i>		boolean
<b>member02Online</b> <i>optional</i>		boolean
<b>member02StandBy</b> <i>optional</i>		boolean
<b>resource01Name</b> <i>optional</i>		string
<b>resource01State</b> <i>optional</i>		string
<b>resource02Name</b> <i>optional</i>		string
<b>resource02State</b> <i>optional</i>		string
<b>resourceName</b> <i>optional</i>		string
<b>resourceState</b> <i>optional</i>		string
<b>serverIP</b> <i>optional</i>		string
<b>serverName</b> <i>optional</i>		string
<b>serviceAffinityEnabled</b> <i>optional</i>		boolean

#### 5.412. ReportDNSStatsPerZone

Name	Description	Schema
<b>dnssec</b> <i>optional</i>	DNSSEC <b>Example</b> : "Signed"	string
<b>server_ip</b> <i>required</i>	Appliance IP <b>Example</b> : "10.1.10.2"	string
<b>server_name</b> <i>required</i>	Appliance Name <b>Example</b> : "testserver"	string
<b>totalRecords</b> <i>optional</i>	Total count of the zone resource records <b>Example</b> : 28	integer(int32)
<b>zoneRRs</b> <i>optional</i>	Zone RRs	< string, integer(int32) > map
<b>zone_name</b> <i>required</i>	Zone Name <b>Example</b> : "test.com"	string
<b>zone_type</b> <i>optional</i>	Zone Type <b>Example</b> : "Forward-Mapping"	string

#### 5.413. ReportDNSSubTraffic

Name	Description	Schema
<b>name</b> <i>optional</i>		string
<b>total</b> <i>optional</i>		string

#### 5.414. ReportDNSTraffic

Name	Description	Schema
<b>clientList</b> <i>optional</i>		< <a href="#">ReportDNSSubTraffic</a> > array

Name	Description	Schema
<b>domainList</b> <i>optional</i>		< <a href="#">ReportDNSSubTraffic</a> > array
<b>queriedList</b> <i>optional</i>		< <a href="#">ReportDNSSubTraffic</a> > array
<b>reportDuration</b> <i>optional</i>		string
<b>totalDNSQueryProcessed</b> <i>optional</i>		string

### 5.415. ResolutionPolicy

Name	Description	Schema
<b>created_by</b> <i>required</i>	Id of the User who has created the specified Resolution Policy. <b>Example</b> : 2017	integer(int32)
<b>created_by_name</b> <i>optional</i>	The User's name, who has logged into TCPWave IPAM, has been set as Created By for the specified Resolution Policy. <b>Example</b> : "Stephen"	string
<b>created_time</b> <i>optional</i>	The time instance when the specified Resolution Policy has been created. <b>Example</b> : "03/01/2022 3:39"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified Resolution Policy has been created. <b>Example</b> : "03/01/2022 4:37"	string
<b>description</b> <i>optional</i>	Description of the Specified Resolution Policy. <b>Example</b> : "This is the sample description"	string
<b>id</b> <i>optional</i>	Id of the specified Resolution Policy. <b>Example</b> : 1201	integer(int32)
<b>matchType</b> <i>required</i>	The match type of the specified Resolution Policy. <b>Example</b> : "Allow"	string
<b>name</b> <i>required</i>	Name of the specified Resolution Policy. <b>Example</b> : "BasicPolicy"	string
<b>old_name</b> <i>optional</i>	Old Name of the specified Resolution Policy. <b>Example</b> : "OldPolicy"	string
<b>organization_id</b> <i>optional</i>	Id of the Organization which is associated to the specified Resolution Policy. <b>Example</b> : 1200	integer(int32)
<b>organization_name</b> <i>required</i>	Name of the Organization which is associated to the specified Resolution Policy. <b>Example</b> : "EARTH"	string
<b>policyData</b> <i>required</i>	Array list of ACL which are associated with the Specified Resolution Policy.	< <a href="#">Access Control List(ACL)</a> > array
<b>policyDataValue</b> <i>optional</i>	The policy data of the specified Resolution Policy. <b>Example</b> : "EQ, 12.1.1.12;NE,NetworkSubnet"	string
<b>scopes</b> <i>required</i>	Scope names which are associated with the Specified Resolution Policy. <b>Example</b> : "Internal,1;Moscow,2"	string
<b>updated_by</b> <i>required</i>	Id of the User who has modified the specified Resolution Policy. <b>Example</b> : 2019	integer(int32)
<b>updated_by_name</b> <i>optional</i>	The User's name, who has logged into TCPWave IPAM, has been set as modified By for the specified Resolution Policy. <b>Example</b> : "Stephen"	string
<b>updated_time</b> <i>optional</i>	The time instance when the specified Resolution Policy has been modified. <b>Example</b> : "03/01/2022 4:37"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified Resolution Policy has been modified. <b>Example</b> : "03/01/2022 4:37"	string
<b>zone_id</b> <i>optional</i>	Id of the zone for which the specified Resolution Policy has been associated. <b>Example</b> : 1201	integer(int32)
<b>zone_name</b> <i>required</i>	Zone Name for which the specified Resolution Policy has been associated. <b>Example</b> : "zone.com"	string

### 5.416. Resource Record

This class represents a Resource Record and contains the attributes necessary for Resource Record management functionality in TCPWave IPAM. The information includes the Owner Name, Resource Record Value, Time To Live(TTL) Value and other Resource Record related information.

Name	Description	Schema
<b>context_type</b> <i>optional</i>		string
<b>created_by</b> <i>required</i>	Id of the User who has created the specified Resource Record. <b>Example</b> : "2017"	string
<b>created_by_login_name</b> <i>optional</i>	The User's name, who has logged into TCPWave IPAM, has been set as Created By for the specified resource record. <b>Example</b> : "Stephen"	string
<b>created_time</b> <i>optional</i>	The time instance when the specified Resource Record has been created. <b>Example</b> : "03/18/2022 3:39"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified RR has been created. <b>Example</b> : "03/18/2022 4:37"	string
<b>data</b> <i>optional</i>	Target Name of the specified Resource Record.	string
<b>description</b> <i>required</i>	Description of the specified Resource Record. <b>Example</b> : "Zone RR migrated to TCPWave IPAM by Professional Services."	string
<b>domain</b> <i>required</i>	Domain Name which is associated with the specified Resource Record. <b>Example</b> : "converge.com"	string
<b>domain_id</b> <i>required</i>	Domain Id which is associated with the specified Resource Record. <b>Example</b> : 135978	integer(int32)
<b>extensions</b> <i>optional</i>		< <a href="#">Xtn NVP</a> > array
<b>id</b> <i>optional</i>	Id of the specified Resource Record. <b>Example</b> : 39447	integer(int32)
<b>ipAddr</b> <i>required</i>	IP Address which is associated with the specified Resource Record. <b>Example</b> : "192.168.1.43"	string
<b>is_ad_rr</b> <i>required</i>	Defines if the specified Resource Record has been created by Active Directory. <b>Example</b> : "No"	integer(int32)
<b>is_external_rr</b> <i>required</i>	Defines if the specified Resource Record is external Resource Record or not. <b>Example</b> : "No"	integer(int32)
<b>mask</b> <i>optional</i>	Mask length of reverse zone <b>Example</b> : 28	integer(int32)
<b>name</b> <i>required</i>	Name of the specified Resource Record. <b>Example</b> : "cons.atcc.com."	string
<b>networkAddress</b> <i>required</i>	Address of the Network which is associated to the specified Resource Record. <b>Example</b> : "10.0.0.0"	string
<b>network_id</b> <i>required</i>	Id of the Network which is associated to the specified Resource Record. <b>Example</b> : 7939	integer(int32)
<b>olddata</b> <i>optional</i>		string
<b>oldowner</b> <i>optional</i>		string
<b>oldtype</b> <i>optional</i>		string
<b>organization_id</b> <i>required</i>	Id of the Organization which is associated to the specified Resource Record. <b>Example</b> : 990	integer(int32)
<b>organization_name</b> <i>required</i>	Name of the Organization which is associated to the specified Resource Record. <b>Example</b> : "EARTH"	string
<b>owner</b> <i>required</i>	Owner Name of the specified Resource Record. <b>Example</b> : "www.converge.com"	string
<b>proxy</b> <i>required</i>	Defines if the specified Resource Record is associated with Proxy Root Zone or not. <b>Example</b> : 1	integer(int32)
<b>rrclass</b> <i>required</i>	Class of the specified Resource Record. <b>Example</b> : "IN "	string
<b>rrtype</b> <i>required</i>	Type of the specified Resource Record. <b>Example</b> : "CNAME"	string

Name	Description	Schema
<b>source</b> <i>optional</i>	Defines the source of the resource record update <b>Example</b> : "c1oud"	string
<b>subnet_address</b> <i>required</i>	Address of the Subnet which is associated to the specified Resource Record. <b>Example</b> : "10.10.0.0"	string
<b>subnet_id</b> <i>required</i>	Id of the Subnet which is associated to the specified Resource Record. <b>Example</b> : 318534	integer(int32)
<b>ttl</b> <i>required</i>	Time To Live(TTL) of the specified Resource Record. <b>Example</b> : 1200	integer(int32)
<b>updated_by</b> <i>required</i>	Id of the User who has modified the specified Resource Record. <b>Example</b> : "2019"	string
<b>updated_by_login_name</b> <i>optional</i>	The User's name, who has logged into TCPWave IPAM, has been set as updated By for the specified resource record. <b>Example</b> : "Stephen"	string
<b>updated_time</b> <i>optional</i>	The time instance when the specified Resource Record has been modified. <b>Example</b> : "03/18/2022 4:37"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified RR has been modified. <b>Example</b> : "03/18/2022 4:37"	string
<b>viewList</b> <i>required</i>	Array list of DNS View which are associated with the Specified Resource Record.	< <a href="#">DNS View</a> > array
<b>view_id</b> <i>required</i>	Id of the DNS View Id which is associated to the specified Resource Record. <b>Example</b> : 21	integer(int32)
<b>view_name</b> <i>required</i>	Name of the DNS View Id which is associated to the specified Resource Record. <b>Example</b> : "Moscow"	string
<b>zoneName</b> <i>required</i>	Zone name which is associated with the specified Resource Record. <b>Example</b> : "atcc.com"	string

#### 5.417. Response Policy Zone(RPZ) Policy File

This class represents a Response Policy File in TCPWave IPAM. TCPWave IPAM supports RPZ using the concept of templates. The policy file holds the rpz policy rules necessary to manage a zone. The RPZ Template refers to the policy file.

Name	Description	Schema
<b>description</b> <i>optional</i>	Description of the RPZ Policy File	string
<b>policy_file</b> <i>optional</i>	Policy rules file name.	string

#### 5.418. Response Policy Zone(RPZ) Rule File

This class represents a Response Policy Rule in TCPWave IPAM. TCPWave IPAM supports RPZ using the concept of templates.

Name	Description	Schema
<b>action</b> <i>optional</i>	Action for internal usage.	string
<b>oldPolicyRR</b> <i>optional</i>	Policy Trigger RR old value.	string
<b>oldPolicyRhValue</b> <i>optional</i>	Policy Rules rh old value.	string
<b>policy_rhvalue</b> <i>required</i>	Policy Rules rh value.	string
<b>policy_rr</b> <i>required</i>	Policy Trigger RR value.	string
<b>policy_trigger</b> <i>required</i>	Policy Trigger Name.	string

#### 5.419. Response Policy Zone(RPZ) Template association information with DNS Server

This bean is used internally by TCPWave IPAM to manage the associations between an RPZ Template and a DNS Cache Server. When an RPZ Template is applied to a DNS Cache Server in TCPWave IPAM an instance of the RPZ Template association is created. (This is for internal use in TCPWave IPAM.)

Type : object

#### 5.420. Role

Name	Description	Schema

Name	Description	Schema
<b>arn</b> <i>optional</i>		string
<b>assumeRolePolicyDocument</b> <i>optional</i>		string
<b>createDate</b> <i>optional</i>		string(date-time)
<b>description</b> <i>optional</i>		string
<b>maxSessionDuration</b> <i>optional</i>		integer(int32)
<b>path</b> <i>optional</i>		string
<b>permissionsBoundary</b> <i>optional</i>		<a href="#">AttachedPermissionsBoundary</a>
<b>roleId</b> <i>optional</i>		string
<b>roleName</b> <i>optional</i>		string
<b>tags</b> <i>optional</i>		< <a href="#">Tag</a> > array

### 5.421. Root Access Management Details

Root Access Management Details class encapsulates the attributes that are required to set up Root Access Management across TCPWave IPAM infrastructure.

Name	Description	Schema
<b>updatedBy</b> <i>required</i>	User who has updated the information <b>Example</b> : "sadm"	string
<b>updatedAt</b> <i>optional</i>	Updated Time <b>Example</b> : "03/18/2022 4:50"	string(date-time)
<b>updatedAtStr</b> <i>required</i>	Updated Time	string
<b>useSSL</b> <i>required</i>	Use SSL <b>Example</b> : true	boolean
<b>vaultServerCertPath</b> <i>required</i>	Vault Server Certificate Path <b>Example</b> : "/tmp/cert.crt"	string
<b>vaultServerHost</b> <i>required</i>	Vault Host Address <b>Example</b> : "10.1.2.3"	string
<b>vaultServerPort</b> <i>required</i>	Vault Port <b>Example</b> : 8200	integer(int32)
<b>vaultType</b> <i>required</i>	Vault type <b>Example</b> : "Native"	string

### 5.422. Router

This class represents a discovery router

Name	Description	Schema
<b>base_bridge_address</b> <i>optional</i>	Base bridge address.	string
<b>commandId</b> <i>optional</i>		string
<b>id</b> <i>optional</i>	Id of the specified router. <b>Example</b> : 1	integer(int64)
<b>if_number</b> <i>optional</i>	if_number.	string
<b>ip</b> <i>optional</i>	IP address of the specified router. <b>Example</b> : "1.0.0.1"	string
<b>mac</b> <i>optional</i>	MAC.	string
<b>neighborip</b> <i>optional</i>		string
<b>platform</b> <i>optional</i>	Platform	string

Name	Description	Schema
<b>serial_number</b> <i>optional</i>	Serial number.	string
<b>sys_contact</b> <i>optional</i>	System contact.	string
<b>sys_desc</b> <i>optional</i>	System Description.	string
<b>sys_location</b> <i>optional</i>	System location.	string
<b>sys_name</b> <i>optional</i>	System name.	string
<b>sys_services</b> <i>optional</i>	System services.	string
<b>sys_uptime</b> <i>optional</i>	System uptime.	string
<b>vendor</b> <i>optional</i>	Vendor	string
<b>version</b> <i>optional</i>	Version	string

### 5.423. Router Element Details

This class represents the IP Address, Interface, Description and Mac Address details of a device connected to a Router.

Name	Description	Schema
<b>commandId</b> <i>optional</i>		string
<b>description</b> <i>required</i>	Description	string
<b>interfaceName</b> <i>required</i>	Interface name	string
<b>ipAddress</b> <i>required</i>	IP address <b>Example</b> : "10.0.0.0"	string
<b>lastSeen</b> <i>required</i>	Last seen	string
<b>macAddress</b> <i>required</i>	Mac address	string
<b>name</b> <i>required</i>	Router Element Name	string
<b>routerIP</b> <i>required</i>	Router IP	string
<b>uptime</b> <i>required</i>	Up time	string
<b>vrf</b> <i>optional</i>	VRF	string

### 5.424. Router Interface

This class represents a discovery router neighbor

Name	Description	Schema
<b>commandId</b> <i>optional</i>		string
<b>description</b> <i>optional</i>		string
<b>id</b> <i>optional</i>	Id of the specified router interface.	integer(int64)
<b>interfaceIp</b> <i>optional</i>	Interface IP. <b>Example</b> : "1"	string
<b>interfaceName</b> <i>optional</i>	Interface name. <b>Example</b> : "1"	string
<b>ipVersion</b> <i>optional</i>		integer(int32)
<b>protocol</b> <i>optional</i>	Protocol. <b>Example</b> : false	boolean
<b>routerIp</b> <i>optional</i>	IP address of the specified router interface. <b>Example</b> : "1"	string



Name	Description	Schema
<b>status</b> <i>optional</i>	Status. <b>Example</b> : false	boolean

### 5.425. Router Neighbor

This class represents a discovery router neighbor

Name	Description	Schema
<b>capabilities</b> <i>optional</i>	Router neighbor capabilities.	string
<b>chassis_id</b> <i>optional</i>	Chassis Id of the specified router neighbor.	string
<b>commandId</b> <i>optional</i>		string
<b>id</b> <i>optional</i>	Id of the specified router neighbor. <b>Example</b> : 1	integer(int64)
<b>ipVersion</b> <i>optional</i>		integer(int32)
<b>local_interface</b> <i>optional</i>	Local Interface of the specified router neighbor.	string
<b>management_ip</b> <i>optional</i>	Management IP of the specified router neighbor.	string
<b>neighbor</b> <i>optional</i>	Router Neighbor.	string
<b>neighbor_interface</b> <i>optional</i>	Interface of the specified router neighbor.	string
<b>neighbor_port_id</b> <i>optional</i>	Port Id of the specified router neighbor.	string
<b>protocol</b> <i>optional</i>		string
<b>routerIp</b> <i>optional</i>		string
<b>serial</b> <i>optional</i>	Serial.	string
<b>system_description</b> <i>optional</i>	System description.	string

### 5.426. Router Subnet

This class represents a router subnet

Name	Description	Schema
<b>appliance_ip</b> <i>optional</i>		string
<b>commandId</b> <i>optional</i>		string
<b>description</b> <i>optional</i>		string
<b>domain_name</b> <i>required</i>	Domain of the router. <b>Example</b> : "tcpwave.com"	string
<b>id</b> <i>optional</i>	Id of the specified router subnet. <b>Example</b> : 1	integer(int64)
<b>interfaceIp</b> <i>optional</i>		string
<b>interfaceName</b> <i>required</i>	Name of the interface. <b>Example</b> : "loopback0"	string
<b>ipVersion</b> <i>optional</i>		integer(int32)
<b>isAccepted</b> <i>optional</i>		integer(int32)
<b>local</b> <i>required</i>	Is local. <b>Example</b> : false	boolean
<b>nextHop</b> <i>required</i>	Next hop.	string
<b>objectIP</b> <i>optional</i>		string

Name	Description	Schema
<b>organization_name</b> <i>required</i>	Organization of the router. <b>Example</b> : "Internal"	string
<b>protocol</b> <i>required</i>	Protocol.	string
<b>routerIP</b> <i>required</i>	IP address of the router. <b>Example</b> : "10.1.10.2"	string
<b>subnetIP</b> <i>required</i>	IP address of the subnet. <b>Example</b> : "10.1.10.0"	string
<b>subnetMask</b> <i>required</i>	Subnet mask. <b>Example</b> : "255.255.255.0"	string
<b>subnetMaskLength</b> <i>required</i>	Mask length of subnet. <b>Example</b> : 24	integer(int32)
<b>type</b> <i>required</i>	type.	string
<b>vlan</b> <i>optional</i>		string
<b>vrfEnabled</b> <i>optional</i>		boolean
<b>vrfName</b> <i>optional</i>		string

### 5.427. Router Switch

This class represents a discovery router and switch relation.

Name	Description	Schema
<b>commandId</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int64)
<b>routerIp</b> <i>optional</i>		string
<b>switchIp</b> <i>optional</i>		string

### 5.428. RouterSubnetElement

Name	Description	Schema
<b>aton_address</b> <i>optional</i>		integer(int64)
<b>commandId</b> <i>optional</i>		string
<b>contact</b> <i>optional</i>		string
<b>description</b> <i>optional</i>		string
<b>device</b> <i>optional</i>		string
<b>domainName</b> <i>optional</i>		string
<b>ip_address</b> <i>optional</i>		string
<b>last_seen</b> <i>optional</i>		string
<b>latency</b> <i>optional</i>		string
<b>location</b> <i>optional</i>		string
<b>mac</b> <i>optional</i>		string
<b>maskLength</b> <i>optional</i>		integer(int32)
<b>name</b> <i>optional</i>		string
<b>organizationName</b> <i>optional</i>		string

Name	Description	Schema
<b>os</b> <i>optional</i>		string
<b>port_duplex</b> <i>optional</i>		string
<b>ports</b> <i>optional</i>		string
<b>routerIp</b> <i>optional</i>		string
<b>status</b> <i>optional</i>		string
<b>subnetIp</b> <i>optional</i>		string
<b>switch_name</b> <i>optional</i>		string
<b>switch_port</b> <i>optional</i>		string
<b>vendor</b> <i>optional</i>		string

#### 5.429. SLBAclRule

Name	Description	Schema
<b>aclElementList</b> <i>optional</i>	ACL element list of the specified ACL Ruleset.	< <a href="#">SLBAclRule</a> > array
<b>created_by</b> <i>optional</i>	Id of the User who has created the specified SLB ACL Ruleset. <b>Example</b> : 2017	integer(int32)
<b>created_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified Access Control List. <b>Example</b> : "Stephen"	string
<b>created_time</b> <i>optional</i>	String format of the time when the specified SLB ACL Ruleset has been created. <b>Example</b> : "03/01/2022 3:39"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified SLB ACL Ruleset is created. <b>Example</b> : "03/18/2022 3:39"	string
<b>customParameter</b> <i>optional</i>	Custom parameter value of the specified ACL Rule.	string
<b>description</b> <i>optional</i>	Description of the specified SLB ACL Ruleset. <b>Example</b> : "Access Control List for the cardsprod."	string
<b>fetchType</b> <i>required</i>	Fetch type of the specified ACL Rule Element. <b>Example</b> : "path"	string
<b>fileContent</b> <i>optional</i>	File content of the specified Rule element.	string
<b>fileName</b> <i>required</i>	File name of the specified Rule element.	string
<b>headerType</b> <i>optional</i>		string
<b>id</b> <i>optional</i>	ID of the specified SLB ACL Rule. <b>Example</b> : 1	integer(int32)
<b>isExclude</b> <i>optional</i>	Operator of the specified ACL Rule Element. <b>Example</b> : "1"	string
<b>is_case_sensitive</b> <i>required</i>	Case sensitive of the specified SLB ACL Rule element. <b>Example</b> : "1"	string
<b>methodType</b> <i>required</i>	Method tyoe of the specified SLB ACL Rule element. <b>Example</b> : "str"	string
<b>name</b> <i>required</i>	Name of the specified SLB ACL Ruleset. <b>Example</b> : "SLBAclRuleset"	string
<b>oldFileName</b> <i>required</i>	File name of the specified Rule element before mofifivation.	string
<b>oldRule</b> <i>optional</i>	Name of the specified Rule element before modification.	string
<b>old_name</b> <i>required</i>	Name of the specified SLB ACL Ruleset before modification. <b>Example</b> : "SLBRuleset"	string
<b>operator</b> <i>optional</i>		string

Name	Description	Schema
<b>organization_id</b> <i>required</i>	Id of the Organization which is associated with the specified SLB ACL Ruleset. <b>Example</b> : 990	integer(int32)
<b>organization_name</b> <i>required</i>	Name of the Organization associated with the specified SLB ACL Ruleset. <b>Example</b> : "Internal"	string
<b>rule</b> <i>required</i>	Rule name of the specified SLB ACL Rule element. <b>Example</b> : "Test"	string
<b>rule_count</b> <i>optional</i>		integer(int32)
<b>updated_by</b> <i>optional</i>	Id of the User who has modified the specified SLB ACL Ruleset. <b>Example</b> : 2019	integer(int32)
<b>updated_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Updated by for the specified Access Control List. <b>Example</b> : "John"	string
<b>updated_time</b> <i>optional</i>	The time instance when the specified SLB ACL Ruleset has been modified . <b>Example</b> : "03/01/2022 4:37"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified SLB ACL Ruleset is modified. <b>Example</b> : "03/18/2022 4:37"	string
<b>value</b> <i>required</i>	Value of the specified SLB ACL Rule element.	string

### 5.430. SLBAppliance

Name	Description	Schema
<b>alerts</b> <i>optional</i>	Alerts count on ADC appliance.	integer(int32)
<b>banner</b> <i>optional</i>	Banner of the SLB appliance	string
<b>bgpobj</b> <i>required</i>	Defines BGP configuration associated with the specified appliance. <a href="#">BGP Details</a>	<a href="#">BGP Details</a>
<b>connectedIPAM</b> <i>optional</i>		string
<b>created_by</b> <i>required</i>	Id of the User who has created the specified appliance.	integer(int32)
<b>created_by_login_name</b> <i>required</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified appliance. <b>Example</b> : "Stephen"	string
<b>created_time</b> <i>optional</i>	The time instance when the specified appliance has been created. <b>Example</b> : "05:21:35 02-01-2023"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified server is created. <b>Example</b> : "05:21:35 02-01-2023"	string
<b>description</b> <i>optional</i>	Description for the specified appliance. <b>Example</b> : "Corp. ADC appliance migrated to the TCPWave IPAM by Professional Services."	string
<b>discoveryConfig</b> <i>optional</i>	JSON string of the NTP configuration - for Internal use only	string
<b>domain_name</b> <i>required</i>	Name of the Domain which is associated with the specified appliance. <b>Example</b> : "atcc.com"	string
<b>enableSNMPv3</b> <i>required</i>	Specifies whether SNMPv3 is enabled or not on the appliance. <b>Example</b> : true	boolean
<b>frontEndList</b> <i>optional</i>	SLB Frontend configurations associated with the specified appliance.	< string > array
<b>gslbApplianceCount</b> <i>optional</i>	Count of GSLB enabled appliances. <b>Example</b> : 10	integer(int32)
<b>gslbConfig</b> <i>optional</i>	JSON string of the NTP configuration - for Internal use only <a href="#">GSLBBasicConfig</a>	<a href="#">GSLBBasicConfig</a>
<b>gslbHAMembers</b> <i>optional</i>	List of the HA members of an appliance.	< string > array
<b>gslbHeartbeat</b> <i>optional</i>	Hearbeat of an ADC appliance. <b>Example</b> : true	boolean
<b>gslbRuleList</b> <i>optional</i>	List of GSLB Traffic Control Ruleset associated with the specified appliance.	< string > array

Name	Description	Schema
<b>slb_option_template</b> <i>optional</i>	Name of the SLB option template for the specified appliance. <b>Example</b> : "SLBOptionTemplate"	string
<b>id</b> <i>optional</i>	Id of the specified server. <b>Example</b> : 121	integer(int32)
<b>idracPassword</b> <i>optional</i>	iDrac password of an appliance. <b>Example</b> : "xyzyx"	string
<b>idracSnmpCommunity</b> <i>optional</i>	iDrac SNMP Community string <b>Example</b> : "zxcv"	string
<b>isAlive</b> <i>optional</i>	Is secure communication establish or not <b>Example</b> : false	boolean
<b>lastSyncStatus</b> <i>optional</i>		string
<b>lastSyncTime</b> <i>optional</i>	Last sync time of the appliance <b>Example</b> : "05:21:35 02-01-2022"	string(date-time)
<b>lastSyncTimeString</b> <i>optional</i>	String format of the time when the specified appliance is last synchronized. <b>Example</b> : "05:21:35 02-01-2022"	string
<b>ldapSSHConfig</b> <i>optional</i>	JSON string of the LDAP SSH configuration - for Internal use only	string
<b>monitoringService</b> <i>required</i>	Defines if monitoring is enabled or disabled for the specified appliance. <b>Example</b> : false	boolean
<b>name</b> <i>required</i>	Name of the specified ADC appliance. <b>Example</b> : "TCPWaveADCAppliance"	string
<b>nicsConfig</b> <i>required</i>	List of network interface associated with the specified appliance	<a href="#">NICConfig</a>
<b>ntpConfig</b> <i>optional</i>	JSON string of the NTP configuration - for Internal use only	string
<b>objectId</b> <i>required</i>	Id of the Object which is associated with the specified appliance. <b>Example</b> : 990	integer(int32)
<b>organization_id</b> <i>required</i>	Id of the Organization which is associated with the specified appliance. <b>Example</b> : 990	integer(int32)
<b>organization_name</b> <i>required</i>	Name of the Organization which is associated to the specified appliance. <b>Example</b> : "EARTH"	string
<b>ospfConfiguration</b> <i>required</i>	Defines OSPF configuration associated with the specified appliance.	<a href="#">OSPF Details</a>
<b>remoteDebug</b> <i>optional</i>	Enable remote debugging on appliance. <b>Example</b> : false	boolean
<b>resolverData</b> <i>optional</i>	JSON Formatted /etc/resolv.conf	string
<b>rootPassword</b> <i>optional</i>	Root password of an appliance <b>Example</b> : "xyzyx"	string
<b>routingConfig</b> <i>optional</i>	Routing configuration	string
<b>routingType</b> <i>optional</i>		string
<b>rtTablesjson</b> <i>optional</i>	RtTable JSON string <b>Example</b> : "[{"port": "255", "name": "local"}, {"port": "254", "name": "main"}, {"port": "253", "name": "default"}, {"port": "0", "name": "unspec"}]"	string
<b>server_type</b> <i>required</i>	Type of the specified appliance. <b>Example</b> : "SLB"	string
<b>slbApplianceTemplate</b> <i>optional</i>	Name of the SLB Appliance template for the specified appliance. <b>Example</b> : "SLBApplianceTemplate"	string
<b>snmpAcl</b> <i>optional</i>		string
<b>snmpConfig</b> <i>optional</i>	JSON string of the SNMP configuration for Internal use only	string
<b>snmpv3Users</b> <i>required</i>	Specifies list of SNMPv3 users.	string
<b>subnetAddress</b> <i>required</i>	IPv4 subnet address which is associated with the specified appliance. <b>Example</b> : "192.1.10.200"	string

Name	Description	Schema
<b>syslogConfig</b> <i>optional</i>	JSON string of the Syslog-ng configuration -- for Internal use only	string
<b>syslogNgConfig</b> <i>optional</i>	JSON string of the Syslog-ng configuration -- for Internal use only	<a href="#">Syslog-ng configuration details</a>
<b>systemResources</b> <i>optional</i>	System resources details of the appliance	string
<b>tacacsConfig</b> <i>optional</i>	JSON string of the TACACS configuration - for Internal use only	string
<b>tacacsConfigDecrypted</b> <i>optional</i>	JSON decrypted string of the TACACS configuration - for Internal use only	string
<b>timeZone</b> <i>optional</i>	Time Zone of the given ADC Appliance	string
<b>updated_by</b> <i>required</i>	Id of the User who has modified the specified appliance.	integer(int32)
<b>updated_by_login_name</b> <i>required</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified server. <b>Example</b> : "John"	string
<b>updated_time</b> <i>optional</i>	The time instance when the specified appliance has been modified. <b>Example</b> : "05:22:35 02-01-2023"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified server is modified. <b>Example</b> : "05:22:35 02-01-2023"	string
<b>v4_ipaddress</b> <i>required</i>	IPV4 Address which is associated with the specified appliance. <b>Example</b> : "192.1.10.200"	string
<b>vipInterface</b> <i>optional</i>		string
<b>vrrpConfiguration</b> <i>required</i>	Defines VRRP configuration associated with the specified appliance.	<a href="#">VRRP Details</a>
<b>zebraConfig</b> <i>optional</i>	Zebra configuration for the given SLB appliance	string
<b>zebraobj</b> <i>required</i>	Defines Zebra configuration associated with the specified appliance.	<a href="#">BGP Details</a>

### 5.431. SLBApplianceTemplate

Name	Description	Schema
<b>array_params</b> <i>required</i>	Collection of DHCP Parameters	< <a href="#">Parameters Information</a> > array
<b>created_by</b> <i>required</i>	Id of the User who has created the specified Template. <b>Example</b> : 2017	integer(int32)
<b>created_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified Template. <b>Example</b> : "Stephen"	string
<b>created_time</b> <i>optional</i>	The instant when the specified Template has been created. <b>Example</b> : "03/18/2022 3:39"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified Server is created. <b>Example</b> : "03/18/2022 3:39"	string
<b>description</b> <i>optional</i>	Description of the specified Template. <b>Example</b> : "Zone Template Definition For Corp's External DNS Zones"	string
<b>entityType</b> <i>required</i>	Type of the entity which is associated with the specified Template. <b>Example</b> : "GSLB APPLIANCE"	string
<b>entity_Type_Code</b> <i>required</i>	Type Code of the entity which is associated with the specified Template. <b>Example</b> : "GSLBAPP"	string
<b>id</b> <i>optional</i>		integer(int32)
<b>name</b> <i>required</i>	Name of the specified Template. <b>Example</b> : "Appliance Template"	string
<b>old_name</b> <i>required</i>	Name of the specified template before modification. <b>Example</b> : "Appliance Template"	string
<b>organization_id</b> <i>required</i>	Id of the Organization associated with the specified Template. <b>Example</b> : 990	integer(int32)
<b>organization_name</b> <i>required</i>	Name of the Organization associated with the specified Template. <b>Example</b> : "EARTH"	string

Name	Description	Schema
<b>serverType</b> <i>required</i>	Server Type of a parameter associated with the specified Template.	string
<b>updated_by</b> <i>required</i>	Id of the User who has modified the specified Template. <b>Example</b> : 2019	integer(int32)
<b>updated_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Updated By for the specified Template. <b>Example</b> : "John"	string
<b>updated_time</b> <i>optional</i>	The time instance when the specified Template has been modified. <b>Example</b> : "03/18/2022 4:37"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified Server is modified. <b>Example</b> : "03/18/2022 4:37"	string

### 5.432. SLBBackEndAssociation

Name	Description	Schema
<b>aclAssociation</b> <i>optional</i>	Comma separated list of ACL associated to the specified backend pool association. <b>Example</b> : "SLBACL ,ACL_1"	string
<b>aclRules</b> <i>optional</i>	ACL rule list of the specified backend pool association.	< <a href="#">SLBAclRule</a> > array
<b>aclRulesString</b> <i>optional</i>	ACL rule string of the specified backend pool association. <b>Example</b> : "SLBACL ,ACL_1"	string
<b>backEndId</b> <i>optional</i>	Backend id of the specified backend pool association. <b>Example</b> : 102	integer(int32)
<b>backEndName</b> <i>required</i>	Name of the specified backend pool association. <b>Example</b> : "SLB_Pool"	string
<b>created_by</b> <i>required</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified backend pool association. <b>Example</b> : "Stephen"	integer(int32)
<b>created_by_login_name</b> <i>optional</i>	The User's name, who has logged into TCPWave IPAM, has been set as Created By for the specified backend pool association. <b>Example</b> : "twcadm"	string
<b>created_time</b> <i>optional</i>	The time instance when the specified backend pool association has been created. <b>Example</b> : "05:21:35 02-01-2022"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified backend pool association is created. <b>Example</b> : "03/18/2022 3:39"	string
<b>description</b> <i>optional</i>	Description of the specified backend pool association. <b>Example</b> : "Backend pool association For Corp's centre"	string
<b>frontEndId</b> <i>required</i>	Frontend id of the specified backend pool association. <b>Example</b> : 120	integer(int32)
<b>frontEndName</b> <i>required</i>	Frontend name of the specified backend pool association. <b>Example</b> : "SLB_FRONTEND"	string
<b>id</b> <i>optional</i>	Id of the specified backend pool association. <b>Example</b> : 120	integer(int32)
<b>isAndOperator</b> <i>optional</i>	And operator value of the specified backend pool association. <b>Example</b> : 1	integer(int32)
<b>oldBackEndName</b> <i>optional</i>	Name of the specified backend pool association before modification. <b>Example</b> : "SLB_BACKEND"	string
<b>organization_id</b> <i>required</i>	Id of the Organization associated with the specified backend pool association. <b>Example</b> : 110	integer(int32)
<b>organization_name</b> <i>required</i>	Name of the Organization associated with the specified backend pool association. <b>Example</b> : "Internal"	string
<b>updated_by</b> <i>required</i>	Id of the User who has modified the specified backend pool association. <b>Example</b> : "05:21:35 02-01-2022"	integer(int32)
<b>updated_by_login_name</b> <i>optional</i>	The User's name, who has logged into TCPWave IPAM, has been set as Updated By for the specified backend pool association. <b>Example</b> : "John"	string
<b>updated_time</b> <i>optional</i>	The time instance when the specified backend pool association has been modified. <b>Example</b> : "05:21:35 02-01-2022"	string(date-time)

Name	Description	Schema
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified backend pool association is modified. <b>Example</b> : "03/18/2022 4:37"	string

### 5.433. SLBBackEndConfig

Name	Description	Schema
<b>algorithm_type</b> <i>required</i>	Type of an algorithm for SLB backend configuration. <b>Example</b> : "990"	string
<b>cacheOptions</b> <i>required</i>	JSON cache options for SLB backend configuration.	string
<b>compressionAlgorithm</b> <i>required</i>	JSON compression algorithm for SLB backend configuration.	string
<b>compressionType</b> <i>required</i>	Type of compression for SLB backend configuration.	string
<b>created_by_login_name</b> <i>optional</i>	The User's name, who has logged into TCPWave IPAM, has been set as Created By for the specified Back-End. <b>Example</b> : "twcadm"	string
<b>created_time</b> <i>optional</i>	The instant when the specified Back-End has been created. <b>Example</b> : "03/18/2022 3:39"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified Back-End has been created. <b>Example</b> : "11:39:55 04-20-2022"	string
<b>custom_params</b> <i>required</i>	Custom parameter value.	string
<b>description</b> <i>optional</i>	Description of the specified Back-End. <b>Example</b> : "Back-End For Corp's centre"	string
<b>enableCompression</b> <i>required</i>	Enable compression on SLB backend configuration. <b>Example</b> : true	boolean
<b>enableOffloading</b> <i>required</i>	Enable offloading on SLB backend configuration. <b>Example</b> : true	boolean
<b>frontendName</b> <i>required</i>	Frontend name associated to the SLB backend configuration.	string
<b>healthConfig</b> <i>required</i>	JSON health config for SLB backend configuration.	<a href="#">SLBBackEndHealthConfig</a>
<b>isDisabled</b> <i>required</i>	Disable value for SLB backend configuration. <b>Example</b> : true	boolean
<b>isOldSSLVerifyNone</b> <i>required</i>	SSL verify value. <b>Example</b> : true	boolean
<b>isSSLVerifyNone</b> <i>required</i>	SSL verify value <b>Example</b> : false	boolean
<b>load_balance_mode</b> <i>required</i>	Mode of the load balance. <b>Example</b> : 1	integer(int32)
<b>name</b> <i>required</i>	Name of the specified Back-End <b>Example</b> : "Https nodes"	string
<b>node_health_params</b> <i>required</i>	Health parameters for Backend configuration.	string
<b>oldName</b> <i>required</i>	Name of the specified Back-End before modification. <b>Example</b> : "Https nodes Corp"	string
<b>oldSslCertFileName</b> <i>required</i>	SSL certificate file name before modification. <b>Example</b> : "true"	string
<b>organization_name</b> <i>required</i>	Name of the Organization associated with the specified Back-End. <b>Example</b> : "Internal"	string
<b>persistenceConfig</b> <i>required</i>	JSON persistence for SLB backend configuration.	<a href="#">SLBBackEndPersistence</a>
<b>slbBackEndNodes</b> <i>required</i>	List of backend nodes associated to SLB backend configuration.	< <a href="#">ADCNodeMember</a> > array
<b>slb_option_template_id</b> <i>required</i>	Id of the SLB option template associated with the specified SLB backend configuration. <b>Example</b> : 990	integer(int32)
<b>slb_option_template_name</b> <i>required</i>	Name of the SLB option template associated with the specified SLB backend configuration. <b>Example</b> : "990"	string
<b>sslCertFileData</b> <i>optional</i>		string



Name	Description	Schema
<b>sslCertFileName</b> <i>required</i>	SSL certificate file name.	string
<b>updated_by_login_name</b> <i>optional</i>	The User's name, who has logged into TCPWave IPAM, has been set as Updated By for the specified Back-End. <b>Example</b> : "John"	string
<b>updated_time</b> <i>optional</i>	The time instance when the specified Back-End has been modified. <b>Example</b> : "03/18/2022 4:37"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified Back-End has been modified. <b>Example</b> : "11:45:12 04-20-2022"	string

#### 5.434. SLBBackEndHealthConfig

Name	Description	Schema
<b>advance_health_params</b> <i>optional</i>		string
<b>errorLimit</b> <i>optional</i>		integer(int32)
<b>id</b> <i>optional</i>		integer(int32)
<b>isActiveHealth</b> <i>optional</i>		boolean
<b>isPassiveHealth</b> <i>optional</i>		boolean
<b>onError</b> <i>optional</i>		string
<b>slb_back_end_config_id</b> <i>optional</i>		integer(int32)
<b>slb_back_end_config_name</b> <i>optional</i>		string

#### 5.435. SLBBackEndPersistence

Name	Description	Schema
<b>persistenceParams</b> <i>optional</i>		string
<b>persistenceType</b> <i>optional</i>		string
<b>slb_back_end_config_id</b> <i>optional</i>		integer(int32)
<b>slb_back_end_config_name</b> <i>optional</i>		string

#### 5.436. SLBindProperties

Name	Description	Schema
<b>created_by</b> <i>required</i>	Id of the User who has created the specified frontend member. <b>Example</b> : 2017	integer(int32)
<b>created_by_login_name</b> <i>required</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified frontend member. <b>Example</b> : "Stephen"	string
<b>created_time</b> <i>optional</i>	The time instance when the specified frontend member has been created. <b>Example</b> : "05:21:35 02-01-2022"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified frontend member is created. <b>Example</b> : "03/18/2022 3:39"	string
<b>description</b> <i>optional</i>	Description for SLB frontend member. <b>Example</b> : "SLB Frontend Member."	string
<b>front_end_id</b> <i>required</i>	Frontend id of the specified frontend member. <b>Example</b> : 121	integer(int32)
<b>front_end_name</b> <i>required</i>	Frontend name of the specified frontend member. <b>Example</b> : "SLBFrontend"	string
<b>id</b> <i>required</i>	Id of the specified frontend member. <b>Example</b> : 121	integer(int32)
<b>ip_address</b> <i>required</i>	IP Address of the specified SLB frontend member. <b>Example</b> : "121"	string

Name	Description	Schema
<b>name</b> <i>required</i>	Name of the specified SLB frontend member. <b>Example</b> : "Member"	string
<b>object_id</b> <i>optional</i>	Object id of the specified frontend member. <b>Example</b> : 121	integer(int32)
<b>object_name</b> <i>required</i>	Object name of the specified SLB frontend member before modification.	string
<b>oldPorts</b> <i>required</i>	Port of the specified frontend member before modification. <b>Example</b> : "415"	string
<b>old_ip_address</b> <i>optional</i>	IP Address of the specified SLB frontend member before modification.	string
<b>old_name</b> <i>required</i>	Name of the specified frontend member before modification.	string
<b>old_ssl_file_name</b> <i>optional</i>	SSL file name of the specified SLB frontend member before modification.	string
<b>old_zone_name</b> <i>optional</i>	Zone name of the specified SLB frontend member before modification.	string
<b>organization_id</b> <i>required</i>	Organization id of the specified frontend. <b>Example</b> : 121	integer(int32)
<b>organization_name</b> <i>required</i>	Name of the Organization which is associated to the specified frontend. <b>Example</b> : "EARTH"	string
<b>ports</b> <i>required</i>	Port of the specified SLB frontend member. <b>Example</b> : "444"	string
<b>publishToBGP</b> <i>required</i>	Publish to BGP the specified SLB frontend member.	boolean
<b>publishToDNS</b> <i>required</i>	Publish to DNS the specified SLB frontend member. <b>Example</b> : false	boolean
<b>ssl_file_content</b> <i>optional</i>	SSL file content of the specified frontend member before modification.	string
<b>ssl_file_name</b> <i>optional</i>	SSL file name of the specified SLB frontend member.	string
<b>ttl</b> <i>optional</i>	TTL of the specified SLB frontend member. <b>Example</b> : 1200	integer(int32)
<b>updated_by</b> <i>required</i>	Id of the User who has modified the specified frontend member. <b>Example</b> : "05:21:35 02-01-2022"	integer(int32)
<b>updated_by_login_name</b> <i>required</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified frontend member. <b>Example</b> : "John"	string
<b>updated_time</b> <i>optional</i>	The time instance when the specified frontend member has been modified. <b>Example</b> : "05:21:35 02-01-2022"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified frontend member is modified. <b>Example</b> : "03/18/2022 4:37"	string
<b>zone_id</b> <i>optional</i>	Zone id of the specified frontend member. <b>Example</b> : 121	integer(int32)
<b>zone_name</b> <i>required</i>	Zone name of the specified SLB frontend member.	string

#### 5.437. SLBFrontEndBasicProperties

Name	Description	Schema
<b>advancedRules</b> <i>required</i>	Comma separated advanced rules for SLB frontend configuration.	string
<b>bindPropertiesList</b> <i>required</i>	List of bind properties.	< <a href="#">SLBBindProperties</a> > array
<b>cacheOptions</b> <i>required</i>	JSON of the cache options for the SLB frontend configuration.	string
<b>compressionAlgorithm</b> <i>required</i>	Compression algorithm.	string
<b>compressionType</b> <i>required</i>	Type of the compression for frontend configuration	string
<b>created_by</b> <i>required</i>	Id of the User who has created the specified frontend. <b>Example</b> : 2017	integer(int32)

Name	Description	Schema
<b>created_by_login_name</b> <i>required</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified frontend. <b>Example</b> : "Stephen"	string
<b>created_time</b> <i>optional</i>	The time instance when the specified frontend has been created. <b>Example</b> : "05:21:35 02-01-2022"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified frontend is created. <b>Example</b> : "03/18/2022 3:39"	string
<b>customParameters</b> <i>required</i>	Custom parameters for SLB frontend configuration.	string
<b>defaultBackendId</b> <i>required</i>	Default backend id. <b>Example</b> : 10	integer(int32)
<b>defaultBackendName</b> <i>required</i>	Default backend name. <b>Example</b> : "Backend"	string
<b>description</b> <i>required</i>	Description for SLB frontend configuration.	string
<b>enableCompression</b> <i>required</i>	Enable compression for SLB frontend configuration. <b>Example</b> : true	boolean
<b>enableWaf</b> <i>required</i>	Enable WAF for SLB frontend configuration. <b>Example</b> : true	boolean
<b>errorCodes</b> <i>optional</i>	Error pages for SLB frontend configuration.	string
<b>getxForwardedHttp</b> <i>required</i>	HTTP Forwarder value. <b>Example</b> : 1	integer(int32)
<b>getxForwardedProto</b> <i>required</i>	xForwarder proto value. <b>Example</b> : 1	integer(int32)
<b>getxForwardedProtoType</b> <i>required</i>	Type of xForwarder proto. <b>Example</b> : 1	integer(int32)
<b>httpClose</b> <i>required</i>	HTTP close value <b>Example</b> : 1	integer(int32)
<b>httpKeepAlive</b> <i>required</i>	HTTP Keep alive value <b>Example</b> : 1	integer(int32)
<b>httpServerClose</b> <i>required</i>	HTTP server close value <b>Example</b> : 1	integer(int32)
<b>httpToHttps</b> <i>required</i>	HTTP to HTTPS value <b>Example</b> : 1	integer(int32)
<b>http_keep_alive_timeout</b> <i>required</i>	HTTP keep alive timeout. <b>Example</b> : 1	integer(int32)
<b>http_request_allow_deny</b> <i>required</i>	HTTP request allow/deny.	string
<b>http_request_timeout</b> <i>required</i>	HTTP request timeout. <b>Example</b> : 1	integer(int32)
<b>httpsCode</b> <i>required</i>	HTTPS code value <b>Example</b> : 1	integer(int32)
<b>id</b> <i>optional</i>	Id of the specified frontend configuration. <b>Example</b> : 121	integer(int32)
<b>is_disabled</b> <i>required</i>	Disable value. <b>Example</b> : 1	integer(int32)
<b>maintenance</b> <i>required</i>	Enable maintenance for SLB frontend configuration. <b>Example</b> : false	boolean
<b>maximum_connections</b> <i>required</i>	Maximum connections <b>Example</b> : 500	integer(int32)
<b>mode</b> <i>required</i>	Mode value. <b>Example</b> : "HTTP/TCP"	integer(int32)
<b>name</b> <i>optional</i>		string
<b>old_name</b> <i>required</i>	Name of the specified SLB frontend configuration before modification.	string
<b>organization_id</b> <i>required</i>	Id of the Organization which is associated with the specified frontend configuration. <b>Example</b> : 990	integer(int32)
<b>organization_name</b> <i>required</i>	Name of the Organization which is associated to the specified frontend. <b>Example</b> : "EARTH"	string

Name	Description	Schema
<b>priority</b> <i>required</i>	Priority option for the selected SLB frontends in GSLB traffic control rule. <b>Example</b> : 1	integer(int32)
<b>rate_limit</b> <i>required</i>	Rate limit value. <b>Example</b> : 1	integer(int32)
<b>redirect_rules</b> <i>required</i>	Redirect rule value.	string
<b>tcpKeepAlive</b> <i>required</i>	TCP Keep alive value <b>Example</b> : 1	integer(int32)
<b>template</b> <i>required</i>	SLB Option template name. <b>Example</b> : "SLB0ptionTemplate"	string
<b>updated_by</b> <i>required</i>	Id of the User who has modified the specified frontend. <b>Example</b> : "05:21:35 02-01-2022"	integer(int32)
<b>updated_by_login_name</b> <i>required</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified frontend. <b>Example</b> : "John"	string
<b>updated_time</b> <i>optional</i>	The time instance when the specified frontend has been modified. <b>Example</b> : "05:21:35 02-01-2022"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified frontend is modified. <b>Example</b> : "03/18/2022 4:37"	string
<b>useDefaultBackEnd</b> <i>required</i>	Default backend. <b>Example</b> : true	boolean

#### 5.438. SLBProxyData

Name	Description	Schema
<b>act</b> <i>optional</i>		string
<b>addr</b> <i>optional</i>		string
<b>agent_code</b> <i>optional</i>		string
<b>agent_desc</b> <i>optional</i>		string
<b>agent_duration</b> <i>optional</i>		string
<b>agent_fall</b> <i>optional</i>		string
<b>agent_health</b> <i>optional</i>		string
<b>agent_rise</b> <i>optional</i>		string
<b>agent_status</b> <i>optional</i>		string
<b>agg_server_check_status</b> <i>optional</i>		string
<b>algo</b> <i>optional</i>		string
<b>applianceIp</b> <i>optional</i>		string
<b>applianceName</b> <i>optional</i>		string
<b>applianceType</b> <i>optional</i>		string
<b>bck</b> <i>optional</i>		string
<b>bin</b> <i>optional</i>		string
<b>bout</b> <i>optional</i>		string
<b>cache_hits</b> <i>optional</i>		string
<b>cache_lookups</b> <i>optional</i>		string

Name	Description	Schema
<b>check_code</b> <i>optional</i>		string
<b>check_desc</b> <i>optional</i>		string
<b>check_duration</b> <i>optional</i>		string
<b>check_fall</b> <i>optional</i>		string
<b>check_health</b> <i>optional</i>		string
<b>check_rise</b> <i>optional</i>		string
<b>check_status</b> <i>optional</i>		string
<b>chkdown</b> <i>optional</i>		string
<b>chkfail</b> <i>optional</i>		string
<b>cli_abrt</b> <i>optional</i>		string
<b>comp_byp</b> <i>optional</i>		string
<b>comp_in</b> <i>optional</i>		string
<b>comp_out</b> <i>optional</i>		string
<b>comp_rsp</b> <i>optional</i>		string
<b>conn_rate</b> <i>optional</i>		string
<b>conn_rate_max</b> <i>optional</i>		string
<b>conn_tot</b> <i>optional</i>		string
<b>connect</b> <i>optional</i>		string
<b>cookie</b> <i>optional</i>		string
<b>ctime</b> <i>optional</i>		string
<b>ctime_max</b> <i>optional</i>		string
<b>dcon</b> <i>optional</i>		string
<b>downtime</b> <i>optional</i>		string
<b>dreq</b> <i>optional</i>		string
<b>dresp</b> <i>optional</i>		string
<b>dses</b> <i>optional</i>		string
<b>econ</b> <i>optional</i>		string
<b>eint</b> <i>optional</i>		string
<b>ereq</b> <i>optional</i>		string
<b>eresp</b> <i>optional</i>		string
<b>h1_bytes_in</b> <i>optional</i>		string

Name	Description	Schema
<b>h1_bytes_out</b> <i>optional</i>		string
<b>h1_open_connections</b> <i>optional</i>		string
<b>h1_open_streams</b> <i>optional</i>		string
<b>h1_spliced_bytes_in</b> <i>optional</i>		string
<b>h1_spliced_bytes_out</b> <i>optional</i>		string
<b>h1_total_connections</b> <i>optional</i>		string
<b>h1_total_streams</b> <i>optional</i>		string
<b>h2_backend_open_streams</b> <i>optional</i>		string
<b>h2_backend_total_streams</b> <i>optional</i>		string
<b>h2_data_rcvd</b> <i>optional</i>		string
<b>h2_detected_conn_protocol_errors</b> <i>optional</i>		string
<b>h2_detected_strm_protocol_errors</b> <i>optional</i>		string
<b>h2_goaway_rcvd</b> <i>optional</i>		string
<b>h2_goaway_resp</b> <i>optional</i>		string
<b>h2_headers_rcvd</b> <i>optional</i>		string
<b>h2_open_connections</b> <i>optional</i>		string
<b>h2_rst_stream_rcvd</b> <i>optional</i>		string
<b>h2_rst_stream_resp</b> <i>optional</i>		string
<b>h2_settings_rcvd</b> <i>optional</i>		string
<b>h2_total_connections</b> <i>optional</i>		string
<b>hanafail</b> <i>optional</i>		string
<b>hrsp_1xx</b> <i>optional</i>		string
<b>hrsp_2xx</b> <i>optional</i>		string
<b>hrsp_3xx</b> <i>optional</i>		string
<b>hrsp_4xx</b> <i>optional</i>		string
<b>hrsp_5xx</b> <i>optional</i>		string
<b>hrsp_other</b> <i>optional</i>		string
<b>idle_conn_cur</b> <i>optional</i>		string
<b>iid</b> <i>optional</i>		string
<b>intercepted</b> <i>optional</i>		string
<b>last_agt</b> <i>optional</i>		string

Name	Description	Schema
<b>last_chk</b> <i>optional</i>		string
<b>lastchg</b> <i>optional</i>		string
<b>lastsess</b> <i>optional</i>		string
<b>lbtot</b> <i>optional</i>		string
<b>mode</b> <i>optional</i>		string
<b>need_conn_est</b> <i>optional</i>		string
<b>organization</b> <i>optional</i>		string
<b>pid</b> <i>optional</i>		string
<b>pxname</b> <i>optional</i>		string
<b>qcur</b> <i>optional</i>		string
<b>qlimit</b> <i>optional</i>		string
<b>qmax</b> <i>optional</i>		string
<b>qtime</b> <i>optional</i>		string
<b>qtime_max</b> <i>optional</i>		string
<b>rate</b> <i>optional</i>		string
<b>rate_lim</b> <i>optional</i>		string
<b>rate_max</b> <i>optional</i>		string
<b>req_rate</b> <i>optional</i>		string
<b>req_rate_max</b> <i>optional</i>		string
<b>req_tot</b> <i>optional</i>		string
<b>reuse</b> <i>optional</i>		string
<b>rtime</b> <i>optional</i>		string
<b>rtime_max</b> <i>optional</i>		string
<b>safe_conn_cur</b> <i>optional</i>		string
<b>scur</b> <i>optional</i>		string
<b>sid</b> <i>optional</i>		string
<b>slim</b> <i>optional</i>		string
<b>smax</b> <i>optional</i>		string
<b>src_ilm</b> <i>optional</i>		string
<b>srv_abrt</b> <i>optional</i>		string
<b>srv_icur</b> <i>optional</i>		string

Name	Description	Schema
<b>ssl_failed_handshake</b> <i>optional</i>		string
<b>ssl_reused_sess</b> <i>optional</i>		string
<b>ssl_sess</b> <i>optional</i>		string
<b>statsTime</b> <i>optional</i>		string
<b>status</b> <i>optional</i>		string
<b>status_b</b> <i>optional</i>		integer(int64)
<b>stot</b> <i>optional</i>		string
<b>svname</b> <i>optional</i>		string
<b>throttle</b> <i>optional</i>		string
<b>tracked</b> <i>optional</i>		string
<b>ttime</b> <i>optional</i>		string
<b>ttime_max</b> <i>optional</i>		string
<b>type</b> <i>optional</i>		string
<b>used_conn_cur</b> <i>optional</i>		string
<b>uweight</b> <i>optional</i>		string
<b>weight</b> <i>optional</i>		string
<b>wredis</b> <i>optional</i>		string
<b>wretr</b> <i>optional</i>		string
<b>wrew</b> <i>optional</i>		string

### 5.439. SLBResponsePage

Name	Description	Schema
<b>code</b> <i>required</i>	Error code of the specified SLB Response page. <b>Example</b> : 401	integer(int32)
<b>color</b> <i>optional</i>	Color of the specified SLB Response page. <b>Example</b> : "Unauthorized"	string
<b>companyName</b> <i>optional</i>	Company name for the specified SLB Response page. <b>Example</b> : "TCPWave"	string
<b>companyUrl</b> <i>optional</i>	Company URL of the specified SLB Response page. <b>Example</b> : "tcpwave.in"	string
<b>createdBy</b> <i>optional</i>		integer(int32)
<b>createdTime</b> <i>optional</i>		string(date-time)
<b>created_by_login_name</b> <i>optional</i>		string
<b>description</b> <i>optional</i>	Description of the specified SLB Response page. <b>Example</b> : "Unauthorized Response page."	string
<b>id</b> <i>optional</i>	ID of the specified SLB Response page. <b>Example</b> : 99	integer(int32)
<b>message</b> <i>required</i>	Message of the specified SLB Response page. <b>Example</b> : "Unauthorized to do this operation."	string
<b>name</b> <i>required</i>	Name of the specified SLB Response page. <b>Example</b> : "Unauthorized"	string



Name	Description	Schema
<b>oldName</b> <i>optional</i>		string
<b>organizationId</b> <i>optional</i>		integer(int32)
<b>organization_name</b> <i>optional</i>		string
<b>pageType</b> <i>required</i>	Page type of the specified SLB Response Page. <b>Example</b> : "error"	string
<b>ruleCount</b> <i>optional</i>		integer(int32)
<b>style</b> <i>optional</i>	Style of the specified SLB Response page.	string
<b>title</b> <i>required</i>	Title of the specified SLB Response page. <b>Example</b> : "Unauthorized"	string
<b>updatedBy</b> <i>optional</i>		integer(int32)
<b>updateTime</b> <i>optional</i>		string(date-time)
<b>updated_by_login_name</b> <i>optional</i>		string

#### 5.440. SOA

Name	Description	Schema
<b>email</b> <i>optional</i>		string
<b>expireTime</b> <i>optional</i>		integer(int32)
<b>host</b> <i>optional</i>		string
<b>interfaceIp</b> <i>optional</i>		string
<b>negativeCache</b> <i>optional</i>		integer(int32)
<b>refreshTime</b> <i>optional</i>		integer(int32)
<b>retryTime</b> <i>optional</i>		integer(int32)
<b>serialNumber</b> <i>optional</i>		integer(int64)
<b>serverIP</b> <i>optional</i>		string
<b>serverName</b> <i>optional</i>		string
<b>serverType</b> <i>optional</i>		string
<b>zoneName</b> <i>optional</i>		string

#### 5.441. Scheduled Job Type

This class contains the information about scheduled job ID, job type and job description.

Name	Description	Schema
<b>description</b> <i>optional</i>	Description of the schedule job type	string
<b>typeCode</b> <i>optional</i>	Code of the schedule job type	string
<b>typeName</b> <i>optional</i>	Name of schedule job type	string

#### 5.442. Scheduled job execution status information

This class contains the information about scheduled job ID, execution status, success or failure message and the execution time of the scheduled job.

Name	Description	Schema

Name	Description	Schema
<b>execution_message</b> <i>optional</i>	Represents execution message <b>Example</b> : "Executed successfully"	string
<b>execution_status</b> <i>optional</i>	Represents state of execution <b>Example</b> : "completed"	integer(int32)
<b>execution_time</b> <i>optional</i>	Represents execution time <b>Example</b> : "02/18/2022 3:39"	string(date-time)
<b>execution_time_string</b> <i>optional</i>	Represents the execution time <b>Example</b> : "02/18/2022 3:39"	string
<b>id</b> <i>optional</i>	Id for the specific scheduled job <b>Example</b> : 33	integer(int32)
<b>jobData</b> <i>optional</i>	Get job details <b>Example</b> : "Executed at 15.20 AM"	string
<b>jobId</b> <i>optional</i>	ID for the specific job <b>Example</b> : "11"	string
<b>jobType</b> <i>optional</i>	Represents Job type <b>Example</b> : "rest"	string
<b>operation</b> <i>optional</i>	Represent the type of operation <b>Example</b> : "Add"	string
<b>scheduleType</b> <i>optional</i>	Represents the Scheduled type <b>Example</b> : "Daily"	string

### 5.443. Scope Information

Persists the attributes of DHCP Scope such as start address, end address, subnet address, network address, organization, DHCP Option Template, DHCP Appliance, DHCP Classes to be allowed and denied etc.

Name	Description	Schema
<b>addr</b> <i>required</i>	IP address of the object	string
<b>addressRange</b> <i>required</i>	Collection of address ranges	string
<b>allowClassesArray</b> <i>optional</i>	DHCP Classes to be allowed for a given scope	< string > array
<b>class_code</b> <i>required</i>	Object type for the placeholder objects	string
<b>created_by_login_name</b> <i>optional</i>	Login name of the user who created the entity	string
<b>created_by_name</b> <i>optional</i>	Login name of the user who created the entity	string
<b>created_time</b> <i>optional</i>	Date and Time of creation of the entity	string(date-time)
<b>created_time_string</b> <i>optional</i>	String instance of the created time	string
<b>denyClassesArray</b> <i>required</i>	DHCP Classes to be denied for a given scope	< string > array
<b>description</b> <i>optional</i>	Description for the scope	string
<b>endIP</b> <i>required</i>	End IP of the scope	integer(int64)
<b>full</b> <i>required</i>	Percentage full in terms of active leases in a given scope	integer(int32)
<b>max_addr</b> <i>required</i>	End IP of the Scope	< string > array
<b>min_addr</b> <i>required</i>	Short IP of the Scope	< string > array
<b>network_address</b> <i>required</i>	IP Address of the network	string
<b>objectCount</b> <i>optional</i>		integer(int64)
<b>organization_name</b> <i>required</i>	Name of the organization	string
<b>primary_dhcp_server</b> <i>required</i>	Name of the primary DHCP Appliance	string

Name	Description	Schema
<b>rangeArray</b> <i>required</i>	Collection of address ranges	< string > array
<b>sharedNetworkName</b> <i>optional</i>		string
<b>startIP</b> <i>required</i>	Start IP of the scope	integer(int64)
<b>subnetDomain</b> <i>required</i>	Domain name of the subnet <b>Example</b> : "test.com"	string
<b>subnetMask</b> <i>required</i>	Mask length of the subnet <b>Example</b> : "24"	string
<b>subnetRouter</b> <i>optional</i>	Router address of the subnet <b>Example</b> : "10.0.0.1"	string
<b>subnet_address</b> <i>required</i>	IP Address of the subnet	string
<b>template_name</b> <i>required</i>	Name of the DHCP Option Template	string
<b>updated_by_login_name</b> <i>optional</i>	Login name of the user who updated the entity	string
<b>updated_by_name</b> <i>optional</i>	Login name of the user who updated the entity	string
<b>updated_time</b> <i>optional</i>	Date and Time of updating the entity	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String instance of the updated time	string

#### 5.444. Scope Validate Request Data

Represents the data that is passed on to the DHCP Sanity checker to validate the syntax and correctness of a scope that is to be created.

Name	Description	Schema
<b>dhcp_server_ip</b> <i>optional</i>		string
<b>dhcp_server_type</b> <i>required</i>	DHCP Appliance type	string
<b>ttl</b> <i>required</i>	Time to Live value	integer(int32)

#### 5.445. Security Group

Detailed information about Security Group model.

Name	Description	Schema
<b>addedInboundRules</b> <i>optional</i>		< <a href="#">Security Group Conigs</a> > array
<b>cloud_provider_id</b> <i>optional</i>		integer(int32)
<b>cloud_provider_name</b> <i>optional</i>		string
<b>created_by_login_name</b> <i>optional</i>	Name of the User who has created the specified Security Group. <b>Example</b> : "John"	string
<b>created_time_string</b> <i>optional</i>	The time instance when the specified Security Group has been created. <b>Example</b> : "03/18/2022 4:37"	string
<b>deletedInboundRules</b> <i>optional</i>		< <a href="#">Security Group Conigs</a> > array
<b>description</b> <i>optional</i>	Description of Security Group. <b>Example</b> : "This is a Security group."	string
<b>id</b> <i>optional</i>	Database ID of the appliance group <b>Example</b> : 1234	integer(int32)
<b>name</b> <i>optional</i>	Name of Security Group <b>Example</b> : "Test"	string
<b>organization_name</b> <i>optional</i>		string
<b>prevAppGroupName</b> <i>optional</i>	Previous name of Security Group. <b>Example</b> : "ABC"	string

Name	Description	Schema
<b>updated_by_login_name</b> <i>optional</i>	Name of the User who has modified the specified Security Group. <b>Example</b> : "John"	string
<b>updated_time_string</b> <i>optional</i>	The time instance when the specified Security Group has been modified. <b>Example</b> : "03/18/2022 4:37"	string
<b>vpc_id</b> <i>optional</i>		string

#### 5.446. Security Group Conigs

Detailed information about Security Group configuration model.

Name	Description	Schema
<b>description</b> <i>optional</i>		string
<b>end_port</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int32)
<b>ip_version</b> <i>optional</i>		string
<b>protocol</b> <i>optional</i>		string
<b>start_port</b> <i>optional</i>		string
<b>type</b> <i>optional</i>		string

#### 5.447. SecurityGroup

Name	Description	Schema
<b>description</b> <i>optional</i>		string
<b>groupId</b> <i>optional</i>		string
<b>groupName</b> <i>optional</i>		string
<b>ipPermissions</b> <i>optional</i>		< <a href="#">IpPermission</a> > array
<b>ipPermissionsEgress</b> <i>optional</i>		< <a href="#">IpPermission</a> > array
<b>ownerId</b> <i>optional</i>		string
<b>tags</b> <i>optional</i>		< <a href="#">Tag</a> > array
<b>vpcId</b> <i>optional</i>		string

#### 5.448. Server Basic Information

Server bean class encapsulates the attributes of a generic server. This class represents the properties that are common to both DNS and DHCP Sever.

Name	Description	Schema
<b>associated_v4_ipaddress</b> <i>required</i>	IPV4 Address associated with IPV6 server <b>Example</b> : "7000::1"	string
<b>id</b> <i>optional</i>	Id of the specified server. <b>Example</b> : 121	integer(int32)
<b>name</b> <i>required</i>	Name of the specified Server. <b>Example</b> : "nusartx-est015-s109113"	string
<b>organization_id</b> <i>required</i>	Id of the Organization which is associated with the specified Server. <b>Example</b> : 990	integer(int32)
<b>organization_name</b> <i>required</i>	Name of the Organization which is associated to the specified Server. <b>Example</b> : "EARTH"	string
<b>server_type</b> <i>required</i>	Type of the specified Server. <b>Example</b> : "BIND_AUTH"	string

Name	Description	Schema
<b>v4_address</b> <i>required</i>	IPv4 Address which is associated with the specified Server. <b>Example</b> : "192.1.10.200"	string
<b>v6_address</b> <i>required</i>	IPv6 Address which is associated with the specified Server. <b>Example</b> : "7000::1"	string

### 5.449. Server Entity Version

Gets Server version information. Version information includes MajorVersion, BuildString, PatchLevel, MinorVersion, ServerType

Name	Description	Schema
<b>amq_version</b> <i>optional</i>	Amq version of appliance	string
<b>bgp</b> <i>optional</i>	BGP version of remote server	string
<b>bgp_peers</b> <i>optional</i>	Bgp peers	string
<b>bind</b> <i>optional</i>	BIND version of DNS Appliance	string
<b>bios</b> <i>required</i>	BIOS version <b>Example</b> : "2.11.0"	string
<b>dhcp</b> <i>optional</i>	The DHCP version	string
<b>dr_config</b> <i>optional</i>	DR config	string
<b>firmware</b> <i>required</i>	Firmware version <b>Example</b> : "2.47.41"	string
<b>gslb_dns_version</b> <i>required</i>	GSLB DNS version	string
<b>haproxy</b> <i>required</i>	HAProxy version	string
<b>id</b> <i>optional</i>	Database ID of server	string
<b>ipv4</b> <i>optional</i>	Remote server's IP Address	string
<b>kea_dhcp</b> <i>optional</i>	The Kea-DHCP version <b>Example</b> : "2.2.0"	string
<b>kernel</b> <i>required</i>	Kernel version <b>Example</b> : "4.4.194"	string
<b>last_sync</b> <i>optional</i>		string
<b>last_updated</b> <i>optional</i>		string
<b>master_server</b> <i>optional</i>	Host address of Master IPAM server	string
<b>master_z</b> <i>optional</i>	Master IPAM server IP Address	integer(int32)
<b>name</b> <i>optional</i>	Remote server's name	string
<b>nsd_version</b> <i>optional</i>	NSD version of DNS Appliance	string
<b>ntp</b> <i>optional</i>	NTP version of remote server	string
<b>ntp_servers</b> <i>optional</i>	NTP version of appliance	string
<b>organization</b> <i>optional</i>	Organization name associated with appliance <b>Example</b> : "Internal"	string
<b>patch_level</b> <i>optional</i>	Patch level	string
<b>server_current_heartbeat</b> <i>optional</i>	Server current heart beat	integer(int32)
<b>server_current_status</b> <i>optional</i>		integer(int32)
<b>slave_server</b> <i>optional</i>	Host address of Slave IPAM server	string

Name	Description	Schema
<b>slave_z</b> <i>optional</i>	Slave IPAM server IP Address	integer(int32)
<b>snmp</b> <i>optional</i>	SNMP version of remote server	string
<b>snmp_trap</b> <i>optional</i>	list of SNMP trap targets	string
<b>ssh</b> <i>optional</i>	SSH version of remote server	string
<b>syslog_servers</b> <i>optional</i>	List of syslog servers defined on a server	string
<b>tacacs_servers</b> <i>optional</i>	list of TACACS servers defined	string
<b>tims_dhcp_version</b> <i>optional</i>	The timsdhcp version	string
<b>tims_dns_version</b> <i>optional</i>	The timsdns version	string
<b>type</b> <i>optional</i>	Remote appliance server type	string
<b>unbound</b> <i>optional</i>	Unbound version of DNS remote appliance	string
<b>zebra_version</b> <i>optional</i>	Zebra version of server	string

### 5.450. Server Information

Server bean class encapsulates the attributes of a generic server. This class represents the properties that are common to both DNS and DHCP Sever.

Name	Description	Schema
<b>array_params</b> <i>required</i>	Collection of SLB Option templt parameters	< <a href="#">Parameters Information</a> > array
<b>created_by_login_name</b> <i>optional</i>	The User's name, who has logged into TCPWave IPAM, has been set as Created By for the specified Template. <b>Example</b> : "twcadm"	string
<b>created_time</b> <i>optional</i>	The instant when the specified Template has been created. <b>Example</b> : "03/18/2022 3:39"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified Template has been created. <b>Example</b> : "11:39:55 04-20-2022"	string
<b>description</b> <i>optional</i>	Description of the specified Template. <b>Example</b> : "Option Template Definition For Corp's centre"	string
<b>entity_type_code</b> <i>required</i>	Type code of the entity which is associated with the specified Template. <b>Example</b> : "GSLBOPT"	string
<b>name</b> <i>required</i>	Name of the specified Template. <b>Example</b> : "Corp Option Template"	string
<b>oldName</b> <i>required</i>	Name of the specified template before modification. <b>Example</b> : "Corp SLB option Template"	string
<b>organization_name</b> <i>required</i>	Name of the Organization associated with the specified Template. <b>Example</b> : "Internal"	string
<b>server_type_code</b> <i>optional</i>		string
<b>updated_by_login_name</b> <i>optional</i>	The User's name, who has logged into TCPWave IPAM, has been set as Updated By for the specified Template. <b>Example</b> : "John"	string
<b>updated_time</b> <i>optional</i>	The time instance when the specified Template has been modified. <b>Example</b> : "03/18/2022 4:37"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified Template has been modified. <b>Example</b> : "11:45:12 04-20-2022"	string

### 5.451. Server License

This class represents the license details of a server. The details include but not limited to Server IP, Server Name, Days Valid, License IP, Customer and Status.

Name	Description	Schema

Name	Description	Schema
<b>customer</b> <i>required</i>	Customer name who has requested for updating License. <b>Example</b> : "Ericson Ltd."	string
<b>customer_id</b> <i>required</i>	Customer ID who has requested for updating License. <b>Example</b> : "987"	string
<b>days_valid</b> <i>required</i>	Total number of days Server License is valid for. <b>Example</b> : 100	integer(int32)
<b>gslbEnabled</b> <i>optional</i>		boolean
<b>isHaLicense</b> <i>optional</i>		boolean
<b>isPermanent</b> <i>optional</i>		boolean
<b>is_valid</b> <i>required</i>	If Server License ID is valid or invalid. <b>Example</b> : false	boolean
<b>last_checked</b> <i>required</i>	Date on which Server License has been checked last time. <b>Example</b> : "12/03/2022"	string(date-time)
<b>license_ip</b> <i>required</i>	IP of Server License. <b>Example</b> : "10.0.0.0"	string
<b>license_service_tag</b> <i>required</i>	Service tag of License based on Server Type. i.e. DNS - 1, DHCP - 2, DNS-DHCP - 3 <b>Example</b> : "2"	string
<b>majorVersion</b> <i>optional</i>		string
<b>maxIps</b> <i>optional</i>		integer(int32)
<b>minorVersion</b> <i>optional</i>		string
<b>organization_name</b> <i>required</i>	Organization Name associated with Server. <b>Example</b> : "TCPWAVE"	string
<b>server_current_status</b> <i>optional</i>	Appliance current status. <b>Example</b> : "0 (for License valid)/ 1 (for License Invalid) "	integer(int32)
<b>server_id</b> <i>required</i>	ID of the Server. <b>Example</b> : 123	integer(int32)
<b>server_license_id</b> <i>required</i>	License ID of the Server. <b>Example</b> : "8EB8AB85DFF74B0B492BB9618375DA11"	integer(int32)
<b>server_name</b> <i>required</i>	Name of the Server. <b>Example</b> : "DHCP-100"	string
<b>server_type</b> <i>required</i>	Server which has to be updated with new License. <b>Example</b> : "BIND"	integer(int32)
<b>server_type_code</b> <i>required</i>	Code of the Server to Identify its type.	string
<b>server_v4ip</b> <i>required</i>	IP of Server. <b>Example</b> : "10.0.0.0"	string
<b>status</b> <i>required</i>	Status of current Server License. <b>Example</b> : "Valid/Invalid"	string
<b>titanEus</b> <i>optional</i>		<a href="#">TitanEndUserSecurity</a>

#### 5.452. ServerZone

Name	Description	Schema
<b>activeDirectoryEnable</b> <i>required</i>	Defines whether Active Directory is enabled or not for the specified zone. <b>Example</b> : "Yes/No"	string
<b>autoForceSync</b> <i>optional</i>	Accepts Yes/No value to specify whether zone is enabled for auto force sync or not. <b>Example</b> : "Yes"	string
<b>dcAclNames</b> <i>required</i>	Array list of Domain Controller Access Control List(ACL) names for the specified zone.	< string > array
<b>dcObjectAddresses</b> <i>required</i>	Array list of Domain Controller Object Addresses of a zone.	< string > array
<b>dcV6ObjectAddresses</b> <i>optional</i>		< string > array
<b>default_ttl</b> <i>required</i>	Default Time To Live(TTL) of the specified zone. <b>Example</b> : 3200	integer(int32)

Name	Description	Schema
<b>dnssec_enable</b> <i>required</i>	Defines if Domain Name System Security Extensions(DNSSEC) is enabled or not for the specified Zone. <b>Example</b> : "Yes/No"	string
<b>email_addr</b> <i>optional</i>	Email Id of the contact person for this specified Zone. <b>Example</b> : " <a href="mailto:stephen.martin@gmail.com">stephen.martin@gmail.com</a> "	string
<b>excludeFromSync</b> <i>optional</i>	Accepts Yes/No value to specify whether zone is excluded from the sync or not. <b>Example</b> : "Yes"	string
<b>is_master</b> <i>required</i>	Defines if the specified server is Master or not. <b>Example</b> : false	boolean
<b>mirrorzoneString</b> <i>optional</i>	Comma separated Mirrored zone names for an existing Managed Zone. <b>Example</b> : "text.com,volume.com"	string
<b>name</b> <i>required</i>	Name of the Zone associated with the specified Server. <b>Example</b> : "edu.com"	string
<b>nonManagedNSList</b> <i>required</i>	List of the Non-Managed Name Servers for the zone	< <a href="#">NonManagedNameServer</a> > array
<b>nonManagedNSTSIGKeys</b> <i>required</i>	Array list of TSIG key names for non managed secondaries zone transfer..	< string > array
<b>nsec_option</b> <i>required</i>	Defines the value when Domain Name System Security Extensions(DNSSEC) is enabled for a zone. <b>Example</b> : "NSEC/NSEC3"	string
<b>organization_id</b> <i>required</i>	Id of the Organization which is associated with the specified Zone. <b>Example</b> : 10	integer(int32)
<b>organization_name</b> <i>required</i>	Name of the Organization which is associated with the specified Zone. <b>Example</b> : "EARTH"	string
<b>proxy</b> <i>required</i>	Defines if the server is associated with Proxy Root Zone or not. <b>Example</b> : "No"	integer(int32)
<b>rrSetOrderList</b> <i>optional</i>	Array list of rrsset-order preferences for the specified zone.	< <a href="#">RRSet Order</a> > array
<b>secureActiveDirectoryEnable</b> <i>required</i>	Defines whether Secure Active Directory is enabled or not for the specified zone. <b>Example</b> : "Yes/No"	string
<b>serial_number</b> <i>required</i>	Serial Number of the specified Zone <b>Example</b> : 5	integer(int64)
<b>server_id</b> <i>required</i>	Id of the specified Server which is defined as a Master or Slave in the Zone. <b>Example</b> : 121	integer(int32)
<b>zoneMonitoringService</b> <i>required</i>	Defines whether Monitoring is enabled or not for the specified zone. <b>Example</b> : "Yes/No"	string
<b>zone_description</b> <i>optional</i>	Description for the specified Zone. <b>Example</b> : "[10.0.0.2,10.0.0.3]"	string
<b>zone_id</b> <i>required</i>	Id of the Zone associated with the specified Server. <b>Example</b> : 135231	integer(int32)
<b>zone_template_id</b> <i>required</i>	Id of the zone template which is associated with the specified Zone. <b>Example</b> : 10	integer(int32)
<b>zone_template_name</b> <i>required</i>	Name of the Zone Template associated with the specified Zone. <b>Example</b> : "Zone Template"	string

### 5.453. Service

ServiceMode class encapsulates the attributes that are required to create a service such as Name, Cname, Selected Mode, Current Mode, Description etc.

Name	Description	Schema
<b>cname</b> <i>optional</i>		string
<b>createdBy</b> <i>optional</i>		integer(int32)
<b>createdByName</b> <i>optional</i>		string



Name	Description	Schema
<b>createdTime</b> <i>optional</i>		string(date-time)
<b>createdTimeString</b> <i>optional</i>		string
<b>currentMode</b> <i>optional</i>		string
<b>description</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int32)
<b>lastChecked</b> <i>optional</i>		string(date-time)
<b>lastCheckedString</b> <i>optional</i>		string
<b>lastUpdateStatus</b> <i>optional</i>		string
<b>name</b> <i>optional</i>		string
<b>oldName</b> <i>optional</i>		string
<b>organizationId</b> <i>optional</i>		integer(int32)
<b>organizationName</b> <i>optional</i>		string
<b>selectedMode</b> <i>optional</i>		string
<b>targets</b> <i>optional</i>		< <a href="#">Service Target</a> > array
<b>updatedBy</b> <i>optional</i>		integer(int32)
<b>updatedByName</b> <i>optional</i>		string
<b>updatedTime</b> <i>optional</i>		string(date-time)
<b>updatedTimeString</b> <i>optional</i>		string
<b>zoneId</b> <i>optional</i>		integer(int32)
<b>zoneName</b> <i>optional</i>		string

#### 5.454. Service Mode

ServiceMode class encapsulates the attributes that are required to create a service mode such as Mode, Description etc.

Name	Description	Schema
<b>createdBy</b> <i>optional</i>		integer(int32)
<b>createdByName</b> <i>optional</i>		string
<b>createdTime</b> <i>optional</i>		string(date-time)
<b>createdTimeString</b> <i>optional</i>		string
<b>description</b> <i>optional</i>		string
<b>id</b> <i>optional</i>	Database ID of the service mode <b>Example : 44</b>	integer(int32)
<b>mode</b> <i>optional</i>		string
<b>oldMode</b> <i>optional</i>		string
<b>updatedBy</b> <i>optional</i>		integer(int32)

Name	Description	Schema
<b>updatedByName</b> <i>optional</i>		string
<b>updatedTime</b> <i>optional</i>		string(date-time)
<b>updatedTimeString</b> <i>optional</i>		string

### 5.455. Service Schedule

ServiceSchedule class encapsulates the attributes that are required to create a service schedule such as Service Name, Service Mode, Schedule Time etc.

Name	Description	Schema
<b>cname</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int32)
<b>organizationName</b> <i>optional</i>		string
<b>runDay</b> <i>optional</i>		integer(int32)
<b>runDayStr</b> <i>optional</i>		string
<b>runTime</b> <i>optional</i>		string
<b>schedTaskId</b> <i>optional</i>		string
<b>scheduleFrequency</b> <i>optional</i>		string
<b>scheduleTime</b> <i>optional</i>		string(date-time)
<b>scheduleTimeStr</b> <i>optional</i>		string
<b>serviceId</b> <i>optional</i>		integer(int32)
<b>serviceMode</b> <i>optional</i>		string
<b>serviceName</b> <i>optional</i>		string
<b>targetRR</b> <i>optional</i>		string

### 5.456. Service Target

ServiceTarget class encapsulates the attributes that are required to create a service target such as Service, service Mode, Target, Description etc.

Name	Description	Schema
<b>createdBy</b> <i>optional</i>		integer(int32)
<b>createdByName</b> <i>optional</i>		string
<b>createdTime</b> <i>optional</i>		string(date-time)
<b>createdTimeString</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int32)
<b>serviceId</b> <i>optional</i>		integer(int32)
<b>serviceMode</b> <i>optional</i>		string
<b>serviceName</b> <i>optional</i>		string
<b>target</b> <i>optional</i>		string

Name	Description	Schema
<b>updatedBy</b> <i>optional</i>		integer(int32)
<b>updatedByName</b> <i>optional</i>		string
<b>updatedTime</b> <i>optional</i>		string(date-time)
<b>updatedTimeString</b> <i>optional</i>		string

### 5.457. Subnet

This class represents a discovery Subnet.

Name	Description	Schema
<b>commandId</b> <i>optional</i>		string
<b>description</b> <i>optional</i>		string
<b>domain_name</b> <i>optional</i>		string
<b>end_aton_address</b> <i>optional</i>		integer(int64)
<b>id</b> <i>optional</i>		integer(int64)
<b>interfaceIp</b> <i>optional</i>		string
<b>interfaceName</b> <i>optional</i>		string
<b>ip_address</b> <i>optional</i>		string
<b>ip_version</b> <i>optional</i>		integer(int32)
<b>name</b> <i>optional</i>		string
<b>nextHop</b> <i>optional</i>		string
<b>organization_name</b> <i>optional</i>		string
<b>protocol</b> <i>optional</i>		string
<b>routerIP</b> <i>optional</i>		string
<b>send_to_ipam</b> <i>optional</i>		boolean
<b>sent_status</b> <i>optional</i>		boolean
<b>start_aton_address</b> <i>optional</i>		integer(int64)
<b>startsWith</b> <i>optional</i>		integer(int32)
<b>subnetMask</b> <i>optional</i>		string
<b>subnetMaskLength</b> <i>optional</i>		integer(int32)
<b>type</b> <i>optional</i>		string
<b>vlan</b> <i>optional</i>		string
<b>vrfEnabled</b> <i>optional</i>		boolean
<b>vrfName</b> <i>optional</i>		string

### 5.458. Subnet Elements

This class represents a subnet elements

Name	Description	Schema
<b>aton_address</b> <i>optional</i>		integer(int64)
<b>commandId</b> <i>optional</i>		string
<b>contact</b> <i>optional</i>		string
<b>description</b> <i>optional</i>		string
<b>device</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int64)
<b>ip_address</b> <i>optional</i>		string
<b>last_seen</b> <i>optional</i>		string
<b>latency</b> <i>optional</i>		string
<b>location</b> <i>optional</i>		string
<b>mac</b> <i>optional</i>		string
<b>mac_in_db</b> <i>optional</i>		string
<b>name</b> <i>optional</i>		string
<b>name_in_db</b> <i>optional</i>		string
<b>os</b> <i>optional</i>		string
<b>port_duplex</b> <i>optional</i>		string
<b>ports</b> <i>optional</i>		string
<b>subnetip</b> <i>optional</i>		string
<b>subnetMaskLength</b> <i>optional</i>		integer(int32)
<b>switch_name</b> <i>optional</i>		string
<b>switch_port</b> <i>optional</i>		string
<b>type</b> <i>optional</i>		string
<b>vendor</b> <i>optional</i>		string

### 5.459. Subnet Group

Detailed information about Subnet Group model.

Name	Description	Schema
<b>bootp_id</b> <i>optional</i>	ID of the bootp. <b>Example</b> : 13	integer(int32)
<b>created_by_name</b> <i>optional</i>	Login name of the user who created the subnet group. <b>Example</b> : "admin"	string
<b>created_time</b> <i>optional</i>	Date and Time of creation of the subnet group. <b>Example</b> : "03/18/2022 3:39"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the date and Time of creation of the subnet group. <b>Example</b> : "03/18/2022 4:37"	string
<b>description</b> <i>optional</i>	A description for the subnet group. <b>Example</b> : "SALES US Subnet Group"	string
<b>id</b> <i>optional</i>	ID of this Subnet Group. <b>Example</b> : 1	integer(int32)

Name	Description	Schema
<b>name</b> <i>optional</i>	Name of this subnet group. <b>Example</b> : "Subnet Group"	string
<b>oldName</b> <i>optional</i>	Name of the specified SubnetGroup before modification. <b>Example</b> : "Comm-Equipment"	string
<b>option_template_id</b> <i>optional</i>	ID of the associated option template. <b>Example</b> : 11	integer(int32)
<b>organization_id</b> <i>optional</i>	ID of the organization to which this subnet group belongs. <b>Example</b> : 1	integer(int32)
<b>organization_name</b> <i>optional</i>	Name of the organization to which this subnet group belongs. <b>Example</b> : "Internal"	string
<b>policy_template_id</b> <i>optional</i>		integer(int32)
<b>updated_by_name</b> <i>optional</i>	Login name of the user who last updated the subnet group. <b>Example</b> : "admin"	string
<b>updated_time</b> <i>optional</i>	Date and time of the last update performed on this subnet group. <b>Example</b> : "03/18/2022 3:49"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the date and time of the last update performed on this subnet group. <b>Example</b> : "03/18/2022 4:37"	string

### 5.460. Subnet Group Delete Request

Required information to delete subnet groups with or without references.

Name	Description	Schema
<b>deleteWithReferences</b> <i>optional</i>	This parameter decides whether to delete subnet groups with references or not. <b>Example</b> : false	boolean
<b>subnetGroupList</b> <i>required</i>	List of subnet groups.	< <a href="#">Subnet Group</a> > array

### 5.461. Subnet Group References

This class represents a subnet group references(subnets) in TCPWave IPAM. The information includes the Subnet Group Name, Organization Name, Subnet Address and Subnet Name.

Name	Description	Schema
<b>organizationName</b> <i>optional</i>	Name of an organization to which the subnet group is associated with. <b>Example</b> : "Internal"	string
<b>referencesList</b> <i>optional</i>	List of subnets which are referring to the specified subnet groups.	< <a href="#">Subnet Group References</a> > array
<b>subnetAddress</b> <i>optional</i>	Address of a subnet which is referring to the specified subnet group. <b>Example</b> : "192.168.0.0/24"	string
<b>subnetGroupName</b> <i>optional</i>	Name of a subnet group which has subnets referring to it. <b>Example</b> : "tcp-sngroup1"	string
<b>subnetName</b> <i>optional</i>	Name of a subnet which is referring to the specified subnet group. <b>Example</b> : "test_subnet10"	string
<b>subnetTemplateName</b> <i>optional</i>	Name of a subnet template which is referring to the specified subnet group. <b>Example</b> : "subnet_template_1"	string
<b>undeletedSubnetGroups</b> <i>optional</i>	Comma separated list of undeleted subnet groups(subnetGroupName organizationName). <b>Example</b> : "tcp-gr Internal, group2 testOrg"	string

### 5.462. Subnet Information

SubNet encapsulates the attributes that pertain to a subnet such as the subnet start address, subnet end address, mask length, primary router, primary domain, DHCP Profile of the subnet etc.

Name	Description	Schema
<b>addr1</b> <i>required</i>	Octet-1 of the subnet address. <b>Example</b> : 162	integer(int32)
<b>addr2</b> <i>required</i>	Octet-2 of the subnet address. <b>Example</b> : 192	integer(int32)
<b>addr3</b> <i>required</i>	Octet-3 of the subnet address. <b>Example</b> : 10	integer(int32)
<b>addr4</b> <i>required</i>	Octet-4 of the subnet address. <b>Example</b> : 0	integer(int32)

Name	Description	Schema
<b>array_params</b> <i>optional</i>	Collection of DHCP Parameters	< <a href="#">Parameters Information</a> > array
<b>awsSubnetId</b> <i>required</i>	ID of the Subnet which is created in AWS Cloud. <b>Example</b> : "18772"	string
<b>city</b> <i>optional</i>	City of the location.	string
<b>cloudProviderId</b> <i>optional</i>	ID of the Cloud Provider.	integer(int32)
<b>cloudProviderName</b> <i>required</i>	Name of the cloud provider associated to subnet. <b>Example</b> : "DDS_Cloud"	string
<b>commandId</b> <i>optional</i>		string
<b>contact_name</b> <i>optional</i>	Name of the contact.	string
<b>country</b> <i>optional</i>	County of the location.	string
<b>createRevZone</b> <i>optional</i>	Auto create reverse zone for a subnet <b>Example</b> : "Yes/No"	string
<b>created_by_login_name</b> <i>optional</i>	Login name of the user who created the subnet.	string
<b>created_by_name</b> <i>optional</i>	Login name of the user who created the subnet.	string
<b>created_time</b> <i>optional</i>	Date and Time of creation of the subnet.	string(date-time)
<b>created_time_string</b> <i>optional</i>	String instance of the created time.	string
<b>description</b> <i>optional</i>	Description of the subnet.	string
<b>dhcpFailoverPeer</b> <i>required</i>	DHCP failover peer name <b>Example</b> : "nusar tx-dp"	string
<b>dhcp_object_count</b> <i>optional</i>		integer(int64)
<b>discoveryApplianceIp</b> <i>optional</i>		string
<b>discoveryTemplateId</b> <i>required</i>	Id of the Discovery Template defined in the organization which is associated with the specified Network. <b>Example</b> : 41010	integer(int32)
<b>discovery_template</b> <i>required</i>	Name of the Discovery Template defined in the organization which is associated with the specified Network. <b>Example</b> : "DiscoveryTemp1"	string
<b>dmzVisible</b> <i>required</i>	Specifies whether the zone which is associated with the Network is a Demilitarized Zone(DMZ) or not. <b>Example</b> : "Yes/No"	string
<b>dnssec_enable</b> <i>required</i>	Specifies whether Domain Name System Security Extensions(DNSSEC) enabled or not for the zone associated with the specified Network. <b>Example</b> : "Yes/No"	string
<b>domain_id</b> <i>optional</i>	Database Id of the primary domain of the subnet.	integer(int32)
<b>email_id</b> <i>optional</i>	Email id of the contact.	string
<b>enable_discovery</b> <i>required</i>	Specifies whether discovery is enabled or not for the specified Network. <b>Example</b> : "Yes/No"	string
<b>end_addr_val</b> <i>optional</i>	End address of the subnet.	integer(int64)
<b>extensions</b> <i>optional</i>	List of DNS views applicable to this subnet	< <a href="#">Xtn NVP</a> > array
<b>first_name</b> <i>optional</i>	First name of the contact.	string
<b>fullAddress</b> <i>required</i>	Full Address of the subnet. <b>Example</b> : "10.1.10.185/24"	string
<b>id</b> <i>optional</i>	Database ID of the subnet.	integer(int32)

Name	Description	Schema
<b>last_name</b> <i>optional</i>	Last name of the contact.	string
<b>location_name</b> <i>optional</i>	Name of the location.	string
<b>mask_length</b> <i>required</i>	Mask Length of the subnet. <b>Example</b> : 32	integer(int32)
<b>middle_name</b> <i>optional</i>	Middle name of the contact.	string
<b>monitoringService</b> <i>required</i>	Specifies whether the zone to be monitored or not. <b>Example</b> : "Yes/No"	string
<b>name</b> <i>optional</i>	Name of the subnet.	string
<b>network_address</b> <i>required</i>	Address of the network to which the subnet belongs. <b>Example</b> : "10.0.0.0"	string
<b>network_id</b> <i>optional</i>	Database ID of the network.	integer(int32)
<b>network_mask</b> <i>optional</i>	Mask Length of the network. <b>Example</b> : 32	integer(int32)
<b>network_name</b> <i>optional</i>	Name of the network.	string
<b>nsec_option</b> <i>required</i>	Takes NSEC or NSEC3 when Domain Name System Security Extensions(DNSSEC) is enabled for the zone which is associated with the specific Network. <b>Example</b> : "NSEC/NSEC3"	string
<b>object_count</b> <i>optional</i>	Total number of objects defined in the subnet.	integer(int64)
<b>organization_name</b> <i>required</i>	Name of the organization. <b>Example</b> : "TCPWave"	string
<b>percent_full</b> <i>optional</i>	Capacity full of the subnet in percentage.	number(double)
<b>primary_dhcp_server</b> <i>optional</i>	Name of the primary DHCP Appliance.	string
<b>primary_dhcp_server_address</b> <i>optional</i>	Address of the primary DHCP Appliance.	string
<b>primary_domain</b> <i>optional</i>	Name of the Primary domain of the subnet.	string
<b>quickAddress</b> <i>optional</i>	Quick address is Subnet Address concatenated with the mask length for quick search of Subnet.	string
<b>reclaim_objects</b> <i>required</i>	Specifies whether to auto-reclaim DHCP leases for specified subnet. <b>Example</b> : "Yes/No"	string
<b>region</b> <i>optional</i>		string
<b>routerAddress</b> <i>required</i>	Address of the primary router. <b>Example</b> : "10.10.0.1"	string
<b>routerIP</b> <i>optional</i>		string
<b>router_name</b> <i>required</i>	Name of the primary router. <b>Example</b> : "Router-1"	string
<b>router_option</b> <i>required</i>	Selection option for the primary router - can be either the first IP in the subnet or the last IP in the subnet. <b>Example</b> : "First IP in the subnet"	string
<b>schedule_job_id</b> <i>required</i>	ID of the schedule job which is created in subnet schedule reclaim. <b>Example</b> : "Rest_800"	string
<b>schedule_reclaim</b> <i>required</i>	Specifies whether to schedule-reclaim for specified subnet. <b>Example</b> : "Yes/No"	string
<b>secondaryDomains</b> <i>optional</i>	List of secondary Domains	< string > array
<b>serialFormat</b> <i>required</i>	Serial Number format of the zone which is associated with the specified Network. <b>Example</b> : "NODATE/DATE"	string
<b>server_id</b> <i>optional</i>	Database ID of the DHCP Appliance.	integer(int32)

Name	Description	Schema
<b>sharedNetwork</b> <i>optional</i>	Name of the shared network. <b>Example</b> : "shared_network2"	string
<b>split_mask_length</b> <i>required</i>	Desired mask length to split a subnet. <b>Example</b> : 16	integer(int32)
<b>start_addr_val</b> <i>optional</i>	Start address of the subnet.	integer(int64)
<b>state</b> <i>optional</i>	State - of the location.	string
<b>street1</b> <i>optional</i>	Street 1 of the location.	string
<b>street2</b> <i>optional</i>	Street 2 of the location.	string
<b>subnetTemplateName</b> <i>optional</i>	Name of the subnet template for the specified subnet. <b>Example</b> : "SubnetTemplate"	string
<b>subnet_group_id</b> <i>optional</i>	Database ID of the subnet group.	integer(int32)
<b>subnet_group_name</b> <i>required</i>	Name of the subnet group associated to the subnet.	string
<b>template_id</b> <i>optional</i>	Database ID of the DHCP Option Template.	integer(int32)
<b>template_name</b> <i>optional</i>	Name of the DHCP Option Template.	string
<b>updated_by_login_name</b> <i>optional</i>	Login name of the user who updated the subnet.	string
<b>updated_by_name</b> <i>optional</i>	Login name of the user who updated the subnet.	string
<b>updated_time</b> <i>optional</i>	Date and Time of updating the subnet.	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String instance of the updated time.	string
<b>viewList</b> <i>optional</i>	List of DNS views applicable to this subnet.	< <a href="#">DNS View</a> > array
<b>vlan_id</b> <i>optional</i>	VLAN ID of the subnet.	string
<b>vrf_name</b> <i>optional</i>	Name of the Virtual routing and forwarding. <b>Example</b> : "network4_vrf"	string
<b>zip</b> <i>optional</i>	Zip code of the location.	string
<b>zoneTemplateId</b> <i>required</i>	Id of the Zone Template defined in the zone which is associated with the specified Network. <b>Example</b> : 41010	integer(int32)
<b>zoneTemplateName</b> <i>required</i>	Name of the Zone Template defined in the zone which is associated with the specified Network. <b>Example</b> : "ZoneTemp1"	string

### 5.463. Subnet Template

This class represents a subnet template that can be used during creation of a subnet.

Name	Description	Schema
<b>addressAllocationList</b> <i>optional</i>	ArrayList of address ranges with object related details.	< <a href="#">Address Allocation</a> > array
<b>city</b> <i>optional</i>	City of the location.	string
<b>cloudProvider</b> <i>required</i>	Name of cloud provider used for subnet. <b>Example</b> : "testAWS"	string
<b>cloudProviderId</b> <i>optional</i>	Id of cloud provider used for subnet. <b>Example</b> : 1	integer(int32)
<b>contact_email_id</b> <i>optional</i>	Email of the contact	string
<b>contact_id</b> <i>optional</i>	ID of the contact	integer(int32)
<b>contact_name</b> <i>optional</i>	Name of the contact	string
<b>country</b> <i>optional</i>	County of the location.	string



Name	Description	Schema
<b>createdBy</b> <i>optional</i>	UserId of user who created the specific subnet template. <b>Example</b> : 1234	integer(int32)
<b>createdByUser</b> <i>optional</i>	Name of user who created the specific subnet template. <b>Example</b> : "admin"	string
<b>createdTime</b> <i>optional</i>	Subnet template creation time. <b>Example</b> : "03/18/2022 4:37"	string(date-time)
<b>description</b> <i>optional</i>	Description of subnet template.	string
<b>dhcpFailoverPeer</b> <i>required</i>	DHCP failover peer name <b>Example</b> : "nusartx-dp"	string
<b>dhcpOptionTemplateId</b> <i>optional</i>	Id of the DHCP Option Template used for the subnet. <b>Example</b> : 1	integer(int32)
<b>dhcpOptionTemplateName</b> <i>required</i>	Name of the DHCP Option Template used for the subnet. <b>Example</b> : "Template1"	string
<b>dhcpServerAddress</b> <i>required</i>	IP address of the DHCP Server used for the subnet. <b>Example</b> : "192.0.0.32"	string
<b>dhcpServerId</b> <i>required</i>	Id of the DHCP Server used for the subnet. <b>Example</b> : 1	integer(int32)
<b>dhcpServerName</b> <i>required</i>	Name of the DHCP Server used for the subnet. <b>Example</b> : "DHCPAppliance1"	string
<b>discovery_template</b> <i>required</i>	Name of the Discovery Template defined in the organization which is associated with the specified Network. <b>Example</b> : "DiscoveryTemp1"	string
<b>enable_discovery</b> <i>required</i>	Specifies whether discovery is enabled or not for the specified Network. <b>Example</b> : "Yes/No"	string
<b>first_name</b> <i>optional</i>	First name of the contact	string
<b>id</b> <i>optional</i>	Id of the specified subnet template. <b>Example</b> : 1	integer(int32)
<b>last_name</b> <i>optional</i>	Last name of the contact	string
<b>location_name</b> <i>optional</i>	Name of the location.	string
<b>middle_name</b> <i>optional</i>	Middle name of the contact	string
<b>name</b> <i>required</i>	Name of the specified subnet template. <b>Example</b> : "test_template1"	string
<b>oldName</b> <i>required</i>	Old name of the specified subnet template. <b>Example</b> : "test_template1"	string
<b>organizationId</b> <i>optional</i>	Id of an organization to which the specified subnet template is associated with. <b>Example</b> : 1	integer(int32)
<b>organizationName</b> <i>required</i>	Name of an organization to which the specified subnet template is associated with. <b>Example</b> : "Internal"	string
<b>primaryDomain</b> <i>required</i>	Name of the primary domain of the subnet. <b>Example</b> : "tcpwave.com"	string
<b>primaryDomainId</b> <i>optional</i>	Id of the primary domain of the subnet. <b>Example</b> : 1	integer(int32)
<b>reclaim_objects</b> <i>required</i>	Specifies whether to auto-reclaim DHCP leases for specified subnet. <b>Example</b> : "Yes/No"	string
<b>routerOption</b> <i>required</i>	Offset number for router object (first/last/10). <b>Example</b> : "first"	string
<b>secondaryDomains</b> <i>optional</i>	List of secondary Domains	< string > array
<b>sharedNetwork</b> <i>optional</i>	Name of the shared network. <b>Example</b> : "shared_network2"	string
<b>sharedNetworkID</b> <i>optional</i>		integer(int32)

Name	Description	Schema
<b>state</b> <i>optional</i>	State - of the location.	string
<b>street1</b> <i>optional</i>	Street 1 of the location.	string
<b>street2</b> <i>optional</i>	Street 2 of the location.	string
<b>subnetType</b> <i>required</i>	Subnet type (Non-DHCP, DHCP-Enabled, Cloud-Hosted). <b>Example</b> : 1	integer(int32)
<b>subnet_group_id</b> <i>optional</i>	Database ID of the subnet group.	integer(int32)
<b>subnet_group_name</b> <i>required</i>	Name of the subnet group associated to the subnet.	string
<b>updatedBy</b> <i>optional</i>	UserId of user who updated the specific subnet template. <b>Example</b> : 1234	integer(int32)
<b>updatedByUser</b> <i>optional</i>	Name of user who updated the specific subnet template. <b>Example</b> : "admin"	string
<b>updatedTime</b> <i>optional</i>	Subnet template updated time. <b>Example</b> : "03/18/2022 4:37"	string(date-time)
<b>vlan_id</b> <i>optional</i>	VLAN ID of the subnet.	string
<b>vrf_name</b> <i>optional</i>	Name of the Virtual routing and forwarding. <b>Example</b> : "network4_vrf"	string
<b>zip</b> <i>optional</i>	Zip code of the location.	string

#### 5.464. SubnetViews

Name	Description	Schema
<b>view_name</b> <i>optional</i>	Name of the View. <b>Example</b> : "internal"	string

#### 5.465. Switch Details

This class represents switch details which include IP Address, Description, Up time, Contact, Name, Location, Discovery Command ID etc.

Name	Description	Schema
<b>cmdId</b> <i>required</i>	Command ID <b>Example</b> : 23	integer(int32)
<b>commandId</b> <i>optional</i>		string
<b>discoveredBy</b> <i>required</i>	The user who submitted the discovery command. <b>Example</b> : "sadm"	string
<b>discoveredElements</b> <i>required</i>	Discovered Element	integer(int32)
<b>elementPort</b> <i>optional</i>		string
<b>elementVlan</b> <i>optional</i>		string
<b>endTime</b> <i>required</i>	End Time	string
<b>ifNumber</b> <i>required</i>	Interface number <b>Example</b> : "001"	string
<b>ipAddress</b> <i>required</i>	IP address <b>Example</b> : "10.2.2.3"	string
<b>mac</b> <i>required</i>	Mac address	string
<b>neighborIp</b> <i>optional</i>		string
<b>organizationName</b> <i>optional</i>		string
<b>platform</b> <i>optional</i>	Platform	string
<b>startTime</b> <i>required</i>	Start Time	string

Name	Description	Schema
<b>subnetIP</b> <i>required</i>	Subnet IP	string
<b>sysContact</b> <i>required</i>	Contact <b>Example</b> : "John"	string
<b>sysDesc</b> <i>required</i>	Description	string
<b>sysLocation</b> <i>required</i>	Location <b>Example</b> : "TCPWave"	string
<b>sysName</b> <i>required</i>	Name <b>Example</b> : "Switch"	string
<b>sysUpTime</b> <i>required</i>	Switch uptime <b>Example</b> : "2hrs"	string
<b>vendor</b> <i>optional</i>	Vendor	string
<b>version</b> <i>optional</i>	Version <b>Example</b> : "5"	string

#### 5.466. Switch Element Details

This class represents the IP Address, Mac Address, Port, Vlan and Switch IP details of a device connected to a Switch.

Name	Description	Schema
<b>commandId</b> <i>optional</i>		string
<b>ipAddress</b> <i>required</i>	IP address <b>Example</b> : "10.0.0.0"	string
<b>lastSeen</b> <i>required</i>	Last seen	string
<b>macAddress</b> <i>required</i>	Mac address	string
<b>portDesc</b> <i>required</i>	Port description	string
<b>portID</b> <i>required</i>	Port ID	string
<b>portName</b> <i>required</i>	Port name	string
<b>switchIP</b> <i>required</i>	Switch IP	string
<b>uptime</b> <i>required</i>	Up time	string
<b>vlanID</b> <i>required</i>	Vlan ID	string
<b>vlanName</b> <i>required</i>	Vlan Name	string

#### 5.467. Switch Neighbor

This class represents a discovery switch neighbor

Name	Description	Schema
<b>capabilities</b> <i>optional</i>		string
<b>chassis_id</b> <i>optional</i>		string
<b>commandId</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int64)
<b>local_interface</b> <i>optional</i>		string
<b>management_ip</b> <i>optional</i>		string
<b>neighbor</b> <i>optional</i>		string
<b>neighbor_interface</b> <i>optional</i>		string

Name	Description	Schema
<b>neighbor_port_id</b> <i>optional</i>		string
<b>protocol</b> <i>optional</i>		string
<b>serial</b> <i>optional</i>		string
<b>switch_ip</b> <i>optional</i>		string
<b>system_description</b> <i>optional</i>		string
<b>vlan</b> <i>optional</i>		string

#### 5.468. Switch VLAN Subnet Element Details

This class represents the IP Address, Mac Address, Port, Vlan and Switch IP details of a device connected to a Switch.

Name	Description	Schema
<b>commandId</b> <i>optional</i>		string
<b>description</b> <i>required</i>	Description <b>Example</b> : "32"	string
<b>ipAddress</b> <i>required</i>	IP address <b>Example</b> : "10.0.0.0"	string
<b>lastSeen</b> <i>required</i>	Last seen	string
<b>macAddress</b> <i>required</i>	Mac address	string
<b>maskLength</b> <i>required</i>	Subnet Mask Length <b>Example</b> : 32	integer(int32)
<b>name</b> <i>optional</i>		string
<b>portDesc</b> <i>required</i>	Port description	string
<b>portName</b> <i>required</i>	Port name	string
<b>subnetIP</b> <i>required</i>	Subnet IP Address <b>Example</b> : "10.1.10.21"	string
<b>switchIP</b> <i>required</i>	Switch IP	string
<b>uptime</b> <i>required</i>	Up time	string
<b>vlanName</b> <i>required</i>	Vlan Name	string

#### 5.469. Syslog-ng configuration details

This class consolidates the details of the syslog-ng configuration.

Name	Description	Schema
<b>destinationData</b> <i>required</i>	List of syslog-ng destinations.	< <a href="#">Syslog-ng destination details</a> > array
<b>filtersData</b> <i>required</i>	List of syslog-ng filters.	< <a href="#">Syslog-ng filter details</a> > array
<b>globalOptions</b> <i>required</i>	Syslog-ng global options. <b>Example</b> : "timewaitdead"	string
<b>sourcesData</b> <i>required</i>	List of syslog-ng sources.	< <a href="#">Syslog-ng source details</a> > array
<b>targetsData</b> <i>required</i>	List of syslog-ng targets.	< <a href="#">Syslog-ng target details</a> > array

#### 5.470. Syslog-ng destination details

This class consolidates the details of the syslog-ng destinations.

Name	Description	Schema
<b>logDestGivenValSNG</b> <i>required</i>	Value of the syslog-ng destination. <b>Example</b> : "/var/log/messages"	string

Name	Description	Schema
<b>name</b> <i>required</i>	Syslog-ng destination name. <b>Example</b> : "d_msg"	string
<b>syncAfterEachMsg</b> <i>required</i>	Sync destination on receiving each message or not? <b>Example</b> : false	boolean
<b>typeSNG</b> <i>required</i>	Syslog-ng destination type. <b>Example</b> : "File"	string

### 5.471. Syslog-ng filter details

This class consolidates the details of the syslog-ng filters.

Name	Description	Schema
<b>category</b> <i>required</i>	Syslog-ng filter category. <b>Example</b> : "complex"	string
<b>condition</b> <i>required</i>	Syslog-ng filter condition. <b>Example</b> : "facility(kern)"	string
<b>name</b> <i>required</i>	Syslog-ng filter name. <b>Example</b> : "f_kernel"	string

### 5.472. Syslog-ng source details

This class consolidates the details of the syslog-ng sources.

Name	Description	Schema
<b>allSources</b> <i>required</i>	List of source options specified in the syslog-ng source.	< <a href="#">Syslog-ng source details</a> > array
<b>name</b> <i>required</i>	Syslog-ng source name. <b>Example</b> : "s_sys"	string
<b>sourceTypes</b> <i>required</i>	Types of source options specified in the syslog-ng source. <b>Example</b> : "internal, system"	string

### 5.473. Syslog-ng target details

This class consolidates the details of the syslog-ng targets.

Name	Description	Schema
<b>filter</b> <i>required</i>	Syslog-ng filter specified in the target. <b>Example</b> : "f_kernel"	string
<b>logdestination</b> <i>required</i>	Syslog-ng destination specified in the target. <b>Example</b> : "d_msg"	string
<b>source</b> <i>required</i>	Syslog-ng source specified in the target. <b>Example</b> : "s_sys"	string

### 5.474. TIMS Object

TIMSObject class encapsulates the attributes that are defined at the Object level, such as the name, IP address, Description, DHCP Profile, DNS Resource Records, DDNS preferences etc.

Name	Description	Schema
<b>addedRRs</b> <i>required</i>	Array List of RRs which are added to an object.	< <a href="#">Resource Record</a> > array
<b>addr1</b> <i>required</i>	Octet-1 of the IP Address	integer(int32)
<b>addr2</b> <i>required</i>	Octet-2 of the IP Address	integer(int32)
<b>addr3</b> <i>required</i>	Octet-3 of the IP Address	integer(int32)
<b>addr4</b> <i>required</i>	Octet-4 of the IP Address	integer(int32)
<b>address</b> <i>required</i>	IP Address of the object <b>Example</b> : "172.16.13.5"	string
<b>alias</b> <i>optional</i>	Alias name of the Object <b>Example</b> : "zxcvb"	string
<b>alloc_type</b> <i>required</i>	Allocation type for this object <b>Example</b> : "Static/Manual/Dynamic/Reserved etc"	integer(int32)
<b>alloc_type_desc</b> <i>required</i>	Object allocation type <b>Example</b> : "Static/Dynamic/Manual/Auto/Reserved"	string
<b>allowClassesArray</b> <i>optional</i>	List of DHCP Classes applicable to this object	< string > array

Name	Description	Schema
<b>change_control_team</b> <i>optional</i>	Details of the change control team	string
<b>city</b> <i>optional</i>	City of the location <b>Example</b> : "zxcv"	string
<b>class_code</b> <i>required</i>	Object type/Class code of the object	string
<b>client_hostname</b> <i>required</i>	Host name of this object <b>Example</b> : "abcd"	string
<b>cloudAttributes</b> <i>optional</i>	Cloud Attributes	< string, string > map
<b>cloudExtensions</b> <i>optional</i>	Cloud Extensions	< <a href="#">Xtn NVP</a> > array
<b>contact_email_id</b> <i>optional</i>	Email address of the object <b>Example</b> : " <a href="mailto:abc@gmail.com">abc@gmail.com</a> "	string
<b>contact_first_name</b> <i>optional</i>	First name of the contact	string
<b>contact_last_name</b> <i>optional</i>	Last name of the contact	string
<b>contact_middle_name</b> <i>optional</i>	Middle name of the contact	string
<b>contact_name</b> <i>optional</i>	Contact name	string
<b>country</b> <i>optional</i>	Country of the location <b>Example</b> : "xyza"	string
<b>created_by_login_name</b> <i>optional</i>	Name of the user who created this object <b>Example</b> : "John"	string
<b>created_by_name</b> <i>optional</i>	Name of the user who created this object <b>Example</b> : "John"	string
<b>created_time_string</b> <i>optional</i>	String instance of the created time	string
<b>deletedRRs</b> <i>required</i>	Array List of RRs which are deleted from the object.	< <a href="#">Resource Record</a> > array
<b>denyClassesArray</b> <i>optional</i>	List of denied DHCP Classes for this object	< string > array
<b>description</b> <i>optional</i>	Description for this object	string
<b>dhcp_server</b> <i>optional</i>	DHCP Appliance associated to this Object	string
<b>domain_name</b> <i>required</i>	Name of the domain associated with this object <b>Example</b> : "domain.com"	string
<b>dyn_update_rrs_a</b> <i>required</i>	Dynamic update DNS with A Resource Records <b>Example</b> : false	boolean
<b>dyn_update_rrs_cname</b> <i>required</i>	Dynamic update DNS with CNAME Resource Records	boolean
<b>dyn_update_rrs_mx</b> <i>required</i>	Dynamic update DNS with MX Resource Records	boolean
<b>dyn_update_rrs_ptr</b> <i>required</i>	Dynamic update DNS with PTR Resource Records	boolean
<b>end_of_life</b> <i>optional</i>	End of life of this object <b>Example</b> : "2022-03-14 06:58:42"	string
<b>ends</b> <i>optional</i>	Lease end time of a DHCP object <b>Example</b> : "2022-03-01 03:04:09"	string
<b>extensions</b> <i>optional</i>		< <a href="#">Xtn NVP</a> > array
<b>floor</b> <i>optional</i>	Floor (placement) of this object	string
<b>ip_address</b> <i>required</i>	IP Address of this object <b>Example</b> : "172.16.13.1"	string
<b>ipv6Address</b> <i>optional</i>		string
<b>isDeleterrsChecked</b> <i>required</i>	Delete resource record references. <b>Example</b> : "0 or 1"	integer(int32)

Name	Description	Schema
<b>isRenew</b> <i>optional</i>		string
<b>last_seen</b> <i>optional</i>	Last seen of object <b>Example</b> : "2022-03-14 06:58:42"	string(date-time)
<b>last_seen_string</b> <i>optional</i>	Last seen of object <b>Example</b> : "2022-03-14 06:58:42"	string
<b>location_name</b> <i>optional</i>	Name of the location <b>Example</b> : "abcdef"	string
<b>mac</b> <i>optional</i>	MAC Address of this object <b>Example</b> : "aa:bb:cc:dd:ee:ff"	string
<b>mac_address</b> <i>optional</i>	MAC Address of this object <b>Example</b> : "aa:bb:cc:dd:ee:ff"	string
<b>managed_by</b> <i>optional</i>	Name of user who manages this object <b>Example</b> : "admin"	string
<b>model_type</b> <i>optional</i>	Model type of this object	string
<b>monitored_by</b> <i>optional</i>	Name of the user who manages this object <b>Example</b> : "admin"	string
<b>name</b> <i>optional</i>	Name of the object <b>Example</b> : "timsobject"	string
<b>network_address</b> <i>optional</i>	Network Address <b>Example</b> : "172.16.13.0"	string
<b>noOfAssociation</b> <i>optional</i>		integer(int32)
<b>operation</b> <i>optional</i>	Mode of operation <b>Example</b> : "add/edit/delete"	string
<b>option_template_name</b> <i>optional</i>	Name of the DHCP option template <b>Example</b> : "dhcp_option"	string
<b>organization_name</b> <i>required</i>	Name of the organization associated with this object <b>Example</b> : "Internal"	string
<b>region</b> <i>optional</i>		string
<b>room</b> <i>optional</i>	Room (placement) of this object	string
<b>rrs</b> <i>optional</i>	Collection of Resource Records associated to this object	< <a href="#">Resource Record</a> > array
<b>rrsXML</b> <i>optional</i>		string
<b>serial_num</b> <i>optional</i>	Serial Number of this object	string
<b>starts</b> <i>optional</i>	Lease start time of a DHCP object <b>Example</b> : "2022-03-01 02:59:09"	string
<b>state</b> <i>optional</i>	State of the location <b>Example</b> : "asdf"	string
<b>street1</b> <i>optional</i>	Street-1 of the location <b>Example</b> : "abc"	string
<b>street2</b> <i>optional</i>	Street-2 of the location <b>Example</b> : "def"	string
<b>subnet_address</b> <i>required</i>	Subnet address to which the object belongs to <b>Example</b> : "10.0.0.0/24"	string
<b>switchName</b> <i>optional</i>	Switch name <b>Example</b> : "switch1"	string
<b>terminal_server_kvm</b> <i>optional</i>	Terminal Server for this object	string
<b>ttl</b> <i>optional</i>	Time to live for this object <b>Example</b> : 1200	integer(int32)
<b>update_ns_a</b> <i>required</i>	Dynamic update DNS with the A records	boolean
<b>update_ns_ptr</b> <i>required</i>	Dynamic update DNS with PTR records	boolean
<b>updated_by_login_name</b> <i>optional</i>	Name of the user who updated this object <b>Example</b> : "John"	string

Name	Description	Schema
<b>updated_by_name</b> <i>optional</i>	Name of the user who updated this object <b>Example</b> : "qwerty"	string
<b>updated_time</b> <i>optional</i>	Updated time of the object <b>Example</b> : "12:10:50 11-28-2018"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String instance of the updated time	string
<b>v6_Id</b> <i>optional</i>		integer(int32)
<b>viewList</b> <i>optional</i>		< <a href="#">DNS View</a> > array
<b>viewName</b> <i>optional</i>	DNS View applicable to this object <b>Example</b> : "viewname"	string
<b>zip</b> <i>optional</i>	Zip code of the location <b>Example</b> : "50000"	string

### 5.475. Tag

Name	Description	Schema
<b>key</b> <i>optional</i>		string
<b>value</b> <i>optional</i>		string

### 5.476. Template

This class represents a Template and contains the attributes necessary for Template management functionality in the TCPWave IPAM. The information includes the Entity Type, Server Type, Param Name, Param Value and other Template related information.

Name	Description	Schema
<b>aclList</b> <i>required</i>	Array list of Access Control List(ACL) for the specified Template.	< <a href="#">Access Control List(ACL)</a> > array
<b>array_params</b> <i>required</i>	Collection of DHCP Parameters	< <a href="#">Parameters Information</a> > array
<b>array_templates</b> <i>optional</i>	Collection of DHCP Templates	< <a href="#">Template</a> > array
<b>code</b> <i>optional</i>	Category of the DHCP Template. Specifies if its Policy Template/Option Template	string
<b>cookieSecret</b> <i>optional</i>	Generated random key which will be taken as cookie in the global options section of named.conf <b>Example</b> : "X634555"	string
<b>created_by</b> <i>required</i>	Id of the User who has created the specified Template. <b>Example</b> : 2017	integer(int32)
<b>created_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified Template. <b>Example</b> : "Stephen"	string
<b>created_by_name</b> <i>optional</i>	Name of the User who has created the specified Template. <b>Example</b> : "Stephen"	string
<b>created_time</b> <i>optional</i>	The instant when the specified Template has been created. <b>Example</b> : "03/18/2022 3:39"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified Template has been created. <b>Example</b> : "03/18/2022 3:39"	string
<b>customAcls</b> <i>optional</i>	DNS custom ACLs List	string
<b>data_type</b> <i>required</i>	Data Type of a parameter associated with the specified Template.	string
<b>deletedCustomAcls</b> <i>optional</i>		string
<b>description</b> <i>optional</i>	Description of the specified Template. <b>Example</b> : "Zone Template Definition For Corp's External DNS Zones"	string
<b>display_name</b> <i>optional</i>	Display name of a parameter associated with the specified Template.	string
<b>entity_type_code</b> <i>required</i>	Type Code of the entity which is associated with the specified Template. <b>Example</b> : "ZONE"	string



Name	Description	Schema
<b>entity_type_id</b> <i>required</i>	Id of the Entity Type which is associated with the specified Template. <b>Example</b> : 61	integer(int32)
<b>external_dns_appliance_algo</b> <i>optional</i>	External DNS appliance algorithm	string
<b>external_dns_appliance_secret</b> <i>optional</i>	External DNS appliance secret	string
<b>geoPath</b> <i>optional</i>		string
<b>max_value</b> <i>required</i>	Maximum Value of a parameter associated with the specified Template.	integer(int32)
<b>min_value</b> <i>required</i>	Minimum Value of a parameter associated with the specified Template.	integer(int32)
<b>numeric_value</b> <i>required</i>	Numeric Value of a parameter associated with the specified Template.	integer(int32)
<b>old_template_name</b> <i>required</i>	Name of the specified template before modification. <b>Example</b> : "Corp. IDNS Zone Template"	string
<b>organization_id</b> <i>required</i>	Id of the Organization associated with the specified Template. <b>Example</b> : 990	integer(int32)
<b>organization_name</b> <i>required</i>	Name of the Organization associated with the specified Template. <b>Example</b> : "EARTH"	string
<b>param_id</b> <i>required</i>	Parameter Id for the specified Template.	integer(int32)
<b>param_name</b> <i>required</i>	Parameter Name for the specified Template.	string
<b>server_type_code</b> <i>required</i>	Type Code of the server which is associated with the specified Template. <b>Example</b> : "BIND CACHE"	string
<b>server_type_id</b> <i>required</i>	Id of the server which is associated with the specified Template. <b>Example</b> : 70	integer(int32)
<b>templInfo</b> <i>optional</i>	Template information	< <a href="#">Template information</a> > array
<b>template_id</b> <i>required</i>	Id of the specified Template. <b>Example</b> : 41230	integer(int32)
<b>template_name</b> <i>required</i>	Name of the specified Template. <b>Example</b> : "Corp. EDNS Zone Template"	string
<b>updated_by</b> <i>required</i>	Id of the User who has modified the specified Template. <b>Example</b> : 2019	integer(int32)
<b>updated_by_login_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Updated By for the specified Template. <b>Example</b> : "John"	string
<b>updated_by_name</b> <i>optional</i>	Name of the User who has modified the specified Template. <b>Example</b> : "John"	string
<b>updated_time</b> <i>optional</i>	The time instance when the specified Template has been modified. <b>Example</b> : "03/18/2022 4:37"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified Template has been modified. <b>Example</b> : "03/18/2022 4:37"	string
<b>user_defined</b> <i>optional</i>	This will specify whether the parameter defined in the template is a user defined param or not. <b>Example</b> : "Y or N"	string
<b>user_text</b> <i>optional</i>	User defined text for the template. <b>Example</b> : "allow-notify{localhost};"	string
<b>valid_characters</b> <i>optional</i>	Valid characters of a parameter for the specified template.	string
<b>valid_chars</b> <i>optional</i>	Valid chars for a parameter for the specified template. <b>Example</b> : "Yes/No"	integer(int32)
<b>value</b> <i>required</i>	Value of a parameter associated with the specified Template.	string
<b>valueAsString</b> <i>optional</i>	Template parameter value as a string. <b>Example</b> : "1200 or localhost"	string

Name	Description	Schema
<b>zone_temp_mname</b> <i>optional</i>		string

### 5.477. Template References Information

Template References Information class encapsulates template name, id , organization name and the count of subnets/appliances associated with the template.

Type : object

### 5.478. Template References To Be Deleted

This class represents the request to delete the discovery template references from networks and subnets.

Name	Description	Schema
<b>addressList</b> <i>required</i>	List of network or subnet addresses from which discovery template reference has to be removed.	< string > array
<b>organizationName</b> <i>required</i>	Name of the organization to which these networks and subnets are associated with. <b>Example</b> : "Internal"	string
<b>templateName</b> <i>required</i>	Name of the discovery template which is assigned to these networks and subnets. <b>Example</b> : "Discovery template1"	string
<b>type</b> <i>required</i>	Type of component(Network/Subnet) from which reference has to be removed. <b>Example</b> : "Network"	string

### 5.479. Template Selection Data

This class holds dropdown information of templates. This class is used for Internal calls in the TCPWave IPAM.

Name	Description	Schema
<b>template_id</b> <i>optional</i>		integer(int32)
<b>template_name</b> <i>optional</i>		string

### 5.480. Template information

Template information class provides the details of DNS cookie parameters.

Name	Description	Schema
<b>cookie_secret_key</b> <i>optional</i>	Generated random key which will be taken as cookie in the global options section of named.conf <b>Example</b> : "X634555"	string
<b>tempDesc</b> <i>optional</i>	Template description <b>Example</b> : "test"	string
<b>templates</b> <i>optional</i>	Template	< <a href="#">Template</a> > array

### 5.481. Time Zone

This class specifies the Time Zone of DNS and DHCP Appliances defined in the TCPWave IPAM.

Name	Description	Schema
<b>name</b> <i>required</i>	Name of the time zone corresponding to a given DNS/DHCP Appliance <b>Example</b> : "America/Merida (Central Time Campeche, Yucatan)"	string

### 5.482. Tims Scheduled Job Information

This class represents information of a Scheduled Job in TCPWave IPAM. This class is used for internal calls in TCPWave IPAM.

Name	Description	Schema
<b>createdBy</b> <i>optional</i>	Login ID of the user who created the schedule job <b>Example</b> : 2226	integer(int32)
<b>createdByName</b> <i>optional</i>	User name who created the entity <b>Example</b> : "Smith"	string
<b>createdTime</b> <i>optional</i>	Date and Time of creation of the entity <b>Example</b> : "3/18/2016 4:37"	string(date-time)
<b>description</b> <i>optional</i>		string
<b>endDate</b> <i>required</i>	End date <b>Example</b> : "4/18/2022 4:37"	string(date-time)

Name	Description	Schema
<b>endDateString</b> <i>required</i>	End date <b>Example</b> : "3/18/2017 4:50"	string
<b>id</b> <i>required</i>	Database Id of the scheduled job <b>Example</b> : 101	integer(int32)
<b>jobData</b> <i>optional</i>		string
<b>jobId</b> <i>optional</i>		string
<b>jobType</b> <i>optional</i>		string
<b>jobpaused</b> <i>required</i>	Scheduled job status	integer(int32)
<b>operation</b> <i>required</i>	Operation type <b>Example</b> : "Add"	string
<b>repeatCount</b> <i>optional</i>		integer(int32)
<b>repeatInterval</b> <i>optional</i>		integer(int64)
<b>repeatIntervalString</b> <i>required</i>	Scheduled job repeat interval	string
<b>runDay</b> <i>optional</i>		integer(int32)
<b>runDayDisplayString</b> <i>required</i>	Job execution day	string
<b>runTimeString</b> <i>required</i>	Execution Time	string
<b>scheduleType</b> <i>optional</i>		string
<b>startDate</b> <i>required</i>	Start date <b>Example</b> : "3/18/2022 4:37"	string(date-time)
<b>startDateString</b> <i>required</i>	Start date <b>Example</b> : "3/18/2016 4:50"	string
<b>sysjob</b> <i>required</i>	Database job Id <b>Example</b> : 112	integer(int32)
<b>target_instance</b> <i>required</i>	Target Instance <b>Example</b> : "Object"	string
<b>updatedBy</b> <i>optional</i>	Login ID of the user who updated the schedule job <b>Example</b> : 2226	integer(int32)
<b>updatedByName</b> <i>optional</i>	Database ID of the user who updated the entity	string
<b>updatedTime</b> <i>optional</i>	Date and time of updating the entity <b>Example</b> : "5/18/2016 4:37"	string(date-time)

### 5.483. TitanEndUserSecurity

Name	Description	Schema
<b>dbstoreString</b> <i>optional</i>		string
<b>enabled</b> <i>optional</i>		boolean
<b>expDate</b> <i>optional</i>		string(date-time)
<b>expDateString</b> <i>optional</i>		string
<b>expDays</b> <i>optional</i>		integer(int32)
<b>feedType</b> <i>optional</i>		integer(int32)

### 5.484. Top Ten Element

This class represents top ten subnets of a network. This class is used for internal calls in the TCPWave IPAM.

Name	Description	Schema

Name	Description	Schema
<b>name</b> <i>required</i>	Name	string
<b>percent</b> <i>required</i>	Percentage	number(double)

### 5.485. Top talker

Fetches the toptalker information for DNS/DHCP Appliances defined in the TCPWave IPAM

Name	Description	Schema
<b>clientName</b> <i>required</i>	Get the hostname of Client <b>Example</b> : "hostname"	string
<b>count</b> <i>optional</i>		integer(int32)
<b>date</b> <i>required</i>	Get date of top talker received <b>Example</b> : "2022-01-18 16:11:30"	string
<b>domain</b> <i>optional</i>		string
<b>end_time</b> <i>optional</i>		string
<b>interval</b> <i>optional</i>		string
<b>ip</b> <i>required</i>	Get the IP address of DNS/DHCP Appliance <b>Example</b> : "10.1.2.36"	string
<b>name</b> <i>required</i>	Get the name of DNS/DHCP server <b>Example</b> : "nusax"	string
<b>record_type</b> <i>optional</i>		string
<b>start_time</b> <i>optional</i>		string
<b>topTalker</b> <i>required</i>	Get the client IP Address <b>Example</b> : "10.1.1.35"	string
<b>type</b> <i>required</i>	Get the type of DNS/DHCP server <b>Example</b> : "DHCP"	string

### 5.486. Tree Node

An internal class that is used to hold the bookmarks information for display in the TCPWave IPAM GUI screens.

Name	Description	Schema
<b>organization</b> <i>optional</i>		string
<b>queryString</b> <i>optional</i>	Query String of URI	string

### 5.487. Undo Data

This class contains the data for undoing a delete operation in the TCPWave IPAM.

Name	Description	Schema
<b>change_ticket</b> <i>optional</i>	Change Ticket value <b>Example</b> : "235"	string
<b>description</b> <i>optional</i>	Description of the undo element <b>Example</b> : "Modified name"	string
<b>id</b> <i>optional</i>	ID of the undo data instance <b>Example</b> : 121	integer(int32)
<b>operation</b> <i>optional</i>	Mode of operation <b>Example</b> : "add/delete"	string
<b>organization_name</b> <i>optional</i>	Organization name of undo element <b>Example</b> : "Internal"	string
<b>status</b> <i>optional</i>	Status of the undo operation <b>Example</b> : 1	integer(int32)
<b>status_string</b> <i>optional</i>	Status of the undo operation	string
<b>updated_by_login_name</b> <i>required</i>	Name of the user who updated the undo element <b>Example</b> : "Stephen"	string
<b>updated_time</b> <i>optional</i>	The time instance at which the undo element has been modified. <b>Example</b> : "01/18/2022 4:37"	string(date-time)

Name	Description	Schema
<b>updated_time_string</b> <i>optional</i>	String format of the updated time of the undo element. <b>Example</b> : "01/18/2022 4:37"	string

### 5.488. User

This class contains user information related to an Admin. The information includes the first and last names, email address, phone number, role, and the status - if password expired or account locked, and how many failed attempts to login, the admin groups associated with the user, and extensions.

Name	Description	Schema
<b>account_locked</b> <i>required</i>	If account is locked or not. <b>Example</b> : false	boolean
<b>adminId</b> <i>required</i>	ID of the Admin. <b>Example</b> : 2024	integer(int32)
<b>admin_group_name</b> <i>optional</i>	Admin Group Name <b>Example</b> : "King"	string
<b>admin_groups</b> <i>optional</i>	Admin Group(s) associated with the User.	< <a href="#">Admin Group</a> > array
<b>admin_image</b> <i>optional</i>	Base64 string value of an image	string
<b>admin_permissionsList</b> <i>optional</i>	Admin Permissions List	< <a href="#">Permission</a> > array
<b>admin_roles</b> <i>optional</i>		< <a href="#">AdministratorRoles</a> > array
<b>allowed_function</b> <i>optional</i>		< string > array
<b>createdBy</b> <i>optional</i>		integer(int32)
<b>createdByUser</b> <i>optional</i>		string
<b>createdTime</b> <i>optional</i>		string(date-time)
<b>created_by_name</b> <i>optional</i>	Name of Admin who has added the User.	string
<b>created_time</b> <i>required</i>	Time when User has been created. <b>Example</b> : "01/01/2022 0:09"	string(date-time)
<b>created_time_string</b> <i>required</i>	Date and Time when User has been created. <b>Example</b> : "2022-02-12 07:35:43.0"	string
<b>email_id</b> <i>optional</i>	Email ID of the User. <b>Example</b> : "adm@tcpwave.com"	string
<b>extensions</b> <i>optional</i>	Extended Attribute Values	< <a href="#">Xtn NVP</a> > array
<b>failed_attempts</b> <i>required</i>	Count failed login attempts. <b>Example</b> : 3	integer(int32)
<b>fileName</b> <i>optional</i>	File name of an image <b>Example</b> : "admin.png"	string
<b>first_name</b> <i>required</i>	First Name of the current logged in User. <b>Example</b> : "tango"	string
<b>id</b> <i>optional</i>	ID of the current logged in User. <b>Example</b> : 34	integer(int32)
<b>isAdmin</b> <i>required</i>	If current User is Admin. (true/false) <b>Example</b> : true	boolean
<b>last_change_time</b> <i>optional</i>	Time when User Information were last time changed.	string(date-time)
<b>last_login</b> <i>required</i>	Time when User was last time logged-in. <b>Example</b> : "01/14/2022"	string(date-time)
<b>last_name</b> <i>optional</i>	Last Name of the current logged in User. <b>Example</b> : "charli"	string
<b>login_name</b> <i>required</i>	Login Name of the User. <b>Example</b> : "NewRADM"	string
<b>login_name_of_cloned_user</b> <i>optional</i>		string
<b>middle_name</b> <i>required</i>	Middle Name of the current logged in User. <b>Example</b> : "chaplin"	string

Name	Description	Schema
<b>new_email_id</b> <i>optional</i>	Updated Email Id of the User. <b>Example</b> : "adm@tcpwave.com"	string
<b>new_first_name</b> <i>optional</i>	Updated first name of the User. <b>Example</b> : "Denial"	string
<b>new_is_admin</b> <i>optional</i>	If User is Admin or not. <b>Example</b> : true	boolean
<b>new_last_name</b> <i>optional</i>	Updated last name of the User. <b>Example</b> : "shawn"	string
<b>new_login_name</b> <i>optional</i>	Updated Login Name. <b>Example</b> : "Denial11"	string
<b>new_middle_name</b> <i>optional</i>	Updated middle name of the User. <b>Example</b> : "smith"	string
<b>organizationListString</b> <i>optional</i>		string
<b>organization_id</b> <i>required</i>	ID of the Organization with which User is associated. <b>Example</b> : 2	integer(int32)
<b>organization_name</b> <i>required</i>	Name of the Organization with which User is associated. <b>Example</b> : "TCPWave"	string
<b>password_expired</b> <i>required</i>	If password is expired or not. <b>Example</b> : false	boolean
<b>phone_num</b> <i>optional</i>	Phone Number of the User. <b>Example</b> : "7878989888"	string
<b>rolesMap</b> <i>optional</i>		< string, < string > array > map
<b>roles_code</b> <i>required</i>	Code for the User Role. (e.g. FADM/SADM/RADM) <b>Example</b> : "RADM"	string
<b>roles_id</b> <i>required</i>	Role of the User. (e.g. FADM/SADM/RADM) <b>Example</b> : "RADM"	integer(int32)
<b>roles_name</b> <i>optional</i>	Modified User Role. <b>Example</b> : "RADM"	string
<b>updatedBy</b> <i>optional</i>		integer(int32)
<b>updatedByUser</b> <i>optional</i>		string
<b>updatedTime</b> <i>optional</i>		string(date-time)
<b>updated_by_name</b> <i>optional</i>	Name of Admin who has updated the User.	string
<b>updated_time</b> <i>required</i>	Time when User has been updated. <b>Example</b> : "02/04/2022 0:11"	string(date-time)
<b>updated_time_string</b> <i>required</i>	Date and Time when User has been updated. <b>Example</b> : "01/03/2022 0:55"	string
<b>userRolesForAllOrgs</b> <i>optional</i>		< string > array

### 5.489. User Certificate

This class represents the Client side certificate information that is used by the TCPWave IPAM to allow session less secure REST API invocation for integrating with automation flows and third party tools. The information includes the certificate details, validity, and associated admin information. This certificate is imported to TCPWave IPAM using the provided GUI and CLI. The REST API calls made with this mechanism are subjected to the same authorization as the associated admin and are audited against that admin.

Name	Description	Schema
<b>associated_user</b> <i>optional</i>	Database ID of the user associated with the user certificate <b>Example</b> : 1226	integer(int32)
<b>associated_user_name</b> <i>optional</i>	Name of the user associated with the user certificate <b>Example</b> : "Smith"	string
<b>id</b> <i>optional</i>	Database Id of the user certificate <b>Example</b> : 123	integer(int32)
<b>imported_by</b> <i>optional</i>	Database ID of the user who imported the user certificate <b>Example</b> : 1553	integer(int32)
<b>imported_by_name</b> <i>optional</i>	Name of the user who imported the user certificate <b>Example</b> : "Adam"	string
<b>imported_time</b> <i>optional</i>	Time at which the certificate is imported <b>Example</b> : "5/18/2016 4:37"	string(date-time)

Name	Description	Schema
<b>issuer</b> <i>optional</i>	Name of the user certificate issuer	string
<b>name</b> <i>required</i>	User certificate name <b>Example</b> : "user_cert1"	string
<b>owner</b> <i>optional</i>	Name of the user certificate owner <b>Example</b> : "Jhon"	string
<b>serial_num</b> <i>required</i>	User certificate serial number <b>Example</b> : "12345"	string
<b>valid_from</b> <i>required</i>	Validity start date of the message certificate. <b>Example</b> : "03/18/2022"	string
<b>valid_to</b> <i>required</i>	Validity end date of the message certificate. <b>Example</b> : "03/18/2022"	string

### 5.490. User Permission

This class represents a privilege associated with the admin. The information includes the entity type, resource instance information, if it is inherited permission by virtue of being associated with an admin group, and who granted the privilege, etc.

Name	Description	Schema
<b>admin_admin_groups</b> <i>required</i>	Admin groups with which user is associated. <b>Example</b> : "group1,group2,group3"	string
<b>admin_name</b> <i>required</i>	Admin name	string
<b>admin_role</b> <i>required</i>	Admin Role <b>Example</b> : "Functional Admin"	string
<b>created_by</b> <i>optional</i>	User Id	integer(int32)
<b>created_by_user</b> <i>optional</i>	User name	string
<b>created_time</b> <i>optional</i>	Creation time	string(date-time)
<b>created_time_string</b> <i>optional</i>	Creation time as String	string
<b>function_id</b> <i>optional</i>		integer(int32)
<b>function_name</b> <i>optional</i>		string
<b>id</b> <i>optional</i>	Admin ID	integer(int32)
<b>level</b> <i>required</i>	Level of permission <b>Example</b> : "Network/Subnet/Object/Domain/Subnet Group etc. "	string
<b>privilege</b> <i>required</i>	Type of privilege <b>Example</b> : "READ/READ-WRITE"	string
<b>privilegeCode</b> <i>required</i>	Integer value for the privilege <b>Example</b> : "4 = READ; 6 = READ-WRITE"	integer(int32)
<b>role_function_id</b> <i>optional</i>		integer(int32)
<b>subnet_within_sgroup</b> <i>required</i>	Subnet within the subnet group, to which the target user have permissions.	< string > array
<b>target</b> <i>required</i>	Target Value <b>Example</b> : "10.0.0.0/24"	string
<b>target_address</b> <i>optional</i>	Address of the target	string
<b>target_description</b> <i>required</i>	Description of the target	string
<b>target_name</b> <i>optional</i>	Name or value of the target <b>Example</b> : "[\"10.1.0.0/16\"]"	string
<b>type</b> <i>required</i>	Type of the target <b>Example</b> : "Network/Subnet/Object"	string

### 5.491. UserDashboards

Name	Description	Schema
<b>configList</b> <i>optional</i>		string

Name	Description	Schema
<b>dashboardName</b> <i>optional</i>		string
<b>list</b> <i>optional</i>	List of all dashboards	< <a href="#">Dashboard</a> > array
<b>position</b> <i>optional</i>		string
<b>selectedDashWidgets</b> <i>optional</i>	List of widgets of selected/default dashboard.	< <a href="#">DashboardWidget</a> > array

#### 5.492. UserIdGroupPair

Name	Description	Schema
<b>description</b> <i>optional</i>		string
<b>groupId</b> <i>optional</i>		string
<b>groupName</b> <i>optional</i>		string
<b>peeringStatus</b> <i>optional</i>		string
<b>userId</b> <i>optional</i>		string
<b>vpcId</b> <i>optional</i>		string
<b>vpcPeeringConnectionId</b> <i>optional</i>		string

#### 5.493. Utility Bean

This class encapsulate the information, that is fetch from Azure provider.

Name	Description	Schema
<b>additionalDetails</b> <i>optional</i>	Encapsulates information of region, instance etc.	string
<b>description</b> <i>optional</i>	Description of Azure provider	string
<b>name</b> <i>optional</i>	Name of Azure provider	string

#### 5.494. V6IPAMAppliance

Name	Description
<b>applianceGroups</b> <i>optional</i>	
<b>applianceGroupsStr</b> <i>optional</i>	
<b>created_by</b> <i>required</i>	IPAM appliance created by user Id <b>Example</b> : 1219
<b>created_by_name</b> <i>optional</i>	IPAM appliance created by user name <b>Example</b> : "twcuser"
<b>created_time</b> <i>optional</i>	IPAM appliance created time stamp <b>Example</b> : "122221231"
<b>description</b> <i>optional</i>	IPAM appliance description <b>Example</b> : "This is a IPAM appliance."
<b>domain_id</b> <i>optional</i>	Domain Id <b>Example</b> : 15
<b>domain_name</b> <i>required</i>	Domain name <b>Example</b> : "tcpwave.com"
<b>firewall_template</b> <i>optional</i>	Firewall template of the IPAM appliance <b>Example</b> : "Firewall_Template"
<b>firewall_template_id</b> <i>optional</i>	Template ID of Firewall template <b>Example</b> : 15
<b>id</b> <i>optional</i>	IPAM Appliance ID <b>Example</b> : 12
<b>ipamTemplate</b> <i>optional</i>	Template name of IPAM appliance



Name	Description
<b>isAlive</b> <i>required</i>	Is secure communication establish or not <b>Example</b> : false
<b>isClusterIPAM</b> <i>optional</i>	Is the IPAM appliance part of the HA or DR cluster or not? <b>Example</b> : "true/false"
<b>isHost</b> <i>optional</i>	Is IPAM appliance local host or not? <b>Example</b> : false
<b>lastSyncTime</b> <i>optional</i>	Last sync time of the IPAM appliance <b>Example</b> : "05:21:35 02-01-2022"
<b>mgmtIP</b> <i>optional</i>	IP address of management or primary network interface, that is used to connect to IPAM. <b>Example</b> : "192.168.0.45"
<b>name</b> <i>required</i>	Object name of the TCPWave IPAM type object or IPAM appliance name <b>Example</b> : "test"
<b>nicsConfig</b> <i>optional</i>	Details of network interface
<b>object_id</b> <i>optional</i>	Object ID of the TCPWave IPAM type object <b>Example</b> : 15
<b>old_firewall_template</b> <i>optional</i>	
<b>old_v4_ipaddress</b> <i>required</i>	Object IPv4 old address of the TCPWave IPAM type object <b>Example</b> : "10.12.1.2"
<b>old_v6_ipaddress</b> <i>optional</i>	
<b>oldtimeZone</b> <i>optional</i>	Old Time Zone of the IPAM appliance <b>Example</b> : "GMT"
<b>organization_id</b> <i>optional</i>	Organization Id <b>Example</b> : 15
<b>organization_name</b> <i>optional</i>	Organization Name <b>Example</b> : "Internal"
<b>rtTablesjson</b> <i>optional</i>	RtTables information JSON string <b>Example</b> : "[{"port":"255","name":"local"}, {"port":"254","name":"main"}, {"port":"253","name":"def"}]"
<b>snmpAcl</b> <i>optional</i>	Acl Name <b>Example</b> : "TestAcl"
<b>snmpAcl_id</b> <i>optional</i>	Acl Id <b>Example</b> : 123
<b>sysLogs</b> <i>optional</i>	Syslog-ng configuration object <b>Example</b> : "{ \"globalOptions\": \"\", \"timewaitdead\": \"70\", \"timetoidle\": \"78\", \"messagetoBuffer\": \"60\", \"twstatic\": \"\", \"name\": \"s_sys\", \"allSources\": [ { \"type\": \"internal\", \"filePath\": null, \"fileName\": null, \"address\": null, \"port\": null, \"type\": \"system\", \"filePath\": null, \"fileName\": null, \"address\": null, \"port\": null, \"protocol\": null } ], \"sourceType\": \"(facility(mail) or facility(authpriv) or facility(cron))\", \"category\": \"complex\" }, \"destinationData\": [ { \"name\": \"d_mesg\", \"typeSNG\": \"File\", \"logDestGivenValSNG\": \"/var/log/messages\", \"syncAfterEachMsg\": false } ], \"\""
<b>timeZone</b> <i>optional</i>	Time Zone of the IPAM appliance <b>Example</b> : "GMT"
<b>updated_by</b> <i>optional</i>	IPAM appliance updated by user Id <b>Example</b> : 1219
<b>updated_by_name</b> <i>optional</i>	IPAM appliance updated by user name <b>Example</b> : "twcuser"
<b>updated_time</b> <i>optional</i>	IPAM appliance updated time stamp <b>Example</b> : "122221231"
<b>v4_ipaddress</b> <i>required</i>	Object IPv4 address of the TCPWave IPAM type object <b>Example</b> : "10.12.1.2"
<b>v6_ipaddress</b> <i>optional</i>	Object IPv6 address of the TCPWave IPAM type object <b>Example</b> : "1000::"

### 5.495. V6IPAMServicesInfo

Name	Description	Schema
<b>appliances</b> <i>optional</i>	List of IPAM appliances and their services.	< <a href="#">IPAMServices</a> > array
<b>operation</b> <i>optional</i>	Operation type <b>Example</b> : "start/stop/restart/rebuild"	string
<b>operationMethod</b> <i>optional</i>	Operation method <b>Example</b> : "sequential/simultaneous"	string
<b>schedTime</b> <i>optional</i>	Operation schedule time <b>Example</b> : "2022-03-07 16:22:00"	string

Name	Description	Schema
<b>services</b> <i>optional</i>	Comma separated services <b>Example</b> : "ntpd,sshd,snmpd,cliserver"	string

## 5.496. V6IPAMTemplate

Name	Description
<b>applianceType</b> <i>optional</i>	IPAM appliance type <b>Example</b> : "development"
<b>banner</b> <i>optional</i>	IPAM appliance banner text <b>Example</b> : "This is a banner."
<b>banner_color</b> <i>optional</i>	IPAM appliance banner text color <b>Example</b> : "red"
<b>created_by</b> <i>required</i>	IPAM appliance template created by user Id <b>Example</b> : 1219
<b>created_by_name</b> <i>optional</i>	IPAM appliance template created by user name <b>Example</b> : "twouser"
<b>created_time</b> <i>optional</i>	IPAM appliance template created time stamp <b>Example</b> : "122221231"
<b>description</b> <i>optional</i>	IPAM appliance template description <b>Example</b> : "This is a test template."
<b>dnsResolverConfig</b> <i>required</i>	IPAM appliance template DNSResolver configuration JSON string <b>Example</b> : "{\n\"ns1\":\n\"10.2.1.21\", \"ns2\":\n\"\", \"ns3\":\n\"\", \"ns4\":\n\"\", \"search1\":\n\"\", \"search2\":\n\"\", \"search3\":\n\"\"}"
<b>elevatedPrivilegesConfig</b> <i>optional</i>	Elevated Privileges Configuration Details <b>Example</b> : "{\n\"environmentVariables\":{\n\"value\":\n\"Defaults always_query_group_plugin\"}, \"userAliases\":{\n\"user_alias_name\":\n\"HOST_ALIAS_1\", \"host_alias_value\":\n\"192.168.0.139\"}, \"runasAliases\":{\n\"runas_alias_name\":\n\"COMMAND_ALIAS_1\", \"command_alias_value\":\n\"/cp\"}, \"userSpecifications\":{\n\"user_alias\":\n\"USER_ALIAS_1\", \"host_alias\":\n\"HOST_ALIAS_1\", \"runas_alias\":\n\"RUNAS_ALIAS_1\", \"runas_group_alias\":\n\"\"}"
<b>elevatedPrivilegesjson</b> <i>optional</i>	Elevated Privileges Configuration JSON String <b>Example</b> : "{\n\"environmentVariables\":{\n\"value\":\n\"Defaults always_query_group_plugin\"}, \"userAliases\":{\n\"user_alias_name\":\n\"HOST_ALIAS_1\", \"host_alias_value\":\n\"192.168.0.139\"}, \"runasAliases\":{\n\"runas_alias_name\":\n\"COMMAND_ALIAS_1\", \"command_alias_value\":\n\"/cp\"}, \"userSpecifications\":{\n\"user_alias\":\n\"USER_ALIAS_1\", \"host_alias\":\n\"HOST_ALIAS_1\", \"runas_alias\":\n\"RUNAS_ALIAS_1\", \"runas_group_alias\":\n\"\"}"
<b>enableSNMPv3</b> <i>required</i>	Specifies whether SNMPv3 is enabled or not on the IPAM. <b>Example</b> : true
<b>id</b> <i>optional</i>	IPAM appliance template Id <b>Example</b> : 15
<b>idracConfig</b> <i>optional</i>	IPAM appliance template iDrac configuration JSON string <b>Example</b> : "{\n\"password\":\n\"\", \"address\":\n\"\", \"enable\":\n\"\", \"snmp_community_string\":\n\"\"}"
<b>ldapSSHConfig</b> <i>optional</i>	LDAP_SSH Configuration JSON String <b>Example</b> : "{\n\"enable\":false}"
<b>log_file_size</b> <i>optional</i>	IPAM appliance template, log file size <b>Example</b> : "5MB"
<b>name</b> <i>optional</i>	IPAM appliance template name <b>Example</b> : "test"
<b>no_of_backup_log_files</b> <i>optional</i>	IPAM appliance template, no of backup log files <b>Example</b> : 5
<b>ntpConfig</b> <i>required</i>	Comma separated NTP appliances of IPAM appliance template <b>Example</b> : "10.2.2.1,10.2.21.1"
<b>oldName</b> <i>required</i>	IPAM appliance template old name <b>Example</b> : "test"
<b>organization</b> <i>required</i>	Organization name <b>Example</b> : "Internal"
<b>organization_id</b> <i>optional</i>	Organization Id <b>Example</b> : 2121
<b>rootConfig</b> <i>optional</i>	IPAM appliance template Root password <b>Example</b> : "abc"
<b>snmpConfig</b> <i>required</i>	IPAM appliance template SNMP configuration JSON string <b>Example</b> : "{\n\"systemLocation\":\n\"\", \"processes\":\n\"ntpd-1/snmpd-0/crond-0/sshd-0/de-1/cli-0/search-1/tims-0/timssched-0\", \"trapSink2\":\n\"10.2.2.43\", \"communityString\":\n\"8DE1BF9E2B9819A3\", \"trapSink1\":\n\"10.2.1.122\", \"systemContact\":\n\"\"}"
<b>snmpv3Users</b> <i>required</i>	Specifies list of SNMPv3 users.
<b>ssh_banner</b> <i>optional</i>	IPAM appliance SSH banner text <b>Example</b> : "This is a SSH banner."
<b>sysLogNgConfig</b> <i>optional</i>	Syslog-ng configuration object

Name	Description
<b>sysLogsConfig</b> <i>optional</i>	Syslog-ng configuration object <b>Example</b> : <code>{"globalOptions\":"}</code> <code>{\\"timewaitdead\\":\\"70\\",\\"timetoidle\\":\\"78\\",\\"messagetobuffer\\":\\"60\\",\\"twstatic\\":\\"} [{"name\":"s_sys",\\"allSources\\": [{"type\":"internal",\\"filePath\\":null,\\"fileName\\":null,\\"address\\":null,\\"p {"type\":"system",\\"filePath\\":null,\\"fileName\\":null,\\"address\\":null,\\"port\\":null,\\"protocol\\":null}],\\"source (facility(mail) or facility(authpriv) or facility(cron))",\\"category\":"complex"}],\\"destinationData\\": [{"name\":"d_msg",\\"typeSNG\\":\\"File\\",\\"logDestGivenValSNG\\":\\"/var/log/messages\\",\\"syncAfterEachMsg\\":false}]}</code>
<b>systemResources</b> <i>required</i>	Specifies system resource option values
<b>tacacsConfig</b> <i>required</i>	IPAM appliance template TACACS configuration JSON string <b>Example</b> : <code>{"appliance\":"",\\"enable\\":false,\\"pass_key\\":\\""}"</code>
<b>updated_by</b> <i>optional</i>	IPAM appliance template updated by user Id <b>Example</b> : 1219
<b>updated_by_name</b> <i>optional</i>	IPAM appliance template updated by user name <b>Example</b> : "twcuser"
<b>updated_time</b> <i>optional</i>	IPAM appliance template updated time stamp <b>Example</b> : "122221231"

### 5.497. VMWare Authentication Type

This class represents the authorization type for a VMWare in the TCPWave IPAM.

Name	Description	Schema
<b>id</b> <i>required</i>	ID of the VMWare appliance <b>Example</b> : 54567	integer(int32)
<b>type</b> <i>required</i>	Type of the VMWare appliance <b>Example</b> : "TCP-VMWare"	string

### 5.498. VMWare Discovery Element Details

This class represents the name, IP Address, Mask, domain, contact, location, description, VRF etc., details of a device connected to a VMWare.

Name	Description	Schema
<b>aton_address</b> <i>optional</i>		integer(int64)
<b>commandId</b> <i>optional</i>		string
<b>description</b> <i>optional</i>		string
<b>device</b> <i>optional</i>		string
<b>domainName</b> <i>optional</i>		string
<b>ip_address</b> <i>optional</i>		string
<b>last_seen</b> <i>optional</i>		string
<b>latency</b> <i>optional</i>		string
<b>mac</b> <i>optional</i>		string
<b>name</b> <i>optional</i>		string
<b>organizationName</b> <i>optional</i>		string
<b>os</b> <i>optional</i>		string
<b>ports</b> <i>optional</i>		string
<b>status</b> <i>optional</i>		string
<b>vendor</b> <i>optional</i>		string
<b>vmwareIp</b> <i>optional</i>		string

### 5.499. VMWareAuthenticationSource

Name	Description	Schema
<b>authType</b> <i>optional</i>		string
<b>authTypeId</b> <i>optional</i>		integer(int32)
<b>desc</b> <i>optional</i>		string
<b>host</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int32)
<b>ignoreCerts</b> <i>optional</i>		boolean
<b>objectIPType</b> <i>optional</i>		string
<b>objectId</b> <i>optional</i>		integer(int32)
<b>orgId</b> <i>optional</i>		integer(int32)
<b>orgName</b> <i>optional</i>		string
<b>password</b> <i>optional</i>		string
<b>port</b> <i>optional</i>		integer(int32)
<b>ssoHost</b> <i>optional</i>		string
<b>ssoPort</b> <i>optional</i>		integer(int32)
<b>userId</b> <i>optional</i>		integer(int32)
<b>userName</b> <i>optional</i>		string

### 5.500. VRF

Name	Description	Schema
<b>commandId</b> <i>optional</i>		string
<b>created_by</b> <i>optional</i>	Database ID of the user who created this entity	integer(int32)
<b>created_by_login_name</b> <i>optional</i>	Login name of the user who created this entity	string
<b>created_by_name</b> <i>required</i>	Login name of the user who created this entity	string
<b>created_time</b> <i>required</i>	Date and Time of creation of the entity	string(date-time)
<b>created_time_string</b> <i>optional</i>	String instance of the Date and Time	string
<b>description</b> <i>optional</i>		string
<b>firewallIp</b> <i>optional</i>	Firewall IP Address <b>Example</b> : "10.1.10.250"	string
<b>id</b> <i>optional</i>		integer(int32)
<b>name</b> <i>optional</i>		string
<b>organization_id</b> <i>optional</i>		integer(int32)
<b>organization_name</b> <i>optional</i>		string
<b>organization_name_readonly</b> <i>optional</i>		string
<b>route_distinguisher</b> <i>optional</i>		string

Name	Description	Schema
<b>route_target_export</b> <i>optional</i>		string
<b>route_target_import</b> <i>optional</i>		string
<b>routerIp</b> <i>optional</i>		string
<b>updated_by</b> <i>optional</i>	Database ID of the user who updated this entity	integer(int32)
<b>updated_by_login_name</b> <i>optional</i>	Login name of the user who updated this entity	string
<b>updated_by_name</b> <i>required</i>	Login name of the user who updated this entity	string
<b>updated_time</b> <i>optional</i>	Date and Time of updating the entity	string(date-time)
<b>updated_time_string</b> <i>required</i>	String instance of the Date and Time	string
<b>vrf_interface</b> <i>optional</i>		string

### 5.501. VRRP Details

This class contains information related to VRRP screen.

Name	Description	Schema
<b>global_defs</b> <i>optional</i>		<a href="#">VRRPGlobalDefinition</a>
<b>vrrpInstanceName</b> <i>optional</i>		string
<b>vrrpInstanceSubnet</b> <i>optional</i>		string
<b>vrrpVirtualIPAddress</b> <i>optional</i>		string
<b>vrrp_instance</b> <i>optional</i>		< <a href="#">VRRPInstance</a> > array

### 5.502. VRRPGlobalDefinition

Name	Description	Schema
<b>notification_email</b> <i>optional</i>		< string > array
<b>notification_email_from</b> <i>optional</i>		string
<b>smtp_connect_timeout</b> <i>optional</i>		string
<b>smtp_server</b> <i>optional</i>		string

### 5.503. VRRPInstance

Name	Description	Schema
<b>vrrpAdvertInt</b> <i>optional</i>		integer(int32)
<b>vrrpApplianceIP</b> <i>optional</i>		string
<b>vrrpApplianceInterface</b> <i>optional</i>		string
<b>vrrpAppliancePriority</b> <i>optional</i>		string
<b>vrrpInstanceState</b> <i>optional</i>		string
<b>vrrpVirtualRouterId</b> <i>optional</i>		integer(int32)

### 5.504. Vault Type

This class represents the vault type details which include ID and Name.

Name	Description	Schema

Name	Description	Schema
<b>id</b> <i>optional</i>	ID <b>Example</b> : 101	integer(int32)
<b>name</b> <i>required</i>	Name <b>Example</b> : "Native"	string

### 5.505. Vlan Details

This class represents vlan details which include index, switch Ip, name, status, port names and type. This class is used for internal calls in the TCPWave IPAM.

Name	Description	Schema
<b>commandId</b> <i>optional</i>		string
<b>ifIndex</b> <i>optional</i>	Interface index <b>Example</b> : "1"	string
<b>index</b> <i>optional</i>	Vlan Index <b>Example</b> : "2"	string
<b>name</b> <i>optional</i>	Vlan name	string
<b>portNames</b> <i>optional</i>	Port Names	< string > array
<b>port_names</b> <i>optional</i>		string
<b>status</b> <i>optional</i>	Vlan Status <b>Example</b> : "Up"	string
<b>switchIP</b> <i>optional</i>	Switch IP <b>Example</b> : "10.2.3.4"	string
<b>type</b> <i>optional</i>	Vlan Type <b>Example</b> : "Data"	string

### 5.506. Vlan Subnet Details

This class represents vlan subnet details which include name, subnet Ip, mask, description. This class is used for internal calls in the TCPWave IPAM.

Name	Description	Schema
<b>commandId</b> <i>optional</i>		string
<b>description</b> <i>optional</i>		string
<b>domain_name</b> <i>optional</i>		string
<b>id</b> <i>optional</i>		integer(int64)
<b>ipVersion</b> <i>optional</i>		integer(int32)
<b>isAccepted</b> <i>optional</i>		integer(int32)
<b>organization_name</b> <i>optional</i>		string
<b>send_to_ipam</b> <i>optional</i>		boolean
<b>sent_status</b> <i>optional</i>		boolean
<b>subnetIP</b> <i>optional</i>		string
<b>subnetMask</b> <i>optional</i>		string
<b>subnetMaskLength</b> <i>optional</i>		integer(int32)
<b>switchIp</b> <i>optional</i>		string
<b>vlanId</b> <i>optional</i>		string
<b>vlanInterface</b> <i>optional</i>		string

Name	Description	Schema
<b>vlanName</b> <i>optional</i>		string

### 5.507. Whitelist and Blacklist domain

This class represents a domain which can be used as whitelist or blacklist domain for anomaly detection.

Name	Description	Schema
<b>category</b> <i>required</i>	Category of domain. <b>Example</b> : "Whitelist"	string
<b>id</b> <i>required</i>	ID of domain.	integer(int32)
<b>name</b> <i>required</i>	Name of domain. <b>Example</b> : "tcpwave.com"	string
<b>oldName</b> <i>required</i>	Name of old domain. <b>Example</b> : "abc.com"	string

### 5.508. Widget Card

Widget card class encapsulates the information about a widget to be displayed on Dashboard or not.

Name	Description	Schema
<b>category</b> <i>optional</i>	Category of the widget <b>Example</b> : "Dashboard"	string
<b>name</b> <i>optional</i>	Name of the widget <b>Example</b> : "Health Index Score"	string
<b>status</b> <i>optional</i>	Visibility status of the widget <b>Example</b> : false	boolean

### 5.509. Xtn Attribute

This is an extensible attribute containing information like type and entity that it is applicable to. This class is used for internal calls in the TCPWave IPAM.

Name	Description	Schema
<b>created_by</b> <i>optional</i>	Created by <b>Example</b> : "admin"	string
<b>created_time</b> <i>optional</i>	Created time <b>Example</b> : "1484204472000"	string(date-time)
<b>created_time_string</b> <i>optional</i>	Created time string <b>Example</b> : "20:52:53 01-23-2022"	string
<b>description</b> <i>optional</i>	Description of the Extensible Attribute <b>Example</b> : "testing extended attribute"	string
<b>entities</b> <i>optional</i>	Array list of Extensible Entities	< <a href="#">Xtn Entity</a> > array
<b>entities_added</b> <i>optional</i>	Added Entities	< <a href="#">Xtn Entity</a> > array
<b>entities_deleted</b> <i>optional</i>	Deleted Entities	< <a href="#">Xtn Entity</a> > array
<b>entities_modified</b> <i>optional</i>	Modified Entities	< <a href="#">Xtn Entity</a> > array
<b>flag</b> <i>optional</i>		enum (CLOUD)
<b>flagInt</b> <i>optional</i>		integer(int32)
<b>high</b> <i>optional</i>	High	integer(int32)
<b>id</b> <i>optional</i>	ID of the Extensible Attribute <b>Example</b> : 8	integer(int32)
<b>inheritance</b> <i>required</i>	Inheritance Of Extensible Attribute <b>Example</b> : "Yes/No"	string
<b>is_unique</b> <i>optional</i>	unique attribute <b>Example</b> : false	boolean
<b>list_values</b> <i>optional</i>	List of Values <b>Example</b> : "Windows, Linux, Android"	string
<b>low</b> <i>optional</i>	Low	integer(int32)

Name	Description	Schema
<b>mandatory</b> <i>required</i>	If Extensible Attribute is mandatory <b>Example</b> : false	boolean
<b>name</b> <i>required</i>	Name of the Extensible Attribute <b>Example</b> : "admin"	string
<b>new_name</b> <i>optional</i>	New Name <b>Example</b> : "CHK_TKT"	string
<b>regex_values</b> <i>optional</i>	Regular expression to validate extended attribute. <b>Example</b> : "^ [ A-Za-z0-9_@.\ \\/#+-: ]*\$"	string
<b>show_on_grid</b> <i>optional</i>	show attribute on grid <b>Example</b> : false	boolean
<b>updated_by</b> <i>optional</i>	updated by <b>Example</b> : "admin"	string
<b>updated_time</b> <i>optional</i>	updated time <b>Example</b> : "1481205110000"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	Updated time string <b>Example</b> : "05:03:20 01-30-2022"	string
<b>xtn_type</b> <i>required</i>	Type of the Extensible Attribute <b>Example</b> : "String/Numeric/IP"	string

### 5.510. Xtn Entity

This class holds list of extensible attributes for a given entity like Network, Subnet, Object, Admin and Zone. This class is used for internal calls in the TCPWave IPAM.

Name	Description	Schema
<b>attrib</b> <i>required</i>	Array of Extensible Entities	< <a href="#">Xtn Attribute</a> > array
<b>name</b> <i>required</i>	Extensible Entities Name assigned with Extensible Attribute <b>Example</b> : "Admin"	string
<b>show_on_grid</b> <i>optional</i>	Show Extensible Entity on grid <b>Example</b> : false	boolean

### 5.511. Xtn NVP

This class holds name value pair corresponding to an Extensible attribute. This class is used for internal calls in the TCPWave IPAM.

Name	Description	Schema
<b>name</b> <i>required</i>	Extensible attribute name <b>Example</b> : "RITS_ID-1"	string
<b>value</b> <i>required</i>	Extensible attribute value <b>Example</b> : "Admin/Network/Subnet"	string

### 5.512. XtnData

Name	Description	Schema
<b>key</b> <i>optional</i>		string
<b>type</b> <i>optional</i>		string
<b>values</b> <i>optional</i>		< <a href="#">Xtn NVP</a> > array

### 5.513. XtnResponse

Name	Description	Schema
<b>entity</b> <i>optional</i>		string
<b>key</b> <i>optional</i>		string
<b>name</b> <i>optional</i>		string
<b>organization</b> <i>optional</i>		string
<b>value</b> <i>optional</i>		string

### 5.514. Zone

This class represents a Zone and contains the attributes necessary for Zone management functionality in the TCPWave IPAM. The information includes the Zone Name, Template Name, Zone Resource Record List, Domain Controller(DC)



Object List and other Zone related information.

Name	Description	Schema
<b>activeDirectoryEnable</b> <i>required</i>	Takes Yes/No value to specify whether a zone is an Active Directory Enabled or not. <b>Example</b> : "No"	string
<b>activeServers</b> <i>optional</i>	List of remote servers where zone is active. <b>Example</b> : "servername-@-1.0.0.232-@-found"	string
<b>adScavengCheckInterval</b> <i>optional</i>	Active Directory Scavenging check time interval for a zone. <b>Example</b> : 7	integer(int32)
<b>adScavengingEnable</b> <i>optional</i>	Enable Active Directory Scavenging on a zone. <b>Example</b> : "yes"	string
<b>addedARRs</b> <i>optional</i>		< <a href="#">CloudRR</a> > array
<b>addedRRs</b> <i>required</i>	Array List of RRs which are added to a zone.	< <a href="#">Resource Record</a> > array
<b>autoForceSync</b> <i>optional</i>	Accepts Yes/No value to specify whether zone is enabled for auto force sync or not. <b>Example</b> : "Yes"	string
<b>childDcAclNames</b> <i>optional</i>	Array list of Domain Controller Access Control List(ACL) names of a zone child forest.	< string > array
<b>childRevZones</b> <i>optional</i>	Child Reverse Zones Information.	< <a href="#">Child Reverse Zone</a> > array
<b>contact_id</b> <i>optional</i>	ID of the contact	integer(int32)
<b>contact_name</b> <i>optional</i>	Name of the contact	string
<b>created_by</b> <i>optional</i>	Id of a user who created the zone. <b>Example</b> : 1	integer(int32)
<b>created_by_login_name</b> <i>optional</i>	Login Name of a user who created a zone. <b>Example</b> : "admin"	string
<b>created_by_name</b> <i>optional</i>	Name of the user who created the zone. <b>Example</b> : "User1"	string
<b>created_time</b> <i>optional</i>	Zone creation time. <b>Example</b> : "01/20/2022"	string(date-time)
<b>created_time_string</b> <i>optional</i>	Created time of a zone in String format. <b>Example</b> : "01/20/2022 6:57"	string
<b>dcAclIds</b> <i>required</i>	Array list of Domain Controller(DC) Access Control List(ACL) Ids of a zone.	< integer(int32) > array
<b>dcAclNames</b> <i>required</i>	Array list of Domain Controller Access Control List(ACL) names of a zone.	< string > array
<b>dcObjectAddresses</b> <i>required</i>	Array list of Domain Controller Object Addresses of a zone.	< string > array
<b>dcObjectIds</b> <i>required</i>	An array list of Domain Controller Object Ids of an Active Directory Enabled zone.	< integer(int32) > array
<b>dcStatusCheckInterval</b> <i>optional</i>	Domain Controller status check time interval for a zone. <b>Example</b> : 3	integer(int32)
<b>dcV6ObjectAddresses</b> <i>optional</i>		< string > array
<b>dcV6ObjectIds</b> <i>optional</i>		< integer(int32) > array
<b>default_ttl</b> <i>optional</i>	Default Time To Live(TTL) of a zone. <b>Example</b> : 84200	integer(int32)
<b>deletedARRs</b> <i>optional</i>		< <a href="#">CloudRR</a> > array
<b>deletedRRs</b> <i>required</i>	Array List of RRs which are deleted from the zone.	< <a href="#">Resource Record</a> > array
<b>description</b> <i>optional</i>	Description of a zone. <b>Example</b> : "This zone is created by the TCPWave Inc."	string
<b>dmzVisible</b> <i>required</i>	Takes Yes/No value to specify whether the zone is a Demilitarized Zone(DMZ) or not. <b>Example</b> : "No"	string
<b>dnssec_enable</b> <i>required</i>	Takes Yes/No value to specify whether the zone is a DNSSEC enabled or not. <b>Example</b> : "Yes"	string

Name	Description	Schema
<b>email_addr</b> <i>optional</i>	Email Id in the zone. <b>Example</b> : "user@tcpwave.com"	string
<b>email_id</b> <i>optional</i>	Email id of the contact	string
<b>excludeFromSync</b> <i>optional</i>	Accepts Yes/No value to specify whether zone is excluded from the sync or not. <b>Example</b> : "Yes"	string
<b>extensions</b> <i>optional</i>	Array List of RRs which are added to a zone.	< <a href="#">Xtn NVP</a> > array
<b>first_name</b> <i>optional</i>	First name of the contact	string
<b>forestType</b> <i>optional</i>	Takes 0 or 1 value to specify active directory zone forest type. 0-parent, 1-child. <b>Example</b> : 0	integer(int32)
<b>id</b> <i>optional</i>	ID of a zone. <b>Example</b> : 1	integer(int32)
<b>importCloudRR</b> <i>optional</i>	Flag to import cloud DNS resource records while creating a DNS zone. <b>Example</b> : false	boolean
<b>inActiveServers</b> <i>optional</i>	List of remote servers where zone is not active. <b>Example</b> : "servername-@-1.0.0.232-@-found"	string
<b>isActive</b> <i>optional</i>	Takes 0 or 1 to specify whether the zone is active or not on remotes <b>Example</b> : 0	integer(int32)
<b>isFrozen</b> <i>optional</i>	Zone is frozen or thawed. <b>Example</b> : "Frozen"	string
<b>is_master</b> <i>required</i>	Defines if the specified server is Master or not. <b>Example</b> : false	boolean
<b>is_tsig</b> <i>optional</i>	Non Managed Name Server is secured with TSIG key or not <b>Example</b> : "1/0"	integer(int32)
<b>lastUpdatedStatus</b> <i>optional</i>	Last status updated time of a zone. <b>Example</b> : "01/28/2022"	string(date-time)
<b>lastUpdatedStatusString</b> <i>optional</i>	Last status updated time in String format of a zone. <b>Example</b> : "01/28/2022 10:59"	string
<b>last_name</b> <i>optional</i>	Last name of the contact	string
<b>middle_name</b> <i>optional</i>	Middle name of the contact	string
<b>mirroredZones</b> <i>optional</i>	List of the mirrored zones for the zone. <b>Example</b> : "mirror.com,mir.com,etc.com"	string
<b>monitoringService</b> <i>required</i>	Takes Yes/No value to specify whether zone is Monitoring Enabled or not. <b>Example</b> : "Yes"	string
<b>name</b> <i>required</i>	Name of a zone. <b>Example</b> : "tcpwave.com"	string
<b>networkAddress</b> <i>optional</i>	Reverse zone network full address. <b>Example</b> : "192.168.0.0"	string
<b>networkMask</b> <i>optional</i>	Reverse zone network mask length. <b>Example</b> : 24	integer(int32)
<b>nonManagedNSTSIGKeys</b> <i>required</i>	Array list of TSIG key names for non managed secondaries zone transfer.	< string > array
<b>nsec_option</b> <i>required</i>	Takes NSEC/NSEC3 value when DNSSEC is enabled for a zone. <b>Example</b> : "NSEC3"	string
<b>old_name</b> <i>optional</i>	Old name of a zone. <b>Example</b> : "tcpwave.com"	string
<b>organization_id</b> <i>optional</i>	Organization ID of a zone. <b>Example</b> : 1	integer(int32)
<b>organization_name</b> <i>required</i>	Organization Name of zone. <b>Example</b> : "TCPWave"	string
<b>overRideMS</b> <i>optional</i>	Defines whether to override the Microsoft DNS Appliance with the IPAM zone or not <b>Example</b> : false	boolean
<b>parentDcAclNames</b> <i>optional</i>	Array list of Domain Controller Access Control List(ACL) names of a zone parent forest.	< string > array

Name	Description	Schema
<b>parentForestName</b> <i>optional</i>	Name of the active directory parent forest. <b>Example</b> : "_tcp.tcpwave.com"	string
<b>proxy</b> <i>required</i>	Takes 0 or 1 value to specify whether the zone is a Proxy Root Zone or not. <b>Example</b> : 0	integer(int32)
<b>restrictedZone</b> <i>required</i>	Takes Yes/No value to specify whether the zone is a restricted zone or not. <b>Example</b> : "Yes"	string
<b>revZoneParentId</b> <i>optional</i>		integer(int32)
<b>rrSetOrderList</b> <i>optional</i>	Array list of rrset-order preferences for the specified zone.	< <a href="#">RRSet Order</a> > array
<b>secureActiveDirectoryEnable</b> <i>required</i>	Takes Yes/No value to specify whether zone is a Secure Active Directory Enabled or not. <b>Example</b> : "No"	string
<b>serialNumberOnWindows</b> <i>required</i>	Serial Number of a zone on Micorsoft appliance in database. <b>Example</b> : 2016102800	integer(int64)
<b>serial_format</b> <i>required</i>	Serial Number format of a zone. It takes DATE/NODATE <b>Example</b> : "DATE"	string
<b>serial_number</b> <i>required</i>	Serial Number of a zone. <b>Example</b> : 2016102800	integer(int64)
<b>template_id</b> <i>optional</i>	Zone Template Id of a zone. <b>Example</b> : 1	integer(int32)
<b>template_name</b> <i>required</i>	Zone Template Name of a zone. <b>Example</b> : "Zone Template1"	string
<b>updateSubZone</b> <i>required</i>	Defines whether to update the sub zones or not <b>Example</b> : false	boolean
<b>updated_by</b> <i>optional</i>	Id of a user who updated the zone last time. <b>Example</b> : 1	integer(int32)
<b>updated_by_login_name</b> <i>optional</i>	Login Name of a user who updated a zone. <b>Example</b> : "admin"	string
<b>updated_by_name</b> <i>optional</i>	Name of the user who updated the zone last time. <b>Example</b> : "User1"	string
<b>updated_time</b> <i>optional</i>	Last updated time of a zone. <b>Example</b> : "01/20/2022"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	Updated time of a zone in String format. <b>Example</b> : "01/20/2022 6:57"	string
<b>viewList</b> <i>required</i>	Array list of view which are associated with a zone	< <a href="#">DNS View</a> > array
<b>windowsADIntegrated</b> <i>optional</i>	Takes Yes/No value to specify whether a zone is a Microsoft Active Directory Integrated or not. <b>Example</b> : "No"	string
<b>windowsSerialNumberOnDb</b> <i>required</i>	Serial Number of a zone on Micorsoft appliance. <b>Example</b> : 2016102800	integer(int64)
<b>zoneRR</b> <i>required</i>	Array list of RR objects of a zone.	< <a href="#">Resource Record</a> > array
<b>zoneScopeList</b> <i>optional</i>	Array list of zone scope names.	< <a href="#">ZoneScope</a> > array

### 5.515. Zone Force Sync

This class represents a Zone and contains the attributes necessary for Zone Force Sync functionality in the TCPWave IPAM. The information includes the Zone Name & Appliance List.

Name	Description	Schema
<b>name</b> <i>required</i>	Name of a zone. <b>Example</b> : "tcpwave.com"	string
<b>serversInfo</b> <i>required</i>	Array list of Zone Force SyncInfo objects of a zone that contains the Appliance ip, Appliance name and other sync related information.	< <a href="#">Zone Sync Information</a> > array

### 5.516. Zone Statistics for Charting

Fetches the top ten zones in the TCPWave IPAM.

Name	Description	Schema
<b>zone_count</b> <i>required</i>	Get zone count <b>Example</b> : 24	integer(int64)

Name	Description	Schema
<b>zone_name</b> <i>required</i>	Get zone name <b>Example</b> : "nusax.com"	string

### 5.517. Zone Sync Information

ZoneForceSyncInfo bean class encapsulates the attributes of a generic Appliance. This class represents properties like Appliance ip, Appliance name and other information related to Zone Sync.

Name	Description	Schema
<b>isSyncSuccess</b> <i>optional</i>	States if zone sync is successful or not. <b>Example</b> : false	boolean
<b>serverIP</b> <i>required</i>	IPV4 Address which is associated with the specified Appliance. <b>Example</b> : "192.1.10.200"	string
<b>serverName</b> <i>required</i>	Name of a DNS Appliance. <b>Example</b> : "nusartx-est015-s109113"	string

### 5.518. ZoneScope

Name	Description	Schema
<b>created_by</b> <i>required</i>	Id of the User who has created the specified Zone Scope. <b>Example</b> : 2017	integer(int32)
<b>created_by_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as Created By for the specified Zone Scope. <b>Example</b> : "Stephen"	string
<b>created_time</b> <i>optional</i>	The time instance when the specified Zone Scope has been created. <b>Example</b> : "03/01/2022 3:39"	string(date-time)
<b>created_time_string</b> <i>optional</i>	String format of the time when the specified zone scope has been created. <b>Example</b> : "03/01/2022 3:39"	string
<b>description</b> <i>optional</i>	Description of the Specified Zone Scope. <b>Example</b> : "This is the sample description"	string
<b>id</b> <i>optional</i>	Id of the specified Zone Scope. <b>Example</b> : 1201	integer(int32)
<b>name</b> <i>required</i>	Name of the specified Zone Scope. <b>Example</b> : "BasicScope"	string
<b>old_name</b> <i>optional</i>	Old Name of the specified Zone Scope. <b>Example</b> : "OldPolicy"	string
<b>organization_id</b> <i>optional</i>	Id of the Organization which is associated to the specified Zone Scope. <b>Example</b> : 1200	integer(int32)
<b>organization_name</b> <i>required</i>	Name of the Organization which is associated to the specified Zone Scope. <b>Example</b> : "EARTH"	string
<b>policies</b> <i>optional</i>	Policy names which are associated with the Specified Zone Scope. <b>Example</b> : "Internal,1;Moscow,2"	string
<b>updated_by</b> <i>required</i>	Id of the User who has modified the specified Zone Scope. <b>Example</b> : 2019	integer(int32)
<b>updated_by_name</b> <i>optional</i>	The User's name, who has logged into the TCPWave IPAM, has been set as modified By for the specified Zone Scope. <b>Example</b> : "Stephen"	string
<b>updated_time</b> <i>optional</i>	The time instance when the specified Zone Scope has been modified. <b>Example</b> : "03/01/2022 4:37"	string(date-time)
<b>updated_time_string</b> <i>optional</i>	String format of the time when the specified zone scope has been modified. <b>Example</b> : "03/01/2022 4:37"	string
<b>zone_id</b> <i>optional</i>	Id of the zone for which the specified Zone Scope has been associated. <b>Example</b> : 1201	integer(int32)
<b>zone_name</b> <i>required</i>	Zone Name for which the specified Zone Scope has been associated. <b>Example</b> : "zone.com"	string

## 6. TCPWave IPAM Error Codes

Error Codes	
1020	TIMS-1020: The organization name and the id cannot be null.
1021	TIMS-1021: The organization name is not valid: {0}.
1022	TIMS-1022: The admin role is not valid: {0}.
1023	TIMS-1023: The host does not exist. Provide the correct hostname or IP address.

Error Codes	
1024	TIMS-1024: Failed to delete the object(s) as {0} is the primary router of the subnet.
1025	TIMS-1025: The organization id is not valid: {0}.
1026	TIMS-1026: The user already exists.
1027	TIMS-1027: The timestamp is null.
1028	TIMS-1028: The name of this object conflicts with an existing Active Directory enabled zone name. Try with a different name.
1029	TIMS-1029: The owner name of the resource record conflicts with an existing Active Directory enabled zone name. Try with a different name.
1030	TIMS-1030: The Domain Controller object type cannot be changed as it is used in an ACL: {0}.
1031	TIMS-1031: The Domain Controller object type cannot be changed as it is associated with the AD zone.
1042	TIMS-1042: This action can cause a severe impact on the system performance. Try creating subnets of a relatively smaller mask length.
1043	TIMS-1043: Enter a valid number for {0}. The value should be between {1} and {2}.
1048	TIMS-1048: Enter a valid Interface of 20 characters.
1050	TIMS-1050: Enter a valid string for {0}.
1051	TIMS-1051: Enter a valid value. The accepted characters are a-z, A-Z, 0-9, ;, ., -, _ and space.
1052	TIMS-1052: Enter a valid {0}.
1053	TIMS-1053: Enter a valid string for {0}. The value should be between {1} and {2} characters.
1054	TIMS-1054: Enter a valid string for {0}. The accepted characters are a-z, A-Z, 0-9, ;, ., *, -, _ and space.
1055	TIMS-1055: An invalid entity type was specified.
1056	TIMS-1056: Enter a valid string for {0}. The accepted strings are auth, authpriv, cron, daemon, kern, lpr, mail, mark, news, Syslog, user, uuwp, local0, local1, local2, local3, local4, local5, local6, local7.
1057	TIMS-1057: An invalid data was specified for the MX resource record. The valid format for the MX data is " ".
1058	TIMS-1058: An invalid data was specified for the resource record. Enter the valid data.
1059	TIMS-1059: An invalid class was specified for the resource record. The valid class value is IN.
1060	TIMS-1060: Enter a valid string for {0}. The accepted characters are a-z, A-Z, and 0-9.
1061	TIMS-1061: Enter a valid number for {0}.
1062	TIMS-1062: Enter a valid character for {0}. Accepted characters are {1} and {2}.
1063	TIMS-1063: Enter a valid hexadecimal string for {0}.
1064	TIMS-1064: Enter a valid value. The accepted characters are a-z, A-Z, 0-9, @, ., *, #, +, -, ;, /, %, (, ) and space.
1065	TIMS-1065: Enter a valid file path. The accepted file paths are {0}.
1066	TIMS-1066: Enter a valid string for login name {0}.
1080	TIMS-1080: The page number is not specified.
1081	TIMS-1081: The page size is not specified.
1082	TIMS-1082: The page number is not valid: {0}
1083	TIMS-1083: The page number exceeds available pages: {0}.
1084	TIMS-1084: The job start time cannot be in the past. Select a valid time.
1085	TIMS-1085: The job end time cannot be earlier than the job start time.
1086	TIMS-1086: Select a subnet to delete.
1087	TIMS-1087: Select a subnet to modify.
1088	TIMS-1088: Enter valid values for syslog entry.
1089	TIMS-1089: Restrict the file path to {0}.
1103	TIMS-1103: The organization with the same name: {0} already exists.

Error Codes	
1104	TIMS-1104: The target name and id cannot be null.
1122	TIMS-1122: Delete dependent or child network elements and retry.
1123	TIMS-1123: Could not find unused addresses within the specified subnet.
1124	TIMS-1124: Start IP address and the organization name are mandatory to determine the next available free range.
1140	TIMS-1140: The admin group id and name cannot be null.
1141	TIMS-1141: The admin group does not exist: {0}.
1142	TIMS-1142: The admin group does not exist.
1143	TIMS-1143: The admin group cannot be deleted as it is associated with existing Admins.
1144	TIMS-1144: Select an admin group to modify.
1145	TIMS-1145: Select an admin group to delete.
1146	TIMS-1146: Select admins to remove from the admin group.
1147	TIMS-1147: Select at least one admin to remove from the admin group.
1148	TIMS-1148: The zone {0} cannot be deleted as a managed DNS remote {1} full configuration synchronization is in process, try after DNS full sync.
1149	TIMS-1149: The debug preference should be either yes or no.
1150	TIMS-1150: The option name " {0} " contains a whitespace. Enter a name without a space.
1151	TIMS-1151: The option name {0} already exists.
1152	TIMS-1152: {0} contains only digits. Enter at least one character.
1153	TIMS-1153: {0} should not contain special character. Enter a valid name.
1161	TIMS-1161: The admin group name cannot be null or empty.
1200	TIMS-1200: The active directory zone cannot be deleted.
1201	TIMS-1201: {0}
1202	TIMS-1202: The contact does not exist: {0}
1203	TIMS-1203: Select an active directory user principal (UPN) name to delete.
1204	TIMS-1204: The email address is not valid: {0}
1205	TIMS-1205: Select an active directory user principal name to delete.
1207	TIMS-1207: Select an active directory user principal name (UPN) for authentication.
1208	TIMS-1208: No user selected for authentication.
1209	TIMS-1209: The Active Directory enabled zone(s) cannot be deleted.
1210	TIMS-1210: The Active Directory enabled zone cannot be modified.
1211	TIMS-1211: Unable to generate the DNSViz HTML from the DNSSEC enabled zone: {0} on the DNS cache appliance: {1}. Check the IPAM logs.
1212	TIMS-1212: Unable to generate the DNSViz PNG from the DNSSEC enabled zone: {0} on the DNS cache appliance: {1}. Check the IPAM logs.
1213	TIMS-1213: Unable to generate the DNSViz Text from the DNSSEC enabled zone: {0} on the given DNS cache appliance: {1}. Check the IPAM logs.
1214	TIMS-1214: Cannot delete the GSS-TSIG principle as secure active directory update is enabled on the zone: {0}.
1215	TIMS-1215: Cannot delete the network as one or more domain controller objects are associated with the active directory enabled zone(s).
1216	TIMS-1216: Cannot delete the subnet(s) as one or more domain controller objects are associated with the active directory enabled zone(s).
1222	TIMS-1222: Delete dependent/child network elements and retry.
1255	TIMS-1255: The Scopes cannot exceed a maximum size of 4096, as it may impact the system performance.
1256	TIMS-1256: The scope already exists for this object range: {0}.
1257	TIMS-1257: The object address range overlaps with an existing object address range.
1258	TIMS-1258: The object address range exceeds the subnet range.
1259	TIMS-1259: The object address range does not belong to any defined subnet or network.

Error Codes	
1260	TIMS-1260: The object address range already has non-dynamic objects.
1261	TIMS-1261: The scope does not exist for the object range: {0}.
1262	TIMS-1262: The subnet does not have a primary router defined, and the template has the option router defined as {0}.
1263	TIMS-1263: The subnet does not have a primary router: {0}.
1264	TIMS-1264: The subnet mask of this subnet does not match with the subnet mask defined in the template.
1265	TIMS-1265: The router defined in this template {0} does not belong to this subnet.
1266	TIMS-1266: The option subnet mask for this template cannot be changed as it is associated with other subnets and DHCP Scopes.
1267	TIMS-1267: Enter a valid value for {0}.
1268	TIMS-1268: Objects are defined at the resultant subnet and broadcast addresses.
1269	TIMS-1269: A router cannot be created with IP {0} as a static object already exists at this address.
1270	TIMS-1270: The subnet does not have {0} defined as a router as it is - in the DHCP Option Template.
1271	TIMS-1271: The subnet {0} is not associated to a DHCP template.
1272	TIMS-1272: Specify a valid range.
1273	TIMS-1273: Cannot create subnet(s) without a primary router.
1274	TIMS-1274: Select subnet(s) to create.
1278	TIMS-1278: Select a subnet to delete.
1279	TIMS-1279: Select a subnet to modify.
1280	TIMS-1280: Select a subnet to import from the cloud.
1281	TIMS-1281: The scope cannot be created as the specified range is invalid. Start IP = {0} End IP = {1}.
1282	TIMS-1282: The subnet address and id cannot be null.
1283	TIMS-1283: The end of life value {0} is not valid.
1284	TIMS-1284: An appliance already exists in another organization with the same IP address. Try to create an appliance using a different IP.
1285	TIMS-1285: The object cannot be added as the selected subnet is full.
1286	TIMS-1286: Delete operation for the zone {0} has failed because of references in the object definitions. Use the search functionality to obtain those references.
1287	TIMS-1287: Delete operation for the zone {0} has failed because of references in the subnet domain definitions. Use the search functionality to obtain those references.
1288	TIMS-1288: Delete operation for the zone {0} has failed because of references in the IPv6 subnet domain definitions. Use the search functionality to obtain those references.
1289	TIMS-1289: Cannot {0} the {1} as the following IP address(es) {2} are not defined as objects in the IPAM.
1291	TIMS-1291: The object delete has failed as the object(s) {0} are referred in the DHCP template(s): {1}.
1292	TIMS-1292: The lease object binding state cannot be null or empty.
1293	TIMS-1293: Given field name is not supported to search the data.
1294	TIMS-1294: Either field name or field key is mandatory if the search type is not a text.
1295	TIMS-1295: Text, Wildcard, Regex, and Match are the allowed search types.
1296	TIMS-1296: All, Logs and Tables are the allowed search categories.
1297	TIMS-1297: Enter a valid entity name. Ex: network, subnet, object, etc.
1298	TIMS-1298: Cannot delete the network as one or more domain controller objects are associated with Active Directory GSS-TSIG management. Delete the associated references and try again.
1299	TIMS-1299: Cannot delete the subnet(s) as one or more domain controller objects are associated with active directory GSS-TSIG management. Delete the associated references and try again.
1300	TIMS-1300: The domain already exists: {0}.

Error Codes	
1301	TIMS-1301: The channel name and id cannot be null.
1302	TIMS-1302: The log channel does not exist: {0}.
1303	TIMS-1303: The special channel cannot be deleted: {0}.
1304	TIMS-1304: The log channel already exists: {0}.
1305	TIMS-1305: Cannot delete a Log channel: {0} as one or more DNS Appliances are using it.
1306	TIMS-1306: Selected domain(s) does(do) not exist.
1307	TIMS-1307: The root zone(s) does(do) not exist.
1308	TIMS-1308: The domains are referenced in the appliance. Delete those references and try again.
1309	TIMS-1309: The domains are referenced in objects. Delete those references and try again.
1310	TIMS-1310: The domains are referenced in subnets. Delete those references and try again.
1311	TIMS-1311: The domains are referenced in the subnet domain. Delete those references and try again.
1312	TIMS-1312: Duplicate entry for {0}.
1313	TIMS-1313: Update dependent network elements referring to this domain and retry.
1314	TIMS-1314: The DNS appliance cannot be changed from authoritative to cache as zone templates are using it.
1315	TIMS-1315: The secure communication between IPAM and remote DNS Appliance{0} is not functioning. Ensure that the remote appliance is operational and check if a firewall is blocking communication.
1316	TIMS-1316: The last sync status is unavailable for the selected DNS Appliance. Check if the appliance is up and running.
1317	TIMS-1317: Some ACLs are referenced in appliance template(s). Delete those references and try again.
1318	TIMS-1318: The Internet Root Hints id and NS should not be null.
1319	TIMS-1319: The Internet Root Hints id cannot be found for given NS: {0}.
1320	TIMS-1320: A domain with the given name already exists.
1321	TIMS-1321: The domain does not exist: {0}.
1322	TIMS-1322: One or more appliances in the zone template are invalid.
1323	TIMS-1323: A contact with the given information already exists.
1324	TIMS-1324: The phone number is not valid.
1325	TIMS-1325: The zone delete operation has failed because of references in the object definitions. Use the search functionality to obtain those references.
1326	TIMS-1326: The zone delete operation has failed because of references in the subnet definitions. Use the search functionality to obtain those references.
1327	TIMS-1327: The zone delete operation has failed because of references in the subnet domain definitions. Use the search functionality to obtain those references.
1328	TIMS-1328: The zone name cannot be null.
1329	TIMS-1329: The zone delete operation has failed because of references in the IPv6 subnet domain definitions. Use the search functionality to obtain those references.
1330	TIMS-1330: The DNS Appliance cannot be deleted as it manages one or more zone templates.
1331	TIMS-1331: The root zone cannot be deleted as it is used by one or more DNS internal cache appliances.
1332	TIMS-1332: The ACL is referenced in one or more zone templates. Delete the references and retry.
1333	TIMS-1333: Update the dependent network elements referring to this contact and retry.
1334	TIMS-1334: Update the dependent network elements referring to this location and retry.
1335	TIMS-1335: The DNS internal cache appliance cannot be created as this organization has no root zone.



Error Codes	
1336	TIMS-1336: The DNS appliance cannot be changed to the internal DNS cache appliance as there is no root zone defined or DMZ forwarders defined in this organization.
1337	TIMS-1337: The DNS appliance cannot be changed to NSD as one or more views are associated with this appliance.
1338	TIMS-1338: The zone stats query is already in progress. Try later.
1341	TIMS-1341: An organization with the given name already exists.
1342	TIMS-1342: The selected log channel is a special channel. Only version, size, and severity can be modified.
1347	TIMS-1347: Delete dependent network elements within this organization and retry.
1348	TIMS-1348: The secure communication between IPAM and remote DHCP Appliance is broken. Restart TIMS-DHCP on the DHCP Appliance: {0}.
1349	TIMS-1349: The DNS configuration sync failed with error: {0}.
1350	TIMS-1350: An invalid DNS appliance {0} specified.
1351	TIMS-1351: The user Id cannot be null.
1352	TIMS-1352: The organization does not exist: {0}.
1353	TIMS-1353: The organization not found: {0}.
1354	TIMS-1354: The organization does not exist.
1355	TIMS-1355: The organization id is null.
1356	TIMS-1356: The zone already exists: {0}.
1357	TIMS-1357: The location already exists for the organization: {0}.
1358	TIMS-1358: The location already exists.
1359	TIMS-1359: Failed to get the log information from DHCP Appliance. Check if the appliance is up and running.
1360	TIMS-1360: No changes detected to update.
1368	TIMS-1368: The DHCP appliance cannot be deleted as it manages one or more subnets.
1369	TIMS-1369: The request has timed out from the DNS appliance.
1370	TIMS-1370: The request has timed out from the DHCP appliance.
1371	TIMS-1371: Select at least one master DNS Appliance.
1372	TIMS-1372: The DNS Appliance configuration for Appliance Name: {0}, IP Address: {1} has been created successfully.
1373	TIMS-1373: The DNS Appliance configuration for Appliance: {0}, IP: {1} has been modified successfully.
1374	TIMS-1374: The selected object type is not a TCPWave Remote. Choose a different object.
1375	TIMS-1375: Select a single server to clone.
1376	TIMS-1376: Select a server to clone.
1377	TIMS-1377: Select a single server to modify.
1378	TIMS-1378: Select a server to modify.
1379	TIMS-1379: Select a server to delete.
1380	TIMS-1380: Select a server to synchronize the configuration.
1381	TIMS-1381: Select a server to download the configuration.
1382	TIMS-1382: Select at least one process to be monitored using SNMP.
1383	TIMS-1383: Select a server to see the status.
1384	TIMS-1384: The system summary is applicable on a physical DNS or a DHCP appliance and when the IDRAC is configured and available. This option does not apply to remote DNS or DHCP appliances on a virtualized infrastructure.
1385	TIMS-1385: Failed to set the debug level for DNS Appliance. Check if the appliance is up and running.
1386	TIMS-1386: Select a valid domain from the given options.
1387	TIMS-1387: Select an SNMP process to be monitored.
1388	TIMS-1388: Select a server to generate configuration.
1389	TIMS-1389: Select a lease to be deleted.

Error Codes	
1390	TIMS-1390: Select a single log channel to modify.
1391	TIMS-1391: The selected log channel is a special channel.
1392	TIMS-1392: Select a log channel to modify.
1393	TIMS-1393: The selected log channel is a special channel. It cannot be deleted.
1394	TIMS-1394: Select a log channel to delete.
1395	TIMS-1395: The DNS configuration update failed for the server(s): {0}.
1396	TIMS-1396: The specified log channel is a special channel that already exists: {0}.
1397	TIMS-1397: Specify valid filename without directory.
1398	TIMS-1398: Specify the iDRAC IP address and SNMP community string for monitoring.
1399	TIMS-1399: The domain controller does not exist: {0}
1400	TIMS-1400: The full sync for the {2} appliance {0} has failed due to the failure of pre {1} plugin execution.
1401	TIMS-1401: The full sync for the {2} appliance {0} has failed as the pre {1} plugin does not exist.
1403	TIMS-1403: The zone id cannot be null.
1404	TIMS-1404: The zone id is null: {0}.
1405	TIMS-1405: The zone template does not exist.
1406	TIMS-1406: The zone(s) does(do) not exist.
1407	TIMS-1407: There are no Domain Controllers for the specified zone. Change Enable AD Updates to No and create a zone.
1408	TIMS-1408: The selected zone is an active directory enabled zone. Select at least one Domain Controller to manage this zone.
1409	TIMS-1409: Select a single zone to see the status of its DNS Appliances.
1410	TIMS-1410: Select a zone to see the SOA status on its DNS Appliances.
1411	TIMS-1411: Select at least one zone to force a sync with its master DNS Appliances.
1412	TIMS-1412: The selected zones contain active directory-enabled zones that cannot be deleted. Exclude them from the selection and retry.
1413	TIMS-1413: The selected zone is an active directory zone that cannot be modified/cloned/deleted. Select a non-active directory zone and retry.
1414	TIMS-1414: The type is not valid.
1415	TIMS-1415: The zone already exists: {0}.
1416	TIMS-1416: The zone does not exist.
1417	TIMS-1417: The type is not valid: {0}.
1418	TIMS-1418: Select Domain Controllers managing a parent zone of the selected zones.
1419	TIMS-1419: The selected zone is an active directory enabled zone. Select at least one ACL to manage this zone.
1420	TIMS-1420: A or CNAME {0} record already exists in Zone: {1}.
1421	TIMS-1421: The domain name and id cannot be null.
1422	TIMS-1422: A managed zone does not exist with the name: {0}
1423	TIMS-1423: Selected zone template has one or more stealth appliances. AD-enabled zones should not contain any stealth appliances. Select a different zone template.
1424	TIMS-1424: The root zone already exists in the selected organization.
1425	TIMS-1425: The appliance id and IP address cannot be null.
1426	TIMS-1426: The DNS cache appliance does not exist.
1427	TIMS-1427: The forward only zone: {0} already exists in the DNS Appliance.
1428	TIMS-1428: The forward only zone: {0} does not exist.
1429	TIMS-1429: Cannot create a forward-only zone: {0} as IPAM already manages it.
1430	TIMS-1430: Cannot create a zone: {0} as a forward-only zone already exists with this name.

Error Codes	
1431	TIMS-1431: Cannot create a domain: {0} as a forward-only zone already exists with this name.
1432	TIMS-1432: Select the domains to be added.
1433	TIMS-1433: Select the domains to be removed.
1434	TIMS-1434: No matching NS record found on the given proxy root appliance.
1435	TIMS-1435: NS record is referencing in the root zone. Delete the reference and try again.
1436	TIMS-1436: Cannot create a restricted zone: {0} as it is associated with one or more objects.
1437	TIMS-1437: Cannot create a restricted zone: {0} as it is associated with one or more resource records.
1438	TIMS-1438: Cannot change a zone: {0} to a restricted zone as it is associated with one or more objects.
1439	TIMS-1439: Cannot change a zone: {0} to a restricted zone as it is associated with one or more resource records.
1440	TIMS-1440: Cannot create a restricted zone: {0} as it is associated with one or more subnets as a primary domain.
1441	TIMS-1441: Cannot create a restricted zone: {0} as it is associated with one or more subnets as a secondary domain.
1442	TIMS-1442: Cannot change a zone: {0} to a restricted zone as it is associated with one or more subnets as a primary domain.
1443	TIMS-1443: Cannot change a zone: {0} to a restricted zone as it is associated with one or more subnets as a secondary domain.
1444	TIMS-1444: Cannot create a resource record as a restricted zone is defined with the name {0}.
1445	TIMS-1445: Cannot delete subnet(s) as one or more resource record references are associated with the objects defined in the subnet. Delete the references and try again.
1446	TIMS-1446: Cannot delete network(s) as one or more resource records are defined with the network(s) objects. Delete the references and try again.
1447	TIMS-1447: Cannot delete subnet(s) as one or more resource records are defined with the subnet(s) object level A Resource Records. Delete the references and try again.
1448	TIMS-1448: Cannot delete network(s) as one or more resource records are defined with the network(s) object level A Resource Records. Delete the references and try again.
1449	TIMS-1449: Cannot associate a restricted domain : {0} to the subnet.
1450	TIMS-1450: Enter a max of 255 characters for {0} field.
1451	TIMS-1451: Enter a max of 255 characters for zone name.
1452	TIMS-1452: Enter a max of 63 characters for each label.
1453	TIMS-1453: Cannot associate the failover appliance as it is already in use. Select a different failover appliance.
1454	TIMS-1454: Cannot delete a subnet as one or more objects are defined as DCs and associated with AD zones. Delete the references and try again.
1455	TIMS-1455: An invalid domain name has been provided. Enter a valid domain name.
1456	TIMS-1456: An invalid record type specified.
1457	TIMS-1457: The zone is already frozen.
1458	TIMS-1458: The zone is already thawed.
1459	TIMS-1459: Enter a name for the template.
1460	TIMS-1460: Enter a zone name.
1461	TIMS-1461: Enter an appliance IP.
1462	TIMS-1462: Enter a communication key name.
1463	TIMS-1463: Enter a value for the communication key.
1464	TIMS-1464: Enter a policy file.
1465	TIMS-1465: Failed to restart SNMP on DNS Appliance Name: {0}, IP Address: {1}. Check the logs.

Error Codes	
1466	TIMS-1466: Failed to restart DNS Appliance Name: {0}, IP Address: {1}. Check the logs.
1467	TIMS-1467: Failed to reload DNS Appliance Name: {0}, IP Address: {1}. Check the logs.
1468	TIMS-1468: Failed to restart Monit on DNS Appliance: {0}, IP Address: {1}. Check the logs.
1469	TIMS-1469: Failed to restart BGP on DNS Appliance: {0}, IP Address: {1}. Check the logs.
1470	TIMS-1470: Failed to restart OSPF on DNS Appliance: {0}, IP Address: {1}. Check the logs.
1471	TIMS-1471: Failed to restart Zebra on DNS Appliance: {0}, IP Address: {1}. Check the logs.
1472	TIMS-1472: Failed to restart NTP on DNS Appliance: {0}, IP Address: {1}. Check the logs.
1473	TIMS-1473: Failed to restart SSH on DNS Appliance: {0}, IP Address: {1}. Check the logs.
1474	TIMS-1474: Failed to restart TIMS-DNS service on DNS Appliance: {0}, IP: {1}. Check the logs.
1475	TIMS-1475: Cannot create a root zone, zone name must be .(dot).
1476	TIMS-1476: Cannot create a proxy root zone, zone name must be .(dot).
1477	TIMS-1477: Invalid data specified for the input parameter. The valid input format is "zonename-@-organizationname," multiple with a comma (,) separated.
1478	TIMS-1478: The configuration changes to the core directory of TCPWave IPAM are not permitted during the execution of the {0} plugin on appliance {1}.
1479	TIMS-1479: The root zone cannot be created as there are one or more master appliances that are not defined as BIND AUTH appliances.
1480	TIMS-1480: The root zone cannot be updated as there are one or more master appliances that are not defined as BIND AUTH appliances.
1488	TIMS-1488: An invalid resource record type specified. The valid types are A, AAAA, CNAME, MX, TXT, NS, PTR, NAPTR, DS, SOA, SRV, and DNSKEY.
1489	TIMS-1489: No external DNS cache appliances found to Sync.
1490	TIMS-1490: The domains are referenced in ipv6 objects. Delete those references and try again.
1491	TIMS-1491: The location(s) cannot be deleted, as it is used in one or more subnets.
1492	TIMS-1492: {0} for the DHCP class cannot be null or empty.
1493	TIMS-1493: {0} for the DHCP poller cannot be null or empty.
1494	TIMS-1494: Cannot create a zone as there is a CNAME defined with the name: {0}.
1495	TIMS-1495: Cannot update a zone name as there is a CNAME defined with the name: {0}.
1496	TIMS-1496: You are not permitted to delete the {0} references recursively. Check the global option: Permit users to delete subnet and object references.
1497	TIMS-1497: Unable to create a custom sync plugin file or to change the executable permissions of a custom sync plugin.
1498	TIMS-1498: DNS authoritative appliance: {0} recursion cannot be enabled as a root zone is defined with this appliance, and recursion on root appliance global option is set to no.
1499	TIMS-1499: The root zone cannot be created as there are one or more master appliances are defined as recursion enabled.
1500	TIMS-1500: The root zone cannot be updated as there are one or more master appliances are defined as recursion enabled.
1501	TIMS-1501: Select a single location to modify.
1502	TIMS-1502: Select a location to modify.
1503	TIMS-1503: Select a location to delete.
1504	TIMS-1504: The location does not exist.
1505	TIMS-1505: The location information does not exist.
1506	TIMS-1506: The DHCP Pollers cannot have the same name. Try with a different name.

Error Codes	
1507	TIMS-1507: The DHCP Pollers cannot have the same IP Address. Try with a different IP Address.
1508	TIMS-1508: DHCP Pollers cannot have the same MAC address. Try with a different MAC address.
1509	TIMS-1509: The number of DHCP pollers has exceeded the maximum limit (4).
1510	TIMS-1510: {0} is not valid.
1511	TIMS-1511: Location(s) cannot be deleted as they are associated with: {0}.
1512	TIMS-1512: A location cannot be deleted as it is associated with one or more IPv6 subnet.
1513	TIMS-1513: Select a Location to bookmark.
1514	TIMS-1514: The name of this DHCP object conflicts with that of an existing static object. The operation cannot be completed.
1515	TIMS-1515: DNS authoritative appliance: {0} recursion cannot be enabled as no root zone is defined in the organization.
1516	TIMS-1516: Root zone cannot be deleted as it is being used by one or more DNS authoritative recursion enabled internal cache appliances.
1517	TIMS-1517: DNS authoritative appliance: {0} recursion cannot be enabled as it is a stealth appliance.
1518	TIMS-1518: DNS authoritative appliance: {0} cannot be a stealth appliance as it is a recursion-enabled appliance.
1519	TIMS-1519: DNS authoritative appliance: {0} recursion cannot be enabled as IPAM is DNS views enabled.
1520	TIMS-1520: A parent forest with the name: {0} does not exist.
1521	TIMS-1521: Active Directory zone: {0} cannot be deleted as it is used as a parent forest in one or more AD zones.
1522	TIMS-1522: Parent Forest cannot be same as the zone: {0}.
1523	TIMS-1523: There is no network/subnet: {0} with the mask: {1} exists in the organization to create a reverse zone.
1524	TIMS-1524: Reverse zone: {0} cannot be created as it conflicts with one or more existing reverse zones.
1525	TIMS-1525: There is no network/subnet: {0} with the mask: {1} exists in the organization to update a reverse zone.
1526	TIMS-1526: Reverse zone: {0} cannot be modified as address and mask are not matching with existing values of a reverse zone.
1527	TIMS-1527: Hostname cannot be null for the external PTR record.
1531	TIMS-1531: Service mode cannot be null.
1532	TIMS-1532: Service mode does not exist: {0}.
1533	TIMS-1533: Service mode already exists: {0}.
1534	TIMS-1534: Default service mode cannot be updated.
1535	TIMS-1535: Default service mode cannot be deleted.
1536	TIMS-1536: Service name cannot be null.
1537	TIMS-1537: Service already exists: {0}
1538	TIMS-1538: Service does not exist: {0}
1539	TIMS-1539: Service target does not exist: {0}
1540	TIMS-1540: Service mode: {0} has not been defined for service: {1}.
1541	TIMS-1541: CNAME resource record with owner: {0} does not exist.
1542	TIMS-1542: Service target: {0} does not point to a valid 'A' or 'AAAA' resource record.
1543	TIMS-1543: CNAME resource record of the service is not associated with object or zone.
1544	TIMS-1544: Service mode cannot be deleted as it is associated with one or more contingency service(s).
1545	TIMS-1545: Subnet cannot be created as the subnet reverse zone template does not match the network reverse zone template.
1546	TIMS-1546: Reverse zone: {0} cannot be created/edited as the subnet reverse zone template does not match the network reverse zone template.
1547	TIMS-1547: DNS External Root Hint: {0} with IP: {1} already exists in the specified DNS appliance template.

Error Codes	
1548	TIMS-1548: DNS External Root Hint: {0} with IP: {1} does not exist in the specified DNS appliance template.
1549	TIMS-1549: Child Reverse zone: {0} cannot be created as the mask length: {1} provided is less than the parent reverse zone mask length: {2}.
1550	TIMS-1550: Child Reverse zone: {0} cannot be created as the start or end address of the child reverse zone is not in the parent reverse zone start and end address range.
1551	TIMS-1551: Zone force sync cannot be performed on the zone: {0} as it is marked as exclude from sync.
1601	TIMS-1601: Enter an AML value.
1602	TIMS-1602: The remote appliance's encrypted root password cannot be generated as the encryption file has been modified/deleted.
1603	TIMS-1603: You are not authorized to set the root password.
1604	TIMS-1604: The user credentials/change request number cannot be validated as the ServiceNow instance is unreachable.
1605	TIMS-1605: The user credentials validation cannot be completed. Confirm that the credentials are correct.
1607	TIMS-1607: The user credentials for {0} are already registered with TIMS.
1609	TIMS-1609: The user credentials cannot be deleted as they are needed to validate the ServiceNow change request numbers.
1610	TIMS-1610: The change management instance URL cannot be null.
1611	TIMS-1611: The ServiceNow authentication credentials have not been configured. Configure them and try again.
1612	TIMS-1612: The entered ServiceNow change request number has not been approved for implementation.
1613	TIMS-1613: The change schedule information for the ServiceNow change request number cannot be obtained.
1614	TIMS-1614: The change corresponding to the entered ServiceNow change request number is not scheduled for the current time.
1615	TIMS-1615: Enter all the mandatory values for defining a workflow.
1616	TIMS-1616: Incorrect workflow operation specified. Accepted values are Add/Modify/Delete.
1617	TIMS-1617: Incorrect workflow entity specified.
1618	TIMS-1618: A workflow with the given id {0} already exists.
1619	TIMS-1619: A workflow with the given data is already defined.
1620	TIMS-1620: A workflow cannot be defined by a functional administrator or super administrator account.
1621	TIMS-1621: Could not retrieve data for the given workflow id {0}
1622	TIMS-1622: The selected workflow cannot be deleted as its currently under execution.
1624	TIMS-1624: The specified object cannot be created/updated as the Non-Managed DNS master with the name {0} exists in the system.
1625	TIMS-1625: The domain/zone cannot be created/updated as the Non-Managed DNS zone with the name {0} exists in the system.
1626	TIMS-1626: The DNS/DHCP appliance cannot be created/updated as the Non-Managed DNS master {0} with the IP address {1} exists in the system.
1701	TIMS-1701: Select a single asset to modify.
1702	TIMS-1702: Select an asset to modify.
1703	TIMS-1703: Select an asset to delete.
1704	TIMS-1704: The Microsoft DNS appliance name cannot be null.
1705	TIMS-1705: The Microsoft DNS appliance user name cannot be null.
1706	TIMS-1706: The Microsoft DNS appliance IP address cannot be null.
1707	TIMS-1707: The Microsoft DNS appliance cannot be associated with the object {0} as the object type is TCPWave Remote.
1708	TIMS-1708: The Microsoft DNS appliance with IP address {0} is already managed by the TCPWave IPAM.
1709	TIMS-1709: The Microsoft DNS appliance with IP address {0} does not exist.
1710	TIMS-1710: An object with IP address {1} cannot be created as a Microsoft appliance {0} already exists with the same IP address.

Error Codes	
1711	TIMS-1711: An object with the specified address {0} already exists with an object type "TCPWave Remote."
1712	TIMS-1712: AD enabled zone {0} cannot be created as the Microsoft DNS appliance {1} has {2} as an active directory integrated zone.
1713	TIMS-1713: A zone {0} cannot be deleted as it is an AD integrated on the Microsoft DNS appliance {1}.
1714	TIMS-1714: The Microsoft appliance's Id and IP address cannot be null.
1715	TIMS-1715: A zone name cannot be updated for {0} as it is an AD integrated on the Microsoft appliance {1}.
1719	TIMS-1719: Enter valid credentials.
1720	TIMS-1720: The entered old and new passwords cannot be the same.
1721	TIMS-1721: The domain {0} cannot be modified as the object is associated with the AD integrated Microsoft appliance {1}.
1722	TIMS-1722: The Microsoft appliance {0} cannot be created, as an object of the type Microsoft remote does not exist.
1723	TIMS-1723: The Microsoft appliance {0} cannot be updated, as an object of the type Microsoft remote does not exist.
1724	TIMS-1724: The AD enabled Zone {0} cannot created as the object of the Microsoft DNS appliance {1} has {2} as domain.
1725	TIMS-1725: Force sync cannot be done on the AD zone {0} as the Microsoft DNS appliance {1} has different AD integrated zone {2}.
1726	TIMS-1726: Force sync cannot be done on the AD enabled zone {0} as the Microsoft DNS appliance {1} does not have any AD integrated zone.
1727	TIMS-1727: The domain {0} cannot be modified as it is AD enabled and associated with the Microsoft DNS appliance {1}.
1728	TIMS-1728: DNSSEC cannot be enabled/disabled on the zone {0} as the associated zone template {1} has the Microsoft DNS appliances as masters.
1729	TIMS-1729: Force sync cannot be done on the zone {0} as AD is enabled on the Microsoft DNS appliance {1} and not on IPAM.
1730	TIMS-1730: The zone: {0} specified as {1} domain for resource record {2} of type {3} does not exist.
1731	TIMS-1731: The data of the resource record {0} of type {1} should not be greater than 512 characters.
1732	TIMS-1732: TXT record cannot be modified/deleted as it is associated with the resource record {0} of type SPF.
1733	TIMS-1733: Same domain cannot be given as the include/redirect domain {0} for the SPF resource record.
1734	TIMS-1734: MX record cannot be modified/deleted as it is associated with the resource record {0} of type {1}.
1735	TIMS-1735: No MX record found for the given verification data: {0} Enter a valid MX record name.
1736	TIMS-1736: The resource record {0} specified in the verification data of the resource record {2} of type {3} as {1} does not exist.
1737	TIMS-1737: ACL object cannot be null.
1738	TIMS-1738: {0} Master cannot be created as a TCPWave remote already exists with the same IPv4 address: {1}.
1739	TIMS-1739: {0} Master cannot be created as a Microsoft Windows remote already exists with the same IPv4 address: {1}.
1740	TIMS-1740: {0} Master cannot be created as an IPAM appliance already exists with the same IPv4 address: {1}.
1741	TIMS-1741: {0} Master already exist with the same IPv4 address: {1}.
1742	TIMS-1742: {0} Master already exist with the same name: {1}.
1743	TIMS-1743: {0} Master does not exist in the IPAM with the IPv4 address: {1}.
1744	TIMS-1744: DNS master Id and IPv4 address cannot be null.
1745	TIMS-1745: {0} Master cannot be deleted as one or more Non-Managed DNS zones are defined in it.
1746	TIMS-1746: The specified master type is invalid. Enter the master type as Power DNS or External DNS.
1747	TIMS-1747: The Non-Managed DNS zone cannot be created in the system as there is an existing TCPWave managed zone with the name: {0}.

Error Codes	
1748	TIMS-1748: The Non-Managed DNS zone cannot be created in the system as there is an existing TCPWave managed object with the name: {0}.
1749	TIMS-1749: The Non-Managed DNS zone cannot be created in the system as there is an existing TCPWave managed resource record with the name: {0}.
1750	TIMS-1750: The Non-Managed DNS zone cannot be created in the system as there is an existing TCPWave managed IPv6 with the name: {0}.
1751	TIMS-1751: The Non-Managed DNS Zone cannot be created in the system as there is an existing TCPWave managed appliance level forwarder zone with the name: {0}.
1752	TIMS-1752: The Non-Managed DNS zone cannot be created in the system as there is an existing TCPWave managed appliance template level forwarder zone with the name: {0}.
1753	TIMS-1753: The Non-Managed DNS zone cannot be created in the system as there is no defined TCPWave managed DNS appliance with IPv4 address: {0}.
1754	TIMS-1754: The system cannot find the Non-Managed DNS zone named {0}.
1755	TIMS-1755: A Non-Managed DNS zone with the same name already exists in the system: {0}.
1756	TIMS-1756: The Non-Managed DNS zone value cannot be null. Enter a valid external DNS zone name.
1757	TIMS-1757: At least one Non-Managed DNS master should be specified.
1758	TIMS-1758: At least one TCPWave IPAM managed slave should be specified.
1759	TIMS-1759: The Non-Managed DNS master cannot be updated in the system as there is a TSIG key with the name: {0} already defined in one of the managed external DNS zones.
1760	TIMS-1760: The Non-Managed DNS zone cannot be created in the system as there is a TSIG key with the name: {0} already defined in one of the managed external DNS masters.
1761	TIMS-1761: The Non-Managed DNS master cannot be created in the system as there is an existing TCPWave managed DHCP object with the IP address: {0}.
1762	TIMS-1762: The Non-Managed DNS zone cannot be created in the system as there is a TSIG key with the name: {0} already defined in one of the managed external DNS zones.
1796	TIMS-1796: The selected DNS appliance: {0} cannot be deleted as it is associated with the Non-Managed DNS zones.
1797	TIMS-1797: The Non-Managed DNS master address value cannot be null. Enter a valid Non-Managed DNS master address.
1798	TIMS-1798: The specified password is invalid for the Non-Managed DNS master {0}. Enter a valid password.
1799	TIMS-1799: The PowerDNS master does not exist with a specified IP address: {0} in the system.
1801	TIMS-1801: Select a business unit to delete.
1802	TIMS-1802: Select a business unit to modify.
1898	TIMS-1898: Unable to accept as one or more of the selected commands are not the latest discovery commands for the associated switches.
1899	TIMS-1899: Unable to accept as one or more of the selected commands have already been accepted.
1900	TIMS-1900: Switch IP cannot be null.
1901	TIMS-1901: Select a switch to accept the switch results.
1902	TIMS-1902: An error occurred while deleting the switch results.
1903	TIMS-1903: Select a switch to discard the switch results.
1904	TIMS-1904: An error occurred while discovering switches.
1905	TIMS-1905: Select a switch to discover the connected devices.
1906	TIMS-1906: Select a switch to see the discovered devices.
1907	TIMS-1907: Object type must be IPv4 or IPv6.
1908	TIMS-1908: IPv4 object Id or IPv6 object id cannot be null.
1909	TIMS-1909: Host cannot be null.
1910	TIMS-1910: Port cannot be null.
1911	TIMS-1911: User Name cannot be null.



Error Codes	
1912	TIMS-1912: Password cannot be null.
1913	TIMS-1913: Authentication type cannot be null.
1914	TIMS-1914: VMWare authentication has failed. Check the credentials.
1915	TIMS-1915: Make sure host is matched to either object IP address or object hostname.
1916	TIMS-1916: Organization name cannot be null.
1917	TIMS-1917: Organization name and id cannot be null.
1918	TIMS-1918: Object address does not belong to any defined subnet in the given organization.
1939	TIMS-1939: DNS appliance template or recursion cannot be changed as DNS forwarding is enabled on this appliance.
1940	TIMS-1940: The appliance template cannot be changed as one more appliance template level forwarder conflicts with appliance-specific forwarders.
1941	TIMS-1941: A zone name already exists in appliance level forwarders.
1942	TIMS-1942: Forwarders group should contain at least one or more forwarders.
1943	TIMS-1943: Appliance template cannot be associated to BIND AUTH appliance as DNS forwarding is enabled on selected appliance template.
1944	TIMS-1944: Forwarder zone name cannot be null.
1945	TIMS-1945: Forwarder name already exists.
1946	TIMS-1946: Forwarders group with a name already exists: {0}.
1947	TIMS-1947: The selected DNS forwarders group cannot be deleted as it is associated with one or more DNS appliance template(s).
1948	TIMS-1948: Appliance forwarder cannot be edited as it is associated with appliance templates.
1949	TIMS-1949: Appliance forwarder cannot be deleted as it is associated with appliance templates.
1950	TIMS-1950: The file set cannot be null.
1951	TIMS-1951: File set {0} does not exist in the organization {1}.
1952	TIMS-1952: Protocol cannot be null.
1953	TIMS-1953: File set name and Id cannot be null.
1954	TIMS-1954: File set does not exist: {0}.
1955	TIMS-1955: File name already exists.
1956	TIMS-1956: File set already exists.
1957	TIMS-1957: File set with name {0} already exists.
1958	TIMS-1958: File set file ID Cannot be null.
1959	TIMS-1959: Selected appliance is already assigned to {0} file set.
1960	TIMS-1960: Appliance is referenced in the file set. Delete those references and try again.
1961	TIMS-1961: Alias resource record already exists with name {0}.
1962	TIMS-1962: Alias resource record name cannot be null.
1963	TIMS-1963: Invalid rows present with more than two columns. The maximum columns allowed is 2.
1964	TIMS-1964: {0} record of owner {1} already exists for an object: {2}.
1965	TIMS-1965: {0} record of owner {1} already exists in zone: {2}.
1966	TIMS-1966: As the zone is already managed by the TCPWave IPAM, the operation cannot be performed. The existing zone must be deleted to continue the operation.
1967	TIMS-1967: IAM role name can contain alphanumeric characters, or any of the characters: _+@- {0}.
1968	TIMS-1968: Domain servers cannot be empty as the selected DHCP option template has the value same as the subnet profile for the option domain servers (6).
1969	TIMS-1969: Selected DNS appliance has references in one or more subnet(s). Dis-associate the appliance from the subnet(s) and try again.

Error Codes	
1970	TIMS-1970: Selected DHCP option template cannot be updated as the one or more subnet(s) associated with this template have no domain servers selected.
1971	TIMS-1971: Resource with name {0} already exists.
1972	TIMS-1972: Patch name cannot be null.
1973	TIMS-1973: Both patch name and patch type cannot be null.
1974	TIMS-1974: Resource type cannot be null.
1975	TIMS-1975: Resource name already exists.
1976	TIMS-1976: Old resource name cannot be null.
1977	TIMS-1977: Resource type is not valid.
1978	TIMS-1978: Provide a valid old resource name.
1979	TIMS-1979: No changes have been discovered for this operation.
1980	TIMS-1980: Cloud provider is not valid.
1981	TIMS-1981: The cloud provider doesn't have the resource role mapping for the zone. So zone name edit cannot be performed. Add resource role mapping for this zone in the cloud provider and try again.
1982	TIMS-1982: The administrator role with name {0} already exists.
1983	TIMS-1983: The administrator role {0} cannot be edited.
1984	TIMS-1984: The administrator role should contain at least one or more functions.
1985	TIMS-1985: Organization name cannot be null for {0} role.
1986	TIMS-1986: Give a valid role name.
1987	TIMS-1987: Default role cannot be updated.
1988	TIMS-1988: To assign the {0} role, unassign the existing roles and add this role to the administrator group.
1989	TIMS-1989: You cannot assign another role to this administrator group as the {0} role is already assigned to the group.
1990	TIMS-1990: The administrator role {0} does not exist.
1991	TIMS-1991: The administrator role cannot be null.
1992	TIMS-1992: The administrator group should contain at least one or more administrator roles.
1993	TIMS-1993: A custom role cannot be created with the security management actions.
1994	TIMS-1994: A custom role cannot be updated with the security management actions.
1995	TIMS-1995: Function {0} does not exist.
1996	TIMS-1996: The default administrator group cannot be updated.
1997	TIMS-1997: The administrator role {0} is referenced in an existing administrator. Delete those references and retry.
1998	TIMS-1998: The default administrator group cannot be deleted.
2000	TIMS-2000: ACL is referenced in AD enabled zones. Delete those references and retry.
2001	TIMS-2001: ACL(s) not found: {0}.
2002	TIMS-2002: ACL already exists: {0}.
2003	TIMS-2003: The ACLs are not valid.
2004	TIMS-2004: The ACL is referenced in the appliance templates. Delete those references and retry.
2005	TIMS-2005: The ACL is not valid: {0} for option param: {0}.
2006	TIMS-2006: The ACL is not valid: {0}.
2007	TIMS-2007: The ACL name is not valid: {0}.
2008	TIMS-2008: A network address and id cannot be null.
2009	TIMS-2009: Key is not valid: {0}.
2010	TIMS-2010: Algorithm is not valid: {0}.
2011	TIMS-2011: Bit size should be between {0} and {1}.
2012	TIMS-2012: Cannot merge into /{0} subnet.

Error Codes	
2013	TIMS-2013: A split operation is currently in progress. Try later.
2014	TIMS-2014: Subnet group already exists: {0}.
2015	TIMS-2015: Subnet does not exist.
2016	TIMS-2016: Subnet does not exist: {0}
2017	TIMS-2017: Choose a mask length greater than {0}.
2018	TIMS-2018: Subnet group information does not exist.
2019	TIMS-2019: Subnet group information does not exist: {0}.
2020	TIMS-2020: Object type does not exist: {0}.
2021	TIMS-2021: Subnet(s) cannot be {0} as the option router in the DHCP option template does not match with the primary router of the subnet. Choose a different template.
2022	TIMS-2022: Subnet(s) cannot be {0} as the option subnet mask in the DHCP option template does not match the subnet mask of the subnet. Choose a different template.
2023	TIMS-2023: Subnet(s) cannot be {0} as the primary domain of the subnet does not match with the option domain-name in the DHCP option template. Choose a different template.
2024	TIMS-2024: This subnet does not correspond to any of the existing networks.
2025	TIMS-2025: Cannot delete a default object type.
2026	TIMS-2026: Cannot modify a default object type.
2027	TIMS-2027: DHCP class with the given match expression already exists.
2028	TIMS-2028: DHCP class with the given name already exists.
2030	TIMS-2030: Object type already exists: {0}
2031	TIMS-2031: Enter ACL value.
2032	TIMS-2032: Creating new ACL failed. Check the logs.
2034	TIMS-2034: Enter data for the ACL.
2035	TIMS-2035: Select reference ACL.
2036	TIMS-2036: ACL NONE already exists. You cannot add ANY to the ACL.
2037	TIMS-2037: ACL ANY already exists. You cannot add NONE to the ACL.
2038	TIMS-2038: Select at least one row to delete.
2039	TIMS-2039: Select an entry to move.
2040	TIMS-2040: Select a single row to modify.
2041	TIMS-2041: Selected ACL is a special ACL. It cannot be modified.
2042	TIMS-2042: Select an ACL to modify.
2043	TIMS-2043: Selected ACL is a special ACL. It cannot be cloned.
2044	TIMS-2044: Select a row to clone.
2045	TIMS-2045: {0} already exists.
2046	TIMS-2046: Updating ACL failed. Check the logs.
2047	TIMS-2047: There is an existing entry with the same address.
2048	TIMS-2048: There is an existing entry with the same ACL name.
2050	TIMS-2050: Subnet group does not exist: {0}
2051	TIMS-2051: Unable to delete the selected subnet group as it has references.
2052	TIMS-2052: Subnet group name and id cannot be null.
2053	TIMS-2053: Select an entry to move.
2054	TIMS-2054: Select an entry to modify.
2055	TIMS-2055: Select a reference ACL.
2056	TIMS-2056: Selected ACL is a special ACL. It cannot be deleted.
2057	TIMS-2057: Select at least one ACL to delete.
2058	TIMS-2058: {0} already exists. Confirm to override.
2059	TIMS-2059: Subnet is not associated to the selected domain: {0}.
2060	TIMS-2060: Subnet insert failed as subnet address is out of network address range.

Error Codes	
2061	TIMS-2061: Subnet insert failed as router address does not belong to the subnet.
2062	TIMS-2062: Enter a valid router address.
2063	TIMS-2063: Subnet cannot be split as DHCP-enabled subnets require a default primary router.
2064	TIMS-2064: Cloud provider type cannot be null.
2070	TIMS-2070: Select a single row.
2071	TIMS-2071: Select at least one AML to delete.
2072	TIMS-2072: Select a single subnet to view the active leases.
2073	TIMS-2073: Active leases cannot be viewed as the selected subnet does not have a DHCP appliance associated with it.
2074	TIMS-2074: Select an active lease to be deleted.
2075	TIMS-2075: Select a single subnet to split.
2076	TIMS-2076: Select a subnet to split.
2077	TIMS-2077: Unable to sync an object; dynamic DNS options are not set.
2078	TIMS-2078: Select a single server to sync.
2079	TIMS-2079: Select a single object to view permissions.
2080	TIMS-2080: Select a single object to modify permissions.
2081	TIMS-2081: Failed to get the object as it is not found or not reachable on DNS appliances. Check if the associated appliances are up and running.
2082	TIMS-2082: DNS appliance is not reachable to sync.
2083	TIMS-2083: Object not available on the DNS appliance to sync.
2084	TIMS-2084: Cannot sync cache appliance. The slave appliance is not in sync with the master appliance. Sync slave appliances first.
2085	TIMS-2085: Discovery has failed. Check the logs for more information.
2086	TIMS-2086: Select a subnet to discover.
2087	TIMS-2087: Select domains to be removed.
2088	TIMS-2088: Select domains to be added.
2089	TIMS-2089: Cannot perform a DNS traversal since the dynamic update flags are not set.
2090	TIMS-2090: IPv6 address overlaps with an existing DHCP scope. Choose a different IPv6 address.
2100	TIMS-2100: IPv6 address is not valid: {0}.
2101	TIMS-2101: The IP address and name you entered already exist.
2102	TIMS-2102: The name cannot be more than 63 characters long.
2103	TIMS-2103: Select a network to modify.
2104	TIMS-2104: IPv6_network address does not exist: {0}.
2105	TIMS-2105: IPv6 subnet address is out of block address range.
2106	TIMS-2106: Select a network to delete.
2107	TIMS-2107: Subnet(s) cannot be created/updated as option subnet mask is not defined in the template.
2108	TIMS-2108: Subnet(s) cannot be created/updated as option routers are not defined in the template.
2109	TIMS-2109: Object with this name already exists.
2110	TIMS-2110: Select at least one DNS64 prefix to be added.
2111	TIMS-2111: Select at least one DNS64 prefix to be deleted.
2112	TIMS-2112: Select at least one AD domain controller to be added.
2113	TIMS-2113: Select at least one AD domain controller to be deleted.
2114	TIMS-2114: Select at least one ACL to be added.
2115	TIMS-2115: Select at least one ACL to be deleted.
2116	TIMS-2116: Child Forest ACL cannot be deleted from the parent forest.
2117	TIMS-2117: TSIG key name cannot be null.
2118	TIMS-2118: TSIG key algorithm cannot be null.

Error Codes	
2119	TIMS-2119: TSIG key name already exists: {0}.
2120	TIMS-2120: TSIG key algorithm does not exist: {0}.
2121	TIMS-2121: TSIG key name does not exist: {0}.
2122	TIMS-2122: TSIG keys cannot be deleted as some of the specified keys does not exist in IPAM.
2123	TIMS-2123: TSIG key(s) is/are not found.
2124	TIMS-2124: Select reference TSIG key.
2125	TIMS-2125: TSIG key(s) cannot be deleted as one or more DNS ACLs are associated with this.
2126	TIMS-2126: TSIG key reference(s) not found.
2201	TIMS-2201: An address space with the given name already exists in the organization.
2202	TIMS-2202: Invalid Regional Internet Registry (RIR) specified.
2203	TIMS-2203: Specified address space does not exist in the organization.
2204	TIMS-2204: Invalid mask specified.
2205	TIMS-2205: Specified parent block does not exist.
2206	TIMS-2206: Specified address block does not exist.
2207	TIMS-2207: Specified start address is invalid for the given mask.
2208	TIMS-2208: Specified address is invalid, and the mask value is missing.
2209	TIMS-2209: Invalid IPv6 mask value specified.
2210	TIMS-2210: Invalid IPv4 mask value specified.
2211	TIMS-2211: Specified IPv6 address is invalid.
2212	TIMS-2212: Specified IPv4 address is invalid.
2213	TIMS-2213: The child block is out of bounds of the parent block.
2214	TIMS-2214: Block clashes with an existing child block.
2215	TIMS-2215: Block clashes with the existing blocks in the address space.
2216	TIMS-2216: Specify the new mask length.
2217	TIMS-2217: Specify a mask length that is greater than the current mask length.
2218	TIMS-2218: IPv4 block mask length should be less than or equal to 32.
2219	TIMS-2219: IPv6 block mask length should be less than or equal to 128.
2220	TIMS-2220: One or more child nodes are larger than the specified new block size.
2221	TIMS-2221: The difference between the new and old masks should not be greater than 4.
2222	TIMS-2222: Specified seed block does not exist.
2223	TIMS-2223: No free space to create a network with the specified mask in the address block.
2224	TIMS-2224: No free space to create a child block with the specified mask in the address block.
2424	TIMS-2424: Proxy root zone already exists in the selected organization.
2500	TIMS-2500: The owner name should be the same as the zone name.
2990	TIMS-2990: Incorrect address ranges specified.
2991	TIMS-2991: The name of this object conflicts with an existing CNAME record. Try with a different name.
2992	TIMS-2992: Select an object to modify.
2993	TIMS-2993: Current selection contains unallocated objects that cannot be edited. Redo the selection.
2994	TIMS-2994: Select a defined object to delete.
2995	TIMS-2995: DHCP objects cannot be {0} as the subnet is not DHCP enabled. Associate a DHCP option template and a DHCP appliance to the subnet and try again.
2996	TIMS-2996: Select a resource record to remove.
2997	TIMS-2997: Select an organization to add resource records.
2998	TIMS-2998: Enter all the required values.

Error Codes	
2999	TIMS-2999: Select an organization to update resource records.
3000	TIMS-3000: The selected resource record is the default A record. It cannot be modified.
3001	TIMS-3001: An object exists at the given address. Select an unallocated address.
3002	TIMS-3002: DHCP appliance name is null.
3003	TIMS-3003: The object type for this object cannot be changed as it is defined as an appliance.
3004	TIMS-3004: Cannot add an object at the subnet boundary.
3005	TIMS-3005: Object name is null.
3006	TIMS-3006: Object address cannot be null.
3007	TIMS-3007: Object already exists: {0}
3008	TIMS-3008: IPv6 address already exists: {0}
3009	TIMS-3009: Object does not exist.
3010	TIMS-3010: Object does not exist: {0}
3011	TIMS-3011: The owner name does not point to a valid A record.
3012	TIMS-3012: CNAME does not refer to a valid A record.
3013	TIMS-3013: Object address out of specified subnet address range.
3014	TIMS-3014: Subnet address and id cannot be null.
3015	TIMS-3015: Resource record does not exist.
3016	TIMS-3016: Run a valid dig command.
3017	TIMS-3017: Dynamic DNS update options cannot be changed for this object as it belongs to a DHCP scope.
3018	TIMS-3018: Name service update options cannot be changed for this object as it belongs to a DHCP scope.
3019	TIMS-3019: DHCP option template cannot be changed for this object as it belongs to a DHCP scope.
3020	TIMS-3020: Appliance type and id cannot be null.
3021	TIMS-3021: Subnet does not exist for object: {0}.
3022	TIMS-3022: Bit size should be between {0} and {1} for algorithm {2}.
3023	TIMS-3023: Logger is not valid.
3024	TIMS-3024: MAC address is not unique.
3025	TIMS-3025: Resource records already exist.
3026	TIMS-3026: A template with the specified name already exists.
3027	TIMS-3027: Object is not deleted as it is associated with an appliance.
3028	TIMS-3028: Object name cannot be changed to {0}.
3029	TIMS-3029: Object cannot be created with {0} as name.
3030	TIMS-3030: Object address and id cannot be null.
3031	TIMS-3031: Object is not deleted as it is associated with a zone.
3032	TIMS-3032: Object is not deleted as it is associated with AD UPN.
3033	TIMS-3033: An appliance already exists with a specified address/name.
3034	TIMS-3034: DNS appliance template name and id cannot be null.
3035	TIMS-3035: DNS appliance template does not exist.
3036	TIMS-3036: DHCP policy template name and id cannot be null.
3037	TIMS-3037: DHCP policy template does not exist.
3038	TIMS-3038: Appliance type is not valid: {0}.
3039	TIMS-3039: A DHCP object cannot be used to create a remote appliance.
3040	TIMS-3040: A DHCP appliance cannot be created using the selected device as it is the primary router of the subnet. Choose a different device.
3041	TIMS-3041: Cannot modify the object as the MAC address is not specified.
3042	TIMS-3042: Error detected in DHCP policy template : {0}. DHCP configuration will not be updated with changes to this template. Template and remote DHCP configurations have been rolled back to their last known good configurations.

Error Codes	
3043	TIMS-3043: Error detected in DHCP option template: {0}. DHCP configuration will not be updated with changes to this template. Template and remote DHCP configurations have been rolled back to their last known good configurations.
3044	TIMS-3044: Cannot create a scope as the primary router for this subnet is not defined.
3045	TIMS-3045: Cannot create a scope as the DHCP appliance for this subnet is not defined.
3046	TIMS-3046: Cannot create a scope as the DHCP option template for this subnet is not defined.
3047	TIMS-3047: Cannot complete this action as the DHCP option template does not have a subnet mask defined.
3048	TIMS-3048: Cannot complete this action as the DHCP option template does not have a router defined.
3049	TIMS-3049: Cannot complete this action as the DHCP option template does not have a domain defined.
3050	TIMS-3050: Appliance Id and address cannot be null.
3051	TIMS-3051: Appliance address cannot be null.
3052	TIMS-3052: An appliance is not deleted as other zone(s) are using it. Remove the referencing zone(s) and retry.
3053	TIMS-3053: An appliance is not deleted as other zone template(s) are using it. Remove the referencing zone template(s) and retry.
3055	TIMS-3055: An appliance is not deleted as other network(s) are using it. Remove the referencing network(s) and retry.
3056	TIMS-3056: The DHCP class does not exist: {0}.
3057	TIMS-3057: The DHCP option template is invalid for the subnets after the split.
3058	TIMS-3058: The DHCP appliance does not exist: {0}.
3059	TIMS-3059: Appliance id and address both cannot be null.
3060	TIMS-3060: DHCP appliance is not deleted as it manages subnets.
3061	TIMS-3061: DHCP appliance is not deleted as it manages scopes.
3063	TIMS-3063: Class cannot be deleted as it is being used by one or more scopes.
3064	TIMS-3064: DHCP appliance is not deleted as there are manual-DHCP objects associated with it.
3065	TIMS-3065: The vendor-class-identifier is not specified in the match expression. Verify the expression syntax or check for examples in the help section.
3066	TIMS-3066: The client-class-identifier is not specified in the match expression. Verify the expression syntax or check for examples in the help section.
3067	TIMS-3067: DHCP appliance cannot be changed for this object as it belongs to a DHCP Scope.
3068	TIMS-3068: Select more subnets to merge.
3069	TIMS-3069: DHCP configuration regeneration error. Check the logs.
3070	TIMS-3070: DHCP scope creation failed. The template and remote DHCP configurations are rolled back to their last known good configurations.
3071	TIMS-3071: Error detected in DHCP policy template: {0}. DHCP configuration will not be updated with changes to this template.
3072	TIMS-3072: A or CNAME {0} record already exists for an object: {1}.
3073	TIMS-3073: Select a single row to create an object.
3074	TIMS-3074: Select a single row to modify an object.
3075	TIMS-3075: Object cannot be created with a name called localhost because it will impact applications.
3076	TIMS-3076: Cannot create the object as the mac address is not specified.
3077	TIMS-3077: Current selection contains unallocated object(s) that cannot be deleted. Select again.
3078	TIMS-3078: Object creation failed. The name of this object conflicts with an existing CNAME record. Try with a different name.
3079	TIMS-3079: DNS option template name and id cannot be null.

Error Codes	
3080	TIMS-3080: DNS option template does not exist.
3081	TIMS-3081: DNS appliance cannot be created using the selected device as it is the primary router of the subnet. Choose a different device.
3082	TIMS-3082: An object exists at the given address. Select an unallocated address.
3083	TIMS-3083: DHCP appliance does not exist.
3084	TIMS-3084: Subnet update failed as DHCP appliance is being disassociated when there is a template.
3085	TIMS-3085: Select a DHCP appliance.
3086	TIMS-3086: Subnet update failed as DHCP option template is being disassociated when there is an appliance.
3087	TIMS-3087: DNS appliance cannot be created using the selected object as it is reserved. Choose another object.
3088	TIMS-3088: Appliance IP address is null.
3089	TIMS-3089: Appliance name is null.
3090	TIMS-3090: Appliance id and name cannot be null.
3091	TIMS-3091: Appliance does not exist.
3092	TIMS-3092: Appliance does not exist: {0}
3093	TIMS-3093: Cannot delete the lease as TIMS is not able to communicate with the remote DHCP appliance. Try restarting TIMS-DHCP on the remote DHCP appliance.
3094	TIMS-3094: Allocation type cannot be changed as an object is an appliance.
3095	TIMS-3095: DHCP appliance preference cannot be changed from primary to failover.
3096	TIMS-3096: The user-class attribute is not specified in the match expression. Verify the expression syntax or check for examples in the help section.
3097	TIMS-3097: The {0} class match expression is not valid. Check the help manual for additional information.
3098	TIMS-3098: The router address does not belong to the subnet.
3099	TIMS-3099: DHCP lease update to TCPWave IPAM failed. The name of this object conflicts with an existing CNAME record.
3100	TIMS-3100: The object name cannot be modified as it conflicts with an existing appliance name.
3101	TIMS-3101: Network does not exist: {0}
3102	TIMS-3102: DHCP scopes/objects cannot be created as the subnet is not DHCP enabled. Associate a DHCP option template and a DHCP appliance to the subnet and try again.
3103	TIMS-3103: Allocation type of router, TCPWave remote, Microsoft remote, TCPWave IPAM, or Domain Controller has to be static.
3104	TIMS-3104: Network does not exist.
3105	TIMS-3105: Object creation failed. The name of this object conflicts with an existing A record. try with a different name.
3106	TIMS-3106: The name of this object conflicts with an existing A record. Try with a different name.
3107	TIMS-3107: Network does not exist for the specified organization.
3108	TIMS-3108: Object update failed. The name of this object conflicts with an existing CNAME record. Try with a different name.
3109	TIMS-3109: Object update failed. The name of this object conflicts with an existing A record. try with a different name.
3110	TIMS-3110: Specify a maximum of 256 objects only.
3121	TIMS-3121: Subnet is not deleted as there are appliances defined in it.
3122	TIMS-3122: Select two or more subnets to merge.
3123	TIMS-3123: Subnet merge failed as a primary router is not selected.
3124	TIMS-3124: Subnet merge failed as DHCP appliance is not selected.
3125	TIMS-3125: Subnet update failed as DHCP appliance, or DHCP template cannot be disassociated as there are scopes/M-DHCP definitions in this subnet.



Error Codes	
3126	TIMS-3126: Failover cannot be configured for this DHCP appliance as all the existing failover appliances are in use. Create a failover appliance and try again.
3130	TIMS-3130: Object type cannot be deleted as it is being used.
3131	TIMS-3131: Select a vendor class to modify.
3132	TIMS-3132: Select a vendor class to delete.
3133	TIMS-3133: Failed to get the resource record as it is not found or not reachable on DNS appliances. Check if the associated appliances are up and running.
3134	TIMS-3134: Sync is not applicable on DNS authoritative master appliances.
3135	TIMS-3135: DNS appliance is not reachable to sync.
3136	TIMS-3136: Resource record not available on the DNS appliance to sync.
3137	TIMS-3137: Cannot sync cache appliance. Slave appliances are not in sync with the master appliance. Sync the slave appliance first.
3138	TIMS-3138: Select a resource record to sync.
3139	TIMS-3139: Select an object type to modify.
3140	TIMS-3140: Select an object type to delete.
3141	TIMS-3141: No object type selected for deletion.
3142	TIMS-3142: The selected appliance is a failover type. It cannot be cloned.
3143	TIMS-3143: Select a defined object to delete.
3144	TIMS-3144: Select an object to delete.
3145	TIMS-3145: Select an object to modify.
3146	TIMS-3146: Current selection contains unallocated object(s) that cannot be modified. Select again.
3147	TIMS-3147: Select a subnet to split.
3148	TIMS-3148: Select a single subnet to split.
3149	TIMS-3149: Select a single subnet to view permissions.
3150	TIMS-3150: Select a single subnet to modify permissions.
3151	TIMS-3151: Error occurred during discovery. Check the logs.
3152	TIMS-3152: Record owner name:{0} is already managed by TCPWave IPAM. Try a different name.
3153	TIMS-3153: Object name cannot exceed 253 characters.
3154	TIMS-3154: Object cannot be created/modified as its name conflicts with existing manual/automatic DHCP object of the same DHCP appliance. Try with a different name.
3155	TIMS-3155: Shared Networks have to be associated with DHCP appliances. Define a DHCP appliance and try again.
3156	TIMS-3156: Shared network does not exist.
3157	TIMS-3157: The selected shared network is not associated with the DHCP appliance.
3158	TIMS-3158: Shared network cannot be deleted as it is associated with one or more subnets.
3159	TIMS-3159: Shared networks require DHCP Appliance associated with the subnet. Associate a DHCP appliance to the subnet and try again.
3160	TIMS-3160: DHCP appliance for the shared network cannot be modified as the shared network is associated with one or more subnets.
3161	TIMS-3161: Shared network length cannot exceed more than 255 characters.
3162	TIMS-3162: Enter a valid DHCP server IP address.
3163	TIMS-3163: Shared network with name {0} and DHCP server {1} cannot be found.
3164	TIMS-3164: Choose the DHCP server defined in the subnet profile to create the scope/dynamic DHCP object(s).
3165	TIMS-3165: Choose the DHCP option template defined in the subnet profile to create the scope/dynamic DHCP object(s).
3166	TIMS-3166: Manual and auto-DHCP objects must have the same DHCP appliance as in the subnet profile.

Error Codes	
3167	TIMS-3167: Shared network with this name already exists in the specified organization. Try with a different name.
3168	TIMS-3168: The selected subnets cannot be merged as the entered primary router does not correspond to a router object in any of the chosen subnets.
3180	TIMS-3180: DHCP appliance update failed as the new IP address does not correspond to the same organization as the old DHCP appliance.
3181	TIMS-3181: DHCP appliance is not deleted as there are shared networks associated with it.
3185	TIMS-3185: DHCP template syntax checker has failed due to invalid or empty data.
3186	TIMS-3186: IPv6 address for DHCPv6 appliance cannot be empty data.
3187	TIMS-3187: Network with IP Address {0} and organization {1} does not exist.
3192	TIMS-3192: DHCPv6 configuration sync has failed on appliance: {0} due to {1}.
3201	TIMS-3201: Select an organization for adding resource records.
3202	TIMS-3202: Select a resource record to remove.
3203	TIMS-3203: Select an organization before adding resource records.
3204	TIMS-3204: Invalid resource record specified. The owner name does not end with the given domain name.
3205	TIMS-3205: Select only one zone to Freeze or Unfreeze.
3206	TIMS-3206: Resource record with type:{0} and owner:{1} already exists.
3207	TIMS-3207: A record cannot be modified/deleted as it is associated to record type: {0} and owner: {1}.
3208	TIMS-3208: NS records for {0} are managed by the TCPWave IPAM. Resolution errors will take place if root delegations are incorrect.
3209	TIMS-3209: Zone name {0} is already delegated in the zone {1} in organization:{2}. Cannot add it as a managed zone in the TCPWave IPAM.
3210	TIMS-3210: The selected resource record is the default A record. It cannot be modified.
3211	TIMS-3211: Select a scope to delete.
3212	TIMS-3212: Resource record cannot be added as a zone is defined with the name: {0}.
3213	TIMS-3213: Object cannot be created as a zone is defined with the name: {0}.
3214	TIMS-3214: There is(are) {0} appliance(s) defined in this network. delete the appliance(s) and try again.
3215	TIMS-3215: Object cannot be deleted as one of it's A record is associated to record type: {0} and owner: {1}
3216	TIMS-3216: Resource record cannot be added as there is a dynamic object defined with the name: {0}.
3217	TIMS-3217: Resource record cannot be added as there is a dynamic object defined with the IP address: {0}.
3218	TIMS-3218: Scope cannot be created as it overlaps with an existing scope.
3219	TIMS-3219: A or CNAME {0} record already exists for an Object: {1} in the selected DNS view(s).
3220	TIMS-3220: {0} record of owner {1} already exists for an Object: {2} in the selected DNS view(s).
3221	TIMS-3221: A or CNAME {0} record already exists in Zone: {1} in the selected DNS view(s).
3222	TIMS-3222: {0} record of owner {1} already exists in Zone: {2} in the selected DNS view(s).
3223	TIMS-3223: There is(are) {0} discovery agent(s) defined in this network. delete the discovery agent(s) that belongs to this network and try again.
3250	TIMS-3250: Define at least one parameter to create user-defined options.
3251	TIMS-3251: Enter valid values.
3252	TIMS-3252: Select a user-defined param to modify.
3253	TIMS-3253: Choose a different failover DHCP appliance address as this is already associated with a Primary DHCP Appliance.

Error Codes	
3254	TIMS-3254: No A record found for the given owner/mail server/data: {0}. Enter a valid A record name.
3255	TIMS-3255: No AAAA record found for given owner/mail server/data: {0}. Enter a valid AAAA record name.
3256	TIMS-3256: The object name should not contain an underscore for the object type TCPWave remote.
3257	TIMS-3257: {0} record cannot be modified/deleted as it is associated with one or more {1} resource record(s).
3258	TIMS-3258: No A/CNAME record found for the given data: {0}. Enter a valid A/CNAME record name.
3259	TIMS-3259: CNAME does not refer to a valid A/CNAME record.
3260	TIMS-3260: The global option: Allow CNAME daisy chaining is disabled. So CNAME chaining is not allowed.
3301	TIMS-3301: Select at least one appliance type.
3302	TIMS-3302: Select at least one appliance.
3497	TIMS-3497: An object with the same hostname already exists in IPAM. Therefore object: {0} has not been added.
3498	TIMS-3498: An object with the same MAC address already exists in IPAM. Therefore object: {0} has not been added.
3499	TIMS-3499: No MAC or name mismatch was found for the object: {0}. Therefore, it has not been added to IPAM.
3500	TIMS-3500: Discovered object: {0} does not have a name associated to it. Therefore, it has not been added to IPAM.
3501	TIMS-3501: Unable to retrieve the discovery commands list.
3502	TIMS-3502: Select a subnet to accept the command results.
3503	TIMS-3503: Unable to accept as {0} of the commands {1} not the latest discovery command(s) for the associated subnets.
3504	TIMS-3504: Unable to accept as {0} of the commands {1} either already accepted or not completed.
3505	TIMS-3505: An error occurred while discarding the command results.
3506	TIMS-3506: Select a subnet to discard the command results.
3507	TIMS-3507: An error occurred during retrieval of discovered data.
3508	TIMS-3508: Select a subnet to show the discovery results.
3509	TIMS-3509: Failed to sync on DNS appliance {0} for record {1}.
3510	TIMS-3510: DHCP process restart has encountered an error. Check if the appliance is up and running.
3511	TIMS-3511: An unexpected problem has occurred while restarting the SNMP process on DHCP - Appliance Name: {0}, IP Address: {1}. Try again or contact TCPWave Customer Support.
3512	TIMS-3512: No {0} information found on remote DHCP appliance: {1}. check if the appliance is up and running.
3513	TIMS-3513: The selected commands do not have any discovered devices.
3514	TIMS-3514: Unable to accept as the command is either already accepted or not completed.
3515	TIMS-3515: Unable to accept as the command is not the latest discovery command for the associated subnet.
3601	TIMS-3601: Vault type is invalid.
3602	TIMS-3602: The vault server host cannot be null or empty if the vault type selected is Hashicorp.
3603	TIMS-3603: The full vault server certificate path cannot be null or empty if SSL is chosen to connect to the Hashicorp vault server.
3604	TIMS-3604: No changes detected in root access management details.
3605	TIMS-3605: The vault server port cannot be null or empty if the vault type selected is Hashicorp.
3606	TIMS-3606: A CAA/DNAME record cannot be created with owner {0} as it is different from the zone name.
3607	TIMS-3607: A DNAME record with the data {1} cannot be created for the zone {0} as it is being referring to itself.
3608	TIMS-3608: Zone does not exist for the given DNAME record redirection name {0}

Error Codes	
3609	TIMS-3609: Zone cannot be deleted as it is referred in resource record {0} of type {1}.
3610	TIMS-3610: DNAME cannot be created with the data {0} as one or more master, or slave appliances have a domain with this zone name {1}.
3611	TIMS-3611: DNAME cannot be created with the subdomain {0} as data.
3612	TIMS-3612: A TLSA record cannot be created with owner {0} as it is different from the zone name.
3901	TIMS-3901: The License key is not valid.
3902	TIMS-3902: The license key is not valid. Contact TCPWave Customer Support for further assistance.
3903	TIMS-3903: Schedule Reclaim check box is enabled. Disable and proceed to {0} without scheduling reclaim operation.
3904	TIMS-3904: IPv4 DHCP appliance cannot be deleted as DHCP v6 appliance: {0} is associated with it. Delete the associated DHCPV6 appliance.
3905	TIMS-3905: Microsoft DHCP appliance does not exist with the specified IP address {0}.
3906	TIMS-3906: Microsoft DHCP appliance already exists with the specified IP address {0}.
3907	TIMS-3907: The object type of the selected device is not a Microsoft remote. Choose a different device.
3908	TIMS-3908: A scope already exists in the subnet {0}. Microsoft DHCP appliance does not allow multiple scopes per subnet.
3909	TIMS-3909: Unable to enable monitoring on IPv6 DHCP appliance: {0} as monitoring on corresponding associated IPV4 DHCP appliance: {1} has been disabled.
3912	TIMS-3912: DHCP fingerprint data does not exist.
3913	TIMS-3913: DHCP fingerprint option sequence, MAC bits, Vendor, or device profile cannot be null.
3914	TIMS-3914: DHCP fingerprint data already exists with MAC bits {0} and option sequence {1} .
3915	TIMS-3915: DHCP fingerprint data cannot be deleted as it is referred to with an active lease object.
3916	TIMS-3916: Invalid data specified for {0}.
3917	TIMS-3917: Microsoft DHCP appliance address cannot be null.
3918	TIMS-3918: Microsoft DHCP appliance is not deleted as it is associated with subnets.
3919	TIMS-3919: Microsoft DHCP appliance is not deleted as it is associated with scopes.
3920	TIMS-3920: Microsoft Appliance does not exist with the given data.
3921	TIMS-3921: Value cannot be null or empty for {0}.
3922	TIMS-3922: Object allocation type cannot be changed, which results in fragmenting scopes, and the Microsoft DHCP appliance cannot support multiple scopes per subnet.
3923	TIMS-3923: Object(s) in the subnet are still associated to domain: {0}, disassociate the domain from the objects.
3924	TIMS-3924: Cannot add DHCP reservations without scopes in Microsoft DHCP enabled subnet.
3925	TIMS-3925: Password cannot be null or empty.
3926	TIMS-3926: An exception has occurred while checking the UDP port 67 status for the Microsoft DHCP appliance.
3927	TIMS-3927: The password should not match the last used password.
3928	TIMS-3928: Exception while generating the DHCP configuration file for Microsoft DHCP appliance {0}.
3929	TIMS-3929: Global Policy does not permit a normal administrator to alter the DHCP objects/scopes. Contact your super administrator for assistance.
3930	TIMS-3930: Microsoft DHCP appliance does not exist.
3931	TIMS-3931: Secure communication between IPAM and Microsoft DHCP appliance is broken. Restart the dhcp service on the Microsoft Appliance: {0}.
3932	TIMS-3932: Old password is not correct for the Microsoft appliance {0}.

Error Codes	
3933	TIMS-3933: Cannot merge the new scope with the existing scope as the existing scope has different user/vendor classes.
3934	TIMS-3934: Microsoft DHCP appliance cannot be null.
3935	TIMS-3935: Microsoft DHCP appliance cannot be deleted as it is associated with one or more Microsoft DHCP failover peers.
3936	TIMS-3936: DHCP appliance type cannot be changed.
3937	TIMS-3937: Failed to update subnet {0} with Microsoft DHCP appliance as subnet contains multiple scopes. Microsoft DHCP does not support multiple scopes per subnet.
3938	TIMS-3938: DHCP option space does not exist with name {0}.
3939	TIMS-3939: Previous DHCP option space name cannot be null.
3940	TIMS-3940: DHCP option space name cannot be null or empty.
3941	TIMS-3941: DHCP sub option name cannot be null or empty.
3942	TIMS-3942: DHCP option parameter does not exist with name {0}.
3943	TIMS-3943: DHCP option space already exists with name {0}.
3944	TIMS-3944: DHCP option space: {0} cannot be deleted as it has sub options defined in it.
3945	TIMS-3945: DHCP sub option with option number {0} has been already defined.
3946	TIMS-3946: DHCP option space cannot be updated as the sub-options defined in it are used in the option template(s).
3947	TIMS-3947: Microsoft DHCP appliance does not allow multiple scopes per subnet.
3948	TIMS-3948: Option space names cannot be predefined option space names like dhcp, agent, server, space, nwip, and fqdn.
3949	TIMS-3949: Option param {0} has been associated to another sub-option in the option space: {1}. Select the different parameter numbers.
3950	TIMS-3950: Vendor class name already associated with existing other option space.
3951	TIMS-3951: Cannot {0} option space with name {1} as it is already defined for the custom folder.
3952	TIMS-3952: Ping poller MAC address is in the MAC exclusion list. Enter a different MAC address.
3953	TIMS-3953: DHCP option space name "{0}" contains one or more whitespace. Enter a name without a space.
3954	TIMS-3954: The Shared network name and appliance address cannot be null.
3955	TIMS-3955: DHCP poller cannot be {0} with the given data as the DHCP-M/DHCP-A object already exists with the Name: {1}.
3956	TIMS-3956: DHCP-M/DHCP-A object cannot be {0} with the given data as the DHCP poller already exists with the Name: {1}.
3957	TIMS-3957: DHCP poller cannot be {0} as the IP address is within the scope ranges.
3958	TIMS-3958: Cannot {0} custom folder with name {1} as it is already defined for the option space.
3959	TIMS-3959: Cannot associate DHCP client class to Microsoft DHCP enabled subnet.
3960	TIMS-3960: Microsoft DHCP peer cannot be created as message authentication is enabled, but a secret key is not provided. To resolve this, add a column SHARED_SECRET in the header of the CSV file to be imported and provide value in the data row.
3961	TIMS-3961: Failed to get the {0} information from the DHCP appliance {1}. Check if the appliance is up and running.
3962	TIMS-3962: DHCP appliance type should be either "DHCP" or "MSDHCP."
3963	TIMS-3963: DHCP option template: {0} has the router value as "Same as in subnet profile," but the subnet profile does not have a router defined in it.
3964	TIMS-3964: DHCP option template: {0} has the subnet mask value as "Same as in subnet profile," but the subnet profile does not have a mask value.
3965	TIMS-3965: DHCP option template: {0} has the domain value as "Same as the primary domain in subnet profile," but the subnet profile does not have a domain defined in it.

Error Codes	
3966	TIMS-3966: Scope does not exist for object range: {0} in {1} organization.
3967	TIMS-3967: The policy template cannot be deleted as it is associated with one or more DHCP IPv6 appliances.
3968	TIMS-3968: Cannot delete the active leases for the Microsoft DHCP enabled scope.
3969	TIMS-3969: Provide a valid scope range.
3970	TIMS-3970: Response timeout while {0} for the DHCP appliance: {1}.
3971	TIMS-3971: Cannot {0} as IPAM is not able to communicate with the associated DHCP appliance. Check if the DHCP appliance:{1} is up and running.
3973	TIMS-3973: User is not authorized to modify SNMP counter/Fingerprint values.
3974	TIMS-3974: DHCP Appliance: {0} does not exist in the organization: {1}.
3975	TIMS-3975: Microsoft DHCP appliance does not exist with the specified name {0} .
3976	TIMS-3976: DHCP fingerprint data cannot be updated as it has reference with active lease objects
3977	TIMS-3977: The name parameter "{0}" contains invalid character(s). Please enter a name with alphanumeric characters and underscore only.
3978	TIMS-3978: Appliance type should be either "DNS" or "DHCP."
3979	TIMS-3979: Cannot create/update DHCP failover: {0} with two different server types, please select both primary and secondary appliances of DHCP or KEA_DHCP types.
3980	TIMS-3980: Cannot change the server type.
3981	TIMS-3981: Cannot create DHCP failover with {0} type appliances.
4000	TIMS-4000: Authentication type code is not valid: {0}
4002	TIMS-4002: The first name should be specified while creating/updating an user.
4003	TIMS-4003: The last name should be specified while creating/updating an user.
4004	TIMS-4004: The email id should be specified while creating/updating an user.
4005	TIMS-4005: User id is not valid: {0}
4006	TIMS-4006: first_name, middle_name, last_name, or email_id cannot be null.
4007	TIMS-4007: User does not exist: {0} {1} {2}.
4008	TIMS-4008: User does not exist: {0}.
4009	TIMS-4009: Admin group already exists: {0}.
4010	TIMS-4010: The Login name is not valid: {0}.
4011	TIMS-4011: Target type is not valid: {0}.
4012	TIMS-4012: Admin group is not valid: {0}.
4013	TIMS-4013: Invalid User/Password specified.
4015	TIMS-4015: All the auth tokens cannot be de-activated.
4016	TIMS-4016: Auth token has expired.
4017	TIMS-4017: Auth token is not specified.
4018	TIMS-4018: Admin name is not valid: {0}.
4019	TIMS-4019: Target is not valid.
4020	TIMS-4020: Target does not exist: {0}.
4021	TIMS-4021: Select a session token to de-activate.
4022	TIMS-4022: Admin does not exist: {0}.
4023	TIMS-4023: SNMP trap destination is not configured.
4024	TIMS-4024: SNMP community string is not configured.
4025	TIMS-4025: Target {0} already exists.
4040	TIMS-4040: Access has been temporarily disabled due to multiple failed logins from the IP. Please try again later.
4050	TIMS-4050: Login name is not valid.

Error Codes	
4051	TIMS-4051: The password should be at least {0} characters long.
4052	TIMS-4052: The password should not be longer than 20 characters.
4053	TIMS-4053: The password should not contain any references to the admin's organization, login name, first name, or last name.
4054	TIMS-4054: The password should contain at least one letter and one number.
4055	TIMS-4055: The password should contain at least one capital letter, one letter, and one number.
4056	TIMS-4056: The password should contain at least one letter, one number, and one of the special characters !@#\$\$%
4057	TIMS-4057: The password should not match with the last {0} passwords.
4058	TIMS-4058: Login name already exists: {0}.
4059	TIMS-4059: Specify a login name.
4060	TIMS-4060: Authentication type is not valid: {0}.
4061	TIMS-4061: TACACS+ server is not configured.
4062	TIMS-4062: TACACS+ server {0} is not up.
4063	TIMS-4063: TACACS+ server password is not configured.
4064	TIMS-4064: The RADIUS server is not configured.
4065	TIMS-4065: RADIUS Server {0} is not up.
4066	TIMS-4066: RADIUS Server access key is not configured.
4067	TIMS-4067: LDAP Server is not configured.
4068	TIMS-4068: LDAP Server {0} is not up.
4069	TIMS-4069: LDAP Server port is not configured.
4070	TIMS-4070: KERBEROS Key Distribution Center (KDC) is not configured.
4071	TIMS-4071: KERBEROS Key Distribution Center (KDC) {0} is not up.
4072	TIMS-4072: KERBEROS Realm is not configured.
4073	TIMS-4073: Both session_id and login_id cannot be null.
4074	TIMS-4074: Session is not valid.
4075	TIMS-4075: Invalid Config Type Specified.
4076	TIMS-4076: Invalid Config Entity Specified.
4077	TIMS-4077: Cannot find config entity for name {0}
4078	TIMS-4078: Config entity already exists.
4080	TIMS-4080: Invalid Firewall Rule specified. Please check Rule {0}
4081	TIMS-4081: The {0} rule(s) could block the critical communication between IPAM and remote appliances.
4090	TIMS-4090: SAML Identity Provider Entity ID is not configured.
4091	TIMS-4091: SAML Identity Provider Single Sign On URL is not configured.
4092	TIMS-4092: SAML Identity Provider Logout URL is not configured.
4093	TIMS-4093: SAML Identity Provider Certificate is not configured.
4099	TIMS-4099: Please set all the required AD/LDAP global configuration parameters.
4100	TIMS-4100: Global Option does not exist: {0}
4101	TIMS-4101: Config parameter setting failed : {0}
4102	TIMS-4102: Global Option name is null.
4103	TIMS-4103: None of the NTP appliance(s) are reachable.
4104	TIMS-4104: Global Option: {0} cannot be changed to 'yes' as there are one or more authoritative appliances are recursion enabled.
4201	TIMS-4201: Please select a row.
4202	TIMS-4202: Please select a row to modify.
4203	TIMS-4203: Please select a row to delete.
4301	TIMS-4301: Appliance {0} does not exist.
4302	TIMS-4302: Appliance and Template do not belong to the same Organization.

Error Codes	
4303	TIMS-4303: Object type for this list cannot be changed as it contains defined appliance.
4304	TIMS-4304: Operation is not specified for the {0} restore.
4305	TIMS-4305: Subnet has been created successfully but the object creation has failed for the range specified in the subnet template as the sequence number of the selected Object Type has reached its limit.
4306	TIMS-4306: {0} is not valid: {1}.
4307	TIMS-4307: Use another name for {0} as "ALL" is reserved for a predefined alias name.
4308	TIMS-4308: Invalid value specified for alias {0}.
4309	TIMS-4309: Detected multiple {0} with the same name: {1}.
4310	TIMS-4310: User value {0} specified in the user alias: {1} is restricted from the global policy.
4311	TIMS-4311: User value {0} specified in the user alias: {1} is restricted.
4312	TIMS-4312: Command {0} specified in the command alias: {1} is restricted from the global policy.
4313	TIMS-4313: Invalid sudoers option specified in default environment Variable: {0}.
4314	TIMS-4314: Cannot delete the VRF as it has references in one or more subnet templates.
4315	TIMS-4315: Cannot delete the discovery template as it has references in one or more subnet templates.
4316	TIMS-4316: Cannot delete the DHCP failover peer as it has references in one or more subnet templates.
4317	TIMS-4317: Cannot delete the shared network as it has references in one or more subnet templates.
4331	TIMS-4331: The Elevated Privileges configuration has syntax error at line(s): {0}.
4332	TIMS-4332: The Intrusion Prevention settings has syntax error: {0}.
4333	TIMS-4333: Cannot import the TCPWave's default IPS rules.
4335	TIMS-4335: Cannot add/update IPS rule as Intrusion Prevention is disabled.
4400	TIMS-4400: {0} {1} cannot be null.
4401	TIMS-4401: {0} exists with same {1}: {2}
4402	TIMS-4402: does not exist with name: {0} in organization: {1}
4403	TIMS-4403: Cannot create a remote appliance with non-static object definitions.
4404	TIMS-4404: {0} does not exists with {1}: {2} in organization: {2}
4405	TIMS-4405: Cannot create SLB appliance with address:{0} as DHCP appliance is defined for it.
4406	TIMS-4406: Failed to delete {0} with {1}:{2} as it has referenced with {3}, disassociate and try again.
4407	TIMS-4407: Cannot create DHCP appliance with address:{0} as the SLB appliance is defined for it.
4408	TIMS-4408: Virtual IP cannot be created using the selected device. Choose a different Load balancer device.
4409	TIMS-4409: Virtual IP cannot be created using the selected object as it is reserved. Choose another object.
4500	TIMS-4500: SLB appliance template does not exists with the name:{0} in an organization: {1}
4501	TIMS-4501: SLB appliance template already exists with the same name {0}
4502	TIMS-4502: SLB appliance template does not exist with the name {0}
4503	TIMS-4503: SLB frontend properties with the name: {0} already exists in an organization: {1}.
4504	TIMS-4504: SLB option template with the name: {0} does not exist in an organization: {1}.
4505	TIMS-4505: SLB redirect rule with the name: {0} does not exist in an organization: {1}.
4506	TIMS-4506: SLB HTTP request allow/deny rule with name: {0} does not exist in an organization: {1}.



Error Codes	
4507	TIMS-4507: SLB backend with the name: {0} does not exist in an organization: {1}.
4508	TIMS-4508: SLB frontend with the name: {0} does not exist in an organization: {1}.
4509	TIMS-4509: SLB frontend name cannot be null.
4510	TIMS-4510: SLB ACL with the name: {0} already exists in an organization: {1}.
4511	TIMS-4511: SLB ACL with the name: {0} does not exist in an organization: {1}.
4512	TIMS-4512: SLB ACL rule with name: {0} does not exist in an organization: {1}.
4513	TIMS-4513: SLB ACL rule: {0} cannot be deleted as it is referenced in SLB backend {1} association at SLB frontend {2}.
4514	TIMS-4514: SLB ACL rule: {0} cannot be deleted as it is referenced in {1} {2}.
4515	TIMS-4515: SLB redirect rule with the name: {0} already exists in an organization: {1}.
4516	TIMS-4516: SLB redirect rule with the name: {0} does not exist in an organization: {1}.
4517	TIMS-4517: SLB redirect rule with the name: {0} cannot be deleted as it is referenced in SLB frontend {1} association.
4518	TIMS-4518: SLB HTTP request allow/deny rule with name: {0} already exists in an organization: {1}.
4519	TIMS-4519: SLB HTTP request allow/deny rule with name: {0} does not exist in organization: {1}.
4520	TIMS-4520: SLB HTTP request allow/deny rule with the name: {0} cannot be deleted as referenced in SLB frontend {1} association.
4521	TIMS-4521: SLB bind property with address and port: {0} already exists for SLB frontend: {1}.
4522	TIMS-4522: Object with IP address: {0} and hostname: {1} does not exist.
4523	TIMS-4523: SLB bind property with IP address and port: {0} does not exist for SLB frontend: {1}.
4524	TIMS-4524: Pool is already associated with the name: {0}.
4525	TIMS-4525: ADC appliance does not exist: {0}.
4526	TIMS-4526: Cannot delete SLB template as it has references in one or more backend configurations.
4527	TIMS-4527: Cannot delete SLB frontend configurations as one or more backend configurations are associated to {0}
4528	TIMS-4528: Cannot delete SLB appliance template as it has reference(s) with ADC appliance.
4529	TIMS-4529: Cannot delete SLB option template as it has a reference(s) with either ADC appliance or SLB backend configuration.
4530	TIMS-4530: Cannot delete SLB frontend configuration as it is associated with one or more ADC appliances.
4531	TIMS-4531: Cannot delete SLB backend configuration as it is associated with one or more frontend configurations.
4532	TIMS-4532: Cannot delete SLB ACL rule as it is associated with SLB advanced rule set or SLB frontend configurations.
4533	TIMS-4533: Cannot delete SLB ACL advanced rule set as it is associated with one or more SLB frontend configurations.
4534	TIMS-4534: SLB advanced rule set does not exist {0}.
4535	TIMS-4535: The rule already exists with a name {0}.
4536	TIMS-4536: Cannot update SLB frontend configuration as it has {0} backend(s) with a different load balancing mode.
4537	TIMS-4537: Cannot update SLB backend configuration as it is associated with {0} frontend configuration(s) with a different load balancing mode.
4538	TIMS-4538: Cannot create/update SLB frontend configuration as it has a default backend with a different load balancing mode.
4539	TIMS-4539: Cannot associate the acl {0} as it is associated with another backend.
4540	TIMS-4540: The rule name cannot be null.
4541	TIMS-4541: SLB Response page template already exist with the name: {0}.

Error Codes	
4542	TIMS-4542: SLB pool member with address and port : {0} already exist for SLB back-end: {1}.
4543	TIMS-4543: Cannot enable the load balance on the domain {0} as it has the managed DNS zone.
4544	TIMS-4544: The object domain {0} is not load balancing enabled.
4545	TIMS-4545: Cannot create the zone {0} with load balancing enabled domain.
4546	TIMS-4546: GSLB Traffic Control Rule Set does not exist with the name {0}.
4547	TIMS-4547: Cannot enable GSLB on this SLB appliance as there is a DNS appliance exist with the name {0}.
4548	TIMS-4548: Cannot add/update the DNS appliance as there is a GSLB appliance exist with the name {0}.
4549	TIMS-4549: The secure communication between IPAM and ADC Appliance is broken on the ADC Appliance: {0}.
4550	TIMS-4550: The response page cannot delete as it is associated to the frontend(s).
4551	TIMS-4551: The response page does not exist {0}.
4552	TIMS-4552: Object can not be deleted as it is associated associated to the frontend(s).
4553	TIMS-4553: Cannot delete the GSLB Traffic Control Rule Set {0} as it is associated with the ADC appliance {1}.
4554	TIMS-4554: Front end member does not exist with name:{0}
4600	TIMS-4600: DHCP poller does not exist with name: {0}.
4601	TIMS-4601: DHCP poller already exists with same name: {0}
4602	TIMS-4602: DHCP Appliances does not exist in the {0} organization.
4603	TIMS-4603: Shared Network: {0} does not exist with given name for the DHCP appliance: {1}.
4604	TIMS-4604: DHCP failover Peer: {0} does not match with the selected primary DHCP appliance:{1}
4605	TIMS-4605: Object address range does not belong to any network in the organization {0}.
4606	TIMS-4606: Unable to update the DHCP peer:"{0}" as IPAM is not able to communicate with the DHCP appliance: {1}. Please check if the DHCP appliance is up and running.
4607	TIMS-4607: Unable to update the DHCP peer: {0}. Please check the DHCPTask.log on {1} remote for more information.
4608	TIMS-4608: Failed to get the interface: {0} information. Please enter the valid interface name.
4609	TIMS-4609: Cannot delete all DHCP Scope objects for windows DHCP enabled subnet as DHCP manual objects exist, Please delete DHCP manual objects first and try to delete scope.
4610	TIMS-4610: Cannot delete Microsoft DHCP scope {0} as DHCP manual objects exist in subnet {1}, Please delete DHCP manual objects first and try to delete scope.
4611	TIMS-4611: Subnet(s) cannot be updated with new domain as the DHCP objects will have different domain from subnet primary domain.
4612	TIMS-4612: Auto sync operation is currently in progress. Please check the Last sync Time column for more information.
4613	TIMS-4613: Cannot update Microsoft DHCP/DNS Auto Sync Schedule job data, please update interval duration from the Microsoft DHCP/DNS Appliance details screen page.
4614	TIMS-4614: Cannot delete Microsoft DHCP/DNS Auto Sync Schedule job, please disable Auto sync from the Microsoft DHCP/DNS Appliance details screen page.
4615	TIMS-4615: Cannot perform {0} as Microsoft DHCP appliance: {1} is configured to read only mode.
4616	TIMS-4616: Cannot perform {0} as Auto sync configuration is still in progress for Microsoft DHCP appliance: {1} .
4617	TIMS-4617: Cannot perform {0} operation for the object: {1} as the dynamic objects cannot have user defined resource records.
4618	TIMS-4618: Object {0} cannot be {1} as the domain {2} is not associated to the subnet.
4619	TIMS-4619: Failed to {0} {1}{2} because a maximum of {3} domains can be associated as secondary domains.

Error Codes	
4620	TIMS-4620: DHCP {0} template does not exist with name:{1} in {2} organization.
4622	TIMS-4622: Input Password is not matching with the password in the database for the user:{0}
4623	TIMS-4623: Account lock functionality is applicable only for FADM accounts.
4624	TIMS-4624: Cannot update subnet from {0} DHCP Subnet to {1} DHCP subnet. Please delete all the DHCP elements of the subnet scopes, manual/Auto objects and try.
4625	TIMS-4625: Cannot create DHCP Exclusion range as the subnet:{0} is not associated to any DHCP appliance.
4626	TIMS-4626: Cannot create DHCP Exclusion range as the scope is not defined for the subnet.
4627	TIMS-4627: Cannot delete DHCP Exclusion range as the static/DHCP reservation objects are defined and cannot be added them to DHCP range.
4628	TIMS-4628: DHCP Exclusion range are supported only for Microsoft DHCP Enabled subnet.
4629	TIMS-4629: Cannot create DHCP Exclusion range:{0} as it not being subset of scope:{1}
4630	TIMS-4630: Cannot add same DHCP class in allow and deny mode for same scope.
4631	TIMS-4631: Please specify the value for the param:{0} as IP Address array format.
4632	TIMS-4632: DHCP custom folder does not exist with name:{0}
4633	TIMS-4633: DHCP Class cannot be deleted as it is being used in IPv4 subnet template.
5001	TIMS-5001: Template name already exists.
5002	TIMS-5002: Template name already exists in DNS Option Templates.
5003	TIMS-5003: Template name already exists in DHCP Option Templates.
5004	TIMS-5004: Template name already exists in DNS Zone Templates.
5005	TIMS-5005: Template name already exists in DHCP Policy Templates.
5006	TIMS-5006: Template name {0} already exists.
5009	TIMS-5009: Option Template does not exist.
5010	TIMS-5010: Parameter does not exist.
5011	TIMS-5011: Parameter does not exist: {0}
5012	TIMS-5012: Default template cannot be deleted: {0}
5013	TIMS-5013: Template Name is null.
5015	TIMS-5015: Template delete failed as one or more appliances are using this template.
5016	TIMS-5016: Template delete failed as one or more zones are using this template.
5017	TIMS-5017: Template delete failed as one or more subnets are using this template.
5018	TIMS-5018: Template delete failed as one or more scopes are using this template.
5019	TIMS-5019: Template delete failed as one or more DHCP objects are using this template.
5020	TIMS-5020: Template does not exist: {0}
5021	TIMS-5021: Template is not updated as there are subnets using this template with different subnet mask.
5022	TIMS-5022: The option router is not removed from the template as it is associated with one or more subnets.
5023	TIMS-5023: Template is not updated as there are subnets which use this template that do not have a primary router.
5024	TIMS-5024: Template is not updated as it is associated with a subnet and the option router does not belong to the corresponding subnet.
5025	TIMS-5025: Parameter cannot be modified as it is being used in option template(s).

Error Codes	
5026	TIMS-5026: Template cannot be {0} as there is no router object defined with the address: {1}
5027	TIMS-5027: Template cannot be created/updated as there are syntax errors in the parameters. Please check the application log for more information. Contact Customer support if you need assistance.
5028	TIMS-5028: Template does not exist.
5029	TIMS-5029: Template name is not specified.
5030	TIMS-5030: Parameter name is null.
5031	TIMS-5031: Both template name and id cannot be null.
5032	TIMS-5032: Template is not deleted as other appliance(s) is(are) using it. Please remove the referencing appliance(s) and retry.
5033	TIMS-5033: Appliance Template does not exist.
5034	TIMS-5034: Custom parameter creation failed as custom DHCP option cannot be defined with name: {0}
5035	TIMS-5035: DHCP Template does not exist: {0}
5036	TIMS-5036: Parameter cannot be deleted as it is being used in option template(s).
5037	TIMS-5037: A Folder with this name already exists.
5038	TIMS-5038: Folder has options defined in it. Please delete or move them before deleting the folder.
5039	TIMS-5039: Template does not exist for organization.
5040	TIMS-5040: Template does not exist with name={0} and Appliance Type={1}.
5041	TIMS-5041: Template does not exist with name={0}
5042	TIMS-5042: Please select a template to delete.
5043	TIMS-5043: Please enter at least one option. Cannot create an empty template.
5044	TIMS-5044: Please select a template to modify.
5045	TIMS-5045: Cannot modify more than one template at a time.
5046	TIMS-5046: Please enter at least one option. Cannot save an empty template.
5047	TIMS-5047: Please select a DHCP option template.
5048	TIMS-5048: Please select a policy to modify.
5049	TIMS-5049: The selected template is a default template. It cannot be modified.
5050	TIMS-5050: Please select a template to clone.
5051	TIMS-5051: Please select at least one TSIG Algorithm for use in dynamic updates.
5052	TIMS-5052: Please select an algorithm to delete.
5053	TIMS-5053: Please select a logger to delete.
5054	TIMS-5054: DHCP configuration generation failed due to syntax errors. Please check the log: /opt/tcpwave/logs/Tims.log. Contact Customer support if you need assistance.
5055	TIMS-5055: Cannot clone more than one template at a time.
5056	TIMS-5056: Please select a policy template to delete.
5057	TIMS-5057: Please select subnets to create.
5058	TIMS-5058: Please select a rule to delete.
5059	TIMS-5059: Policy file {0} does not exist.
5060	TIMS-5060: The selected template is a default template. It cannot be deleted.
5061	TIMS-5061: Please enter a valid policy file.
5062	TIMS-5062: Template is not valid.
5063	TIMS-5063: Default template cannot be modified: {0}
5064	TIMS-5064: A Default template already exists with the same name.
5101	TIMS-5101: Getting Node info has failed.
5102	TIMS-5102: Accepting Node has failed.
5144	TIMS-5144: NSD Appliance cannot be selected as a Slave as one or more DNS View(s) are associated with it.

Error Codes	
5201	TIMS-5201: Please select an organization to modify.
5202	TIMS-5202: Please select an organization to delete.
5203	TIMS-5203: Please select an organization.
5204	TIMS-5204: Organization contains: {0}. Please delete them first and retry.
5205	TIMS-5205: Please select an organization to update resource records.
5206	TIMS-5206: Please select an organization to add resource records.
5207	TIMS-5207: Template id is null.
6001	TIMS-6001: Please select a custom folder to modify.
6002	TIMS-6002: Please select a custom folder to delete.
6101	TIMS-6101: Invalid Product License. Please contact support.
6102	TIMS-6102: Product License expired. Please contact support.
6103	TIMS-6103: License is not valid for this appliance. Please update the license or contact TCPWave Customer Support for more information.
6104	TIMS-6104: Product License is missing. Please contact TCPWave Customer Support for more information.
6105	TIMS-6105: Object cannot be created as license limit of maximum objects, {0}, reached.
6106	TIMS-6106: Scope cannot be created as license limit of maximum objects, {0}, exceeds.
6107	TIMS-6107: Import failed as the license limit of maximum objects, {0}, exceeds.
6501	TIMS-6501: Invalid category.
6502	TIMS-6502: Invalid widget name.
6503	TIMS-6503: Invalid mask length.
7002	TIMS-7002: Permission information cannot be retrieved.
7003	TIMS-7003: The user is not authorized to perform this operation.
7004	TIMS-7004: Please select a DHCP Template.
7005	TIMS-7005: Please select the permissions to remove.
7006	TIMS-7006: Please select permissions to remove for the admin.
7007	TIMS-7007: The user is not authorized to access {0}.
7050	TIMS-7050: Configuration generation is not in progress.
7051	TIMS-7051: Configuration generation is already in progress.
7052	TIMS-7052: An unexpected problem has occurred while updating the configuration. Please check if the associated appliance is up and running.
7053	TIMS-7053: Failed to generate monitoring configurations.
7054	TIMS-7054: Successfully generated monitoring configurations.
7056	TIMS-7056: Monitoring Services updated successfully.
7701	TIMS-7701: This command can be executed only on a master appliance.
7702	TIMS-7702: This command cannot be executed on a slave appliance.
7777	TIMS-7777: Specified Asset already exists: {0}
7778	TIMS-7778: The Asset cannot be deleted as it is being referred from object(s): {0}
7779	TIMS-7779: Invalid Asset specified: {0}
7780	TIMS-7780: Please specify an Asset.
7781	TIMS-7781: The Asset serial number cannot be changed as it is being referred from object(s): {0}
7782	TIMS-7782: Serial number cannot be null.
7783	TIMS-7783: Subnet cannot be null.
7784	TIMS-7784: Please specify the desired subnet mask length.
7785	TIMS-7785: Next available subnet for desired mask does not exist.
7786	TIMS-7786: VPC does not exist" {0}.
7800	TIMS-7800: This action can impact system performance. Please try creating maximum of 6048 scopes in a single transaction.

Error Codes	
8000	TIMS-8000: Job Status information is not valid.
8001	TIMS-8001: JobId is null.
8002	TIMS-8002: Job Type is null.
8003	TIMS-8003: Job Data is null.
8004	TIMS-8004: Job Schedule Type is null.
8005	TIMS-8005: Job Start Date is null.
8006	TIMS-8006: Please select job run time.
8007	TIMS-8007: Job Id is empty.
8008	TIMS-8008: Job Data is empty.
8009	TIMS-8009: Job Type is empty.
8010	TIMS-8010: Job Schedule Type is empty.
8011	TIMS-8011: Job Execution Time is null.
8012	TIMS-8012: Job Status Execution Status is null.
8013	TIMS-8013: Scheduler connection error: {0}
8014	TIMS-8014: Job Id, {0} does not exist in the scheduler.
8015	TIMS-8015: Scheduler Internal Error.
8017	TIMS-8017: TCPWave IPAM Appliance Internal Error.
8018	TIMS-8018: TCPWave IPAM connection error.
8019	TIMS-8019: Operation is not specified for the scheduled job : {0}.
8020	TIMS-8020: Invalid operation {0} is specified for the scheduled job : {1}.
8021	TIMS-8021: Job handler is not defined for the scheduled job {0}.
8022	TIMS-8022: Please select a job to modify.
8023	TIMS-8023: Please select a job to delete.
8024	TIMS-8024: Please select job execution time.
8025	TIMS-8025: Please select day of the week for scheduling.
8026	TIMS-8026: Please select day of the month for scheduling.
8027	TIMS-8027: Please select job start date.
8028	TIMS-8028: Please select job repeat interval.
8029	TIMS-8029: Schedule operation {0} is not valid.
8030	TIMS-8030: Job execution time cannot be in the past.
8031	TIMS-8031: Job start time cannot be in the past.
8032	TIMS-8032: Job end time cannot be earlier than the start time.
8033	TIMS-8033: JobType, {0} is not valid.
8034	TIMS-8034: JobId is either null or empty.
8035	TIMS-8035: JobId cannot start with Rest_ or Patch_ and followed by digits.
8036	TIMS-8036: A Job with the same jobId already exists.
8037	TIMS-8037: file {0} does not exist.
8038	TIMS-8038: Handler for the event {0} is not implemented.
8039	TIMS-8039: Event handler class {0} is not implemented.
8040	TIMS-8040: Handler {0} is not a concrete implementation.
8041	TIMS-8041: Handler {0} does not have a no-arg constructor.
8042	TIMS-8042: Event handler is not defined correctly.
8043	TIMS-8043: {0} is not a regular file.
8044	TIMS-8044: {0} is not an executable file.
8045	TIMS-8045: Please enter a Job identifier.
8046	TIMS-8046: Please select the job type.
8047	TIMS-8047: Please enter the job data.
8048	TIMS-8048: Job scheduled status is null.
8050	TIMS-8050: TCPWave IPAM internal jobs cannot be deleted.

Error Codes	
8051	TIMS-8051: JobId {0} does not exist.
8052	TIMS-8052: Job will never get scheduled with current settings.
8053	TIMS-8053: The purge_days is null.
8054	TIMS-8054: Error during file add. Please check logs.
8055	TIMS-8055: Failed to modify file. Please try again.
8056	TIMS-8056: Failed to delete file. Please try again.
8057	TIMS-8057: JobId cannot be longer than 64 characters.
8058	TIMS-8058: Please enter a valid string for JobId. Accepted characters are a-z, A-Z, 0-9, and "_".
8059	TIMS-8059: Please select report start date.
8060	TIMS-8060: Please select report end date.
8061	TIMS-8061: Invalid Date. The date format should be : mm/dd/yyyy.
8062	TIMS-8062: Invalid month specified. The month value should be between 1 to 12.
8063	TIMS-8063: Invalid day specified. The day should be between 1 to 31, depending on the month selected.
8064	TIMS-8064: Invalid year specified.
8065	TIMS-8065: Please enter a valid date.
8066	TIMS-8066: Accepting discovered devices has failed. Please check the logs for more information.
8067	TIMS-8067: Please select a job to execute.
8068	TIMS-8068: {0} type jobs cannot be executed using this option.
8069	TIMS-8069: DNS Appliance name is not specified for the sync operation.
8070	TIMS-8070: DHCP Appliance name is not specified for the sync operation.
8071	TIMS-8071: The IP Address {0} is defined in two or more organizations. Please choose a different IP Address.
8072	TIMS-8072: {0} is null.
8073	TIMS-8073: An incorrect value, {0} is specified for {1}.
8074	TIMS-8074: {0} job is in paused state. Please resume the job before executing it.
8075	TIMS-8075: {0} job is already in {1} state.
8076	TIMS-8076: {0} job is already {1} type of job.
8080	TIMS-8080: Cannot change appliance type of BIND AUTH as it is used by one or more zones as Master/Slave.
8085	TIMS-8085: Cannot change appliance type of BIND AUTH as it is used by one or more zones as Master.
8086	TIMS-8086: Cannot change appliance type of NSD to {0} as it is used by one or more zones as Slave.
8087	TIMS-8087: Cannot change the DNS Appliance to stealth as it is defined as a slave appliance in one or more zone templates.
8088	TIMS-8088: Cannot change the DNS Appliance to stealth as it is defined as a master appliance in root zone.
8089	TIMS-8089: Cannot change the DNS Appliance to stealth as it is defined as a master appliance in zone template and it doesn't have any slave appliances associated.
8101	TIMS-8101: Service to restart jetty server is not defined.
8102	TIMS-8102: Appliance address is empty.
8103	TIMS-8103: Service to update the client address for AMQ is not defined.
8121	TIMS-8121: Appliance Type cannot be modified as it is used by Proxy Root Zone.
8201	TIMS-8201: Package name is null.
8202	TIMS-8202: Major version is null.
8203	TIMS-8203: Minor version is null.
8204	TIMS-8204: Checksum is null.
8205	TIMS-8205: Package name is empty.
8206	TIMS-8206: Patch name is null.

Error Codes	
8207	TIMS-8207: Patch level is null.
8208	TIMS-8208: Patch package_id is null.
8211	TIMS-8211: Patch name is empty.
8212	TIMS-8212: Appliance Id is null.
8215	TIMS-8215: Appliance name is null.
8220	TIMS-8220: Patch extraction error : {0}
8221	TIMS-8221: Package name is not specified in the metadata file.
8222	TIMS-8222: Checksum is not specified in the metadata file.
8223	TIMS-8223: Patch files extraction from {0} failed.
8224	TIMS-8224: Please select a package to delete.
8225	TIMS-8225: Metadata file does not exist in {0}
8226	TIMS-8226: The install file {0} does not exist in the zip file.
8227	TIMS-8227: Patch is not approved by TCPWave. Please contact the TCPWave customer service.
8228	TIMS-8228: The file type is not valid.
8229	TIMS-8229: Size of the rpm file is null.
8230	TIMS-8230: Appliance type is null.
8231	TIMS-8231: Install file name is not specified in the metadata file.
8232	TIMS-8232: Package does not exist.
8233	TIMS-8233: Package zip file name is null.
8234	TIMS-8234: Patch zip file name is null.
8235	TIMS-8235: Package {0} is not present in the repository.
8236	TIMS-8236: IPAM patch repository {0} does not exist.
8237	TIMS-8237: Error while publishing the patch :{0}
8238	TIMS-8238: Installation image checksum validation failed.
8239	TIMS-8239: Installation image size validation failed.
8240	TIMS-8240: Size of the install image is not specified in the metadata file.
8241	TIMS-8241: Please select a patch to deploy.
8242	TIMS-8242: Deployment of this patch is already in progress.
8243	TIMS-8243: Patch is already deployed to this appliance.
8244	TIMS-8244: Patch is already scheduled for deployment.
8245	TIMS-8245: Patch cannot be rolled back as it is not deployed on the appliance.
8246	TIMS-8246: Please select schedule time.
8247	TIMS-8247: Patch is either not validated or validation has failed.
8248	TIMS-8248: Patch delete failed : {0}
8249	TIMS-8249: Time stamp is null.
8251	TIMS-8251: JobId is null.
8252	TIMS-8252: Patch deployment schedule status update failed : {0}
8253	TIMS-8253: Patch roll back scheduled status update failed : {0}
8254	TIMS-8254: Please select an appliance to deploy.
8255	TIMS-8255: Please select an appliance to roll back from.
8256	TIMS-8256: Please select a patch to roll back.
8257	TIMS-8257: Patch job cannot be scheduled as a repetitive operation.
8260	TIMS-8260: Patch Level is not specified in the metadata file.
8261	TIMS-8261: Patch Name is not specified in the metadata file.
8262	TIMS-8262: Patch level is not set correctly in the metadata file.
8263	TIMS-8263: Patch rollback failed. Error
8264	TIMS-8264: Required package for the patch is not deployed.
8265	TIMS-8265: Patch does not exist in the database.

{0}.



Error Codes	
8266	TIMS-8266: Patch cannot be deployed as the prerequisite patches are not deployed.
8267	TIMS-8267: Patch cannot be rolled back as other deployed patches depend on it.
8268	TIMS-8268: Appliance IP address is null.
8269	TIMS-8269: Schedule time cannot be in the past.
8270	TIMS-8270: The installation image size validation failed : {0}
8271	TIMS-8271: Package is currently installed on appliance(s).
8272	TIMS-8272: There are uploaded patches which depend on this package.
8273	TIMS-8273: Patch is currently installed on other appliance(s).
8274	TIMS-8274: Other patches depend on this patch.
8275	TIMS-8275: Please select at least one appliance type.
8276	TIMS-8276: Please select at least one appliance.
8277	TIMS-8277: Package already exists or failed to add.
8278	TIMS-8278: Patch modify failed.
8279	TIMS-8279: Patch delete failed.
8280	TIMS-8280: Please select a patch.
8281	TIMS-8281: Please select a patch to show history.
8282	TIMS-8282: Please select at least one appliance to delete.
8283	TIMS-8283: Please select at least one appliance to add.
8284	TIMS-8284: Target update file is not specified in the meta-data file.
8285	TIMS-8285: Install method specified is not correct : {0}
8286	TIMS-8286: An error occurred while patching the target file : {0}
8287	TIMS-8287: An error occurred while adding the patch to the repository : {0}
8288	TIMS-8288: Patch version numbers don't match with the Appliance Version.
8289	TIMS-8289: Package type patch is not supported.
8290	TIMS-8290: Patch rollback operation is in progress. Please wait until it is finished.
8291	TIMS-8291: Patch rollback operation is scheduled. Please wait until it is completed.
8292	TIMS-8292: Deployment of this patch is in progress. Please wait until it is finished.
8293	TIMS-8293: Patch deployment operation is scheduled. Please wait until it is completed.
8294	TIMS-8294: Secure communication between IPAM and remote appliance is currently not functioning. Please ensure that the remote appliance is operational and check if a firewall is blocking the communication.
8295	TIMS-8295: Patch deployment failed. Error : {0}
8296	TIMS-8296: Patch {0} depends on this patch. Therefore, this patch cannot be rolled back.
8297	TIMS-8297: The version information for the current IPAM server is not available.
8298	TIMS-8298: Please upload a valid zip file.
8299	TIMS-8299: The uploaded zip file does not contain the csv files with the pre defined names for organization import. Please refer the help section to know about the naming convention of the csv files.
8300	TIMS-8300: Please upload a valid csv or txt file.
8301	TIMS-8301: {0}
8302	TIMS-8302: Scheduled job does not exist: {0}
8303	TIMS-8303: Certificate get list failed : {0}
8304	TIMS-8304: Certificate is not valid : {0}
8305	TIMS-8305: Certificate delete operation failed : {0}
8306	TIMS-8306: Please select a certificate to delete.
8307	TIMS-8307: This certificate cannot be deleted as it is the only certificate in the keystore with private key.

Error Codes	
8308	TIMS-8308: An error occurred while changing the certificate store password : {0}
8309	TIMS-8309: Keystore is not valid : {0}
8310	TIMS-8310: The keystore is empty.
8311	TIMS-8311: There are more than one certificate in the keystore.
8312	TIMS-8312: The keystore does not exist : {0}
8313	TIMS-8313: An error occurred while publishing the certificate to remote systems : {0}
8314	TIMS-8314: Please select a certificate to publish to remote systems.
8315	TIMS-8315: An error occurred while reading the keystore file: {0}
8316	TIMS-8316: Please enter Message Certificate KeyStorage Password.
8317	TIMS-8317: Please enter Certificate file.
8318	TIMS-8318: Please enter Certificate Keystore file.
8319	TIMS-8319: Please enter Certificate Keystore Password.
8320	TIMS-8320: Certificate delete operation failed. Please retry with the correct password. Please contact TCPWave Customer Support if additional assistance is required.
8321	TIMS-8321: Certificate delete operation has failed. Please check the TCPWave IPAM WebServer Log for more information or contact TCPWave Customer Support if additional assistance is required.
8322	TIMS-8322: Certificate import operation failed. Please retry with the correct password. Please contact TCPWave Customer Support if additional assistance is required.
8323	TIMS-8323: Certificate import operation has failed. Please check the TCPWave IPAM WebServer Log for more information or contact TCPWave Customer Support if additional assistance is required.
8324	TIMS-8324: Certificate import operation failed. Please retry with the correct Private Key file. Please check the log file for more information or contact TCPWave Customer Support if additional assistance is required.
8325	TIMS-8325: Keystore validation has failed. Please check the TCPWave IPAM WebServer Log for more information or contact TCPWave Customer Support if additional assistance is required.
8326	TIMS-8326: Keystore validation operation failed. Please retry with the correct password. Please contact TCPWave Customer Support if additional assistance is required.
8327	TIMS-8327: Keystore password change operation failed. Please retry with the correct password. Please contact TCPWave Customer Support if additional assistance is required.
8328	TIMS-8328: Keystore password change operation has failed. Please check the TCPWave IPAM WebServer Log for more information or contact TCPWave Customer Support if additional assistance is required.
8329	TIMS-8329: Mandatory certificate {0} cannot be deleted.
8330	TIMS-8330: Certificate Keystore password cannot be null or empty.
8331	TIMS-8331: Certificate Keystore password should contain at least one letter, one number and one of the special characters !@#%\$.
8332	TIMS-8332: Certificate keystore password should be at least {0} characters long.
8333	TIMS-8333: Certificate has already expired.
8334	TIMS-8334: Certificate is not valid yet.
8336	TIMS-8336: Private Key password should contain at least one letter, one number and one of the special characters !@#%\$.
8337	TIMS-8337: Private key password should be at least {0} characters long.
8338	TIMS-8338: Alarm Subscription does not exist.
8339	TIMS-8339: Alarm Component type does not exist.
8340	TIMS-8340: Monitoring threshold does not exist.
8341	TIMS-8341: Invalid Level name: {0}. Level should be specified either as appliance or appliance_group.
8342	TIMS-8342: Level name cannot be null. It should be specified either as appliance or appliance_group.
8343	TIMS-8343: There are no {0} appliances associated with any Appliance Group.

Error Codes	
8401	TIMS-8401: Bit Mask should be at least 8.
8402	TIMS-8402: Bit Mask should be at least 16.
8403	TIMS-8403: Bit Mask should be at least 24.
8501	TIMS-8501: Please enter a valid file path.
8502	TIMS-8502: Please enter a valid named pipe path.
8503	TIMS-8503: Please enter a valid list of user names separated by commas.
8504	TIMS-8504: Please enter a valid IP address.
8505	TIMS-8505: Please add at least one message type to log.
8506	TIMS-8506: Please select at least one facility.
8601	TIMS-8601: Configuration type is null.
8602	TIMS-8602: Configuration type is empty.
8603	TIMS-8603: Configuration type does not exist : {0}
8604	TIMS-8604: Appliance type is null.
8605	TIMS-8605: Appliance type is empty.
8606	TIMS-8606: Log name is null.
8607	TIMS-8607: Log name is empty.
8608	TIMS-8608: {0} log does not exist for {1} appliance type.
8609	TIMS-8609: Configuration type is either null or empty.
8610	TIMS-8610: Appliance type is either null or empty.
8611	TIMS-8611: Please configure the Central Logging on the IPAM appliance before enabling the Central logging on the remote appliance.
8612	TIMS-8612: Central Logging feature is not implemented.
8613	TIMS-8613: Failed to enable the central logging for the DHCP Appliance. Please check if the associated appliance is up and running.
8614	TIMS-8614: Failed to enable the central logging for the DNS Appliance. Please check if the associated appliance is up and running.
8615	TIMS-8615: Appliance type {0} is not valid.
8616	TIMS-8616: Central Configuration is null.
8617	TIMS-8617: Central Configuration is not valid.
8618	TIMS-8618: Central Appliance Configuration is null.
8619	TIMS-8619: Central Appliance configuration setting options is not valid.
8620	TIMS-8620: Appliance address {0} is not valid.
8700	TIMS-8700: VRF with this name already exists in the specified organization. Please try with a different name.
8701	TIMS-8701: VRF with this name does not exist in the specified organization.
8702	TIMS-8702: VRF cannot be deleted as it is associated with one or more subnet(s).
8703	TIMS-8703: VRF does not exist: {0} {1}
8704	TIMS-8704: VRF cannot be deleted as it is associated with one or more network(s).
8800	TIMS-8800: The RPZ Policy file name is null.
8801	TIMS-8801: Please select a policy rule to update.
8802	TIMS-8802: Please select a policy rule to delete.
8803	TIMS-8803: Please select a policy file to delete.
8804	TIMS-8804: Please select a policy file to update.
8805	TIMS-8805: Please select a policy file to download.
8806	TIMS-8806: Only one policy rule can be updated at a time.
8807	TIMS-8807: Policy file is not valid.
8808	TIMS-8808: Please enter a policy file.
8809	TIMS-8809: Policy trigger is either null empty.
8810	TIMS-8810: RPZ Policy trigger {0} is not valid.
8811	TIMS-8811: RPZ Policy rr {0} is not valid.

Error Codes	
8812	TIMS-8812: RPZ Policy rh value {0} is not valid.
8813	TIMS-8813: Policy file name is either null or empty.
8814	TIMS-8814: Policy file name {0} is not valid.
8815	TIMS-8815: Policy file {0} does not exist.
8816	TIMS-8816: Policy file {0} is being used by template {1}. Therefore, it cannot be deleted.
8817	TIMS-8817: An error has occurred while deleting the RPZ policy file {0}.
8818	TIMS-8818: An error occurred while retrieving the policy file {0}.
8819	TIMS-8819: An RPZ policy file update is already in progress by {0}. Please try again later.
8820	TIMS-8820: RPZ Policy file name is not valid.
8821	TIMS-8821: RPZ Template name {0} is not valid.
8822	TIMS-8822: RPZ Zone name {0} is not valid.
8823	TIMS-8823: RPZ Server Key name {0} is not valid.
8824	TIMS-8824: RPZ Server Key value {0} is not valid.
8825	TIMS-8825: RPZ Template is null.
8826	TIMS-8826: RPZ Zone name is either null or empty.
8827	TIMS-8827: RPZ Template name is either null or empty.
8828	TIMS-8828: RPZ Server Key name is either null or empty.
8829	TIMS-8829: RPZ Server Key value is either null or empty.
8830	TIMS-8830: Please enter a name for the template.
8831	TIMS-8831: Please enter Zone name.
8832	TIMS-8832: Please enter an appliance IP.
8833	TIMS-8833: Please enter Communication Key Name.
8834	TIMS-8834: Please enter a value for Communication Key.
8835	TIMS-8835: Please enter Policy file.
8836	TIMS-8836: Invalid information.Please add comma separated values in the order ,,,
8901	TIMS-8901: Replication user password is either null or empty.
8902	TIMS-8902: The Secondary Appliance Database is down.
8903	TIMS-8903: The Secondary Appliance IPAM Service is down.
8904	TIMS-8904: The service request pay load is either empty or null.
8905	TIMS-8905: Port {0} is already in use. Please select a different port.
9004	TIMS-9004: Age of the audit entries to keep is less than 0.
9005	TIMS-9005: The delimiting time is null.
9006	TIMS-9006: Failed to create {0}
9007	TIMS-9007: Age of the audit entries to preserve is not defined.
9008	TIMS-9008: {0} as disk utilization is more than 90%. Current disk utilization is {1}.
9101	TIMS-9101: An error has occurred while restoring database. Please check the TCPWave IPAM WebServer Log for details.
9212	TIMS-9212: A sync is currently in progress initiated by {0} from {1}. Please wait until it is completed.
9213	TIMS-9213: A download config is currently in progress initiated by {0} from {1}. Please wait until it is completed.
9214	TIMS-9214: Integrity checks of the DNS configuration files is OK but the remote: {0} encountered an error. Please verify the monitoring alerts and the remote's DNS Logs. Contact customer support if additional assistance is required.
9215	TIMS-9215: A DNS config update is currently in progress initiated by {0} from {1}. Please wait until it is completed.
9250	TIMS-9250: Internal User cannot be modified, cloned or deleted.
9251	TIMS-9251: Internal User twcadm cannot be cloned or deleted.
9252	TIMS-9252: Multiple FADM users are not supported.

Error Codes	
9253	TIMS-9253: Multiple FADM users are present. Please delete all FADM users other than system and twcadm and retry.
9254	TIMS-9254: Functional Admin access is disabled.
9300	TIMS-9300: Please select a single contact to modify.
9301	TIMS-9301: Please select a contact to modify.
9302	TIMS-9302: Please select a contact to delete.
9303	TIMS-9303: Please select schedule run time.
9304	TIMS-9304: Please select at least one Admin.
9305	TIMS-9305: Please select a single admin to modify.
9306	TIMS-9306: Please select an admin to modify.
9307	TIMS-9307: Please select a single admin to clone.
9308	TIMS-9308: Please select an admin to clone.
9309	TIMS-9309: Please select a single admin to change password.
9310	TIMS-9310: Please select an admin to unlock/change password.
9311	TIMS-9311: Please select an admin to delete.
9312	TIMS-9312: Current selection exceeds the allowable Email size. Please modify your criteria or use CSV file download.
9313	TIMS-9313: Current selection exceeds the allowable PDF rows limit than the global option default page rows. Please modify your criteria or use CSV file download.
9314	TIMS-9314: Export to CSV failed.
9315	TIMS-9315: Please select at least one contact.
9316	TIMS-9316: The specified IP address does not exist.
9317	TIMS-9317: Contact id {0} does not exist.
9318	TIMS-9318: The Contact cannot be deleted as it is being referred from object(s): {0}
9319	TIMS-9319: There is no data in the input audit backup file.
9401	TIMS-9401: Both Provider Type name and id cannot be null.
9402	TIMS-9402: Provider Type name is not valid : {0}
9403	TIMS-9403: Provider Type id is not valid : {0}
9404	TIMS-9404: Provider Type name is null.
9405	TIMS-9405: Provider Type already exists: {0}
9406	TIMS-9406: Both Provider name and id cannot be null.
9407	TIMS-9407: Provider name is not valid: {0}
9408	TIMS-9408: Provider id is not valid: {0}
9409	TIMS-9409: Provider name already exists: {0}
9410	TIMS-9410: Provider name is missing.
9411	TIMS-9411: Both Provider id and Zone Template id are null.
9412	TIMS-9412: Provider name or Zone Template name is not valid.
9413	TIMS-9413: Provider new name is missing.
9414	TIMS-9414: Provider name is null.
9415	TIMS-9415: Provider is used in zone template(s). Please dissociate those template(s) from the provider and try again.
9416	TIMS-9416: Please select a zone template to dissociate.
9417	TIMS-9417: Please select a provider to modify.
9418	TIMS-9418: Please select a Provider to delete.
9419	TIMS-9419: Please enter the application name.
9420	TIMS-9420: Cloud Provider cannot be deleted as it is associated with one more subnet(s).
9421	TIMS-9421: There is no object associated with the IP address {0} .
9422	TIMS-9422: The image {0} is not valid.
9423	TIMS-9423: Cloud Provider Name cannot be null.
9424	TIMS-9424: Cloud Provider does not belong to the organization of the user.

Error Codes	
9425	TIMS-9425: Both cloud instance template name and ID cannot be null.
9426	TIMS-9426: Cloud instance template does not exist: {0}
9427	TIMS-9427: Cloud instance template id is not valid: {0}
9428	TIMS-9428: Cloud Instance template already exists: {0}
9429	TIMS-9429: Cloud instance template cannot be deleted as it is associated with existing cloud instance objects.
9430	TIMS-9430: Cloud provider does not exist.
9431	TIMS-9431: Cloud instance does not exist.
9432	TIMS-9432: Region is mandatory to create an AWS cloud provider.
9433	TIMS-9433: The AWS image cannot be deleted as it is used in the AWS Instance Provisioning Template.
9492	TIMS-9492: Please select a storage to delete.
9493	TIMS-9493: Please select a Tag to delete.
9494	TIMS-9494: Please enter User.
9495	TIMS-9495: Please enter Password.
9496	TIMS-9496: Please enter Customer Name.
9497	TIMS-9497: Please enter Account.
9498	TIMS-9498: Please enter URI.
9499	TIMS-9499: Please enter API Key.
9500	TIMS-9500: Please enter Credentials.
9501	TIMS-9501: Please enter values for the mandatory fields.
9502	TIMS-9502: There is no failover appliance defined. So, cannot initiate the failover.
9503	TIMS-9503: The {0} appliance {1} did not respond for license update. Please check if the associated appliance is up and running.
9504	TIMS-9504: License update has failed for the {0} appliance {1}. Please enter a valid license key.
9505	TIMS-9505: Please reset the DR configuration before updating with new configuration.
9506	TIMS-9506: The Master Appliance IP is either null or empty.
9507	TIMS-9507: The DR configuration can be reset from the Master IPAM Appliance only.
9508	TIMS-9508: The DR can be configured from the Master IPAM Appliance only.
9509	TIMS-9509: The sync operation is in progress. Please try later.
9510	TIMS-9510: The failover operation is already in progress.
9511	TIMS-9511: A DR activity is already in progress.
9512	TIMS-9512: A DR activity is in progress.
9513	TIMS-9513: The master and slave appliances are same.
9514	TIMS-9514: If search string contains one of these special characters + - &   ! ( ) { } [ ] ^ " ~ * ? : \\. please escape such character by placing \\ before the character.
9515	TIMS-9515: The backup {0} has been taken in {1} mode. Currently the system is in {2} mode so restoration of database can not be performed.
9516	TIMS-9516: The backup {0} has been taken at patch level {1}. Currently the system is at level {2}. There are database related changes in between patches so restoration of database can not be performed.
9517	TIMS-9517: The backup {0} has been taken in high availability configuration mode with {1} nodes ( {2} ). Currently the system is in high availability configuration mode with {3} nodes ( {4} ) so restoration of database can not be performed.
9518	TIMS-9518: The backup {0} has been taken in disaster recovery configuration mode with master {1} and slave {2}. Currently the system is in disaster recovery configuration mode with master {3} and slave {4} so restoration of database can not be performed.
9519	TIMS-9519: The database can not be restored as the backup {0} has been taken at the patch level {1} where as the current the patch level is {2} which has database schema changes.
9520	TIMS-9520: The input argument is null for DR Configure service call.

Error Codes	
9521	TIMS-9521: The Slave Appliance IP is either null or empty.
9522	TIMS-9522: The Master Appliance Port is either null or empty.
9523	TIMS-9523: The Slave Appliance Port is either null or empty.
9524	TIMS-9524: The Master Appliance address {0} is not valid.
9525	TIMS-9525: The Slave Appliance address {0} is not valid.
9526	TIMS-9526: Disaster Recovery(DR) is already configured.
9527	TIMS-9527: IPAM Appliance {0} is not compatible. Please check it's version.
9528	TIMS-9528: FADM user only can configure the Disaster Recovery setup.
9529	TIMS-9529: Disaster Recovery(DR) is not configured in this appliance's environment.
9550	TIMS-9550: Please ensure that bucket name has been configured in global options and it exists in AWS S3.
9551	TIMS-9551: Global option does not exist : AWS_S3_BUCKET_NAME.
9552	TIMS-9552: Unable to locate AWS S3 CLI credentials. Please configure the AWS CLI credentials.
9553	TIMS-9553: Bucket does not exist : {0}
9554	TIMS-9554: Failed to dump the database.
9555	TIMS-9555: Error occurred while making tar.gz file of database snapshots.
9556	TIMS-9556: Error occurred while uploading tar.gz file to AWS S3.
9557	TIMS-9557: DNS View is disabled in the TCPWave IPAM.
9558	TIMS-9558: AWS Machine Image ID does not exist.
9559	TIMS-9559: Maximum number of tags allowed is 50. Please delete a Tag to add a new one.
9560	TIMS-9560: {0} tag already exists.
9561	TIMS-9561: Existing owner of the resource record cannot be null.
9562	TIMS-9562: Resource record type cannot be null.
9563	TIMS-9563: Invalid Resource record type.
9564	TIMS-9564: Existing data of the resource record cannot be null.
9565	TIMS-9565: Checkout group name cannot be null.
9566	TIMS-9566: Checkout Group name does not exist.
9567	TIMS-9567: Checkout policy name cannot be null.
9568	TIMS-9568: Checkout Policy name does not exist.
9569	TIMS-9569: Checkout Baseline operation is not applicable for specified policy.
9570	TIMS-9570: Invalid Checkout ID.
9571	TIMS-9571: Resource record cannot be null.
9572	TIMS-9572: Resource record with type:{0} and owner:{1} does not exist.
9573	TIMS-9573: Baseline operation cannot be performed as the actual value cannot be found.
9574	TIMS-9574: Database backup is in progress. Please try later.
9575	TIMS-9575: Database backup is in progress. Hence, incremental backup is not performed.
9576	TIMS-9576: Database initialization snapshot cannot be deleted.
9577	TIMS-9577: DNS Flatten record does not exist.
9578	TIMS-9578: DNS Flatten record already exist.
9579	TIMS-9579: DNS Proxy Root Zone does not exist in the selected organization.
9581	TIMS-9581: Contingency Service with specified CNAME already exist.
9582	TIMS-9582: The Zone delete operation has failed because of references in the contingency service definitions.
9583	TIMS-9583: CNAME resource record with owner: {0} already exist.
9584	TIMS-9584: Resource record with type:{0}, owner:{1} and data:{2} already exists.
9585	TIMS-9585: DNS Flatten CNAME zone:{0} does not exist.

Error Codes	
9586	TIMS-9586: DNS Flatten CNAME record cannot be deleted as there are one or more Zone Normal RRs are defined with the zone name: {0}.
9600	TIMS-9600: Extension already exists.
9601	TIMS-9601: Invalid Extension Type specified.
9602	TIMS-9602: Low value should be less than or equal to the High value.
9603	TIMS-9603: Invalid Entity specified.
9604	TIMS-9604: Specified Extension does not exist.
9605	TIMS-9605: Please select an Extension to delete.
9606	TIMS-9606: Please select an Extension to modify.
9607	TIMS-9607: Invalid input specified.
9608	TIMS-9608: Invalid parameter {0} specified for the {1} Option Template.
9609	TIMS-9609: Invalid data specified for the parameter {0}, valid data is {1}.
9610	TIMS-9610: Prefix:{0} and Suffix:{1} combination already exists.
9611	TIMS-9611: Please select a valid value for the List type extension.
9701	TIMS-9701: Please enter a valid name: {0}.
9702	TIMS-9702: Please enter a valid value: {0}.
9703	TIMS-9703: Please enter a valid owner name: {0}.
9704	TIMS-9704: The owner name: {0} that you have entered violates the IPAM Host Naming Convention. Please choose a non-business offensive name.
9705	TIMS-9705: The object name:{0} that you have entered violates the IPAM Host Naming Convention. Please choose a non-business offensive name.
9706	TIMS-9706: Policy Name: {0} already exists.
9707	TIMS-9707: Policy Name: {0} does not exist.
9708	TIMS-9708: The domain name: {0} that you have entered violates the IPAM Host Naming Convention. Please choose a non-business offensive name.
9709	TIMS-9709: The zone name: {0} that you have entered violates the IPAM Host Naming Convention. Please choose a non-business offensive name.
9710	TIMS-9710: The alias name:{0} that you have entered violates the IPAM Host Naming Convention. Please choose a non-business offensive name.
9720	TIMS-9720: selected policy(ies) does not exist.
9730	TIMS-9730: Please select a single appliance to delete.
9731	TIMS-9731: Host name already exists with a name: {0}.
9732	TIMS-9732: Host name cannot be null.
9733	TIMS-9733: Domain name cannot be null.
9741	TIMS-9741: DNS View cannot be deleted as it is associated with one or more zone(s).
9800	TIMS-9800: The object cannot be moved as an object with the specified destination address: {0} already exists. Please delete the object or enter another unallocated object.
9801	TIMS-9801: The object cannot be moved as it is a DHCP object.
9802	TIMS-9802: The object with object type: {0} cannot be moved.
9803	TIMS-9803: The object: {0} cannot be moved as it is referenced in ACL definitions.
9804	TIMS-9804: The object: {0} cannot be moved as it is referenced in DHCP templates.
9805	TIMS-9805: The object: {0} cannot be moved as duplicate object definitions found with the specified destination object: {1}
9806	TIMS-9806: The object: {0} cannot be moved as the destination object does not exist.
9807	TIMS-9807: The object cannot be moved as the object: {0} does not exist.
9808	TIMS-9808: The object: {0} cannot be moved as it's MAC Address matches with the MAC address of the object: {1}.
9809	TIMS-9809: Cannot move object as an alias to itself.
10000	TIMS-10000: There is no IPV4 DHCP Appliance defined with the address specified.
10001	TIMS-10001: There is no IPV4 Object defined with the address specified.



Error Codes	
10002	TIMS-10002: There is already a DHCP Appliance that is associated with this IPv4 DHCP Appliance. Please choose a different address.
10100	TIMS-10100: A DNS View with this name already exists: {0}
10101	TIMS-10101: Both algorithm id and algorithm code cannot be null.
10102	TIMS-10102: Both view id and view name cannot be null.
10103	TIMS-10103: DNS View does not exist for name: {0}
10104	TIMS-10104: DNS View cannot be deleted as it is associated with one more appliance(s).
10105	TIMS-10105: DNS View cannot be created with name 'Default'. 'Default' is a reserved view.
10106	TIMS-10106: 'Default' DNS View cannot be modified.
10107	TIMS-10107: 'Default' DNS View cannot be deleted.
10108	TIMS-10108: DNS View cannot be deleted from the appliance as one or more zone(s) are associated with this view.
10109	TIMS-10109: One or more resource records are associated with the view that are not associated to the zone.
10110	TIMS-10110: Both Match Client and Match Destination cannot be empty.
10111	TIMS-10111: DNS View cannot be deleted as it is associated with one or more object(s).
10112	TIMS-10112: DNS View cannot be deleted as it is associated with one or more subnet(s) or resource record(s).
10113	TIMS-10113: The selected template does not have the views managed by this zone.
10114	TIMS-10114: Primary domain cannot be changed as it is associated with one or more object(s) with its view.
10115	TIMS-10115: DNS View cannot have values for Match Clients and Match Destinations to coexist. They are mutually exclusive.
10116	TIMS-10116: Selected Master/Slave appliance does not contain any common DNS Views as that of Master/Slave appliances.
10117	TIMS-10117: DNS64 Prefix cannot be deleted as it is associated with one more appliance(s).
10118	TIMS-10118: A DNS64 Prefix with this name already exists: {0}
10119	TIMS-10119: Please enter the values for Match Clients or Match Destinations.
10120	TIMS-10120: Domain Controllers cannot be added/deleted as the zone {0} is not active directory enabled.
10121	TIMS-10121: Domain Controller {0} already exists for the zone {1}.
10122	TIMS-10122: Domain Controller {0} does not exist for the zone {1}.
10123	TIMS-10123: Match Clients cannot have null or empty value.
10124	TIMS-10124: Match Destinations cannot have null or empty value.
10125	TIMS-10125: Domain Controllers cannot be deleted as the zone {0} is active directory enabled and atleast one Domain Controller is required.
11007	TIMS-11007: Invalid DNS view name : {0}
11008	TIMS-11008: DNS view {0} is not associated with DNS zone {1}
11009	TIMS-11009: DNS view {0} is not associated with subnet.
11011	TIMS-11011: Prefix field cannot be null.
11012	TIMS-11012: Suffix field cannot be null.
11013	TIMS-11013: Invalid Initial sequence number specified, valid values are 1 to 99999.
11014	TIMS-11014: Prefix-Zeros should be 'yes' or 'no'.
11015	TIMS-11015: Please enter a valid Object type.
11016	TIMS-11016: Please enter a valid Prefix/Suffix.
11017	TIMS-11017: Object Type cannot be null.
11018	TIMS-11018: Sequence number of the selected Object Type has reached its limit, please choose another Object type.
11019	TIMS-11019: Description field cannot be Null.

Error Codes	
11020	TIMS-11020: Auto Generate Host Name is disabled, please enable and try again.
11030	TIMS-11030: Policy Name field cannot be null.
11031	TIMS-11031: Policy Value field cannot be null.
11032	TIMS-11032: Policy Type field cannot be null.
11033	TIMS-11033: Policy Description cannot be null.
11034	TIMS-11034: Policy value is invalid.
11035	TIMS-11035: Allow Dotted Host Names global options is set to NO, please enter object name without (.dot).
11037	TIMS-11037: Please select a single appliance to download the configuration.
11038	TIMS-11038: Please select a single appliance to synchronize the configuration.
11040	TIMS-11040: Please select only one appliance to get the options.
11041	TIMS-11041: Policy type should be "RegEx" or "Contains".
11042	TIMS-11042: Selected View: {0} is not defined in the organization: {1}. Please refresh the page to get the available views.
11043	TIMS-11043: Subnet: {0} does not exist in the organization: {1}.
11044	TIMS-11044: Name cannot be null for IDN converter.
11045	TIMS-11045: Network Mask cannot be null.
11047	TIMS-11047: Invalid domain name specified in IDN field.
11050	TIMS-11050: Invalid subnet type specified.
11051	TIMS-11051: Invalid allocation type specified for address range {0}.
11052	TIMS-11052: Invalid DHCP class specified for address range {0}.
11053	TIMS-11053: Invalid permission value specified for DHCP class.
11054	TIMS-11054: Invalid lease time value specified.
11055	TIMS-11055: DHCP server not specified.
11056	TIMS-11056: Invalid DHCP server {0} specified.
11057	TIMS-11057: Subnet template name not specified.
11058	TIMS-11058: Invalid address range {0} specified.
11059	TIMS-11059: Router address clashes with the range {0}.
11060	TIMS-11060: Invalid values specified for the static address range {0}.
11061	TIMS-11061: Required values missing for the dynamic range {0}.
11062	TIMS-11062: Same DHCP class is specified in the allow and deny list for the address range {0}.
11063	TIMS-11063: Dynamic address range {0} defined for a non DHCP enabled subnet.
11064	TIMS-11064: Invalid value specified for primary router option.
12001	TIMS-12001: One or more Objects in the Subnet(s):{0} are associated to Cloud Instances. Please delete those objects before deleting Subnet(s).
12002	TIMS-12002: One or more Objects in this Network are associated to Cloud Instances. Please delete those objects before deleting Network.
12003	TIMS-12003: ACL Name cannot be Null.
12004	TIMS-12004: ACL Reference(s) not found.
12005	TIMS-12005: The Root device cannot be deleted.
12010	TIMS-12010: Old and new passwords are same.
12011	TIMS-12011: Please choose an Organization.
12012	TIMS-12012: Please select an object type to auto generate a name.
12013	TIMS-12013: Auto Host Naming Policy is disabled. Please enable it to Auto generate object name.
12014	TIMS-12014: Auto hostname for the selected Object type is already generated, please select another object type.
12015	TIMS-12015: Root zone is already enabled for this organization.
12016	TIMS-12016: Root zone is already disabled for this organization.
12017	TIMS-12017: Please select an Organization to bookmark.

Error Codes	
12018	TIMS-12018: The bookmark limit has reached the maximum value. Please delete existing bookmarks or increase the maximum limit of Global option.
12019	TIMS-12019: Standard object Types cannot be modified.
12020	TIMS-12020: Subnet address cannot be null.
12030	TIMS-12030: CNAME does not refer to a valid AAAA record.
12031	TIMS-12031: No AAAA record found for given owner name: Please enter a valid AAAA record name.
12032	TIMS-12032: AAAA or CNAME "{0}" record already exists for an Object: {1}.
12033	TIMS-12033: AAAA or CNAME {0} record already exists in Zone: {1}.
12034	TIMS-12034: Owner name does not point to a valid AAAA record.
12035	TIMS-12035: No AAAA record found for given owner/mail server/data: {0} Please enter a valid AAAA record name
12040	TIMS-12040: Object Allocation Type cannot be changed to Manual DHCP or Dynamic DHCP as Resource Records are present for this object.
12041	TIMS-12041: Resource Records cannot be added to Objects of allocation type Manual DHCP or Dynamic DHCP.
12042	TIMS-12042: Failed to {0} {1}. Please try again later.
12043	TIMS-12043: DHCP class name is missing.
12044	TIMS-12044: DHCP Fingerprint Information is not available for this object.
12045	TIMS-12045: The zone {0} is not hosted on any authoritative DNS appliances managed by the TCPWave IPAM.
12046	TIMS-12046: The reverse zone {0} is not hosted on any authoritative DNS appliances managed by the TCPWave IPAM.
12047	TIMS-12047: The DHCP Peer name needs to be unique.
12048	TIMS-12048: The DHCP Peer cannot have the same server as both primary and secondary.
12049	TIMS-12049: Please enter all the mandatory values for the DHCP Failover Configuration.
12050	TIMS-12050: Both Zone id and Zone name cannot be null.
12051	TIMS-12051: A resource record or object with the name: {0} already exists.
12052	TIMS-12052: The name: {0} conflicts with an existing Mirrored Zone.
12053	TIMS-12053: The DHCP Failover peer cannot be deleted as it is associated to one or more subnets.
12054	TIMS-12054: The DHCP Failover peer with name: "{0}" does not exist.
12055	TIMS-12055: Mirrored Zone name cannot be null.
12056	TIMS-12056: Mirrored Zone does not exist.
12057	TIMS-12057: Duplicate Mirrored Zone name entry for {0}.
12058	TIMS-12058: Mirrored Zones cannot be created as it is exceeding maximum limit {1} defined in the global options for the zone {0}.
12059	TIMS-12059: DHCP Server cannot be deleted as it is associated to one or more DHCP Failover Peers.
12060	TIMS-12060: DHCP Failover Peer with the given Primary and Failover DHCP Servers already exists.
12061	TIMS-12061: Cannot enable the active directory updates to the zone: {0} as it is associated with one or more Mirrored Zones.
12062	TIMS-12062: Given IP address is not found in the network range for the selected reverse zone.
12063	TIMS-12063: There is no bookmark to remove.
12064	TIMS-12064: Both id and query string cannot be null.
12065	TIMS-12065: Both id and name of Mirrored Zone cannot be null.
12066	TIMS-12066: The subnet(s) could not be created/modified as the selected primary DHCP Server does not match with that of the DHCP Peer.
12067	TIMS-12067: The subnet template(s) could not be created/modified as the DHCP Peer does not exist.
12070	TIMS-12070: Object creation failed. The name of this object conflicts with an existing Mirrored Zone. Please try with a different name.
12071	TIMS-12071: Appliance group already exists: {0}.

Error Codes	
12072	TIMS-12072: Appliance group does not exist: {0}.
12073	TIMS-12073: Unable to delete the selected appliance group as it has references.
12074	TIMS-12074: Both Appliance group name and id cannot be null.
12075	TIMS-12075: Appliance group cannot be deleted as it has child groups associated.
12076	TIMS-12076: Appliance group {0} cannot be updated as the specified parent group {1} is a child to {2}.
12077	TIMS-12077: Parent appliance group does not exist: {0}.
12078	TIMS-12078: Appliance group {0} cannot be a child/parent to itself.
12080	TIMS-12080: A subnet :{0} with the given address is already managed by IPAM. Please enter another address for NS record.
12081	TIMS-12081: NS record with the address:{0} already exists. Please enter another address.
12083	TIMS-12083: Organization contains: {0} View(s). Please delete them first and retry.
12084	TIMS-12084: Cannot get DS record as DNSSEC is not enabled to the zone: {0}.
12085	TIMS-12085: DS records for the zone: {0} does not exist.
12090	TIMS-12090: This ccTLD already exists.
12091	TIMS-12091: This Router object type cannot be changed as it is associated with the subnet: {0} .
12092	TIMS-12092: Object type update has failed for the object: {0} as it is defined as a primary router for the subnet: {1}.
12093	TIMS-12093: Bulk object type update has failed as one of the object: {0} is defined as a primary router for the subnet: {1}.
12094	TIMS-12094: Entered object address range is overlapping with existing address range. Please try different range.
12095	TIMS-12095: Please enter the start offset value.
12096	TIMS-12096: Please enter the subnet address.
12097	TIMS-12097: Router object offset clashes with the entered address range.
12098	TIMS-12098: Router object offset clashes with the address range {0} to {1}.
12099	TIMS-12099: One or more domains are referenced in subnet templates. Please delete those references and try again.
12100	TIMS-12100: Domain used in the address range from {0} to {1} of the Subnet Template is not a primary or secondary domain of the subnet.
12101	TIMS-12101: Domain category cannot be null or empty.
12102	TIMS-12102: Invalid domain category type specified.
12103	TIMS-12103: Configuration status specified in the central logging configuration is null or empty.
12104	TIMS-12104: Configuration status specified in the central logging configuration is null or empty.
12105	TIMS-12105: Configuration name specified in the central logging configuration is null or empty.
12106	TIMS-12106: Configuration name specified in the central logging configuration is invalid.
12107	TIMS-12107: Configuration type specified in the central logging configuration is null or empty.
12108	TIMS-12108: Configuration type specified in the central logging configuration is invalid.
12109	TIMS-12109: Server type specified in the central logging configuration is null or empty.
12110	TIMS-12110: Server type specified in the central logging configuration is invalid.
12111	TIMS-12111: Log status specified in the central logging configuration is null or empty.
12112	TIMS-12112: Log status specified in the central logging configuration is invalid.
13000	TIMS-13000: IPAM Appliance IP Address is null.

Error Codes	
13001	TIMS-13001: IPAM Master setting is null.
13002	TIMS-13002: IPAM Appliance {0} does not exist.
13003	TIMS-13003: Remote Appliance IP Address is null.
13004	TIMS-13004: Remote Appliance type is null.
13005	TIMS-13005: Remote Appliance {0} of type {1} does not exist.
13007	TIMS-13007: IPAM Appliance {0} and Remote Appliance {1} association does not exist.
13008	TIMS-13008: HA is already configured.
13009	TIMS-13009: HA is not configured in this appliance's environment.
13010	TIMS-13010: Appliance address {0} is not valid.
13011	TIMS-13011: IPAM Appliance {0} is already part of the HA environment.
13012	TIMS-13012: IPAM Appliance {0} is not compatible with other IPAM Appliances in the HA environment. Please check the versions.
13013	TIMS-13013: IPAM Appliance {0} did not respond.
13014	TIMS-13014: The IPAM Appliance {0} version information could not be obtained.
13015	TIMS-13015: An error occurred while updating the firewall settings for new IPAM Appliance: {0}
13016	TIMS-13016: IPAM Appliance {0} is not part of the HA environment.
13017	TIMS-13017: The Master IPAM Appliance cannot be removed from the HA environment.
13018	TIMS-13018: An IPAM Appliance cannot remove itself from the HA environment.
13019	TIMS-13019: IPAM Appliance {0} is already the Master in the HA environment.
13020	TIMS-13020: An IPAM Appliance is already being configured as the Master in the HA environment.
13021	TIMS-13021: The Resource Name is either null or empty.
13022	TIMS-13022: The Resource Type is either null or empty.
13023	TIMS-13023: The Resource Operation is either null or empty.
13024	TIMS-13024: The Resource Sub-Operation is either null or empty.
13025	TIMS-13025: The resource transfer sessionId is either null or empty.
13026	TIMS-13026: The resource transfer chunk content is either null or empty.
13027	TIMS-13027: The resource transfer sequence number is either null or empty.
13028	TIMS-13028: The HA Configuration can be reset from the Master IPAM Appliance only.
13029	TIMS-13029: The HA Configuration can be reset when there is only one IPAM Appliance in the HA Configuration.
13030	TIMS-13030: The Destination IP is either null or empty for resource sync operation.
13031	TIMS-13031: The License for High Availability Cluster is not present. Please contact TCPWave Support.
13032	TIMS-13032: Please configure High Availability first.
13033	TIMS-13033: Disaster Recovery(DR) is already configured. Please disable DR before enabling High Availability.
13034	TIMS-13034: High Availability(HA) is already configured. Please disable HA before enabling Disaster Recovery.
13035	TIMS-13035: Invalid License Key specified. HA is already configured in the system. So, please contact TCPWave Support for HA enabled license key.
13036	TIMS-13036: Disaster Recovery is not configured.
13037	TIMS-13037: There is no need to redistribute the Remote Appliances as there is only one IPAM Appliance in the HA environment.
13038	TIMS-13038: IPAM Appliance name with IP address {0} is either null or empty.
13039	TIMS-13039: IPAM Appliance name {0} clashes with an existing IPAM Appliance's name.
13040	TIMS-13040: No IPAM Appliance can be promoted as new Master.

Error Codes	
13041	TIMS-13041: IPAM Appliance Priority setting is null.
13042	TIMS-13042: IPAM Appliance Priority {0} is not valid. It has to be between {1} and {2}.
13043	TIMS-13043: IPAM Appliance Priority is already set to {0}.
13044	TIMS-13044: Remote Appliance {0} does not exist.
13045	TIMS-13045: IPAM Appliance Preference list is null.
13046	TIMS=13046: Please select at least one IPAM Appliance to add to the preferred list.
13047	TIMS=13047: Please select at least one IPAM Appliance to delete from the preferred list.
13048	TIMS-13048: IPAM Appliance {0} did not respond for search service life cycle operation.
13049	TIMS-13049: The time difference between the current IPAM Appliance and {0} is more than the allowed {1} seconds. Please synchronize the time.
13050	TIMS-13050: The timeout is not set correctly in the Mariadb service file.
13051	TIMS-13051: The timeout is not set correctly in the Mariadb service file on {0}.
13052	TIMS-13052: The user is not set correctly in galera_recovery file.
13053	TIMS-13053: The user is not set correctly in galera_recovery file on {0}.
13054	TIMS-13054: The HA Configuration can be reset when there is only one active IPAM Appliance in the HA Configuration.
13055	TIMS-13055: The IPAM Service is down on the Appliance. Please start the service and retry the operation.
13056	TIMS-13056: IPAM Appliance {0} does not have the license to support HA functionality. Please update the license and retry.
13057	TIMS-13057: HA is already configured on the IPAM Appliance {0}.
13058	TIMS-13058: DR is configured on the IPAM Appliance {0}. Therefore, HA cannot be configured.
13059	TIMS-13059: The input argument is either null or empty for add IPAM Appliance service call.
13060	TIMS-13060: The FADM User Id is either null or empty.
13061	TIMS-13061: The FADM User Password is either null or empty.
13062	TIMS-13062: FADM User {0} does not exist.
13063	TIMS-13063: Only an FADM User can add an IPAM Appliance to the HA Cluster.
13064	TIMS-13064: The credentials provided for the FADM user {0} are not valid.
13065	TIMS-13065: The credentials provided for the FADM user {0} are valid.
13066	TIMS-13066: TCPWave IPAM device is not defined for {0}. Please define it before configuring {1}.
13067	TIMS-13067: IPAM Appliance is not defined for {0}. Please define it before configuring {1}.
13068	TIMS-13068: The argument is either null or empty for re-join cluster service call.
13069	TIMS-13069: Cannot request self IPAM Server, {0} to re-join the cluster.
13070	TIMS-13070: IPAM Appliance {0} is already part of the cluster.
13071	TIMS-13071: The node is not isolated from the cluster.
13072	TIMS-13072: The node is in an invalid state to rejoin ({0}).
13073	TIMS-13073: The remote IPAM's cluster state is null.
13074	TIMS-13074: Enter private network series: 10, 172 or 192.
13075	TIMS-13075: No network is available with the given mask.
13076	TIMS-13076: The database user password on {0} does not match with the database user password on the current IPAM.
13077	TIMS-13077: The database administrator password on {0} does not match with the database administrator password on the current IPAM.
13078	TIMS-13078: The database replication password on {0} does not match with the database replication password on the current IPAM.

Error Codes	
13079	TIMS-13079: The IPAM Appliance keystore password on {0} does not match with the IPAM Appliance keystore password on the current IPAM.
13080	TIMS-13080: The Message client truststore password on {0} does not match with the Message client truststore password on the current IPAM.
13999	TIMS-13999: IPAM HA LAST MESSAGE PLACE HOLDER FOR THIS RANGE.
14010	TIMS-14010: DNSSEC Keys cannot be generated as DNSSEC is not enabled on Zone: {0}.
14011	TIMS-14011: Please specify the type of the key, either ZSK or KSK.
14012	TIMS-14012: Please try Manual Key Rollover after {0}.
14013	TIMS-14013: Manage services request has been submitted successfully. Please refresh the Active Appliances grid to check the status of the selected services.
14014	TIMS-14014: Object: {0} does not exist in the organization: {1}.
14020	TIMS-14020: Template cannot be created/updated as custom allow transfer/update ACL {0} contains an IP address of the managed DNS appliance name: {1}, IP: {2}.
14021	TIMS-14021: Template cannot be created/updated as custom allow transfer/update ACL {0} contains an IP address of the domain controller name: {1}, IP: {2}.
14023	TIMS-14023: Template cannot be created/updated as custom allow transfer/update contains duplicate entry for ACL {0}.
14024	TIMS-14024: Firmware patch cannot be uploaded as there is already a patch exists with same Name: {0}, Type: {1}, Size: {2} and Checksum: {3}.
14026	TIMS-14026: Resource Records cannot be added for Reserved Objects.
14027	TIMS-14027: Resource Records cannot be modified for Reserved Objects.
14028	TIMS-14028: Resource Records cannot be deleted for Reserved Objects.
14029	TIMS-14029: Reservation Expiry date cannot be in past.
14030	TIMS-14030: TACACS+ Server details are not found, so the configuration has been updated to disable TACACS.
14031	TIMS-14031: TACACS+ Server password is not set up, so the configuration has been updated to disable TACACS.
14032	TIMS-14032: Network interface lo cannot be deleted.
14033	TIMS-14033: Bond cannot be part of another bond.
14034	TIMS-14034: The loopback network interface cannot be part of bond.
14035	TIMS-14035: Virtual interface cannot be part of bond.
14036	TIMS-14036: Device {0} has already been bonded with bond {1}.
14038	TIMS-14038: The loopback network interface cannot be edited.
14039	TIMS-14039: Selected interfaces do not belong to the same subnet. Please modify the selection.
14040	TIMS-14040: Object with IP Address {0} and object type TCPWave IPAM is not found.
14041	TIMS-14041: One or more domains are referenced in address ranges defined in subnet templates. Please delete those references and try again.
14042	TIMS-14042: Template is referenced in subnet templates. Please delete those references and try again.
14043	TIMS-14043: Appliance is referenced in subnet templates. Please delete those references and try again.
14044	TIMS-14044: Cloud provider is referenced in subnet templates. Please delete those references and try again.
14045	TIMS-14045: One or more domains are referenced in IPv6 subnet templates. Please delete those references and try again.
14046	TIMS-14046: One or more domains are referenced in address ranges defined in IPv6 subnet templates. Please delete those references and try again.
14047	TIMS-14047: Template is referenced in IPv6 subnet templates. Please delete those references and try again.
14048	TIMS-14048: Appliance is referenced in IPv6 subnet templates. Please delete those references and try again.
14049	TIMS-14049: Cannot create the ACL as managed object(s) or subnet(s) or network(s) with IP addresses{0} are not available in IPAM.

Error Codes	
14050	TIMS-14050: Cannot update the ACL as managed object(s) or subnet(s) or network(s) with IP addresses{0} are not available in IPAM.
14051	TIMS-14051: Cannot delete the discovery template as it has references in one or more networks.
14052	TIMS-14052: Cannot delete the discovery template as it has references in one or more subnets.
14053	TIMS-14053: Network Address cannot be null.
14054	TIMS-14054: Command id cannot be null.
14055	TIMS-14055: Discovery on this network has been disabled. So discovery results cannot be accepted.
14056	TIMS-14056: Cannot update the root password as the vault type is {0}.
14057	TIMS-14057: Cannot set the root password as the vault type is {0}.
14058	TIMS-14058: Object with the IP address {0} does not exist.
14059	TIMS-14059: Discovery element type cannot be null or empty.
14060	TIMS-14060: IPAM Appliance cannot be created using the selected device as it is the primary router of the subnet. Please choose a different device.
14061	TIMS-14061: Object {0} is already associated with IPAM appliance instance.
14062	TIMS-14062: Object {0} is already associated with DNS/DHCP appliance instance.
14063	TIMS-14063: IPAM Template {0} cannot be deleted as it is associated with one or more IPAM appliances.
14064	TIMS-14064: The selected device, is not of the type TCPWave IPAM. Please choose a different device.
14065	TIMS-14065: Cannot create more than one IPAM appliance template.
14066	TIMS-14066: The object with IP Address {0} of type TCPWave IPAM in the organization {1} is not present in TCPWave IPAM. Please create an object to proceed.
14067	TIMS-14067: Scheduler, DB Replicator and Search Engine cannot be managed from slave appliance in DR setup. Please deselect these services for slave appliance and try again.
14068	TIMS-14068: Scheduler, DB Replicator and Search Engine cannot be managed from a member appliance in HA Cluster. Please deselect these services for member appliance and try again.
14069	TIMS-14069: The object with IP Address {0} is associated with an IPAM appliance. So object can be created only with 'TCPWave IPAM' object type. Please change the object type and try again.
14070	TIMS-14070: Cannot delete a network as there are one or more ACLs referring to the network. Please delete the references and try again.
14071	TIMS-14071: Cannot delete subnet(s) as there are one or more ACLs referring to the subnet(s). Please delete the references and try again.
14072	TIMS-14072: The object with IP Address {0} is associated with an IPAM appliance. So object type cannot be modified.
14073	TIMS-14073: Default discovery template cannot be modified.
14074	TIMS-14074: Default discovery template cannot be deleted.
14075	TIMS-14075: Discovery template cannot be dissociate from subnet as reclaim is enabled for the subnet.
14076	TIMS-14076: NIC type should be either 'IPAM' or 'Remote'.
14077	TIMS-14077: Object type cannot be changed to Static, Automatic DHCP, Manual DHCP or Reserved as the object is part of a scope and the global option Auto Fragment DHCP Scope is disabled. Please enable the global option to change the object type.
14078	TIMS-14078: Logging status for a component cannot be null or empty.
14079	TIMS-14079: Specified logging status {0} is invalid. Valid status is enable/disable.
14080	TIMS-14080: Component name cannot be null or empty.
14081	TIMS-14081: Specified component name {0} is invalid.
14082	TIMS-14082: DNS tunnel detection cannot be enabled on DNS Proxy, NSD and Bind Auth (without recursion) appliances.
14083	TIMS-14083: DNS tunnel detection value should be 'yes' or 'no'.
14084	TIMS-14084: IPAM appliance already exist with name {0}.



Error Codes	
14085	TIMS-14085: Cloud provider is referenced in cloud subnet discovery. Please delete those references and try again.
14091	TIMS-14091: The extension {0} does not exist for the entity: {1}.
14092	TIMS-14092: Network level reverse zone(s) cannot be deleted. Please delete network(s) to auto delete reverse zone(s).
14093	TIMS-14093: Reverse zone does not exist: {0} with the given mask.
14094	TIMS-14094: Appliance cannot be created with the router IP address.
14095	TIMS-14095: Reverse zone(s) cannot be deleted as there are one or more child reverse zones are created under this reverse zone.
14096	TIMS-14096: Monitored service name cannot be null or empty.
14097	TIMS-14097: Alert host type cannot be null or empty.
14098	TIMS-14098: Alert host type is not valid.
14099	TIMS-14099: Alert host address cannot be null or empty.
14100	TIMS-14100: Alert error message cannot be null or empty.
14101	TIMS-14101: Alert category value cannot be null or empty.
14102	TIMS-14102: Force re-check is not supported for the specified alert.
14103	TIMS-14103: The alert cannot be re-checked on the specified appliance.
14104	TIMS-14104: Alternate Query Resolver already exist with specified DNS PROXY appliance.
14105	TIMS-14105: Alternate Query Resolvers does not exist with specified organization and DNS PROXY appliance.
15000	TIMS-15000: DB Restore is in Progress, Database activity not allowed.
15001	TIMS-15001: Domain/Record should be specified for the DNS flush operation on the appliance: {0} of type: {1}.
15002	TIMS-15002: Flush operation cannot be performed on the appliance: {0} of type: {1} as recursion is not enabled.
15003	TIMS-15003: Flush operation can be performed only on cache appliance, but the appliance: {0} is of type: {1}.
15005	TIMS-15005: Please provide the resource record type of name: {0}.
15006	TIMS-15006: Both appliance IP and name cannot be null.
15007	TIMS-15007: Please enter a valid regular expression.
15008	TIMS-15008: IP Address: {0} of the PTR record: {1} is out of subnet range.
15009	TIMS-15009: Zone cannot be created/updated as there is an existing resource record with this name: {0}.
15010	TIMS-15010: Root zone cannot be disabled on the organization: {0} as there is a root zone defined in it.
15011	TIMS-15011: Router address cannot be same as Subnet address.
15012	TIMS-15012: Object address: {0} cannot be same as Subnet address.
15013	TIMS-15013: ACL cannot be deleted as it is associated to one or more appliances as SNMP ACL. Please delete those references and retry.
15014	TIMS-15014: Extension name cannot be null.
15015	TIMS-15015: Location cannot be deleted as it is associated with one or more objects.
15016	TIMS-15016: The accepted values for RRSet order are cyclic, random and fixed.
15017	TIMS-15017: The option with the name: {0} and display name:{1} already exists.
15018	TIMS-15018: Master Server's IP addresses are not valid.
15019	TIMS-15019: Only one master server is supported.
15020	TIMS-15020: Zone Transfer must be disabled.
15021	TIMS-15021: Zone Transfer must be enabled.
15022	TIMS-15022: Should have at least 3 master servers
15023	TIMS-15023: RPZ Server Key algorithm is either null or empty.
15024	TIMS-15024: RPZ Template provider is either null or empty.
15025	TIMS-15025: The Gateway value is invalid.

Error Codes	
15026	TIMS-15026: Remote Appliance cannot be created using the selected object as it is reserved. Please choose another object.
15031	TIMS-15031: Objects defined in the dynamic address range cannot be of type Router, TCPWave Remote, Microsoft Remote, TCPWave IPAM or Domain Controller.
15032	TIMS-15032: The zone delete operation has failed because of references in the subnet template definitions. Use the search functionality to obtain those references.
15033	TIMS-15033: Delete operation for zone {0} has failed because of references in the subnet template definitions. Use the search functionality to obtain those references.
15034	TIMS-15034: The zone delete operation has failed because of references in address ranges defined in subnet templates. Delete those references and try again.
15035	TIMS-15035: Delete operation for zone {0} has failed because of references in address ranges defined in subnet templates. Delete those references and try again.
15036	TIMS-15036: ACL {0} cannot be modified with TCPWave managed appliances as it is associated with allow update params.
15037	TIMS-15037: IP address {0} is used in the organization {1} in the TCPWave IPAM.
15038	TIMS-15038: Object with name {0} already exists in the organization {1} in the TCPWave IPAM.
15039	TIMS-15039: IP address cannot be null or empty.
15040	TIMS-15040: The owner name cannot be null or empty.
15041	TIMS-15041: Network: {0} exists with the range that has the IP address: {1}, but subnet does not exist.
15042	TIMS-15042: Subnet: {0} exists with the range that has the IP address: {1}, but object does not exist.
15043	TIMS-15043: Network does not exist within the range that has the IP address: {0}.
15044	TIMS-15044: Restricted domain {0} does not exist in the organization {1}.
15045	TIMS-15045: Maximum of 19 non-managed name servers are allowed.
15046	TIMS-15046: Enter valid non-managed name servers data.
15047	TIMS-15047: Enter at least one non-managed name server or uncheck custom allow name servers.
15048	TIMS-15048: CNAME record: {0} cannot be same as object name.
15049	TIMS-15049: Match client value cannot be more than 1024 characters.
15050	TIMS-15050: Match destinations value cannot be more than 1024 characters.
15051	TIMS-15051: Custom allow name appliances contains master/slave appliance {0} IP address {1}.
15052	TIMS-15052: Both subnet template id and name cannot be null.
15053	TIMS-15053: The domain of the object cannot be changed as the object is being used in the active directory zone {0}.
15054	TIMS-15054: Sync cannot be performed on the object {0} as the managed zone {1} does not exist.
15055	TIMS-15055: Allow recursion value cannot be more than 1024 characters.
15073	TIMS-15073: The default admin role and the default organization does not belong to any of the associated admin groups.
15074	TIMS-15074: Select at least one value from the grid.
15075	TIMS-15075: A permission already exists for the given inputs.
15076	TIMS-15076: Data is not correct. Enter the correct value.
15077	TIMS-15077: Authorization function's target list cannot be empty.
15078	TIMS-15078: {0} doesn't exist for the given values {1}.
15079	TIMS-15079: Entity type code cannot be empty or null.
15080	TIMS-15080: The dissociated admin group has permissions assigned to its roles. Delete the existing permissions of the role functions to dissociate the selected admin group from the admin.
15081	TIMS-15081: No external NS record found for the given owner name: {0} Enter a valid DS record owner name.

Error Codes	
15082	TIMS-15082: Managed zone already exists with the same name {0}.
15083	TIMS-15083: DS record {0} cannot be created with the external flag disabled.
15084	TIMS-15084: The object with IP Address {0} of type TCPWave IPAM does not exist. Please create an object of type TCPWave IPAM to update the IPAM appliance.
15085	TIMS-15085: DNS Zone Template cannot have both TCPWave Managed DNS appliances and Microsoft DNS appliances as masters.
15086	TIMS-15086: The DNS Zone template: {1} with Microsoft DNS Appliance as master cannot be associated to the active directory zone: {0}.
15087	TIMS-15087: Active directory cannot be enabled on the zone: {0} as the associated DNS Zone template: {1} has Microsoft DNS appliance as master.
15088	TIMS-15088: Microsoft DNS appliance with IP address: {0} does not exist.
15089	TIMS-15089: The Microsoft AD appliance name cannot be null.
15090	TIMS-15090: Selected NSM template has references in one or more DNS appliance(s). Please dis-associate the template from the DNS appliance(s) and try again.
15091	TIMS-15091: NSM Template with the same name: {0} already exists.
15092	TIMS-15092: The Microsoft AD appliance with IP address {0} does not exist.
15093	TIMS-15093: The Microsoft AD appliance {0} cannot be updated, as an object of type Microsoft Remote does not exist.
15094	TIMS-15094: The Microsoft AD site name cannot be null.
15095	TIMS-15095: The Microsoft AD site {0} does not exist.
15096	TIMS-15096: The Microsoft AD appliance IP address cannot be null.
15097	TIMS-15097: The Microsoft AD appliance {0} cannot be created, as an object of type Microsoft Remote does not exist.
15098	TIMS-15098: The Microsoft AD appliance with IP address {0} is already being managed by the TCPWave IPAM.
15099	TIMS-15099: Non-Managed name server with IP address {0} is not allowed as TCPWave Managed DNS Appliance with same IP address exist.
15100	TIMS-15100: Non-Managed name server with IP address {0} is not allowed as Microsoft DNS Appliance with same IP address exist.
15101	TIMS-15101: Appliance with IP address {0} cannot be created as non-managed name server with same IP address exist for zone {1}.
15102	TIMS-15102: Failed to get the Microsoft AD sites information from AD Appliance with IP address {0}. Please check if the appliance is up and running.
15103	TIMS-15103: The Microsoft AD appliance with IP address {0} does not exist in the given organization.
15104	TIMS-15104: DNS Forwarder zone name does not exists: {0}.
15105	TIMS-15105: Cannot {0} an object {1} with the restricted domain {2}.
15106	TIMS-15106: Discovery template cannot be null.
15107	TIMS-15107: Discovery template is not valid: {0}
15108	TIMS-15108: Discovery appliance is not valid.
15109	TIMS-15109: Discovery appliance: {0} already exists.
15110	TIMS-15110: Please enter a valid IPv6 Object address.
15111	TIMS-15111: Autonomous System Number already exists: {0}.
15112	TIMS-15112: Autonomous System Number does not exist: {0}.
15113	TIMS-15113: Security group already exists: {0}.
15114	TIMS-15114: Security group does not exist: {0}.
15115	TIMS-15115: Exclusion name cannot be null.
15116	TIMS-15116: Exclusion IP Address cannot be null.
15117	TIMS-15117: Exclusion type cannot be null.
15118	TIMS-15118: Exclusion name already exists.
15119	TIMS-15119: Router name already exists.

Error Codes	
15120	TIMS-15120: Router name cannot be null.
15121	TIMS-15121: Cannot create an appliance template as one or more forwarder zones are conflicting with each other in the selected forwarder groups.
15122	TIMS-15122: Cannot update an appliance template as one or more forwarder zones are conflicting with each other in the selected forwarder groups.
15123	TIMS-15123: {0} Cannot be deleted as it is a management interface. set another physical interface as a management interface before deleting this interface.
15124	TIMS-15124: The bonded interface cannot be deleted.
15125	TIMS-15125: {0} does not have IP address. Assign an IP address to it.
15126	TIMS-15126: Select a network interface IP to delete.
15127	TIMS-15127: In the IPAM appliance, if the management interface is part of the network bonding, users can select the required IP address associated with it.
15128	TIMS-15128: Select at least two network interfaces to bond.
15129	TIMS-15129: The duplex setting of the bond interface cannot be modified as it depends on its slave interfaces.
15130	TIMS-15130: Select a value for speed from the drop-down menu.
15131	TIMS-15131: One of the interfaces selected for bonding is the management interface. Set another interface or the current bonding interface as the management interface by selecting the checkbox: Is management IP.
15132	TIMS-15132: The default tables in the system cannot be edited.
15133	TIMS-15133: The default tables in the system cannot be deleted.
15134	TIMS-15134: The selected table is associated with {0}. So {1} table cannot be deleted.
15135	TIMS-15135: Enter a valid configuration for the rules.
15136	TIMS-15136: Enter a valid configuration for the routes.
15137	TIMS-15137: Enter a valid configuration for rule: {0}
15138	TIMS-15138: Enter a valid configuration for route: {0}
15139	TIMS-15139: The user cannot use default tables to configure policy-based routing.
15140	TIMS-15140: Enter a valid key for extra attribute. : {0}
15141	TIMS-15141: Selected network interface is a virtual interface itself. Select a non-virtual interface.
15142	TIMS-15142: Select at least one network interface to edit.
15143	TIMS-15143: Device {0} has virtual interface. Delete the virtual interface and try again.
15144	TIMS-15144: {0} Cannot be deleted as it is a management interface.
15145	TIMS-15145: Selected subnet already exists.
15146	TIMS-15146: Discovery agent task does not exist with the command id: {0}
15147	TIMS-15147: Selected router subnet already accepted: {0}
15148	TIMS-15148: The Microsoft resolution policy {0} already exists for zone {1}.
15149	TIMS-15149: The Microsoft resolution policy {0} does not exists for zone {1}.
15150	TIMS-15150: The zone scope {0} cannot be deleted as it is associated to resolution policy {1}.
15151	TIMS-15151: The operator of the server interface for the Microsoft resolution policy {0} should be either EQ or NE.
15152	TIMS-15152: The Microsoft resolution policy {0} does not exists for zone {1}.
15153	TIMS-15153: The Microsoft scope {0} already exists for zone {1}.
15154	TIMS-15154: The Microsoft scope {0} does not exists for zone {1}.
15155	TIMS-15155: The ACL {0} cannot be deleted as it is referenced in the resolution policy {1}.
15180	TIMS-15180: Device already exist: {0}.
15181	TIMS-15181: Device does not exist with the command id: {0}.
15182	TIMS-15182: Discovery event does not exist with the command id: {0}.

Error Codes	
15183	TIMS-15183: Discovery agent does not exist with the IP: {0}.
15184	TIMS-15184: Discovery agent cannot be deleted as it is associated with a network or subnet.
15185	TIMS-15185: Discovery agent cannot be deleted as it is associated with DNS/DHCP appliance.
15186	TIMS-15186: Discovery agent IP address can not be null.
15187	TIMS-15187: Device credentials already exist with the name: {0}.
15230	TIMS-15230: Enter valid IPv6 address.
15231	TIMS-15231: IPv6 pool: {0} cannot be created as it is conflicting with one or more existing IPv6 pools.
15232	TIMS-15232: IPv6 block does not exist: {0}
15233	TIMS-15233: IPv6 pool does not exist: {0}
15234	TIMS-15234: IPv6 block: {0} cannot be created as it is conflicting with one or more existing IPv6 blocks.
15235	TIMS-15235: There is already an IPv6 DHCP appliance defined with the address specified.
15236	TIMS-15236: There is no IPv6 object defined with the address specified.
15237	TIMS-15237: Unable to calculate IPv6 end range for {0}.
15238	TIMS-15238: IPv6 block {0} is out of pool range.
15239	TIMS-15239: Block address and id cannot be null.
15240	TIMS-15240: IPv6 block address does not exist: {0}
15241	TIMS-15241: IPv6 subnet: {0} cannot be created as it is conflicting with one or more existing IPv6 subnets.
15242	TIMS-15242: IPv6 object {0} is out of subnet range.
15243	TIMS-15243: Reverse zone already exists with an IPv6 address: {0}
15244	TIMS-15244: Reverse zone(s) cannot be deleted as it is associated with an IPv6 address space.
15600	TIMS-15600: Either the virtual appliance IP or a member appliance IP is null.
15601	TIMS-15601: The number of appliances specified is not correct.
15602	TIMS-15602: Remote cluster is already configured with the specified appliance(s).
15603	TIMS-15603: Remote cluster is not configured at {0}.
15604	TIMS-15604: The input argument is null.
15605	TIMS-15605: Virtual IP is either null or empty.
15606	TIMS-15606: Virtual appliance name is either null or empty.
15607	TIMS-15607: A member appliance IP address is either null or empty.
15608	TIMS-15608: Virtual IP address {0} is not valid.
15609	TIMS-15609: Member IP address {0} is not valid.
15610	TIMS-15610: Member appliance does not exist with {0} address.
15611	TIMS-15611: Organization name is either null or empty.
15612	TIMS-15612: Virtual appliance IP is either null or empty.
15613	TIMS-15613: Virtual appliance IP address {0} is not valid.
15614	TIMS-15614: Member appliances belong to different organizations:{0} and {1}
15615	TIMS-15615: Member DNS appliances are of different type: {0} and {1}
15616	TIMS-15616: A remote appliance already exists with {0} address.
15617	TIMS-15617: An error has occurred while obtaining the configuration information for member appliance {0}.
15618	TIMS-15618: Time zone is either null or empty for member appliance {0}.
15619	TIMS-15619: Time zone setting for the member appliances do not match: {0} and {1}.
15620	TIMS-15620: Subnet address is either null or empty for member node: {0}.
15621	TIMS-15621: Member appliances are in different subnets: {0} and {1}.

Error Codes	
15622	TIMS-15622: Zebra service is configured on member node {0}. Delete it before forming the cluster.
15623	TIMS-15623: {0} service is configured on member node {1}. Delete it before forming the cluster.
15624	TIMS-15624: {0} member appliance has references in DNS zone template(s). Remove them before forming the cluster.
15625	TIMS-15625: {0} is associated with the non-managed DNS zones. Delete the association before forming the cluster.
15626	TIMS-15626: {0} has references in one or more subnet(s). Dis-associate the appliance from the subnet(s) before forming the cluster.
15627	TIMS-15627: An error has occurred while checking whether the virtual IP {0} address is being used. Retry again.
15628	TIMS-15628: The virtual IP address {0} is being used. There is an active device at this address.
15629	TIMS-15629: An error has occurred while checking member appliance version information. Retry again.
15630	TIMS-15630: Member appliances version information is not present for {0}. Retry after fixing the version information.
15631	TIMS-15631: Member appliances are at different version: {0} and {1}. Update them so that they are at the same level, and retry.
15632	TIMS-15632: Cluster appliance does not belong to {0} organization. It belongs to {1}.
15633	TIMS-15633: Appliance type is either null or empty.
15634	TIMS-15634: Appliance does not exist at {0} address.
15635	TIMS-15635: A remote cluster is configured at {0}. Reset the cluster first.
15636	TIMS-15636: Member appliance {0} is not active. Check its heartbeat status.
15637	TIMS-15637: Sync operation is in progress for {0} member node. Wait until it is complete.
15638	TIMS-15638: Member appliance {0} did not respond to {1} operation. Check whether {2} service is up and running.
15639	TIMS-15639: Member appliance {0} did not respond with the current time. Check whether {1} is up and running.
15640	TIMS-15640: The time difference between the member nodes is more than the minimum allowed {0} seconds.
15641	TIMS-15641: Member appliance {0} did not respond with system type info. Check whether {1} is up and running.
15642	TIMS-15642: Member appliances hardware is not identical ({0} and {1}).
15643	TIMS-15643: Member addresses could not be added to the /etc/hosts file on {0}. ({1})
15644	TIMS-15644: Cluster services could not be started on {0}. ({1})
15645	TIMS-15645: Remote cluster could not be formed at {0}. ({1})
15646	TIMS-15646: Virtual IP resource could not be created on {0}. ({1})
15647	TIMS-15647: TCPWave named resource could not be created on {0}. ({1})
15648	TIMS-15648: TCPWave timsdns resource could not be created on {0}. ({1})
15649	TIMS-15649: Appliance related properties could not be updated on {0}. ({1})
15650	TIMS-15650: Remote cluster could not be destroyed on {0}. {1})
15651	TIMS-15651: DNS appliance template is either null or empty for member node {0}.
15652	TIMS-15652: Member appliances have different DNS appliance templates {0} and {1} configured.
15653	TIMS-15653: DNS options template is either null or empty for member node {0}.
15654	TIMS-15654: Member appliances have different DNS option templates {0} and {1} configured.
15655	TIMS-15655: Virtual appliance has references in zone template(s). Remove them before resetting the cluster.
15656	TIMS-15656: Virtual appliance is associated with the non-managed DNS zones. Delete the association before resetting the cluster.
15657	TIMS-15657: Virtual appliance has references in one or more subnet(s). Dis-associate the appliance from the subnet(s) before resetting the cluster.

Error Codes	
15658	TIMS-15658: Virtual appliance is referenced in templates. Remove the references before resetting the cluster.
15659	TIMS-15659: Appliance {0} is not active. Check its heartbeat status.
15660	TIMS-15660: Only FADM or SADM can perform this cluster operation.
15661	TIMS-15661: No object is defined at virtual IP address {0}.
15662	TIMS-15662: Object defined at {0} is not of type TCPWave remote.
15663	TIMS-15663: Virtual appliance and member appliance objects are in different subnets, {0} and {1}.
15664	TIMS-15664: Remote Cluster is supported on BIND AUTH and BIND CACHE type of DNS Appliances only.
15665	TIMS-15665: Appliance name should not contain underscore.
15666	TIMS-15666: Appliance {0} is also configured as a {1} Appliance. Member node should not be configured as both DNS and DHCP Appliance.
15667	TIMS-15667: Member appliance {0} is already part of a cluster.
15668	TIMS-15668: Appliance type {0} is not a valid supported remote cluster type.
15669	TIMS-15669: Current cluster settings are identical to the new settings. Hence, no action was taken.
15670	TIMS-15670: Virtual Appliance {0} did not respond. Please check whether {1} is up and running.
15671	TIMS-15671: An error was encountered while updating the cluster configuration: {0}.
15672	TIMS-15672: An error was encountered while retrieving the cluster status: {0}.
15673	TIMS-15673: Virtual Appliance does not exist at {0}.
15674	TIMS-15674: Appliance {0} is part of a cluster. Please reset the cluster first.
15675	TIMS-15675: A remote cluster is configured at {0}. Hence, an appliance cannot be configured at the same address.
15676	TIMS-15676: Appliance {0} is part of a cluster. Hence, it cannot be configured as another appliance.
15677	TIMS-15677: Appliance {0} does not have heartbeat. Hence, not resetting the cluster.
15678	TIMS-15678: TCPWave Timsdns resource could not be started on {0}. ({1})
15679	TIMS-15679: Member Appliances have different firewall templates configured. Please make them identical and retry.
15680	TIMS-15680: Member Appliances have different TACACS+ Configuration settings. Please make them identical and retry.
15681	TIMS-15681: Member Appliances have different LDAP SSH Configuration settings. Please make them identical and retry.
15682	TIMS-15682: Member Appliances have different iDRAC passwords set. Please make them identical and retry.
15683	TIMS-15683: Member Appliances have different iDRAC SNMP Community settings. Please make them identical and retry.
15684	TIMS-15684: Member Appliances have different DNS Resolvers configured. Please make them identical and retry.
15685	TIMS-15685: Member Appliances have different NTP settings. Please make them identical and retry.
15686	TIMS-15686: Member Appliances belong to different appliances groups.
15687	TIMS-15687: Member Appliances have different Elevated Privileges configured.
15688	TIMS-15688: Member Appliances have different stealth appliances configured.
15689	TIMS-15689: Recursion setting is different on member appliances.
15690	TIMS-15690: Member Appliances have different DNS over TLS setting.
15691	TIMS-15691: Member Appliances are of different Cache Appliance types (Internal vs External).
15692	TIMS-15692: Member Appliances have different DMZ Zone Visibility setting.
15693	TIMS-15693: Member Appliances have different Automatic DNSDR setting.
15694	TIMS-15694: Member Appliances have different Monitoring Service setting.

Error Codes	
15695	TIMS-15695: Member Appliances have different NSM Templates configured.
15696	TIMS-15696: Member Appliances have different Discovery setting.
15697	TIMS=15697: Member Appliances have different Syslog settings.
15698	TIMS-15698: Member Appliances have different Views configured.
15699	TIMS-15699: Member Appliances have different DNS64 Prefixes configured.
15700	TIMS-15700: Member Appliances have different Forwarders configured.
15701	TIMS-15701: Remote Cluster Appliance type cannot be changed to {1}.
15702	TIMS-15702: Remote Cluster Member Appliance name cannot be modified.
15703	TIMS-15703: Remote Cluster Appliance name cannot be modified.
15704	TIMS-15704: Remote Cluster Member IP cannot be modified.
15705	TIMS-15705: Remote Cluster Appliance IP cannot be modified.
15706	TIMS-15706: DHCP policy template is either null or empty for member node {0}.
15707	TIMS-15707: Member Appliances have different DHCP policy templates, {0} and {1} configured.
15708	TIMS-15708: No object is defined at member appliance IP address {0}.
15709	TIMS-15709: Member Appliances have different DHCP Listening Interfaces, {0} and {1} configured.
15710	TIMS-15710: Member Appliances have different mac exclusions configured.
15711	TIMS-15711: Member Appliance {0} is associated with one or more DHCP Failover Peers. Please remove the association(s) before forming the cluster.
15712	TIMS-15712: Member Appliance {0} manages subnets. Please dis-associate the appliance from managing the subnet(s) before forming the cluster.
15713	TIMS-15713: Member Appliance {0} manages scopes. Please dis-associate the appliance from managing the scope(s) before forming the cluster.
15714	TIMS-15714: Member Appliance {0} has manual-DHCP objects associated with it. Please dis-associate the appliance from manual-DHCP objects before forming the cluster.
15715	TIMS-15715: Member Appliance {0} has Shared Networks associated with it. Please remove the association(s) before forming the cluster.
15716	TIMS-15716: Member Appliance {0} has references in subnet templates. Please remove the subnet template references before forming the cluster.
15717	TIMS-15717: Member Appliance {0} has references in file set. Please remove the file set references before forming the cluster.
15718	TIMS-15718: The DHCP Appliance at {0} is not configured as an IPV4 DHCP Appliance.
15719	TIMS-15719: Please select a remote cluster appliance to update the cluster settings.
15720	TIMS-15720: Please select a configured active remote cluster appliance to get the status information.
15721	TIMS-15721: Virtual Appliance is associated with one or more DHCP Failover Peers. Please remove the association(s) before resetting the cluster.
15722	TIMS-15722: Virtual Appliance manages subnets. Please dis-associate the appliance from managing the subnet(s) before resetting the cluster.
15723	TIMS-15723: Virtual Appliance manages scopes. Please dis-associate the appliance from managing the scope(s) before resetting the cluster.
15724	TIMS-15724: Virtual Appliance has manual-DHCP objects associated with it. Please dis-associate the appliance from manual-DHCP objects before resetting the cluster.
15725	TIMS-15725: Virtual Appliance has Shared Networks associated with it. Please remove the association(s) before resetting the cluster.
15726	TIMS-15726: Virtual Appliance has references in subnet templates. Please remove the subnet template references before resetting the cluster.
15727	TIMS-15727: Virtual Appliance has references in file set. Please remove the file set references before resetting the cluster.
15728	TIMS-15728: Member Appliances have different RPZ Templates configured.
15729	TIMS-15729: Member Appliances IP Address interface netmasks are not identical ({0} and {1}).
15730	TIMS-15730: Member Appliances have different SNMP settings. Please make them identical and retry.



Error Codes	
15731	TIMS-15731: Member Appliance {0} has no network interface configuration defined.
15732	TIMS-15732: Network mask for the management interface is not set for member node {0}.
15733	TIMS-15733: Network masks of the managed interface are not identical for member nodes.
15734	TIMS-15734: Remote cluster appliance at {0} is part of {1} subnet. Hence, the subnet cannot be merged with other subnets.
15735	TIMS-15735: Remote cluster appliance at {0} is part of {1} subnet. Hence, the subnet cannot be split.
15736	TIMS-15736: Member node {0} is not part of the cluster.
15737	TIMS-15737: Member node {0} does not have heartbeat. Please verify whether {1} agent is running or not.
15738	TIMS-15738: Virtual IP address {0} is active. Please check whether remote cluster is already formed at this address.
15739	TIMS-15739: Input argument is either null or empty for remote import cluster form service call.
15740	TIMS-15740: Member nodes are at different patch level({0}). If you want to reset the cluster with member nodes at different patch level, use allow_patch_mismatch option and retry.
15741	TIMS-15741: An error was encountered while initiating the cluster service restart operation. {0}.
15742	TIMS-15742: An error was encountered while initiating the cluster resource failcount reset operation. {0}
15743	TIMS-15743: Member appliance {0} did not respond with kernel routing info. Please check whether {1} agent service is up and running.
15744	TIMS-15744: The kernel routing entries difference among the member nodes is more than allowed value.
15745	TIMS-15745: An error has occurred while checking the members compatibility for cluster formation.
15746	TIMS-15746: Member appliance {0} did not respond with agent heap size setting info. Check whether {1} is up and running.
15747	TIMS-15747: Member appliances agent heap size setting is not identical ({0} and {1}).
15748	TIMS-15748: Cannot Create Remote cluster with {0} type appliances
15799	TIMS-15799: Reserved 15600 to 15799 error numbers for remote cluster work.
16000	TIMS-16000: The dashboard name does not exist.
16001	TIMS-16001: The executive dashboard cannot be deleted.
16012	TIMS-16012: The user does not exist.
16013	TIMS-16013: The widget list cannot be null.
16014	TIMS-16014: The widget list does not exist.
16015	TIMS-16015: The dashboard id cannot be null.
16021	TIMS-16021: The dashboard name already exists.
16022	TIMS-16022: The dashboard name cannot be null.
16023	TIMS-16023: The dashboard has been updated successfully.
16024	TIMS-16024: The user cannot add more than nine widgets in a customized dashboard.
16025	TIMS-16025: The selected widget already exists in the dashboard.
16026	TIMS-16026: The widget name is not valid: {0}.
16027	TIMS-16027: The widget category name is not valid: {0}.
16028	TIMS-16028: The user cannot add more than fifteen cities clocks in a clock widget.
16200	TIMS-16200: An IPv6 DHCP Appliance sync is currently in progress. Please wait until it is completed.
16201	TIMS-16201: Appliance type cannot be modified.
16202	TIMS-16202: Total object count should not exceed 1000.

Error Codes	
16203	TIMS-16203: The ACL name {0} matches with the autoblock anomalous traffic functionality naming convention. Please try with other name which does not start with the word "titan".
16204	TIMS-16204: The template name {0} matches with the autoblock anomalous traffic functionality naming convention. Please try with other name which does not start with the word "titan".
16205	TIMS-16205: The ACL name cannot be modified as it is created as part of the autoblock anomalous traffic functionality.
16206	TIMS-16206: The template name cannot be modified as it is created as part of the autoblock anomalous traffic functionality.
16207	TIMS-16207: Organization must be same as IPv6 Pool.
16208	TIMS-16208: Object address {0} is referenced in the Windows appliance. Please delete those references and try again.
16209	TIMS-16209: Autonomous System Number cannot be null.
16210	TIMS-16210: Autonomous System Number not exists: {0}.
16211	TIMS-16211: Autonomous System Number range should be in between 0 to 4294967295.
16212	TIMS-16212: {0} cannot be null or empty.
16213	TIMS-16213: {0} is invalid app type.
16214	TIMS-16214: App Id and contact Id both cannot be null.
16215	TIMS-16215: {0} is invalid app Id.
16216	TIMS-16216: Invalid child reverse zone name specified: {0}.
16217	TIMS-16217: Global option cannot be updated as there are references to the object or resource records with the name localhost.
16218	TIMS-16218: DNS Appliance is not reachable to perform the operation.
16219	TIMS-16219: Zone file does not exist for: {0}. Please check whether the zone exists on the Microsoft DNS appliance: {1} and has required privileges set to the provided user.
16230	TIMS-16230: Auto force sync option cannot be set to {0} as it is a restricted zone.
16231	TIMS-16231: Exclude from sync option cannot be set to {0} as it is a restricted zone.
16300	TIMS-16300: DNS appliance with IP address: {0} cannot be created as it is provided as allow-update in DNS zone template: {1}.
16301	TIMS-16301: The given allow-transfer IPs are not matching with the selected DNS slave appliances. Please ensure to select the DNS slave appliances IPs.
16302	TIMS-16302: The given allow-notify IPs are not matching with the selected DNS master appliances. Please ensure to select the DNS master appliances IPs.
16035	TIMS-16035: Domain cannot be deleted as it has references defined in a DHCP IPv4 option template.
16220	TIMS-16220: DNS appliance template is not valid for the given appliance type.
16221	TIMS-16221: DNS option template is not valid for the given appliance type.
16222	TIMS-16222: DNS Appliance is not reachable to perform the operation.
16223	TIMS-16223: Interface {0} specified for {1} does not exist.
16224	TIMS-16224: Device {0} is referenced as the DNS interface. Please dereference and try again.
16303	TIMS-16303: CNAME does not refer to a valid A/AAAA record.
16304	TIMS-16304: CNAME does not refer to a valid A/AAAA/CNAME record.
16305	TIMS-16305: A OR AAAA or CNAME {0} record already exists for an Object: {1} in the selected DNS view(s).
16306	TIMS-16306: A or AAAA or CNAME {0} record already exists for an Object: {1}
16307	TIMS-16307: No A/AAAA record found for given owner/mail server/data: {0}. Enter a valid A/AAAA record name.
16308	TIMS-16308: No A/AAAA/CNAME record found for the given data: {0}. Enter a valid A/AAAA/CNAME record name.

Error Codes	
16401	TIMS-16401: There is(are) {0} appliance(s) defined in this Pool. delete the appliance(s) and try again.
16309	TIMS-16309: Reverse zone is undefined.
16310	TIMS-16310: Domain Controller address cannot be null.
16311	TIMS-16311: Old password cannot be null.
16312	TIMS-16312: Old password of the domain controller is not correct.
16313	TIMS-16313: Cannot delete the discovery template as it has references in one or more {0}.

- Note: {0}, {1}, {2} and {3} are place holders for respective entity names.