



Cisco Prime Network Registrar 11.1 REST APIs Quick Start Guide

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The Cisco Prime Network Registrar REST API provides access to a set of resources that can be managed by an HTTP client. It is supported on the regional server and on local DHCP, DNS, and Caching DNS servers, provided web services have been enabled.

This document helps you get started with using REST APIs in Cisco Prime Network Registrar. It describes the REST methods and endpoints to use to get information about the most commonly used objects in Cisco Prime Network Registrar. It also describes the special operations supported in the product.

Starting with 11.1, Cisco Prime Network Network Registrar supports Swagger based documentation for the REST API which covers most of the scenarios. However, it does not cover all the REST API requests, especially the special cases with actions (for example, GET the child objects like CCMHost, CCMRRSet, Lease, and Lease6). For special APIs and actions, you must refer this documentation and *Cisco Prime Network Registrar 11.1 REST APIs Reference Guide*.

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Overview

REST is an architectural style which adheres to these principles:

- client-server
- stateless
- cacheable
- uniform interface

While any API can adhere to these principles, the industry definition of a REST API is one that is built using HTTP client requests and server responses. Request and response content is defined by the HTTP media type. JSON and/or XML are generally supported content types. TEXT is also used for very simple data responses.

Client requests are formed by URLs that identify the requested resource. The HTTP primitives GET, PUT, POST, and DELETE are used for basic read, add, modify, and delete operations. Request parameters are used to further qualify the request.

For configuration management, equate a resource with a datadict class name. For example, use these URLs to request the scope list and the scope 'test' by name in the default VPN:

```
https://localhost:8443/web-services/rest/resource/Scope
https://localhost:8443/web-services/rest/resource/Scope/test
```

To request the scope list in a different VPN, include a parameter to specify the VPN in the GET request:

```
https://localhost:8443/web-services/rest/resource/Scope?vpnId=10
```

The curl examples in this document do not necessarily show all the required arguments (for example, -u to specify the username/password).

Standard Functions

The REST API services a set of standard requests for all persisted (non-transient) classes in the service definition. These support get, add, modify, or delete operations, as allowed for each class. For example, read-only classes support only get operations, and singleton classes do not support list operations. Either XML or JSON formatted objects may be specified where applicable as input or output parameters.

Add Object

POST /web-services/rest/resource/className

Accept: application/xml, application/json

To add a new object, the input object may be specified or individual scalar attributes may be set as form parameters, provided all required attributes are defined. Input data must be provided in object form to specify complex data types.

Example:

```
curl -X POST -H Content-type:application/xml --data
  "<Scope>
    <name>testScope1</name>
    <subnet>101.10.101.0/24</subnet>
    <rangeList><RangeItem><start>101.10.101.2</start><end>101.10.101.254</end></RangeItem>
  </rangeList>
    <selectionTagList><stringItem>red</stringItem><stringItem>green</stringItem>
  <stringItem>blue</stringItem></selectionTagList>
  </Scope>"
  https://localhost:8443/web-services/rest/resource/Scope
```

Standard Functions

```
curl -v -X POST -HContent-Type:application/x-www-form-urlencoded --data
"name=testscope&subnet=11.0.0.1/24" https://localhost:8443/web-services/rest/resource/Scope

curl -v -H Accept:application/json --cacert cacert.pem -X POST -H Content-Type:application/json --data
@scope_add.json https://localhost:8443/web-services/rest/resource/Scope
```

Here, `scope_add.json` is the file used to add a Scope object. The content of this file:

```
{
  "name": "rest_scope_1",
  "policy": "default",
  "rangeList": {
    "RangeItem": [
      {
        "end": "1.0.0.100",
        "start": "1.0.0.1"
      }
    ]
  },
  "subnet": "1.0.0.0/24",
  "tenantId": "0",
  "vpnId": "0"
}
```

Modify/Add Object By Name

PUT /web-services/rest/resource/className/objectName

Accept: application/xml, application/json

The PUT primitive can be used to add a new object or to modify an existing object. The complete object must always be specified in the input object. When modifying an object, attributes that are unset in the input object will be unset in the modified object, unless they are required. Note the object name is specified in the URL and must match the input object.

Example:

```
curl -X PUT -H Content-type:application/json --data
{"objectId": "OID-00:00:00:00:00:00:60",
 "name": "TestScope1",
 "policy": "testPolicy",
 "subnet": "101.10.101.0/24"}"
https://localhost:8443/web-services/rest/resource/Scope/TestScope1

curl -v -H Accept:application/json --cacert cacert.pem -X PUT -H Content-Type:application/json --data
@scopemod.json https://localhost:8443/web-services/rest/resource/Scope/rest_scope_1
```

Here, `scopemod.json` is the file used to modify/add the Scope object.

Modify/Add Object List

PUT /web-services/rest/resource/className

Accept: application/xml, application/json

When an object list is specified, matching objects are modified, and remaining objects are added. The complete object must always be specified in the input object. Attributes that are unset in the input object will be unset in the modified object, unless they are required.

If an error is encountered when adding objects (for example, if required attributes are missing), no objects are added or modified. However, new objects may be created when a modify error is encountered. In this case, if the client resends the entire list with the corrected data objects, all objects are processed as modify entries.

If the specified list exceeds the configured list limit (see section 8), the AX_E2BIG error is returned and no changes are made.

Example:

```
curl -X PUT -H Content-type:application/json --data
  [{"name": "s1",
    "policy": "new2",
    "subnet": "10.1.1.0/24"},
  {"name": "s2",
    "policy": "new2",
    "subnet": "10.1.2.0/24"},
  {"name": "s3",
    "policy": "new2",
    "subnet": "10.1.3.0/24"}]
https://localhost:8443/web-services/rest/resource/Scope

curl -v -H Accept:application/json --cacert cacert.pem -X PUT -H Content-Type:application/json --data
@scopemod.json https://localhost:8443/web-services/rest/resource/Scope
```

Here, scopemod.json is the file used to modify/add the specified list of Scope objects.

Get Object By Name

GET /web-services/rest/resource/className/objectName

Content-Type: application/xml, application/json

A 'not found' error is returned if the requested object does not exist.

Example:

```
curl -H "Accept:application/json" https://localhost:8443/web-services/rest/resource/Scope/s1

{"objectId":"OID-00:00:00:00:00:00:00:60",
 "name":"s1",
 "policy":"test2",
 "vpnId":"0",
 "subnet":"10.1.1.0/24",
 "tenantId":"0"}
```

Get Object List

GET /web-services/rest/resource/className

Content-Type: application/xml, application/json

You may include additional parameters to specify the filter criteria for the list. These may be specified as an exact match or regular expression for any attribute in the class. String comparisons are case-insensitive.

Specifying an invalid attribute name results in a 'bad request' error with a message stating the attribute is not valid for that class. For classes where vpnId or viewId applies, the default (0) is used when the parameter is omitted.

Result lists will be limited to 20 entries by default. When results exceed the limit, the return set will be truncated, and link will be provided to allow the client to retrieve the next chunk of data. For example, localhost:8443/web-services/rest/collection/56a7e561. The default limit is 20, but this is configurable using the 'cnr.rs-list-size' property. By

Standard Functions

default, client cursors are discarded after 5 minutes of inactivity. The timeout value is configurable using the 'cnr.rs-user-timeout' property. If the connection is closed, a 'not found' error is returned indicating the collection has expired.

Example:

```
curl -H "Accept:application/json" https://localhost:8443/web-services/rest/resource/Policy
```

```
[{"objectId":"OID-00:00:00:00:00:00:04",
  "name":"default",
  "offerTimeout":"2m",
  "gracePeriod":"5m",
  "optionList":{"OptionItem":[{"number":"51","value":"00:09:3a:80"}]},
  "tenantId":"0"},
 {"objectId":"OID-00:00:00:00:00:00:03",
  "name":"system_default_policy",
  "offerTimeout":"2m",
  "gracePeriod":"5m",
  "optionList":{"OptionItem":[{"number":"51","value":"00:09:3a:80"}]},
  "tenantId":"0"}]
```

```
curl -H "Accept:application/json" https://localhost:8443/web-services/rest/resource/Scope?name="s\[0-9\].*"
```

```
[{"objectId":"OID-00:00:00:00:00:00:01:b4",
  "name":"s1",
  "policy":"test2",
  "vpnId":"0",
  "subnet":"10.1.1.0/24",
  "description":"first test",
  "tenantId":"0"},
 {"objectId":"OID-00:00:00:00:00:00:01:b5",
  "name":"s2",
  "policy":"",
  "vpnId":"0",
  "subnet":"20.2.2.0/24",
  "description":"my test",
  "tenantId":"0"}]
```

Delete Object By Name

DELETE /web-services/rest/resource/className/objectName

A 'not found' error is returned if the requested object does not exist.

Example:

```
curl -X DELETE https://localhost:8443/web-services/rest/resource/Scope/TestScope1
```

Delete Object List

DELETE /web-services/rest/resource/className

Accept: application/xml, application/json

DELETE /web-services/rest/resource/className?nrOidList=OIDs

To delete a list of objects, most classes only require the object OID to be specified for each object in the list. Exceptions are the DnsEnumDomain, DnsEnumEntrySet, and CCMRRSet classes. These classes require the object name and view Id, if applicable. Because the CCMRRSet is a child class, it also requires the parent zone, which can be specified in the object, or as an input parameter.

If the specified list exceeds the configured list limit, the AX_E2BIG error is returned and no changes are made.

Standard Functions

Example:

```
curl -X DELETE -H Content-type:application/json --data
  [{"objectId": "OID-00:00:00:00:00:00:00:14"},
  {"objectId": "OID-00:00:00:00:00:00:00:23"}]
https://localhost:8443/web-services/rest/resource/Prefix
```

```
curl -v -H Accept:application/json --cacert cacert.pem -X DELETE -H Content-Type:application/json --data
@scope_delete_all.json https://localhost:8443/web-services/rest/resource/Scope
```

Here, `scope_delete_all.json` is the file used to delete the specified list of Scope objects.

Because Java clients that use the `java.net.HttpURLConnection` class cannot specify any content with a DELETE request, Cisco Prime Network Registrar also supports the `'nrOidList'` parameter to specify the object list. The list may be specified as a single comma-separated parameter entry, or by multiple parameter entries.

Example:

```
curl -X DELETE https://localhost:8443/web-services/rest/resource/Prefix?nrOidList=OID-
00:00:00:00:00:00:00:14,OID-00:00:00:00:00:00:00:23
```

```
curl -X DELETE https://localhost:8443/web-services/rest/resource/Prefix?nrOidList=OID-
00:00:00:00:00:00:00:14&nrOidList=OID-00:00:00:00:00:00:00:23
```

For the `DnsEnumDomain`, `DnsEnumEntrySet`, and `CCMRRSet` classes, where the OID cannot be used to identify the object, these clients can only delete the objects individually by name.

Child List Functions

Object and list functions are supported for the following child classes:

| Child Class | Parent Class | Parent Attribute |
|--------------------|---|--|
| Lease (read-only) | Scope | scope-name (ref) |
| Lease6 (read-only) | Prefix | prefix-name (ref) |
| Reservation | Scope | scope (ref) |
| Reservation6 | Prefix | prefix (name) |
| CCMRRSet | CCMZone, CCMReverseZone, CCMSecondaryZone | zone (oid ref), zone-origin (name ref) |
| CCMHost | CCMZone | zone (oid ref) |

These classes support the same set of standard functions, but work under different usage constraints. For example, a new child object cannot be added if the parent does not exist.

For the Lease, Lease6, Reservation, and Reservation6 objects, the parent can always be identified from the address and the `vpnlid` qualifier, if applicable. No additional parameters are required to identify the child objects.

Example:

```
Return the lease list for Scope 'test':
https://localhost:8443/web-services/resource/Lease?scopeName=test
```

```
Get a lease:
https://localhost:8443/web-services/resource/Lease/10.10.1.1
```

```
Return the reservation list for Scope 'test':
https://localhost:8443/web-services/rest/resource/Reservation?scope=test
```

Commonly Used Classes in Cisco Prime Network Registrar

Get a Reservation:
 https://localhost:8443/web-services/resource/Reservation/10.10.1.1?vpnId=2

For CCMRRSet objects, the parent zone OID can be specified in the object, or the zoneOrigin attribute, combined with the viewId qualifier, if applicable, can be used to find the parent. For CCMHost objects, however, the parent zone OID must always be specified with the relative host name. For this release, we will add support for a zoneOrigin attribute, to allow consistent naming options for both. For these classes, an error is returned if the parent zone is not specified, or the parent zone cannot be found.

Example:

Return the RR set 'sample' in the zone 'a.tst.':
 https://localhost:8443/web-services/resource/CCMRRSet/sample?zoneOrigin=a.tst.

Return the host list for zone 'a.tst.':
 https://localhost:8443/web-services/rest/resource/CCMHost?zoneOrigin=a.tst.

Commonly Used Classes in Cisco Prime Network Registrar

Following sections describe the most commonly used classes in Cisco Prime Network Registrar and the basic operations that can be performed on them:

Scope

A DHCP Scope object. A scope defines a set of dynamic address pools on a subnet that share its configuration attributes. A scope can also contain reserved addresses on the specified subnet that should use the configuration.

| | |
|---|---|
| Create Scope Object | |
| Creates a Cisco Prime Network Registrar Scope object. | |
| Method: | POST |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Scope |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "name": "rest_scope_1", "policy": "default", "rangeList": { "RangeItem": [{ "end": "1.0.0.100", "start": "1.0.0.1" }] }, "subnet": "1.0.0.0/24", "tenantId": "0", "vpnId": "0" }</pre> |
| Get Scope Object List | |
| Gets the list of Cisco Prime Network Registrar Scope objects. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Scope |

| | |
|--|---|
| Header: | Accept:application/json |
| Response Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:5b", "name": "rest_scope_1", "policy": "default", "rangeList": { "RangeItem": [{ "end": "1.0.0.100", "start": "1.0.0.1" }] }, "subnet": "1.0.0.0/24", "tenantId": "0", "vpnId": "0" }, { "objectId": "OID-00:00:00:00:00:00:00:57", "name": "test", "policy": "default", "rangeList": { "RangeItem": [{ "end": "2.0.0.100", "start": "2.0.0.1" }] }, "subnet": "2.0.0.0/24", "tenantId": "0", "vpnId": "0" }]</pre> |
| <p>Get Scope Object By Name</p> <p>Gets the Cisco Prime Network Registrar Scope object by name.</p> | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Scope/rest_scope_1 |
| Header: | Accept:application/json |
| Response Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:5b", "name": "rest_scope_1", "policy": "default", "rangeList": { "RangeItem": [{ "end": "1.0.0.100", "start": "1.0.0.1" }] }, "subnet": "1.0.0.0/24", "tenantId": "0", "vpnId": "0" }</pre> |

| | |
|--|---|
| Modify Scope Object By Name | |
| Modifies or creates the specified Cisco Prime Network Registrar Scope object. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Scope/rest_scope_1 |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "name": "rest_scope_1", "policy": "default", "rangeList": { "RangeItem": [{ "end": "1.0.0.200", "start": "1.0.0.1" }] }, "subnet": "1.0.0.0/24", "tenantId": "0", "vpnId": "0" }</pre> |
| Modify Scope Object List | |
| Modifies or creates the specified list of Cisco Prime Network Registrar Scope objects. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Scope |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{ "name": "rest_scope_1", "policy": "default", "rangeList": { "RangeItem": [{ "end": "1.0.0.100", "start": "1.0.0.1" }] }, "subnet": "1.0.0.0/24", "tenantId": "0", "vpnId": "0" }, { "name": "rest_scope_2", "policy": "default", "rangeList": { "RangeItem": [{ "end": "2.0.0.100", "start": "2.0.0.1" }] }, "subnet": "2.0.0.0/24", "tenantId": "0", "vpnId": "0" }]</pre> |

| | |
|--|---|
| Delete Scope Object By Name | |
| Deletes the specified Cisco Prime Network Registrar Scope object. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Scope/rest_scope_1 |
| Delete Scope Object List | |
| Deletes the specified list of Cisco Prime Network Registrar Scope objects. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Scope |
| Header: | Content-Type:application/json |
| Request Body: | [<pre> { "objectId": "OID-00:00:00:00:00:00:00:62" }, { "objectId": "OID-00:00:00:00:00:00:00:57" } </pre>] |

Prefix

An IPv6 prefix. A prefix defines the DHCPv6 configuration for the given address pool.

| | |
|--|---|
| Create Prefix Object | |
| Creates a Cisco Prime Network Registrar Prefix object. | |
| Method: | POST |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Prefix |
| Header: | Content-Type:application/json |
| Request Body: | { <pre> "address": "2001::/64", "name": "rest_prefix_1", "tenantId": "0", "vpnId": "0" </pre> } |
| Get Prefix Object List | |
| Gets the list of Cisco Prime Network Registrar Prefix objects. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Prefix |
| Header: | Accept:application/json |

Commonly Used Classes in Cisco Prime Network Registrar

| | |
|--|--|
| Response Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:61", "address": "2001::/64", "name": "rest_prefix_1", "tenantId": "0", "vpnId": "0" }, { "objectId": "OID-00:00:00:00:00:00:00:60", "address": "1001::/64", "name": "test", "tenantId": "0", "vpnId": "0" }]</pre> |
| <p>Get Prefix Object By Name</p> <p>Gets the Cisco Prime Network Registrar Prefix object by name.</p> | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Prefix/rest_prefix_1 |
| Header: | Accept:application/json |
| Response Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:61", "address": "2001::/64", "name": "rest_prefix_1", "tenantId": "0", "vpnId": "0" }</pre> |
| <p>Modify Prefix Object By Name</p> <p>Modifies or creates the specified Cisco Prime Network Registrar Prefix object.</p> | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Prefix/rest_prefix_1 |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "address": "2001::/64", "name": "rest_prefix_1", "description": "rest", "tenantId": "0", "vpnId": "0" }</pre> |
| <p>Modify Prefix Object List</p> <p>Modifies or creates the specified list of Cisco Prime Network Registrar Prefix objects.</p> | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Prefix |
| Header: | Content-Type:application/json |

| | |
|---|--|
| Request Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:61", "address": "2001::/64", "description": "created via rest", "name": "rest_prefix_1", "tenantId": "0", "vpnId": "0" }, { "objectId": "OID-00:00:00:00:00:00:00:60", "address": "1001::/64", "description": "created via manually", "name": "test", "tenantId": "0", "vpnId": "0" }]</pre> |
| Delete Prefix Object By Name | |
| Deletes the specified Cisco Prime Network Registrar Prefix object. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Prefix/rest_prefix_1 |
| Delete Prefix Object List | |
| Deletes the specified list of Cisco Prime Network Registrar Prefix objects. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Prefix |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{"objectId": "OID-00:00:00:00:00:00:00:61"}, {"objectId": "OID-00:00:00:00:00:00:00:60"}]</pre> |

CCMScopeTemplate

A template for creating a Scope object from a subnet address. Most attributes are copied literally from the template to the newly created scope.

| | |
|--|--|
| Create CCMScopeTemplate Object | |
| Creates a Cisco Prime Network Registrar CCMScopeTemplate object. | |
| Method: | POST |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMScopeTemplate |
| Header: | Content-Type:application/json |

Commonly Used Classes in Cisco Prime Network Registrar

| | |
|--|--|
| Request Body: | <pre>{ "name": "Rest_Scope_template", "policy": "default", "rangesExpr": "(create-range 1 10)", "scopeName": "(concat \"ISP-\" subnet)", "tenantId": "0" }</pre> |
| <p>Get CCMScopeTemplate Object List</p> <p>Gets the list of Cisco Prime Network Registrar CCMScopeTemplate objects.</p> | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMScopeTemplate |
| Header: | Accept:application/json |
| Response Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:53", "name": "Rest_Scope_template", "policy": "default", "rangesExpr": "(create-range 1 10)", "scopeName": "(concat \"ISP-\" subnet)", "tenantId": "0" }, { "objectId": "OID-00:00:00:00:00:00:00:52", "name": "ST", "policy": "default", "rangesExpr": "(create-range 1 10)", "scopeName": "(concat \"ISP-\" subnet)", "tenantId": "0" }]</pre> |
| <p>Get CCMScopeTemplate Object By Name</p> <p>Gets the Cisco Prime Network Registrar CCMScopeTemplate object by name.</p> | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-serviceeTemplate/Rest_Scope_template |
| Header: | Accept:application/json |
| Response Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:53", "name": "Rest_Scope_template", "policy": "default", "rangesExpr": "(create-range 1 10)", "scopeName": "(concat \"ISP-\" subnet)", "tenantId": "0" }</pre> |
| <p>Modify CCMScopeTemplate Object By Name</p> <p>Modifies or creates the specified Cisco Prime Network Registrar CCMScopeTemplate object.</p> | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMScopeTemplate/Rest_Scope_template |

| | |
|---|--|
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:53", "name": "Rest_Scope_template", "policy": "default", "rangesExpr": "(create-range 1 100)", "scopeName": "(concat \"REST-\" subnet)", "tenantId": "0" }</pre> |
| Modify CCMScopeTemplate Object List | |
| Modifies or creates the specified list of Cisco Prime Network Registrar CCMScopeTemplate objects. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMScopeTemplate |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:53", "name": "Rest_Scope_template", "policy": "default", "rangesExpr": "(create-range 1 10)", "scopeName": "(concat \"REST-\" subnet)", "tenantId": "0" }, { "name": "Rest_Scope_template_for_delete", "policy": "default", "rangesExpr": "(create-range 1 10)", "scopeName": "(concat \"ISP-\" subnet)", "tenantId": "0" }]</pre> |
| Delete CCMScopeTemplate Object By Name | |
| Deletes the specified Cisco Prime Network Registrar CCMScopeTemplate object. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMScopeTemplate/Rest_Scope_template_for_delete |
| Delete CCMScopeTemplate Object List | |
| Deletes the specified list of Cisco Prime Network Registrar CCMScopeTemplate objects. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMScopeTemplate |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{"objectId":"OID-00:00:00:00:00:00:00:52"}, {"objectId":"OID-00:00:00:00:00:00:00:53"}]</pre> |

PrefixTemplate

A template to create IPv6 prefixes.

| | |
|--|--|
| Create PrefixTemplate Object | |
| Creates a Cisco Prime Network Registrar PrefixTemplate object. | |
| Method: | POST |
| Endpoint: | https://localhost:8443/web-services/rest/resource/PrefixTemplate |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "name": "rest_pt_1", "policy": "default", "prefixDescriptionExpr": "(concat \"CM-\" prefix)", "tenantId": "0" }</pre> |
| Get PrefixTemplate Object List | |
| Gets the list of Cisco Prime Network Registrar PrefixTemplate objects. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/PrefixTemplate |
| Header: | Accept:application/json |
| Response Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:6b", "description": "ss", "name": "pt", "policy": "default", "prefixDescriptionExpr": "(concat \"CM-\" prefix)", "tenantId": "0" }, { "objectId": "OID-00:00:00:00:00:00:00:6d", "description": "rest_put_by_name", "name": "rest_pt_1", "policy": "default", "prefixDescriptionExpr": "(concat \"CM-\" prefix)", "tenantId": "0" }, { "objectId": "OID-00:00:00:00:00:00:00:6c", "name": "Rest_Scope_template_1", "policy": "default", "tenantId": "0" }]</pre> |
| Get PrefixTemplate Object By Name | |
| Gets the Cisco Prime Network Registrar PrefixTemplate object by name. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/PrefixTemplate/rest_pt_1 |

| | |
|---|---|
| Header: | Accept:application/json |
| Response Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:6d", "name": "rest_pt_1", "policy": "default", "prefixDescriptionExpr": "(concat \"CM-\" prefix)", "tenantId": "0" }</pre> |
| Modify PrefixTemplate Object By Name | |
| Modifies or creates the specified Cisco Prime Network Registrar PrefixTemplate object. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/PrefixTemplate/rest_pt_1 |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:6d", "name": "rest_pt_1", "policy": "default", "prefixDescriptionExpr": "(concat \"CM-\" prefix)", "tenantId": "0", "description": "rest_put_by_name" }</pre> |
| Modify PrefixTemplate Object List | |
| Modifies or creates the specified list of Cisco Prime Network Registrar PrefixTemplate objects. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/PrefixTemplate |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{ "name": "rest_pt_2", "policy": "default", "prefixDescriptionExpr": "(concat \"CPE-\" prefix)", "tenantId": "0" }, { "objectId": "OID-00:00:00:00:00:00:00:6d", "description": "rest_put_by_all", "name": "rest_pt_1", "policy": "default", "prefixDescriptionExpr": "(concat \"CM-\" prefix)", "tenantId": "0" }]</pre> |
| Delete PrefixTemplate Object By Name | |
| Deletes the specified Cisco Prime Network Registrar PrefixTemplate object. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/PrefixTemplate/rest_pt_2 |

| | |
|---|--|
| Delete PrefixTemplate Object List | |
| Deletes the specified list of Cisco Prime Network Registrar PrefixTemplate objects. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/PrefixTemplate |
| Header: | Content-Type:application/json |
| Request Body: | [<pre> {"objectId":"OID-00:00:00:00:00:00:00:6b"}, {"objectId":"OID-00:00:00:00:00:00:00:6c"}]</pre> |

Link

A physical network link. Multiple logical IP networks may be running concurrently on the same link.

| | |
|--|--|
| Create Link Object | |
| Creates a Cisco Prime Network Registrar Link object. | |
| Method: | POST |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Link |
| Header: | Content-Type:application/json |
| Request Body: | { <pre> "description": "rest_link", "name": "rest_link_1", "tenantId": "0", "vpnId": "0" }</pre> |
| Get Link Object List | |
| Gets the list of Cisco Prime Network Registrar Link objects. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Link |
| Header: | Accept:application/json |
| Response Body: | [<pre> { "objectId": "OID-00:00:00:00:00:00:00:6f", "description": "test", "name": "l1", "tenantId": "0", "vpnId": "0" }, { "objectId": "OID-00:00:00:00:00:00:00:70", "description": "rest_link", "name": "rest_link_1", "tenantId": "0", "vpnId": "0" }]</pre> |

| | |
|---|---|
| Get Link Object By Name | |
| Gets the Cisco Prime Network Registrar Link object by name. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Link/rest_link_1 |
| Header: | Accept:application/json |
| Response Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:70", "description": "rest_link", "name": "rest_link_1", "tenantId": "0", "vpnId": "0" }</pre> |
| Modify Link Object By Name | |
| Modifies or creates the specified Cisco Prime Network Registrar Link object. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Link/rest_link_1 |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:70", "description": "rest_put_byname", "name": "rest_link_1", "tenantId": "0", "vpnId": "0" }</pre> |
| Modify Link Object List | |
| Modifies or creates the specified list of Cisco Prime Network Registrar Link objects. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Link |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{ "name": "rest_link_2", "tenantId": "0", "vpnId": "0" }, { "objectId": "OID-00:00:00:00:00:00:00:70", "description": "rest_put_all", "name": "rest_link_1", "tenantId": "0", "vpnId": "0" }]</pre> |
| Delete Link Object By Name | |
| Deletes the specified Cisco Prime Network Registrar Link object. | |

Commonly Used Classes in Cisco Prime Network Registrar

| | |
|---|---|
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Link/rest_link_2 |
| Delete Link Object List | |
| Deletes the specified list of Cisco Prime Network Registrar Link objects. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Link |
| Header: | Content-Type:application/json |
| Request Body: | [{"objectId": "OID-00:00:00:00:00:00:00:6F"}, {"objectId": "OID-00:00:00:00:00:00:00:70"}] |

LinkTemplate

A template to create IPv6 links and associated prefixes.

| | |
|--|---|
| Create LinkTemplate Object | |
| Creates a Cisco Prime Network Registrar LinkTemplate object. | |
| Method: | POST |
| Endpoint: | https://localhost:8443/web-services/rest/resource/LinkTemplate |
| Header: | Content-Type:application/json |
| Request Body: | { "description": "rest_create", "linkNameExpr": "(concat \"link-\" prefix)", "name": "rest_lt_1", "prefixExpr": "(list\n (create-prefix \"cm-prefix\" (create-prefix-range 32 1))\n (create-prefix \"cpe-address-prefix\" (create-prefix-range 32 2))\n (create-prefix \"cpe-pd-prefix\" (create-prefix-range 16 1)))", "tenantId": "0" } |
| Get LinkTemplate Object List | |
| Gets the list of Cisco Prime Network Registrar LinkTemplate objects. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/LinkTemplate |
| Header: | Accept:application/json |

| | |
|--|---|
| Response Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:72", "description": "lt", "linkNameExpr": "(concat \"link-\" prefix)", "name": "lt", "prefixExpr": "(list\n (create-prefix \"cm-prefix\" (create-prefix-range 32 1))\n (create-prefix \"cpe-address-prefix\" (create-prefix-range 32 2))\n (create-prefix \"cpe-pd-prefix\" (create-prefix-range 16 1)))", "tenantId": "0" }, { "objectId": "OID-00:00:00:00:00:00:00:73", "description": "rest_create", "linkNameExpr": "(concat \"link-\" prefix)", "name": "rest_lt_1", "prefixExpr": "(list\n (create-prefix \"cm-prefix\" (create-prefix-range 32 1))\n (create-prefix \"cpe-address-prefix\" (create-prefix-range 32 2))\n (create-prefix \"cpe-pd-prefix\" (create-prefix-range 16 1)))", "tenantId": "0" }]</pre> |
| Get LinkTemplate Object By Name | |
| Gets the Cisco Prime Network Registrar LinkTemplate object by name. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/LinkTemplate/rest_lt_1 |
| Header: | Accept:application/json |
| Response Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:73", "description": "rest_create", "linkNameExpr": "(concat \"link-\" prefix)", "name": "rest_lt_1", "prefixExpr": "(list\n (create-prefix \"cm-prefix\" (create-prefix-range 32 1))\n (create-prefix \"cpe-address-prefix\" (create-prefix-range 32 2))\n (create-prefix \"cpe-pd-prefix\" (create-prefix-range 16 1)))", "tenantId": "0" }</pre> |
| Modify LinkTemplate Object By Name | |
| Modifies or creates the specified Cisco Prime Network Registrar LinkTemplate object. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/LinkTemplate/rest_lt_1 |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:73", "description": "rest_put_byname", "linkNameExpr": "(concat \"link-\" prefix)", "name": "rest_lt_1", "prefixExpr": "(list\n (create-prefix \"cm-prefix\" (create-prefix-range 32 1))\n (create-prefix \"cpe-address-prefix\" (create-prefix-range 32 2))\n (create-prefix \"cpe-pd-prefix\" (create-prefix-range 16 1)))", "tenantId": "0" }</pre> |

| | |
|---|--|
| Modify LinkTemplate Object List | |
| Modifies or creates the specified list of Cisco Prime Network Registrar LinkTemplate objects. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/LinkTemplate |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{ "linkNameExpr": "(concat \"link-\" prefix)", "name": "rest_l_2", "prefixExpr": "(list\n (create-prefix \"cm-prefix\" (create-prefix-range 32 1))\n (create-prefix \"cpe-address-prefix\" (create-prefix-range 32 2))\n (create-prefix \"cpe-pd-prefix\" (create-prefix-range 16 1)))", "tenantId": "0" }, { "objectId": "OID-00:00:00:00:00:00:00:73", "description": "rest_put_all", "linkNameExpr": "(concat \"link-\" prefix)", "name": "rest_lt_1", "prefixExpr": "(list\n (create-prefix \"cm-prefix\" (create-prefix-range 32 1))\n (create-prefix \"cpe-address-prefix\" (create-prefix-range 32 2))\n (create-prefix \"cpe-pd-prefix\" (create-prefix-range 16 1)))", "tenantId": "0" }]</pre> |
| Delete LinkTemplate Object By Name | |
| Deletes the specified Cisco Prime Network Registrar LinkTemplate object. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/LinkTemplate/rest_lt_1 |
| Delete LinkTemplate Object List | |
| Deletes the specified list of Cisco Prime Network Registrar LinkTemplate objects. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/LinkTemplate |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{"objectId": "OID-00:00:00:00:00:00:00:72"}, {"objectId": "OID-00:00:00:00:00:00:00:74"}]</pre> |

Policy

A DHCP Policy object. The policy defines the set of DHCP Options and server policy settings that should be applied when granting a lease.

| | |
|--|--|
| Create Policy Object | |
| Creates a Cisco Prime Network Registrar Policy object. | |
| Method: | POST |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Policy |
| Header: | Content-Type:application/json |
| Request Body: | { "name": "rest_policy1" } |
| Get Policy Object List | |
| Gets the list of Cisco Prime Network Registrar Policy objects. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Policy |
| Header: | Accept:application/json |
| Response Body: | [{ "objectId": "OID-00:00:00:00:00:00:00:04", "gracePeriod": "5m", "name": "default", "offerTimeout": "2m", "optionList": { "OptionItem": [{ "number": "51", "value": "1w" }] }, "tenantId": "0" }, { "objectId": "OID-00:00:00:00:00:00:00:6e", "forwardDnsupdate": "update1", "forwardZoneName": "zone1.com.", "name": "p1", "optionList": { "OptionItem": [{ "number": "51", "optionDefinitionSetName": "dhcp-config", "value": "2w" }, { "number": "5", "optionDefinitionSetName": "dhcp-config", "value": "10.104.245.212" }] }, "tenantId": "0", "vendorOptions": { "OptionItem": [{ "number": "1", "optionDefinitionSetName": "rest-vend-op1", "value": "(suboption1 10 1.1.1.1)" }] } }] |

| | |
|---|--|
| Get Policy Object By Name | |
| Gets the Cisco Prime Network Registrar Policy object by name. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Policy/rest_policy1 |
| Header: | Accept:application/json |
| Response Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:99", "name": "rest_policy1", "optionList": { "OptionItem": [{ "number": "51", "optionDefinitionSetName": "dhcp-config", "value": "2w" }, { "number": "5", "optionDefinitionSetName": "dhcp-config", "value": "10.104.245.212" }] }, "tenantId": "0" }</pre> |
| Modify Policy Object By Name | |
| Modifies or creates the specified Cisco Prime Network Registrar Policy object. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Policy/rest_policy1 |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:99", "name": "rest_policy1", "optionList": { "OptionItem": [{ "number": "51", "optionDefinitionSetName": "dhcp-config", "value": "2w" }, { "number": "5", "optionDefinitionSetName": "dhcp-config", "value": "10.104.245.212" }] } }</pre> |
| Modify Policy Object List | |
| Modifies or creates the specified list of Cisco Prime Network Registrar Policy objects. | |
| Method: | PUT |

| | |
|---|---|
| Endpoint: | https://localhost:8443/web-services/rest/resource/Policy |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{ "forwardDnsupdate": "update1", "forwardZoneName": "zone1.com.", "name": "rest_policy2", "optionList": { "OptionItem": [{ "number": "51", "optionDefinitionSetName": "dhcp-config", "value": "2w" }, { "number": "5", "optionDefinitionSetName": "dhcp-config", "value": "10.104.245.212" }] }, "tenantId": "0", "vendorOptions": { "OptionItem": [{ "number": "1", "optionDefinitionSetName": "rest-vend-op1", "value": "(suboption1 10 1.1.1.1)" }, { "number": "125", "optionDefinitionSetName": "rest-vend-opt-125", "value": "(1 (2 test))" }] } }, { "name": "rest_policy3" }]</pre> |
| Delete Policy Object By Name | |
| Deletes the specified Cisco Prime Network Registrar Policy object. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Policy/rest_policy1 |
| Delete Policy Object List | |
| Deletes the specified list of Cisco Prime Network Registrar Policy objects. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Policy |
| Header: | Content-Type:application/json |

| | |
|---------------|---|
| Request Body: | <pre>[{"objectId":"OID-00:00:00:00:00:00:00:9b"}, {"objectId":"OID-00:00:00:00:00:00:00:9a"}]</pre> |
|---------------|---|

OptionDefinitionSet

Contains sets of DHCP option definitions. Define one set for DHCPv4, and another set for DHCPv6. Option definitions override a server's corresponding built-in definitions. Also use this class for vendor option definition sets. You can have as many vendor option definition sets as required.

| | |
|---|---|
| Create OptionDefinitionSet Object | |
| Creates a Cisco Prime Network Registrar OptionDefinitionSet object. | |
| Method: | POST |
| Endpoint: | https://localhost:8443/web-services/rest/resource/OptionDefinitionSet |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "desc": "", "flags": "customized,vendor", "idRange": "1", "name": "rest-vend-opt-125", "optionList": { "AttrDescItem": [{ "baseType": "AT_VENDOR_OPTS", "flags": "", "id": "125", "name": "rest_option1", "optionList": { "AttrDescItem": [{ "baseType": "AT_IPADDR", "flags": "", "id": "1", "name": "giaddr", "optionList": { "AttrDescItem": [{ "baseType": "AT_STRING", "flags": "", "id": "2", "name": "domainname", "repeat": "0" }] } }] }, "repeat": "0" }] }, "vendorOptionEnterpriseId": "100" }</pre> |

| | |
|---|--|
| Get OptionDefinitionSet Object List | |
| Gets the list of Cisco Prime Network Registrar OptionDefinitionSet objects. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/OptionDefinitionSet |
| Header: | Accept:application/json |
| Response Body: | <pre>[{ "desc": "CableLabs v4 DOCSIS 3.0", "flags": "builtin,vendor", "idRange": "1", "name": "dhcp-cablelabs-config", "optionList": { "AttrDescItem": [{ "baseType": "AT_BLOB", "flags": "AF_NO_CONFIG_OPTION,AF_IMMUTABLE", "id": "82", "name": "relay-agent-info", "optionList": { "AttrDescItem": [{ "baseType": "AT_VENDOR_OPTS", "flags": "AF_NO_CONFIG_OPTION,AF_IMMUTABLE", "id": "9", "name": "v-i-vendor-opts", "optionList": { "AttrDescItem": [{ "baseType": "AT_BLOB", "flags": "AF_NO_CONFIG_OPTION,AF_IMMUTABLE", "id": "1", "name": "cmts-capabilities", "optionList": { "AttrDescItem": [{ "baseType": "AT_BLOB", "flags": "AF_NO_CONFIG_OPTION,AF_IMMUTABLE", "id": "1", "name": "docsis-version", "optionList": { "AttrDescItem": [{ "baseType": "AT_INT8", "flags": "AF_NO_CONFIG_OPTION,AF_IMMUTABLE", "id": "0", "name": "docsis-major- version", "repeat": "0" }, ] } }] } }] } }] } }] } }]</pre> |

| | |
|---|--|
| Get OptionDefinitionSet Object By Name | |
| Gets the Cisco Prime Network Registrar OptionDefinitionSet object by name. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/OptionDefinitionSet/rest-vend-opt-125 |
| Header: | Accept:application/json |
| Response Body: | <pre> { "objectId": "OID-00:00:00:00:00:00:00:91", "desc": "", "flags": "customized,vendor", "idRange": "1", "name": "rest-vend-opt-125", "optionList": { "AttrDescItem": [{ "baseType": "AT_VENDOR_OPTS", "flags": "", "id": "125", "name": "ven-opt", "optionList": { "AttrDescItem": [{ "baseType": "AT_IPADDR", "flags": "", "id": "1", "name": "giaddr", "optionList": { "AttrDescItem": [{ "baseType": "AT_STRING", "flags": "", "id": "2", "name": "domainname", "repeat": "0" }] } }, { "repeat": "0" }] } }, { "repeat": "0" }] } }, "vendorOptionEnterpriseId": "100" </pre> |
| Modify OptionDefinitionSet Object By Name | |
| Modifies or creates the specified Cisco Prime Network Registrar OptionDefinitionSet object. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/OptionDefinitionSet/rest-vend-opt-2 |
| Header: | Content-Type:application/json |

| | |
|---|---|
| Request Body: | <pre>{ "flags": "customized,vendor", "idRange": "2", "name": "rest-vend-opt-2", "vendorOptionEnterpriseId": "100" }</pre> |
| Delete OptionDefinitionSet Object By Name | |
| Deletes the specified Cisco Prime Network Registrar OptionDefinitionSet object. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/OptionDefinitionSet/rest-vend-opt-125 |

CCMZone

A forward primary DNS zone. Describes the configuration for a primary DNS zone.

| | |
|---|---|
| Create CCMZone Object | |
| Creates a Cisco Prime Network Registrar CCMZone object. | |
| Method: | POST |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMZone |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "defttl": "24h", "expire": "1w", "minttl": "10m", "nameservers": { "stringItem": ["ns.cisco.com."] }, "ns": "ns.cisco.com.", "origin": "cisco.com.", "person": "mail.cisco.com.", "refresh": "3h", "retry": "60m", "serial": "1", "tenantId": "0", "viewId": "0" }</pre> |
| Get CCMZone Object List | |
| Gets the list of Cisco Prime Network Registrar CCMZone objects. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMZone?viewId=3 |
| Header: | Accept:application/json |

| | |
|--|--|
| Response Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:76", "defttl": "10h", "description": "external", "expire": "1w", "minttl": "10m", "nameservers": { "stringItem": ["ns.cisco.com."] }, "ns": "ns.cisco.com.", "origin": "cisco.com.", "person": "mail.cisco.com.", "refresh": "3h", "retry": "60m", "serial": "1", "tenantId": "0", "viewId": "3" }, { "objectId": "OID-00:00:00:00:00:00:00:70", "defttl": "24h", "expire": "1w", "minttl": "10m", "nameservers": { "stringItem": ["ns.test.com."] }, "ns": "ns.test.com.", "origin": "test.com.", "person": "mail.test.com.", "refresh": "3h", "retry": "60m", "serial": "1", "tenantId": "0", "viewId": "3" }]</pre> |
| Get CCMZone Object By Name | |
| Gets the Cisco Prime Network Registrar CCMZone object by name. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMZone/cisco.com. |
| Header: | Accept:application/json |

| | |
|--|---|
| Response Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:77", "defttl": "24h", "expire": "1w", "minttl": "10m", "nameservers": { "stringItem": ["ns.cisco.com."] }, "ns": "ns.cisco.com.", "origin": "cisco.com.", "person": "maill.cisco.com.", "refresh": "3h", "retry": "60m", "serial": "1", "tenantId": "0", "viewId": "0" }</pre> |
| Modify CCMZone Object By Name | |
| Modifies or creates the specified Cisco Prime Network Registrar CCMZone object. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMZone/cisco.com. |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:7e", "defttl": "14h", "expire": "1w", "minttl": "10m", "nameservers": { "stringItem": ["ns.cisco.com."] }, "ns": "ns.cisco.com.", "origin": "cisco.com.", "person": "maill.cisco.com.", "refresh": "1h", "retry": "60m", "serial": "1", "tenantId": "0", "viewId": "0" }</pre> |
| Modify CCMZone Object List | |
| Modifies or creates the specified list of Cisco Prime Network Registrar CCMZone objects. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMZone |
| Header: | Content-Type:application/json |

| | |
|--|---|
| Request Body: | <pre>[{ "defttl": "10h", "description": "external", "expire": "1w", "minttl": "10m", "nameservers": { "stringItem": ["ns.isco.com."] }, "ns": "ns.isco.com.", "origin": "isco.com.", "person": "maill.isco.com.", "refresh": "3h", "retry": "60m", "serial": "1", "tenantId": "0", "viewId": "3" }, { "defttl": "24h", "expire": "1w", "minttl": "10m", "nameservers": { "stringItem": ["ns.cscocom.com."] }, "ns": "ns.cscocom.com.", "origin": "cscocom.com.", "person": "maill.cscocom.com.", "refresh": "3h", "retry": "60m", "serial": "1", "tenantId": "0", "viewId": "2" }, { "objectOid": "OID-00:00:00:00:00:00:00:7e", "defttl": "24h", "expire": "1w", "minttl": "10m", "nameservers": { "stringItem": ["ns.cisco.com."] }, "ns": "ns.cisco.com.", "origin": "cisco.com.", "person": "maill.cisco.com.", "refresh": "3h", "retry": "60m", "serial": "1", "tenantId": "0", "viewId": "0" }]</pre> |
| <p>Delete CCMZone Object By Name</p> <p>Deletes the specified Cisco Prime Network Registrar CCMZone object.</p> | |
| Method: | DELETE |

| | |
|--|---|
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMZone/cisco.com. |
| Delete CCMZone Object List | |
| Deletes the specified list of Cisco Prime Network Registrar CCMZone objects. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMZone |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:7f", "viewId": "3" }, { "objectId": "OID-00:00:00:00:00:00:00:81", "viewId": "2" }]</pre> |

CCMReverseZone

A reverse primary DNS zone.

| | |
|--|--|
| Create CCMReverseZone Object | |
| Creates a Cisco Prime Network Registrar CCMReverseZone object. | |
| Method: | POST |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMReverseZone |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "defttl": "24h", "expire": "1w", "minttl": "10m", "nameservers": { "stringItem": ["ns.1.in-addr.arpa."] }, "ns": "ns.1.in-addr.arpa.", "origin": "1.in-addr.arpa.", "person": "mail1.1.in-addr.arpa.", "refresh": "3h", "retry": "60m", "serial": "1", "tenantId": "0", "viewId": "0" }</pre> |
| Get CCMReverseZoneObject List | |
| Gets the list of Cisco Prime Network Registrar CCMReverseZone objects. | |
| Method: | GET |

Commonly Used Classes in Cisco Prime Network Registrar

| | |
|--|---|
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMReverseZone |
| Header: | Accept:application/json |
| Response Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:85", "defttl": "24h", "expire": "1w", "minttl": "10m", "nameservers": { "stringItem": ["ns.1.in-addr.arpa."] }, "ns": "ns.1.in-addr.arpa.", "origin": "1.in-addr.arpa.", "person": "mail1.1.in-addr.arpa.", "refresh": "3h", "retry": "60m", "serial": "1", "tenantId": "0", "viewId": "0" }, { "objectId": "OID-00:00:00:00:00:00:00:02", "defttl": "24h", "distMap": "OID-00:00:00:00:00:00:00:00", "expire": "1w", "minttl": "10m", "nameservers": { "stringItem": ["localhost.127.in-addr.arpa."] }, "ns": "localhost.127.in-addr.arpa.", "origin": "127.in-addr.arpa.", "person": "loopback.127.in-addr.arpa.", "refresh": "3h", "retry": "60m", "serial": "1", "tenantId": "0" }]</pre> |
| <p>Get CCMReverseZone Object By Name</p> <p>Gets the Cisco Prime Network Registrar CCMReverseZone object by name.</p> | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMReverseZone/30.in-addr.arpa.?viewId=3 |
| Header: | Accept:application/json |

| | |
|---|--|
| Response Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:8a", "defttl": "10h", "description": "external", "expire": "1w", "minttl": "10m", "nameservers": { "stringItem": ["ns.30.in-addr.arpa."] }, "ns": "ns.30.in-addr.arpa.", "origin": "30.in-addr.arpa.", "person": "mail1.30.in-addr.arpa.", "refresh": "3h", "retry": "60m", "serial": "1", "tenantId": "0", "viewId": "3" }</pre> |
| Modify CCMReverseZone Object By Name | |
| Modifies or creates the specified Cisco Prime Network Registrar CCMReverseZone object. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMReverseZone/1.in-addr.arpa. |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:85", "defttl": "14h", "expire": "1w", "minttl": "10m", "nameservers": { "stringItem": ["ns.1.in-addr.arpa."] }, "ns": "ns.1.in-addr.arpa.", "origin": "1.in-addr.arpa.", "person": "mail1.1.in-addr.arpa.", "refresh": "1h", "retry": "60m", "serial": "1", "tenantId": "0", "viewId": "0" }</pre> |
| Modify CCMReverseZone Object List | |
| Modifies or creates the specified list of Cisco Prime Network Registrar CCMReverseZone objects. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMReverseZone |
| Header: | Content-Type:application/json |

| | |
|--|---|
| Request Body: | <pre>[{ "defttl": "10h", "description": "external", "expire": "1w", "minttl": "10m", "nameservers": { "stringItem": ["ns.30.in-addr.arpa."] }, "ns": "ns.30.in-addr.arpa.", "origin": "30.in-addr.arpa.", "person": "maill.30.in-addr.arpa.", "refresh": "3h", "retry": "60m", "serial": "1", "tenantId": "0", "viewId": "3" }, { "defttl": "24h", "expire": "1w", "minttl": "10m", "nameservers": { "stringItem": ["ns.20.in-addr.arpa."] }, "ns": "ns.20.in-addr.arpa.", "origin": "20.in-addr.arpa.", "person": "maill.20.in-addr.arpa.", "refresh": "3h", "retry": "60m", "serial": "1", "tenantId": "0", "viewId": "2" }, { "objectOid": "OID-00:00:00:00:00:00:00:85", "defttl": "24h", "expire": "1w", "minttl": "10m", "nameservers": { "stringItem": ["ns.1.in-addr.arpa."] }, "ns": "ns.1.in-addr.arpa.", "origin": "1.in-addr.arpa.", "person": "maill.1.in-addr.arpa.", "refresh": "3h", "retry": "60m", "serial": "1", "tenantId": "0", "viewId": "0" }]</pre> |
| Delete CCMReverseZone Object By Name | |
| Deletes the specified Cisco Prime Network Registrar CCMReverseZone object. | |
| Method: | DELETE |

| | |
|---|---|
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMReverseZone/20.in-addr.arpa.?viewId=2 |
| Delete CCMReverseZone Object List | |
| Deletes the specified list of Cisco Prime Network Registrar CCMReverseZone objects. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMReverseZone |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:8a", "viewId": "3" }, { "objectId": "OID-00:00:00:00:00:00:00:87", "viewId": "0" }]</pre> |

CCMRRSet

Specifies the set of DNS RRs in a single nameset. All RRs in the set must have the same name, but differ in type or data.

| | |
|--|--|
| Create CCMRRSet Object | |
| Creates a Cisco Prime Network Registrar CCMRRSet object. | |
| Method: | POST |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMRRSet?" zoneOrigin=cisco2.com.&viewId=2" |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "hostHealthCheck": "ping", "lastAccessTime": "none", "lastResetTime": "none", "name": "rest_p_host1", "protectedState": "protected", "rrList": { "CCMRRItem": [{ "order": "1", "rdata": "2.2.2.2", "rrClass": "IN", "rrType": "A", "weight": "1" }] } }</pre> |

Commonly Used Classes in Cisco Prime Network Registrar

| | |
|---|---|
| | <pre> { "order": "2", "rdata": "10.104.245.105", "rrClass": "IN", "rrType": "A", "weight": "2" }] }, "tenantId": "0", "zone": "OID-00:00:00:00:00:00:82", "zoneOrigin": "cisco2.com." } </pre> |
| <p>Get CCMRRSet List</p> <p>Gets the list of Cisco Prime Network Registrar CCMRRSet objects.</p> | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMRRSet? zoneOrigin=cisco2.com.&viewId=2" |
| Header: | Accept:application/json |
| Response Body: | <pre> [{ "objectOid": "OID-00:00:00:00:00:00:00:1b", "axfrVersion": "0", "hits": "0", "hostHealthCheck": "off", "lastAccessTime": "none", "lastResetTime": "none", "name": "@", "protectedState": "protected", "rrList": { "CCMRRItem": [{ "axfrVersion": "0", "order": "0", "rdata": "ns.cisco2.com. mail1.cisco2.com. 28 10800 3600 604800", "rrClass": "IN", "rrType": "SOA", "timestamp": "Sat Jan 16 15:44:21 2021", "ttl": "-1", "weight": "1" }, 600",] } },] </pre> |

```

        {
            "axfrVersion": "0",
            "order": "0",
            "rdata": "ns.cisco2.com.",
            "rrClass": "IN",
            "rrType": "NS",
            "timestamp": "Sat Jan 16 15:44:21 2021",
            "ttl": "-1",
            "weight": "1"
        }
    ]
},
"tenantId": "0",
"zone": "OID-00:00:00:00:00:00:82",
"zoneOrigin": "cisco2.com."
},{
"objectOid": "OID-00:00:00:00:00:00:2a",
"axfrVersion": "0",
"hits": "0",
"hostHealthCheck": "ping",
"lastAccessTime": "none",
"lastResetTime": "none",
"name": "p_h1",
"protectedState": "protected",
"rrList": {
    "CCMRRItem": [
        {
            "axfrVersion": "0",
            "order": "0",
            "rdata": "10.104.245.110",
            "rrClass": "IN",
            "rrType": "A",
            "timestamp": "Sat Jan 16 21:28:52 2021",
            "ttl": "-1",
            "weight": "1"
        },
        {
            "axfrVersion": "0",
            "order": "2",
            "rdata": "1.1.1.1",
            "rrClass": "IN",
            "rrType": "A",
            "timestamp": "Sat Jan 16 21:31:48 2021",
            "ttl": "-1",
            "weight": "2"
        },
        {
            "axfrVersion": "0",
            "order": "0",
            "rdata": "1001:",
            "rrClass": "IN",
            "rrType": "AAAA",
            "timestamp": "Sat Jan 16 21:29:09 2021",
            "ttl": "-1",
            "weight": "1"
        }
    ]
},
"tenantId": "0",
"zone": "OID-00:00:00:00:00:00:82",
"zoneOrigin": "cisco2.com."
}
]

```

| | |
|--|--|
| Get CCMRRSet Object By Name | |
| Gets the Cisco Prime Network Registrar CCMRRSet object by name. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMRRSet/rest_up_host2?" zoneOrigin=cisco2.com.&viewId=2" |
| Header: | Accept:application/json |
| Response Body: | <pre> { "objectId": "OID-00:00:00:00:00:00:00:31", "axfrVersion": "0", "hits": "0", "hostHealthCheck": "ping", "lastAccessTime": "none", "lastResetTime": "none", "name": "rest_up_host2", "protectedState": "unprotected", "rrList": { "CCMRRItem": [{ "axfrVersion": "0", "order": "1", "rdata": "2.2.2.2", "rrClass": "IN", "rrType": "A", "timestamp": "Sat Jan 16 22:19:51 2021", "ttl": "-1", "weight": "1" }, { "axfrVersion": "0", "order": "2", "rdata": "10.104.245.105", "rrClass": "IN", "rrType": "A", "timestamp": "Sat Jan 16 22:19:51 2021", "ttl": "-1", "weight": "2" }] }, "tenantId": "0", "zone": "OID-00:00:00:00:00:00:00:82", "zoneOrigin": "cisco2.com." } </pre> |
| Modify CCMRRSet Object By Name | |
| Modifies or creates the specified Cisco Prime Network Registrar CCMRRSet object. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMRRSet/rest_up_host1?" zoneOrigin=cisco2.com.&viewId=2" |
| Header: | Content-Type:application/json |

| | |
|--|---|
| Request Body: | <pre>{ "hostHealthCheck": "off", "lastAccessTime": "none", "lastResetTime": "none", "name": "rest_up_host1", "protectedState": "unprotected", "rrList": { "CCMRRItem": [{ "order": "1", "rdata": "2.2.2.2", "rrClass": "IN", "rrType": "A", "weight": "1" }, { "order": "2", "rdata": "10.104.245.105", "rrClass": "IN", "rrType": "A", "weight": "2" }] }, "tenantId": "0", "zone": "OID-00:00:00:00:00:00:00:82", "zoneOrigin": "cisco2.com." }</pre> |
| <p>Modify CCMRRSet Object List</p> <p>Modifies or creates the specified list of Cisco Prime Network Registrar CCMRRSet objects.</p> | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMRRSet?zoneOrigin=cisco2.com.&viewId=2 |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{ "objectOid": "OID-00:00:00:00:00:00:00:2f", "axfrVersion": "0", "hits": "0", "hostHealthCheck": "ping", "lastAccessTime": "none", "lastResetTime": "none", "name": "rest_up_host1", "protectedState": "unprotected", "rrList": { "CCMRRItem":</pre> |

| | |
|--|--|
| | <pre>[{ { "axfrVersion": "0", "order": "1", "rdata": "2.2.2.21", "rrClass": "IN", "rrType": "A", "timestamp": "Sat Jan 16 21:55:08 2021", "ttl": "-1", "weight": "1" }, { "axfrVersion": "0", "order": "2", "rdata": "10.104.245.105", "rrClass": "IN", "rrType": "A", "timestamp": "Sat Jan 16 21:55:08 2021", "ttl": "-1", "weight": "2" } }], "tenantId": "0", "zone": "OID-00:00:00:00:00:00:82", "zoneOrigin": "cisco2.com." }, { "hostHealthCheck": "ping", "name": "rest_up_host2", "protectedState": "unprotected", "rrList": { "CCMRRItem": [{ "order": "1", "rdata": "2.2.2.2", "rrClass": "IN", "rrType": "A", "ttl": "-1", "weight": "1" }, { "order": "2", "rdata": "10.104.245.105", "rrClass": "IN", "rrType": "A", "ttl": "-1", "weight": "2" }] }, "tenantId": "0", "zone": "OID-00:00:00:00:00:00:82", "zoneOrigin": "cisco2.com." }]</pre> |
|--|--|

Delete CCMRRSet Object By Name

Deletes the specified Cisco Prime Network Registrar CCMRRSet object.

| | |
|-----------|--|
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMRRSet/rest_up_host2? zoneOrigin=cisco2.com.&viewId=2" |

| Delete CCMRRSet Object List | |
|---|---|
| Deletes the specified list of Cisco Prime Network Registrar CCMRRSet objects. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMRRSet? zoneOrigin=cisco2.com.&viewId=2" |
| Header: | Content-Type:application/json |
| Request Body: | [<pre> { "name": "p_h1" }, { "name": "u_h1" }, { "name": "rest_up_host1" }]</pre> |

CCMHost

Defines a DNS host record. A CCMHost object is created for each protected name that includes at least one A or AAAA record. A CCMHost object can automatically maintain associated PTR and CNAME records.

| Create CCMHost Object | |
|---|---|
| Creates a Cisco Prime Network Registrar CCMHost object. | |
| Method: | POST |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMHost? zoneOrigin=cisco2.com.&viewId=2" |
| Header: | Content-Type:application/json |
| Request Body: | { <pre> "addrs": { "stringItem": ["2.0.0.1"] }, "ip6AddressList": { "stringItem": ["2001::"] }, "name": "rest_host2", "tenantId": "0", "zone": "OID-00:00:00:00:00:00:00:82", "zoneOrigin": "cisco2.com." }</pre> |
| Get CCMHost List | |
| Gets the list of Cisco Prime Network Registrar CCMHost objects. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMHost? zoneOrigin=cisco2.com.&viewId=2" |
| Header: | Accept:application/json |

| | |
|--|--|
| Response Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:93", "attrs": { "stringItem": ["1.0.0.1"] }, "ip6AddressList": { "stringItem": ["1001:."] }, "name": "rest_host1", "tenantId": "0", "zone": "OID-00:00:00:00:00:00:00:82" }, { "objectId": "OID-00:00:00:00:00:00:00:94", "attrs": { "stringItem": ["2.0.0.1"] }, "ip6AddressList": { "stringItem": ["2001:."] }, "name": "rest_host2", "tenantId": "0", "zone": "OID-00:00:00:00:00:00:00:82", "zoneOrigin": "cisco2.com." }, { "objectId": "OID-00:00:00:00:00:00:00:95", "attrs": { "stringItem": ["3.0.0.1"] }, "ip6AddressList": { "stringItem": ["3001:."] }, "name": "rest_host3", "tenantId": "0", "zone": "OID-00:00:00:00:00:00:00:82", "zoneOrigin": "cisco2.com." }]</pre> |
| Get CCMHost Object By Name | |
| Gets the Cisco Prime Network Registrar CCMHost object by name. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMHost/rest_host3? zoneOrigin=cisco2.com.&viewId=2" |
| Header: | Accept:application/json |

| | |
|--|--|
| Response Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:95", "addrs": { "stringItem": ["3.0.0.1"] }, "ip6AddressList": { "stringItem": ["3001::"] }, "name": "rest_host3", "tenantId": "0", "zone": "OID-00:00:00:00:00:00:82", "zoneOrigin": "cisco2.com." }</pre> |
| Modify CCMHost Object By Name | |
| Modifies or creates the specified Cisco Prime Network Registrar CCMHost object. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMHost/rest_host3?" zoneOrigin=cisco2.com.&viewId=2" |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "addrs": { "stringItem": ["2.0.0.1"] }, "ip6AddressList": { "stringItem": ["2001::"] }, "name": "rest_host3", "tenantId": "0", "zone": "OID-00:00:00:00:00:00:82", "zoneOrigin": "cisco2.com." }</pre> |
| Modify CCMHost Object List | |
| Modifies or creates the specified list of Cisco Prime Network Registrar CCMHost objects. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMHost?" zoneOrigin=cisco2.com.&viewId=2" |
| Header: | Content-Type:application/json |

Commonly Used Classes in Cisco Prime Network Registrar

| | |
|---|---|
| Request Body: | <pre>[{ "objectId":"OID-00:00:00:00:00:00:00:95", "addrs": { "stringItem": ["3.0.0.1"] }, "ip6AddressList": { "stringItem": ["3001::"] }, "name": "rest_host3", "tenantId": "0", "zone": "OID-00:00:00:00:00:00:00:82", "zoneOrigin":"cisco2.com." }, { "addrs": { "stringItem": ["3.0.0.1"] }, "ip6AddressList": { "stringItem": ["4001::"] }, "name": "rest_host4", "tenantId": "0", "zone": "OID-00:00:00:00:00:00:00:82", "zoneOrigin":"cisco2.com." }]</pre> |
| <p>Delete CCMHost Object By Name</p> | |
| <p>Deletes the specified Cisco Prime Network Registrar CCMHost object.</p> | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMHost/rest_host4?" zoneOrigin=cisco2.com.&viewId=2" |
| <p>Delete CCMHost Object List</p> | |
| <p>Deletes the specified list of Cisco Prime Network Registrar CCMHost objects.</p> | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMHost?" zoneOrigin=cisco2.com.&viewId=2" |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{"objectId": "OID-00:00:00:00:00:00:00:93"}, {"objectId": "OID-00:00:00:00:00:00:00:94"}]</pre> |

CCMSecondaryZone

Defines a secondary DNS zone.

| | |
|--|--|
| Create CCMSecondaryZone Object | |
| Creates a Cisco Prime Network Registrar CCMSecondaryZone object. | |
| Method: | POST |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMSecondaryZone |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "origin": "sec1.com.", "primaryServers": { "stringItem": ["10.104.245.109"] }, "tenantId": "0", "viewId": "0" }</pre> |
| Get CCMSecondaryZone List | |
| Gets the list of Cisco Prime Network Registrar CCMSecondaryZone objects. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMSecondaryZone |
| Header: | Accept:application/json |
| Response Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:a1", "description": "sec1", "origin": "sec1.com.", "primaryServers": { "stringItem": ["10.104.245.109"] }, "tenantId": "0", "viewId": "0" }, { "objectId": "OID-00:00:00:00:00:00:00:a2", "origin": "sec2.com.", "primaryServers": { "stringItem": ["10.104.245.109"] }, "tenantId": "0", "viewId": "0" }]</pre> |

| | |
|---|--|
| Get CCMSecondaryZone Object By Name | |
| Gets the Cisco Prime Network Registrar CCMSecondaryZone object by name. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMSecondaryZone/sec1.com. |
| Header: | Accept:application/json |
| Response Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:a1", "description": "sec1", "origin": "sec1.com.", "primaryServers": { "stringItem": ["10.104.245.109"] }, "tenantId": "0", "viewId": "0" }</pre> |
| Modify CCMSecondaryZone Object By Name | |
| Modifies or creates the specified Cisco Prime Network Registrar CCMSecondaryZone object. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMSecondaryZone/sec1.com. |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "origin": "sec1.com.", "primaryServers": { "stringItem": ["10.104.245.109"] }, "tenantId": "0", "viewId": "0", "description": "sec1" }</pre> |
| Modify CCMSecondaryZone Object List | |
| Modifies or creates the specified list of Cisco Prime Network Registrar CCMSecondaryZone objects. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMSecondaryZone |
| Header: | Content-Type:application/json |

| | |
|---|---|
| Request Body: | <pre>[{ "origin": "sec2.com.", "primaryServers": { "stringItem": ["10.104.245.109"] }, "tenantId": "0", "viewId": "0" }, { "origin": "sec3.com.", "primaryServers": { "stringItem": ["10.104.245.109"] }, "tenantId": "0", "viewId": "0" }]</pre> |
| Delete CCMSecondaryZone Object By Name | |
| Deletes the specified Cisco Prime Network Registrar CCMSecondaryZone object. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMSecondaryZone/sec1.com. |
| Delete CCMSecondaryZone Object List | |
| Deletes the specified list of Cisco Prime Network Registrar CCMSecondaryZone objects. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMSecondaryZone |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{"objectId":"OID-00:00:00:00:00:00:00:a1"}, {"objectId":"OID-00:00:00:00:00:00:00:a2"}]</pre> |

CCMZoneTemplate

Defines a template used to create new primary DNS zones.

| | |
|---|---|
| Create CCMZoneTemplate Object | |
| Creates a Cisco Prime Network Registrar CCMZoneTemplate object. | |
| Method: | POST |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMZoneTemplate |
| Header: | Content-Type:application/json |

Commonly Used Classes in Cisco Prime Network Registrar

| | |
|--|--|
| Request Body: | <pre>{ "defttl": "10h", "expire": "1w", "minttl": "5m", "name": "rest_zt", "ns": "ns", "person": "mail1", "refresh": "2h", "retry": "1w", "serial": "1", "soattl": "24h", "tenantId": "0" }</pre> |
| <p>Get CCMZoneTemplate List</p> <p>Gets the list of Cisco Prime Network Registrar CCMZoneTemplate objects.</p> | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMZoneTemplate |
| Header: | Accept:application/json |
| Response Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:93", "defttl": "1d16h", "expire": "1w", "minttl": "5m", "name": "rest_zt", "ns": "ns", "person": "mail1", "refresh": "2h", "retry": "1w", "serial": "1", "soattl": "24h", "tenantId": "0" }, { "objectId": "OID-00:00:00:00:00:00:00:94", "defttl": "1d16h", "expire": "1w", "minttl": "5m", "name": "rest_zt1", "ns": "ns", "person": "mail1", "refresh": "2h", "retry": "1w", "serial": "1", "soattl": "24h", "tenantId": "0" }]</pre> |
| <p>Get CCMZoneTemplate Object By Name</p> <p>Gets the Cisco Prime Network Registrar CCMZoneTemplate object by name.</p> | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMZoneTemplate/rest_zt |
| Header: | Accept:application/json |

| | |
|--|--|
| Response Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:98", "defttl": "10h", "expire": "1w", "minttl": "5m", "name": "rest_zt", "ns": "ns", "person": "mail1", "refresh": "2h", "retry": "1w", "serial": "1", "soattl": "24h", "tenantId": "0" }</pre> |
| <p>Modify CCMZoneTemplate Object By Name</p> <p>Modifies or creates the specified Cisco Prime Network Registrar CCMZoneTemplate object.</p> | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMZoneTemplate/rest_zt |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:98", "defttl": "20h", "expire": "1w", "minttl": "5m", "name": "rest_zt", "ns": "ns", "person": "mail1", "refresh": "2h", "retry": "1w", "serial": "1", "soattl": "24h", "tenantId": "0" }</pre> |
| <p>Modify CCMZoneTemplate Object List</p> <p>Modifies or creates the specified list of Cisco Prime Network Registrar CCMZoneTemplate objects.</p> | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMZoneTemplate |
| Header: | Content-Type:application/json |

Commonly Used Classes in Cisco Prime Network Registrar

| | |
|--|---|
| Request Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:98", "defttl": "40h", "expire": "1w", "minttl": "5m", "name": "rest_zt", "ns": "ns", "person": "mail1", "refresh": "2h", "retry": "1w", "serial": "1", "soattl": "24h", "tenantId": "0" }, { "defttl": "40h", "expire": "1w", "minttl": "5m", "name": "rest_zt1", "ns": "ns", "person": "mail1", "refresh": "2h", "retry": "1w", "serial": "1", "soattl": "24h", "tenantId": "0" }]</pre> |
| <p>Delete CCMZoneTemplate Object By Name</p> <p>Deletes the specified Cisco Prime Network Registrar CCMZoneTemplate object.</p> | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMZoneTemplate/zt |
| <p>Delete CCMZoneTemplate Object List</p> <p>Deletes the specified list of Cisco Prime Network Registrar CCMZoneTemplate objects.</p> | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMZoneTemplate |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{"objectId":"OID-00:00:00:00:00:00:00:98"}, {"objectId":"OID-00:00:00:00:00:00:00:99"}]</pre> |

DnsView

DNS View Configuration Class.

| | |
|--|------|
| <p>Create DnsView Object</p> <p>Creates a Cisco Prime Network Registrar DnsView object.</p> | |
| Method: | POST |

| | |
|---|--|
| Endpoint: | https://localhost:8443/web-services/rest/resource/DnsView |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "aclMatchClients": "10.104.245.108", "name": "rest_internal", "priority": "1", "tenantId": "0", "viewId": "2" }</pre> |
| Get DnsView List | |
| Gets the list of Cisco Prime Network Registrar DnsView objects. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/DnsView |
| Header: | Accept:application/json |
| Response Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:32", "name": "Default", "priority": "0", "tenantId": "0", "viewId": "0" }, { "objectId": "OID-00:00:00:00:00:00:00:6d", "aclMatchClients": "10.104.245.107", "name": "rest_external", "priority": "2", "tenantId": "0", "viewId": "3" }, { "objectId": "OID-00:00:00:00:00:00:00:6e", "aclMatchClients": "10.104.245.117", "name": "rest_external_1", "priority": "3", "tenantId": "0", "viewId": "4" }]</pre> |
| Get DnsView Object By Name | |
| Gets the Cisco Prime Network Registrar DnsView object by name. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/DnsView/rest_external |
| Header: | Accept:application/json |

Commonly Used Classes in Cisco Prime Network Registrar

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|--|---|
| Response Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:6d", "aclMatchClients": "10.104.245.107", "name": "rest_external", "priority": "2", "tenantId": "0", "viewId": "3" }</pre> |
| <p>Modify DnsView Object By Name</p> <p>Modifies or creates the specified Cisco Prime Network Registrar DnsView object.</p> | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/DnsView/rest_external |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "aclMatchClients": "10.104.245.117", "name": "rest_external", "priority": "2", "tenantId": "0", "viewId": "3" }</pre> |
| <p>Modify DnsView Object List</p> <p>Modifies or creates the specified list of Cisco Prime Network Registrar DnsView objects.</p> | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/DnsView |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{ "objectId":"OID-00:00:00:00:00:00:6d", "aclMatchClients": "10.104.245.107", "name": "rest_external", "priority": "2", "tenantId": "0", "viewId": "3" }, { "aclMatchClients": "10.104.245.117", "name": "rest_external_1", "priority": "3", "tenantId": "0", "viewId": "4" }, { "aclMatchClients": "10.104.245.111", "name": "rest_external_2", "priority": "4", "tenantId": "0", "viewId": "5" }]</pre> |
| <p>Delete DnsView Object By Name</p> <p>Deletes the specified Cisco Prime Network Registrar DnsView object.</p> | |

| | |
|--|---|
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/DnsView/rest_external_2 |
| Delete DnsView Object List | |
| Deletes the specified list of Cisco Prime Network Registrar DnsView objects. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/DnsView |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:6e" }, { "objectId": "OID-00:00:00:00:00:00:00:6b" }]</pre> |

DnsForwarder

There may be multiple forward zones. For the forward zone the lists of nameservers is used to forward the queries to. The servers listed have to handle further recursion for the query. Thus, those servers are not authority servers, but are recursive servers too; the DNS caching server does not perform recursion itself for the forward zones, it lets the remote servers do it. Class IN is assumed. A forward-zone entry with name "." and a host or addr target will forward all queries to that other server (unless it can answer from the cache).

| | |
|--|---|
| Create DnsForwarder Object | |
| Creates a Cisco Prime Network Registrar DnsForwarder object. | |
| Method: | POST |
| Endpoint: | https://localhost:8443/web-services/rest/resource/DnsForwarder |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "addr": { "DnsIPnPortItem": [{ "addr": "10.104.245.212", "port": "66" }] }, "name": ".", "tls": "enabled", "tlsAuthName": "cnr-cent72-4" }</pre> |
| Get DnsForwarder List | |
| Gets the list of Cisco Prime Network Registrar DnsForwarder objects. | |
| Method: | GET |

Commonly Used Classes in Cisco Prime Network Registrar

| | |
|--|--|
| Endpoint: | https://localhost:8443/web-services/rest/resource/DnsForwarder |
| Header: | Accept:application/json |
| Response Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:8b", "addr": { "DnsIPnPortItem": [{ "addr": "10.104.245.212", "port": "66" }] }, "name": ".", "tls": "enabled", "tlsAuthName": "cnr-cent72-4" }, { "objectId": "OID-00:00:00:00:00:00:00:8d", "addr": { "DnsIPnPortItem": [{ "addr": "10.104.245.220", "port": "53" }] }, "name": "cisco.com.", "tls": "enabled", "tlsAuthName": "cnr-cent72-4" }]</pre> |
| Get DnsForwarder Object By Name | |
| Gets the Cisco Prime Network Registrar DnsForwarder object by name. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/DnsForwarder/cisco.com. |
| Header: | Accept:application/json |
| Response Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:8d", "addr": { "DnsIPnPortItem": [{ "addr": "10.104.245.220", "port": "53" }] }, "name": "cisco.com.", "tls": "enabled", "tlsAuthName": "cnr-cent72-4" }</pre> |
| Modify DnsForwarder Object By Name | |
| Modifies or creates the specified Cisco Prime Network Registrar DnsForwarder object. | |
| Method: | PUT |

| | |
|---|---|
| Endpoint: | https://localhost:8443/web-services/rest/resource/DnsForwarder/cisco.com. |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "addr": { "DnsIPnPortItem": [{ "addr": "10.104.245.220", "port": "53" }] }, "name": "cisco.com", "tls": "enabled", "tlsAuthName": "cnr-cent72-4" }</pre> |
| Modify DnsForwarder Object List | |
| Modifies or creates the specified list of Cisco Prime Network Registrar DnsForwarder objects. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/DnsForwarder |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{ "objectOid": "OID-00:00:00:00:00:00:00:8d", "addr": { "DnsIPnPortItem": [{ "addr": "10.104.245.220", "port": "853" }] }, "name": "cisco.com", "tls": "enabled", "tlsAuthName": "cnr-cent72-4" }, { "objectOid": "OID-00:00:00:00:00:00:00:8b", "addr": { "DnsIPnPortItem": [{ "addr": "10.104.245.220", "port": "853" }] }, "name": ".", "tls": "enabled", "tlsAuthName": "cnr-cent72-4" }]</pre> |
| Delete DnsForwarder Object By Name | |
| Deletes the specified Cisco Prime Network Registrar DnsForwarder object. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/DnsForwarder/cisco.com. |

| | |
|---|---|
| Delete DnsForwarder Object List | |
| Deletes the specified list of Cisco Prime Network Registrar DnsForwarder objects. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/DnsForwarder |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:7f", "viewId": "3" }, { "objectId": "OID-00:00:00:00:00:00:00:81", "viewId": "2" }]</pre> |

DnsException

The resolution exception can be used to configure authoritative data to be used by the resolver that cannot be accessed using the public internet servers.

| | |
|--|---|
| Create DnsException Object | |
| Creates a Cisco Prime Network Registrar DnsException object. | |
| Method: | POST |
| Endpoint: | https://localhost:8443/web-services/rest/resource/DnsException |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "addr": { "DnsIPnPortItem": [{ "addr": "10.104.245.212", "port": "66" }] }, "name": "rest_zone1.com.", "tls": "enabled", "tlsAuthName": "cnr-cent72-4" }</pre> |
| Get DnsException List | |
| Gets the list of Cisco Prime Network Registrar DnsException objects. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/DnsException |
| Header: | Accept:application/json |

| | |
|---|---|
| Response Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:8f", "addr": { "DnsIPnPortItem": [{ "addr": "10.104.245.212", "port": "853" }] }, "name": "rest_zone1.com.", "tls": "enabled", "tlsAuthName": "cnr-cent72-4" }, { "objectId": "OID-00:00:00:00:00:00:00:91", "addr": { "DnsIPnPortItem": [{ "addr": "10.104.245.212", "port": "853" }] }, "name": "rest_zone2.com.", "tls": "enabled", "tlsAuthName": "cnr-cent72-4" }, { "objectId": "OID-00:00:00:00:00:00:00:90", "addr": { "DnsIPnPortItem": [{ "addr": "10.104.245.212", "port": "853" }] }, "name": "rest_zone3.com.", "tls": "enabled", "tlsAuthName": "cnr-cent72-4" }]</pre> |
| Get DnsException Object By Name | |
| Gets the Cisco Prime Network Registrar DnsException object by name. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/DnsException/rest_zone1.com. |
| Header: | Accept:application/json |
| Response Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:8f", "addr": { "DnsIPnPortItem": [{ "addr": "10.104.245.212", "port": "853" }] }, "name": "rest_zone1.com.", "tls": "enabled", "tlsAuthName": "cnr-cent72-4" }</pre> |

| | |
|---|---|
| Modify DnsException Object By Name | |
| Modifies or creates the specified Cisco Prime Network Registrar DnsException object. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/DnsException/rest_zone1.com. |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "objectOid": "OID-00:00:00:00:00:00:00:8f", "addr": { "DnsIPnPortItem": [{ "addr": "10.104.245.212", "port": "853" }] }, "name": "rest_zone1.com.", "tls": "enabled", "tlsAuthName": "cnr-cent72-4" }</pre> |
| Modify DnsException Object List | |
| Modifies or creates the specified list of Cisco Prime Network Registrar DnsException objects. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/DnsException |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{ "addr": { "DnsIPnPortItem": [{ "addr": "10.104.245.212", "port": "853" }] }, "name": "rest_zone3.com.", "tls": "enabled", "tlsAuthName": "cnr-cent72-4" }, { "addr": { "DnsIPnPortItem": [{ "addr": "10.104.245.212", "port": "853" }] }, "name": "rest_zone2.com.", "tls": "enabled", "tlsAuthName": "cnr-cent72-4" }]</pre> |
| Delete DnsException Object By Name | |
| Deletes the specified Cisco Prime Network Registrar DnsException object. | |

| | |
|---|---|
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/DnsException/rest_zone1.com. |
| Delete DnsException Object List | |
| Deletes the specified list of Cisco Prime Network Registrar DnsException objects. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/DnsException |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{ "objectId":"OID-00:00:00:00:00:00:90" }, { "objectId":"OID-00:00:00:00:00:00:91" }]</pre> |

CdnsRedirect

Defines a DNS Firewall rule.

| | |
|--|---|
| Create CdnsRedirect Object | |
| Creates a Cisco Prime Network Registrar CdnsRedirect object. | |
| Method: | POST |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CdnsRedirect |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "action": "rpz", "domains": { "stringItem": ["test.com."] }, "name": "rest_rule1", "rpzServerAddrs": { "DnsIPnPortItem": [{ "addr": "1.1.1.1" }] }, "rpzTls": "true", "rpzTrigger": "query-name", "rpzZoneName": "test.com." }</pre> |
| Get CdnsRedirect List | |
| Gets the list of Cisco Prime Network Registrar CdnsRedirect objects. | |
| Method: | GET |

| | |
|--|--|
| Endpoint: | https://localhost:8443/web-services/rest/resource/CdnsRedirect |
| Header: | Accept:application/json |
| Response Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:92", "aResponse": "1.1.1.1", "action": "redirect", "domains": { "stringItem": ["test.com."] }, "name": "rest_rule1", "rpzServerAddr": { "DnsIPnPortItem": [{ "addr": "1.1.1.1" }] }, "rpzTls": "true", "rpzTrigger": "query-name", "rpzZoneName": "test.com." }, { "objectId": "OID-00:00:00:00:00:00:00:96", "action": "refuse", "domains": { "stringItem": ["test.com."] }, "name": "rest_rule3" }, { "objectId": "OID-00:00:00:00:00:00:00:97", "aResponse": "1.1.1.1", "action": "redirect", "domains": { "stringItem": ["test.com."] }, "name": "rest_rule4" }]</pre> |
| <p>Get CdnsRedirect Object By Name</p> <p>Gets the Cisco Prime Network Registrar CdnsRedirect object by name.</p> | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CdnsRedirect/rest_rule1 |
| Header: | Accept:application/json |

| | |
|---|--|
| Response Body: | <pre>{ "objectOid": "OID-00:00:00:00:00:00:00:94", "action": "rpz", "domains": { "stringItem": ["test.com."] }, "name": "rest_rule1", "rpzServerAddr": { "DnsIPnPortItem": [{ "addr": "1.1.1.1" }] }, "rpzTls": "true", "rpzTrigger": "query-name", "rpzZoneName": "test.com." }</pre> |
| Modify CdnsRedirect Object By Name | |
| Modifies or creates the specified Cisco Prime Network Registrar CdnsRedirect object. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CdnsRedirect/rest_rule2 |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "action": "drop", "name": "rest_rule2", "action": "drop", "domains": {"stringItem": ["test.com."]} }</pre> |
| Modify CdnsRedirect Object List | |
| Modifies or creates the specified list of Cisco Prime Network Registrar CdnsRedirect objects. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CdnsRedirect |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{ "action": "refuse", "name": "rest_rule3", "domains": {"stringItem": ["test.com."]} }, { "action": "redirect", "name": "rest_rule4", "domains": {"stringItem": ["test.com."]}, "aResponse": "1.1.1.1" }]</pre> |
| Delete CdnsRedirect Object By Name | |
| Deletes the specified Cisco Prime Network Registrar CdnsRedirect object. | |
| Method: | DELETE |

Commonly Used Classes in Cisco Prime Network Registrar

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|---|--|
| Endpoint: | https://localhost:8443/web-services/rest/resource/CdnsRedirect/rest_rule1 |
| Delete CdnsRedirect Object List | |
| Deletes the specified list of Cisco Prime Network Registrar CdnsRedirect objects. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CdnsRedirect |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:95" }, { "objectId": "OID-00:00:00:00:00:00:00:96" }, { "objectId": "OID-00:00:00:00:00:00:00:97" }]</pre> |

CCMCluster

Defines a server cluster. A CCMCluster object contains the configuration data associated with the cluster, including remote connection information such as IP address, port, admin, and password.

| | |
|--|--|
| Create CCMCluster Object | |
| Creates a Cisco Prime Network Registrar CCMCluster object. | |
| Method: | POST |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMCluster |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "httpsPort": "8443", "ipaddr": "10.104.245.117", "licensedServices": "dhcp,dns", "name": "backup", "scpPort": "1234", "tenantId": "0", "useHttpsPort": "true", "useSsl": "required", "admin": "admin", "password": "changeme" }</pre> |
| Get CCMCluster List | |
| Gets the list of Cisco Prime Network Registrar CCMCluster objects. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMCluster |
| Header: | Accept:application/json |

| | |
|--|--|
| Response Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:a5", "admin": "admin", "clusterId": "4", "httpsPort": "8443", "ipaddr": "10.104.245.117", "licensedServices": "dns", "name": "backup", "passwordSecret": "00:00:00:00:00:00:00:a4", "scpPort": "1234", "tenantId": "0", "useHttpsPort": "true", "useSsl": "required" }, { "objectId": "OID-00:00:00:00:00:00:00:05", "clusterId": "1", "httpsPort": "8443", "ipaddr": "10.104.245.211", "licensedServices": "dhcp,dns", "name": "localhost", "productVersion": "11.1.0", "remoteId": "1", "scpPort": "1234", "sharedSecret": "00:00:00:00:00:00:00:4d", "tenantId": "0", "useHttpsPort": "true", "useSsl": "required" }, { "objectId": "OID-00:00:00:00:00:00:00:44", "clusterId": "2", "ipaddr": "10.104.245.108", "name": "regional-629e15a0-e9e6-49b1-b97d-7fe280252f61", "remoteId": "2", "scpPort": "1244", "sharedSecret": "00:00:00:00:00:00:00:60", "tenantId": "0" }]</pre> |
| <p>Get CCMCluster Object By Name</p> <p>Gets the Cisco Prime Network Registrar CCMCluster object by name.</p> | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMCluster/backup |
| Header: | Accept:application/json |

Commonly Used Classes in Cisco Prime Network Registrar

| | |
|--|--|
| Response Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:a5", "admin": "admin", "clusterId": "4", "httpsPort": "8443", "ipaddr": "10.104.245.117", "licensedServices": "dhcp,dns", "name": "backup", "passwordSecret": "00:00:00:00:00:00:00:a4", "scpPort": "1234", "tenantId": "0", "useHttpsPort": "true", "useSsl": "required" }</pre> |
| <p>Modify CCMCluster Object By Name</p> <p>Modifies or creates the specified Cisco Prime Network Registrar CCMCluster object.</p> | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMCluster/backup |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:a5", "admin": "admin", "clusterId": "4", "httpsPort": "8443", "ipaddr": "10.104.245.117", "licensedServices": "dhcp", "name": "backup", "passwordSecret": "00:00:00:00:00:00:00:a4", "scpPort": "1234", "tenantId": "0", "useHttpsPort": "true", "useSsl": "required" }</pre> |
| <p>Modify CCMCluster Object List</p> <p>Modifies or creates the specified list of Cisco Prime Network Registrar CCMCluster objects.</p> | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMCluster |
| Header: | Content-Type:application/json |

| | |
|--|---|
| Request Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:a5", "admin": "admin", "clusterId": "4", "httpsPort": "8443", "ipaddr": "10.104.245.117", "licensedServices": "dns", "name": "backup", "passwordSecret": "00:00:00:00:00:00:00:a4", "scpPort": "1234", "tenantId": "0", "useHttpsPort": "true", "useSsl": "required" }, { "admin": "admin", "httpsPort": "8443", "ipaddr": "1.1.1.1", "licensedServices": "dns", "name": "rest_cluster1", "password": "changeme", "scpPort": "1234", "tenantId": "0", "useHttpsPort": "true", "useSsl": "required" }, { "admin": "admin", "httpsPort": "8443", "ipaddr": "2.2.2.1", "licensedServices": "dns", "name": "rest_cluster2", "password": "changeme", "scpPort": "1234", "tenantId": "0", "useHttpsPort": "true", "useSsl": "required" }]</pre> |
| <p>Delete CCMCluster Object By Name</p> <p>Deletes the specified Cisco Prime Network Registrar CCMCluster object.</p> | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMCluster/backup |
| <p>Delete CCMCluster Object List</p> <p>Deletes the specified list of Cisco Prime Network Registrar CCMCluster objects.</p> | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMCluster |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{"objectId":"OID-00:00:00:00:00:00:00:a9"}, {"objectId":"OID-00:00:00:00:00:00:00:aa"}]</pre> |

CCMFailoverPair

Defines a DHCP failover pair.

| | |
|---|---|
| Create CCMFailoverPair Object | |
| Creates a Cisco Prime Network Registrar CCMFailoverPair object. | |
| Method: | POST |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMFailoverPair |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "backup": "OID-00:00:00:00:00:00:00:65", "main": "OID-00:00:00:00:00:00:00:5b", "name": "fo_chn_hyd", "tenantId": "0" }</pre> |
| Get CCMFailoverPair List | |
| Gets the list of Cisco Prime Network Registrar CCMFailoverPair objects. | |
| Method: | GET |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMFailoverPair |
| Header: | Accept:application/json |
| Response Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:7d", "backup": "OID-00:00:00:00:00:00:00:65", "main": "OID-00:00:00:00:00:00:00:5b", "mclt": "10m", "name": "fo_chn_hyd", "tenantId": "0" }, { "objectId": "OID-00:00:00:00:00:00:00:7e", "backup": "OID-00:00:00:00:00:00:00:51", "main": "OID-00:00:00:00:00:00:00:4e", "name": "fo_ngpr_luknw", "tenantId": "0" }]</pre> |
| Get CCMFailoverPair Object By Name | |
| Gets the Cisco Prime Network Registrar CCMFailoverPair object by name. | |
| Method: | GET |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMFailoverPair/fo_chn_hyd |
| Header: | Accept:application/json |

| | |
|--|--|
| Response Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:7d", "backup": "OID-00:00:00:00:00:00:00:65", "main": "OID-00:00:00:00:00:00:00:5b", "name": "fo_chn_hyd", "tenantId": "0" }</pre> |
| Modify CCMFailoverPair Object By Name | |
| Modifies or creates the specified Cisco Prime Network Registrar CCMFailoverPair object. | |
| Method: | PUT |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMFailoverPair/fo_chn_hyd |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:7d", "backup": "OID-00:00:00:00:00:00:00:65", "main": "OID-00:00:00:00:00:00:00:5b", "name": "fo_chn_hyd", "tenantId": "0", "mclt": "30m" }</pre> |
| Modify CCMFailoverPair Object List | |
| Modifies or creates the specified list of Cisco Prime Network Registrar CCMFailoverPair objects. | |
| Method: | PUT |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMFailoverPair |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:7d", "backup": "OID-00:00:00:00:00:00:00:65", "main": "OID-00:00:00:00:00:00:00:5b", "name": "fo_chn_hyd", "tenantId": "0", "mclt": "10m" }, { "objectId": "OID-00:00:00:00:00:00:00:51", "main": "OID-00:00:00:00:00:00:00:4e", "name": "fo_ngpr_luknw", "tenantId": "0", "load-balancing": "true" }]</pre> |
| Modify CCMFailoverPair Object By Name (sync) | |
| Modifies or creates the specified Cisco Prime Network Registrar CCMFailoverPair object. | |
| Method: | PUT |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMFailoverPair/fo_chn_hyd?action=sync&mode=update&direction=from-backup |

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| | |
|--|---|
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "backup": "OID-00:00:00:00:00:00:00:65", "main": "OID-00:00:00:00:00:00:00:5b", "name": "fo_chn_hyd", "tenantId": "0", "mclt": "30m" }</pre> |
| Delete CCMFailoverPair Object By Name | |
| Deletes the specified Cisco Prime Network Registrar CCMFailoverPair object. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMFailoverPair/fo_chn_hyd |
| Delete CCMFailoverPair Object List | |
| Deletes the specified list of Cisco Prime Network Registrar CCMFailoverPair objects. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMFailoverPair |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:7d" }, { "objectId": "OID-00:00:00:00:00:00:00:7e" }]</pre> |

CCMHaDnsPair

A High-Availability (HA) DNS pair.

| | |
|--|--|
| Create CCMHaDnsPair Object | |
| Creates a Cisco Prime Network Registrar CCMHaDnsPair object. | |
| Method: | POST |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMHaDnsPair |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "backup": "OID-00:00:00:00:00:00:00:65", "main": "OID-00:00:00:00:00:00:00:5b", "name": "ha_chn_hyd", "tenantId": "0" }</pre> |
| Get CCMHaDnsPair List | |
| Gets the list of Cisco Prime Network Registrar CCMHaDnsPair objects. | |
| Method: | GET |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMHaDnsPair |

| | |
|---|---|
| Header: | Accept:application/json |
| Response Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:82", "backup": "OID-00:00:00:00:00:00:00:65", "main": "OID-00:00:00:00:00:00:00:5b", "name": "ha_chn_hyd", "tenantId": "0" }, { "objectId": "OID-00:00:00:00:00:00:00:83", "backup": "OID-00:00:00:00:00:00:00:51", "main": "OID-00:00:00:00:00:00:00:4e", "name": "ha_ngpr_lucknw", "tenantId": "0" }]</pre> |
| Get CCMHaDnsPair Object By Name | |
| Gets the Cisco Prime Network Registrar CCMHaDnsPair object by name. | |
| Method: | GET |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMHaDnsPair/ha_chn_hyd |
| Header: | Accept:application/json |
| Response Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:82", "backup": "OID-00:00:00:00:00:00:00:65", "main": "OID-00:00:00:00:00:00:00:5b", "name": "ha_chn_hyd", "tenantId": "0" }</pre> |
| Modify CCMHaDnsPair Object By Name | |
| Modifies or creates the specified Cisco Prime Network Registrar CCMHaDnsPair object. | |
| Method: | PUT |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMHaDnsPair/ha_chn_hyd |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:82", "backup": "OID-00:00:00:00:00:00:00:65", "main": "OID-00:00:00:00:00:00:00:5b", "name": "ha_chn_hyd", "tenantId": "0", "haDnsMainAddress": "10.104.245.211", "haDnsBackupAddress": "10.104.245.212" }</pre> |
| Modify CCMHaDnsPair Object List | |
| Modifies or creates the specified list of Cisco Prime Network Registrar CCMHaDnsPair objects. | |
| Method: | PUT |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMHaDnsPair |

| | |
|---|--|
| Header: | Content-Type:application/json |
| Request Body: | [<pre> { "objectId": "OID-00:00:00:00:00:00:00:82", "backup": "OID-00:00:00:00:00:00:00:65", "main": "OID-00:00:00:00:00:00:00:5b", "name": "ha_chn_hyd", "tenantId": "0" }, { "backup": "OID-00:00:00:00:00:00:00:51", "main": "OID-00:00:00:00:00:00:00:4e", "name": "ha_ngpr_lucknw", "tenantId": "0" }] </pre> |
| Delete CCMHaDnsPair Object By Name | |
| Deletes the specified Cisco Prime Network Registrar CCMHaDnsPair object. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMHaDnsPair/ha_chn_hyd |
| Delete CCMHaDnsPair Object List | |
| Deletes the specified list of Cisco Prime Network Registrar CCMHaDnsPair objects. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMHaDnsPair |
| Header: | Content-Type:application/json |
| Request Body: | [<pre> {"objectId":"OID-00:00:00:00:00:00:00:82"}, {"objectId":"OID-00:00:00:00:00:00:00:83"}] </pre> |

CCMZoneDistribution

Defines the distribution map for a set of primary zones.

| | |
|---|---|
| Create CCMZoneDistribution Object | |
| Creates a Cisco Prime Network Registrar CCMZoneDistribution object. | |
| Method: | POST |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMZoneDistribution |
| Header: | Content-Type:application/json |

| | |
|---|--|
| Request Body: | <pre>{ "name": "zd_ngpr_lucknw", "primary": "OID-00:00:00:00:00:00:00:86", "primaryServers": { "stringItem": ["10.104.245.130", "10.104.245.117"] }, "tenantId": "0" }</pre> |
| Get CCMZoneDistribution List | |
| Gets the list of Cisco Prime Network Registrar CCMZoneDistribution objects. | |
| Method: | GET |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMZoneDistribution |
| Header: | Accept:application/json |
| Response Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:39", "name": "Default", "primary": "OID-00:00:00:00:00:00:00:85", "tenantId": "0" }, { "objectId": "OID-00:00:00:00:00:00:00:8d", "name": "zd_ngpr_lucknw", "primary": "OID-00:00:00:00:00:00:00:86", "primaryServers": { "stringItem": ["10.104.245.130", "10.104.245.117"] }, "tenantId": "0" }]</pre> |
| Get CCMZoneDistribution Object By Name | |
| Gets the Cisco Prime Network Registrar CCMZoneDistribution object by name. | |
| Method: | GET |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMZoneDistribution/zd_ngpr_lucknw |
| Header: | Accept:application/json |
| Response Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:8d", "name": "zd_ngpr_lucknw", "primary": "OID-00:00:00:00:00:00:00:86", "primaryServers": { "stringItem": ["10.104.245.130", "10.104.245.117"] }, "tenantId": "0" }</pre> |

| | |
|--|---|
| Modify CCMZoneDistribution Object By Name | |
| Modifies or creates the specified Cisco Prime Network Registrar CCMZoneDistribution object. | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/CCMZoneDistribution/Default |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:39", "name": "Default", "primary": "OID-00:00:00:00:00:00:00:85", "primaryServers": { "stringItem": ["10.104.245.211", "10.104.245.212"] }, "tenantId": "0" }</pre> |
| Modify CCMZoneDistribution Object List | |
| Modifies or creates the specified list of Cisco Prime Network Registrar CCMZoneDistribution objects. | |
| Method: | PUT |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMZoneDistribution |
| Header: | Content-Type:application/json |
| Request Body: | <pre>[{ "objectId": "OID-00:00:00:00:00:00:00:39", "name": "Default", "primary": "OID-00:00:00:00:00:00:00:85", "primaryServers": { "stringItem": ["10.104.245.211", "10.104.245.212"] }, "tenantId": "0" }, { "name": "zd_ngpr_lucknw", "primary": "OID-00:00:00:00:00:00:00:86", "primaryServers": { "stringItem": ["10.104.245.130", "10.104.245.117"] }, "tenantId": "0" }]</pre> |
| Delete CCMZoneDistribution Object By Name | |
| Deletes the specified Cisco Prime Network Registrar CCMZoneDistribution object. | |
| Method: | DELETE |

| | |
|--|--|
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMZoneDistribution/zd_ngpr_lucknw |
| Delete CCMZoneDistribution Object List | |
| Deletes the specified list of Cisco Prime Network Registrar CCMZoneDistribution objects. | |
| Method: | DELETE |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMZoneDistribution |
| Header: | Content-Type:application/json |
| Request Body: | [{"objectId": "OID-00:00:00:00:00:00:00:8e"}] |

Special Functions

Special operations such as 'getNextAddress' and basic actions like 'reload server' require custom logic for the given class. These are identified by the 'action' parameter, and may be further qualified by specific keywords that specify input parameters. Abbreviated forms that are accepted for certain keywords are shown in parentheses. Default values generally apply for any input parameters, and invalid combinations return a 'bad request' error with an error message describing the issue. For example, if the 'reloadServer' action is requested for the Scope class, this will be rejected as a bad request, with an error message stating the action is not supported for that class.

reloadServer (reload)

PUT /web-services/rest/resource/serverClassName?action=reloadServer

Accept: application/xml, application/json

The reloadServer action is supported for the DHCPserver, DNSServer, and DNSCachingServer classes. No additional parameters will apply for this action. If no data input is specified, the named server is reloaded. Otherwise, the server object is modified before issuing the reload command.

Example:

| | |
|--|---|
| Get DNSServer Object | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/resource/DNSServer |
| Header: | Content-Type:application/json |
| Response Body: | { "objectId": "OID-00:00:00:00:00:00:00:07", "activityCounterLogSettings": "performance,query,errors,maxcounters,system,cache,update", "name": "DNS" } |
| Modify DNSServer Object By Name | |
| Method: | PUT |

| | |
|---------------|---|
| Endpoint: | https://localhost:8443/web-services/rest/resource/DNSServer?action=reloadServer |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:07", "activityCounterLogSettings": "performance,query,errors,maxcounters,system,cache,update", "minimalResponses" : "true", "name": "DNS" }</pre> |

runSync (sync)

PUT /web-services/rest/resource/syncClassName/objectName?action=runSync

Accept: application/xml, application/json

The runSync action is supported for the CCMFailoverPair, CCMHaDnsPair, and CCMZoneDistribution classes. If no data input is specified the named object is synchronized. Otherwise, the input object is modified before running the sync. By default, the sync is done in complete mode. The mode parameter may be used to specify update or exact mode. For DHCP failover and DNS HA pair sync, the default sync direction is from main. The direction parameter may be used to specify sync from backup.

| Modify CCMFailoverPair Object By Name | |
|---------------------------------------|--|
| Method: | PUT |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMFailoverPair/fo_chn_hyd?" action=sync&mode=update&direction=from-backup" |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "backup": "OID-00:00:00:00:00:00:65", "main": "OID-00:00:00:00:00:00:5b", "name": "fo_chn_hyd", "tenantId": "0", "mclt": "30m" }</pre> |
| Modify CCMHaDnsPair Object By Name | |
| Method: | PUT |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMHaDnsPair/ha_chn_hyd?" action=sync&mode=exact&direction=from-backup" |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "backup": "OID-00:00:00:00:00:00:57", "main": "OID-00:00:00:00:00:00:05", "name": "ha_chn_hyd", "tenantId": "0", "haDnsMainAddress": "10.104.245.211", "haDnsBackupAddress": "10.104.245.212" }</pre> |

| Modify CCMZoneDistribution Object By Name | |
|---|--|
| Method: | PUT |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMZoneDistribution/zd_ngpr_lucknw?" action=sync&mode=exact" |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "name": "zd_ngpr_lucknw", "primary": "OID-00:00:00:00:00:00:00:86", "primaryServers": { "stringItem": ["10.104.245.130", "10.104.245.117"] }, "tenantId": "0" }</pre> |

Cluster Sync

Sync action support has been added for cluster objects. This action is required whenever admin credentials or licensed services are changed. This action is available only in regional cluster.

| Modify CCMCluster Object By Name | |
|----------------------------------|--|
| Method: | PUT |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMCluster/clustername?action=sync |
| Header: | Content-Type:application/json |
| Request Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:54", "admin": "admin", "clusterId": "2", "httpsPort": "8443", "ip6Address": "::", "ipaddr": "10.104.245.211", "licensedServices": "dhcp,dns", "name": "cnr-cent72-3", "passwordSecret": "00:00:00:00:00:00:00:88", "productVersion": "11.1.0", "remoteId": "2", "replicationInitialized": "true", "scpPort": "1234", "sharedSecret": "00:00:00:00:00:00:00:ae", "tenantId": "0", "useHttpsPort": "true", "useSsl": "required" }</pre> |

pushToLocal (push)

PUT /web-services/rest/resource/className?action=pushToLocal&localCluster=clusterName

Accept: application/xml, application/json

PUT /web-services/rest/resource/className/objectName?action=pushToLocal&localCluster=clusterName

Accept: application/xml, application/json

The pushToLocal action is supported on the regional server for all list classes with corresponding regional and local storage. Note that child classes do NOT support independent push. These are only pushed when the parent object (that is, zone, subnet, or prefix) is pushed. If no data input is specified, the current regional list, or the named object are pushed to the specified local cluster(s). Otherwise, the input objects are modified on regional if necessary, and then pushed to the local cluster. By default, the push is done in replace mode. The mode parameter may be used to specify ensure or exact mode. However, exact mode can only be used when pushing a list of objects. The localCluster (cluster) parameter must specify at least one destination server.

Example:

| pushToLocal | |
|--------------------|--|
| Method: | PUT |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMScopeTemplate? " action=pushToLocal&localCluster={server1,server2}&mode=exact" |
| Header: | Content-Type:application/json |
| Request Body: | [{ "name": "Rest_Scope_template_1", "policy": "default", "rangesExpr": "(create-range 1 10)", "scopeName": "(concat \"ISP-\" subnet)", "tenantId": "0" }] |
| Response Body: | [1/2]: https://localhost:8453/web-services/rest/resource/CCMScopeTemplate?action=pushToLocal&localCluster=server1&mode=exact --> <stdout> --_curl_--https://localhost:8453/web-services/rest/resource/CCMScopeTemplate?action=pushToLocal&localCluster=server1&mode=exact [2/2]: https://localhost:8453/web-services/rest/resource/CCMScopeTemplate?action=pushToLocal&localCluster=server2&mode=exact --> <stdout> --_curl_--https://localhost:8453/web-services/rest/resource/CCMScopeTemplate?action=pushToLocal&localCluster=server2&mode=exact |

applyTemplate

You can apply templates to scopes, zones, prefixes, and links using the REST API. These can be applied to new or existing configuration objects using the applyTemplate action. Also, general template support is added for other types of configuration objects. For more information, see the *Cisco Prime Network Registrar 11.1 REST APIs Reference Guide*.

| Apply Template Using Pre-existing Zone | |
|---|--|
| Method: | POST |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMZone?" action=applyTemplate&template=rest_zone1.com." |
| Header: | Content-Type:application/json |

| | |
|--|--|
| Request Body: | { "origin": "rest_zone2.com." } |
| Apply Template Using Scope Template | |
| Method: | PUT |
| Endpoint: | https://localhost:8453/web-services/rest/resource/Scope/rest_scope_2?" action=applyTemplate&scopeTemplate=rest_st" |
| Header: | Content-Type:application/json |
| Request Body: | { "name": "rest_scope_2", "subnet": "2.0.0.0/24" } |

getLocalServer

GET /web-services/rest/resource/syncClassName/LocalServer?searchParam=value

Content-Type: application/xml, application/json

The getLocalServer action is available on regional clusters to identify the local cluster or pair for a given address, scope, prefix, FQDN, or primary zone. It is supported for the CCMCluster, CCMFailoverPair, CCMHaDnsPair, and CCMZoneDistribution classes. If a requested cluster is part of a pair, the main cluster is returned. If the parent cluster is not part of a requested pair or zone distribution, or a parent cluster is not found, a 'not found' error is returned.

Because this request is a GET action, the reserved resource 'LocalServer' is used to specify the action in place of the action parameter. If no search parameter is given, the request is interpreted as a getObjectByName request.

The set of search parameter keywords supported are:

| Keyword | Value |
|---------|--|
| address | IP v4 or v6 address or subnet |
| vpnId | VPN identifier for addresses in a VPN |
| scope | Scope name |
| prefix | Prefix name |
| link | Link name |
| fqdn | Zone or RR name |
| viewID | View identifier for zones or FQDNs in a view |

If the specified keyword is not valid for the requested class, a 'bad request' error will be returned.

Example:

| | |
|---|---|
| Get Local Server using CCMCluster (by Address) | |
| Method: | GET |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMCluster/LocalServer?address=20.0.0.0 |

| | |
|--|--|
| Header: | Accept:application/json |
| Get Local Server using CCMCluster (by Scope) | |
| Method: | GET |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMCluster/LocalServer?scope=ISP-10.0.0.0-24 |
| Header: | Accept:application/json |
| Get Local Server using CCMCluster (by Prefix) | |
| Method: | GET |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMCluster/LocalServer?prefix=p2 |
| Header: | Accept:application/json |
| Get Local Server using CCMCluster (by FQDN) | |
| Method: | GET |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMCluster/LocalServer?fqdn=zone10.com. |
| Header: | Accept:application/json |
| Response Body (for all the above operations): | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:6b", "admin": "admin", "clusterId": "4", "httpsPort": "8443", "ip6Address": "2001:420:54ff:13::403:37", "ipaddr": "10.104.245.117", "licensedServices": "dhcp,dns", "name": "cnr-rhel81-2", "passwordSecret": "00:00:00:00:00:00:00:6a", "productVersion": "11.1.0", "remoteId": "2", "replicationInitialized": "true", "scpPort": "1234", "sharedSecret": "00:00:00:00:00:00:00:9e", "tenantId": "0", "useHttpsPort": "true", "useSsl": "required" }</pre> |
| Get Local Server using CCMFailoverPair (by address) | |
| Method: | GET |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMFailoverPair/LocalServer?address=10.0.0.0 |
| Header: | Accept:application/json |

| | |
|---|---|
| Response Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:8b", "backup": "OID-00:00:00:00:00:00:00:75", "main": "OID-00:00:00:00:00:00:00:6b", "name": "pair2", "scopetemplate": "OID-00:00:00:00:00:00:00:86", "tenantId": "0" }</pre> |
| Get Local Server using CCMZoneDistribution (by fqdn) | |
| Method: | GET |
| Endpoint: | https://localhost:8453/web-services/rest/resource/CCMZoneDistribution/LocalServer?fqdn=zone1.com. |
| Header: | Accept:application/json |
| Response Body: | <pre>{ "objectId": "OID-00:00:00:00:00:00:00:8e", "name": "zd_1", "primary": "OID-00:00:00:00:00:00:00:89", "primaryServers": { "stringItem": ["10.104.245.211", "10.104.245.212"] }, "tenantId": "0" }</pre> |

Advanced APIs

Following are some of the advanced APIs in Cisco Prime Network Registrar:

Lease Actions

You can activate or deactivate a lease using the REST API. The v4 and v6 leases can be activated, deactivated, and forced available using the deactivate, activate, and forceAvailable actions respectively. The v6 lease can also be forced available using the reconfigure action.

Example:

getNextAddress

POST /web-services/rest/resource/addressClassName?action=getNextAddress¶m=value

The getNextAddress action is supported for the Reservation, Lease, Reservation6, and Lease6 classes. The action is valid for the class resource and must specify a client identifier, and either a specific scope/prefix by name or the parent subnet/prefix address and vpnd, if applicable. When the specific scope or prefix is not specified, the clientClass parameter is supported to target a specific address type. The prefixLength parameter may also be used for PD prefixes.

If the specified scope or prefix name is not found, a 'not found' error with the EX_REF_NOTFOUND error code is returned. If no suitable address range is configured for a specified parent address or client class, a 'not found' error is returned with the AX_DHCP_NO_CONFIGURED_RANGE error code. If configured, but no addresses are available, a 'server' error is returned with the AX_DHCP_NO_MORE_ADDRESSES error code indicating no addresses are available. Semantically incorrect input parameters report AX_SCP_INVALID_REQUEST.

If the DHCP server finds an address, the location for the corresponding Lease, Reservation, Lease6, or Reservation6 object is returned. The lease time for the lease is the default value for whatever policy is used. Note that when failover is employed, the first lease time is always the MCLT (typically one hour). When a reservation is allocated it will be persisted in the CCM database. If failover is configured, the reservation is added to the partner, provided the partner server is running and reachable. If the partner update fails, the client must retry the update or run failover sync to ensure the reservation is configured on both servers.

The set of parameter keywords supported are:

| Keyword | Value |
|-------------------------|--|
| clientId | Client identifier or v6 duid |
| parentAddress (address) | IP v4 subnet or v6 prefix/link address |
| vpnId | VPN identifier for addresses in a VPN |
| clientClass | Client class for this address |
| hostName (host) | Host name for this address |
| domainName (domain) | Domain name for this address host name |
| scopeName (scope) | Scope name |
| prefixName (prefix) | Prefix name |
| prefixLength (length) | For PD prefixes, the length to be allocated, or 0 if the server should determine the length. |

If the specified keyword is not valid for the requested class, a 'bad request' error is returned.

Note that POST parameters may be submitted in a form or specified in the request.

Example:

| | |
|---|--|
| Create Lease Object | |
| Creates a Cisco Prime Network Registrar Lease object. | |
| Method: | POST |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Lease?" clientId=1,6,01:01:01:01:01:01&scope=ISP-1.0.0.0-24" |
| Header: | Accept: application/x-www-form-urlencoded |
| Response Header: | Location: https://localhost:8443/web-services/rest/resource/Lease/1.0.0.1 |
| Get Next Available Lease Object | |
| Creates a Network Registrar Lease object with the next available address. | |
| Method: | POST |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Lease?" clientId=1,6,01:01:01:01:01:05&address=1.0.0.0&hostName=test&domainName=zone.com." |
| Header: | Accept: application/x-www-form-urlencoded |

| Create Lease6 Object | |
|--|--|
| Creates a Cisco Prime Network Registrar Lease6 object. | |
| Method: | POST |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Lease6?clientId=00:01:00:03:02:02:02:02:02&address=1001::" |
| Header: | Accept: application/x-www-form-urlencoded |
| Response Header: | Location: https://localhost:8443/web-services/rest/resource/Lease6/1001::515c:2c0b:233e:9867 |
| Create Reservation and Obtain Lease | |
| Method: | POST |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Reservation? "action=getNextAddress&ClientId=1,6,02:02:02:02:02:03&address=1.0.0.0" |
| Header: | Content-Type:application/json |
| Request Body: | { <pre> "ipaddr": "1.0.0.110", "lookupKey": "01:03:02:02:02:02:02:03", "lookupKeyType": "9", "scope": "ISP-1.0.0.0-24", "tenantId": "0", "vpnId": "0" </pre> |
| Response Header: | Location: https://localhost:8443/web-services/rest/resource/Reservation/1.0.0.132 |
| Create Reservation6 and Obtain Lease6 | |
| Method: | POST |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Reservation6? "action=getNextAddress&clientId=01:01:01:03:01:01:01:01:02&address=1001::1002" |
| Header: | Content-Type:application/json |
| Request Body: | { <pre> "ip6Address": "1001::1002", "lookupKey": "01:01:01:03:01:01:01:01:02", "lookupKeyType": "7", "prefix": "p1", "tenantId": "0", "vpnId": "0" </pre> |
| Response Header: | Location: https://localhost:8443/web-services/rest/resource/Reservation6/1001::3c32:5923:e494:ea71 |

Modify Lease

| Modify Lease Object By Name | |
|------------------------------------|---|
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Lease/1.0.0.131?action=deactivate |

| | |
|-------------------------------------|---|
| Header: | Accept:application/json |
| Release Lease Object by Name | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Lease/1.0.0.131?action=forceAvailable |
| Header: | Accept:application/json |

releaseAddress

DELETE /web-services/rest/resource/addressClassName/address?action=releaseAddress

The releaseAddress action is supported for the Reservation, Lease, Reservation6, and Lease6 classes. The action will force-available the specified address in the DHCP server. If the specified address is not found, a 'not found' error is returned.

If a reservation exists, it is deleted from the CCM database on that server. If failover is configured, the reservation is also removed from the partner, provided the partner server is running and reachable. If the partner update fails, the client must retry the update or run failover sync to ensure the reservation is removed on both servers.

Example:

| | |
|---|--|
| Release Lease | |
| Method: | PUT |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Lease/1.0.0.128?action=releaseAddress |
| Header: | Accept:application/json |
| Release Lease6 | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Lease6/1001::515c:2c0b:233e:9867 |
| Header: | Accept:application/json |
| Delete Reservation and Release Lease | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Reservation/1.0.0.132?action=releaseAddress |
| Header: | Accept:application/json |
| Delete Reservation6 and Release Lease6 | |
| Method: | DELETE |
| Endpoint: | https://localhost:8443/web-services/rest/resource/Reservation6/1001::3c32:5923:e494:ea71?action=releaseAddress |
| Header: | Accept:application/json |

Server Statistics

GET /web-services/rest/stats/serverClassName

Content-Type: application/xml, application/json

GET /web-services/rest/stats/serverClassName?nrClass=extStatsClassName

Content-Type: application/xml, application/json

Stats is supported for the DHCP`Server`, DNS`Server`, and DNS`CachingServer` classes and returns the basic stats for each server or the extended total stats object if a specific class is specified by the 'nrClass' parameter. If the requested class is not valid for the specified server class, a 'bad request' error is returned.

Example:

DHCP`Server`

Optional classes that can be requested are: CCMS`ServerInfo`, DHCP6`Stats`, DHCP`FailoverStats`, DHCP`ServerActivityStats`, DHCP`TopUtilizedStats`, Server`SystemsStats`

| Get DHCP Server Stats | |
|-------------------------------------|--|
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/stats/DHCP <code>Server</code> |
| Header: | Accept:application/json |
| Response Body: | <pre>{ "sampleDeltaTime": "60s", "sampleEndTime": "Mon Mar 22 18:31:16 2021", "serverReloadTime": "Mon Mar 22 18:09:17 2021", "serverStartTime": "Mon Mar 22 18:09:17 2021", "serverUpTime": "22m7s", "startTime": "Mon Mar 22 18:09:17 2021", "startTimeStr": "Mon Mar 22 18:09:17 2021", "statisticsRequestTime": "Mon Mar 22 18:31:24 2021", "statisticsResetTime": "Mon Mar 22 18:09:17 2021", "totalAcks": "5", "totalDeclines": "0", "totalDiscovers": "5", "totalNaks": "0", "totalOffers": "5", "totalReleases": "0", "totalRequests": "5" }</pre> |
| Get DHCP <code>FailoverStats</code> | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/stats/DHCP <code>Server</code> ?nrClass=DHCP <code>FailoverStats</code> |
| Header: | Accept:application/json |

| | |
|----------------|---|
| Response Body: | <pre> { "bindingAcksReceived": "260", "bindingAcksSent": "0", "bindingNaksReceived": "0", "bindingNaksSent": "0", "bindingUpdatesReceived": "0", "bindingUpdatesSent": "260", "connectAcksReceived": "1", "connectAcksSent": "0", "connectionsTerminatedByPartner": "0", "connectionsTerminatedByServer": "0", "connectsReceived": "0", "connectsSent": "1", "contactsReceived": "98", "contactsSent": "97", "decayingMaxRequestBuffersInUse": "1", "discardedMessages": "0", "disconnectsReceived": "0", "disconnectsSent": "0", "failedConnections": "0", "invalidConnections": "0", "invalidMessagesReceived": "0", "packetsReceived": "375", "packetsSent": "374", "poolRequestsReceived": "3", "poolResponsesSent": "3", "requestBuffersAllocated": "239", "requestBuffersInUse": "0", "stateReceived": "3", "stateSent": "3", "successfulConnections": "1", "unavailableRequests": "0", "updateDoneReceived": "1", "updateDoneSent": "2", "updateRequestsReceived": "1", "updateRequestsSent": "0", "v6BindingAcksReceived": "5", "v6BindingAcksSent": "0", "v6BindingNacksReceived": "0", "v6BindingNacksSent": "0", "v6BindingUpdatesReceived": "0", "v6BindingUpdatesSent": "5", "v6PoolRequestsReceived": "1", "v6PoolRequestsSent": "0", "v6PoolResponsesReceived": "0", "v6PoolResponsesSent": "1", "v6UpdateDoneReceived": "1", "v6UpdateDoneSent": "2", "v6UpdateRequestsReceived": "1", "v6UpdateRequestsSent": "0" } </pre> |
|----------------|---|

DHCPRelatedServer

DHCP Related Server classes are: DNSRelatedServer, FailoverRelatedServer, LDAPRelatedServer, RelayAgentState, TCPConnectionRelatedServer, TCPListenerRelatedServer, DHCPRenewalData

Example:

| | |
|--------------------------------------|-----|
| Get DNS Related Server Status | |
| Method: | GET |

| | |
|----------------|---|
| Endpoint: | https://localhost:8443/web-services/rest/stats/DHCPRelatedServer?nrClass=DNSRelatedServer |
| Header: | Accept:application/json |
| Response Body: | <pre>[{ "acknowledgedRequests": "0", "commState": "none", "currentTime": "Mon Mar 22 19:36:13 2021", "deactivatedCount": "0", "dnsServerFlags": "used-in-ha-pair,init-reply-time", "dnsServerState": "PROBE", "dnsTimeout": "6", "haDnsFailoverTimeout": "30", "haDnsProbeRetry": "1", "haDnsProbeTimeout": "2", "haDnsRole": "HA-MAIN", "inFlightRequests": "0", "ipaddr": "10.104.245.211", "lastHaDnsRoleSwitchTime": "Mon Mar 22 19:33:56 2021", "lastProbeSentTime": "Mon Mar 22 19:33:56 2021", "lastReplyReceivedTime": "Mon Mar 22 19:33:56 2021", "maxDnsRetries": "3", "maxRequests": "20", "requests": "0", "serverDeactivatedCount": "0", "timedOutRequests": "0" }, { "acknowledgedRequests": "0", "commState": "none", "currentTime": "Mon Mar 22 19:36:13 2021", "deactivatedCount": "0", "dnsServerFlags": "used-in-ha-pair,init-reply-time", "dnsServerState": "PROBE", "dnsTimeout": "6", "haDnsFailoverTimeout": "30", "haDnsProbeRetry": "1", "haDnsProbeTimeout": "2", "haDnsRole": "HA-BACKUP", "inFlightRequests": "0", "ipaddr": "10.104.245.212", "lastHaDnsRoleSwitchTime": "Mon Mar 22 19:33:56 2021", "lastProbeSentTime": "Mon Mar 22 19:33:56 2021", "lastReplyReceivedTime": "Mon Mar 22 19:33:56 2021", "maxDnsRetries": "3", "maxRequests": "20", "requests": "0", "serverDeactivatedCount": "0", "timedOutRequests": "0" }]</pre> |

DNSServer

Optional classes that can be requested are: CCMServerInfo, DNSServerDBStats, DNSServerErrorsStats, DNSServerHaStats, DNSServerIPv6Stats, DNSServerMaxCounterStats, DNSServerPerformanceStats, DNSServerPushNotificationsStats, DNSServerQueryStats, DNSServerSecurityStats, DNSTopNameStats, ServerSystemsStats

Get DNS Server Stats

| | |
|-----------------------------|---|
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/stats/DNSServer |
| Header: | Accept:application/json |
| Response Body: | <pre>{ "configRecurs": "3", "configReset": "4", "configResetTime": "16h43m8s", "configUpTime": "23h33m7s", "counterResetTime": "Mon Mar 22 12:40:18 2021", "id": "Cisco Systems, Inc. DNS Server, Release 11.0 Linux 64-bit build #11.0.2103211314, Mar 21 2021 13:16:11", "sampleInterval": "60s", "sampleTime": "Tue Mar 23 12:13:18 2021", "statisticsRequestTime": "Tue Mar 23 12:13:25 2021", "totalRrs": "10", "totalZones": "3" }</pre> |
| Get DNSServerHaStats | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/stats/DNSServer?nrClass=DNSServerHaStats |
| Header: | Accept:application/json |
| Response Body: | <pre>{ "haFullZoneResync": "2", "haMsgConnectRecv": "14", "haMsgConnectSent": "14", "haMsgHeartbeatRecv": "3306", "haMsgHeartbeatSent": "3307", "haMsgReconcileRecv": "0", "haMsgReconcileSent": "36", "haMsgReqRecv": "3335", "haMsgReqRecvTime": "Tue Mar 23 13:02:31 2021", "haMsgReqSent": "3409", "haMsgReqSentTime": "Tue Mar 23 13:02:31 2021", "haMsgRespRecv": "3406", "haMsgRespSent": "3333", "haMsgRrsyncRecv": "0", "haMsgRrsyncSent": "24", "haMsgRrupdateRecv": "0", "haMsgRrupdateSent": "0", "haMsgShutdownRecv": "2", "haMsgShutdownSent": "3", "haMsgZonesyncRecv": "0", "haMsgZonesyncSent": "12", "haRespInconsistent": "0", "haRespServfail": "0", "haRespUnknown": "0", "haStateCommInterrupted": "13", "haStateCurrent": "HA_NORMAL", }</pre> |

| | |
|--|--|
| | <pre> "haStateLastChangeTime": "Tue Mar 23 05:29:31 2021", "haStateNegotiating": "14", "haStateNormal": "13", "haStatePartnerDown": "0", "haStateStartup": "6", "haSyncConflict": "0", "haSyncDiscardName": "0", "haSyncMergeName": "0", "haUpdateReject": "0", "haZoneMismatch": "0" </pre> |
|--|--|

CCMServer

| Get CCM Server Stats | |
|----------------------|--|
| Method: | GET |
| Endpoint: | https://loalhost:8443/web-services/rest/stats/CCMServer |
| Header: | Accept:application/json |
| Response Body: | <pre> { "dataFreeSpace": "16376", "dataPath": "/var/nwreg2/local/data/", "dataTotalSpace": "38389", "lastBackupBytes": "80.5 MB", "lastBackupElapsedTime": "6s", "lastGoodBackup": "Mon Mar 22 23:45:06 2021", "logsFreeSpace": "16376", "logsPath": "/var/nwreg2/local/logs/", "logsTotalSpace": "38389", "serverStats": { "ServerSystemStatsItem": [{ "cpuUtilization": "4s", "memoryUtilization": "9376", "pid": "7318", "serverType": "1443", "vmUtilization": "304184" }, { "cpuUtilization": "41s", "memoryUtilization": "59576", "pid": "7497", "serverType": "1451", "vmUtilization": "504464" }, { "cpuUtilization": "3m4s", "memoryUtilization": "67484", "pid": "8258", "serverType": "1200", "vmUtilization": "517460" }] } } </pre> |

| | |
|--|---|
| | <pre> { "cpuUtilization": "8m29s", "memoryUtilization": "40128", "pid": "8259", "serverType": "1100", "vmUtilization": "603120" }, { "cpuUtilization": "9m34s", "memoryUtilization": "125203", "pid": "7502", "serverType": "1460", "statisticsRequestTime": "Tue Mar 23 13:20:24 2021", "vmUtilization": "154112" }, { "cpuUtilization": "0", "memoryUtilization": "10936", "pid": "7499", "serverType": "1600", "vmUtilization": "260968" }] }, "statisticsRequestTime": "Tue Mar 23 13:25:00 2021" } </pre> |
|--|---|

DNSCachingServer

Optional classes that can be requested are: CCMServerInfo, DNSTopNameStats, ServerSystemsStats

| Get DNS Caching Server Stats | |
|------------------------------|--|
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/stats/DNSCachingServer |
| Header: | Accept:application/json |
| Response Body: | <pre> { "answersRrsetUnsecure": "0", "answersSecure": "0", "answersUnsecure": "0", "answersUnwanted": "0", "answersWithFormerr": "0", "answersWithNodata": "0", "answersWithNoerror": "0", "answersWithNotauth": "0", "answersWithNotimp": "0", "answersWithNxdomain": "0", "answersWithRefused": "0", "answersWithServfail": "0", "answersWithOtherErrors": "0", "cacheHits": "0", "cacheMisses": "0", "cachePrefetches": "0", "clientRateLimit": "0", "configRecurs": "1", "dns64A2AaaaConversions": "0", </pre> |

```

"dns64PtrConversions": "0",
  "domainRateLimit": "0",
  "exceededMaxTargetCount": "0",
  "firewallDropped": "0",
  "firewallRedirectNxdomain": "0",
  "firewallRedirected": "0",
  "firewallRefused": "0",
  "firewallRpz": "0",
  "keyCacheExceeded": "0",
  "memCache": "33064",
  "memCacheExceeded": "0",
  "memIterator": "16596",
  "memProcess": "0",
  "memQueryCache": "33064",
  "memQueryCacheExceeded": "0",
  "memValidator": "0",
  "name": "Cisco Systems, Inc. DNS Caching Server, Release 10.1.1 Linux 64-bit
build #10.1.1.2012081345, Dec  8 2020 13:47:47",
  "queriesFailingAcl": "0",
  "queriesOverIpv6": "0",
  "queriesOverTcp": "0",
  "queriesTotal": "0",
  "queriesTypeA": "0",
  "queriesTypeAaaa": "0",
  "queriesTypeAny": "0",
  "queriesTypeCname": "0",
  "queriesTypeDnskey": "0",
  "queriesTypeDs": "0",
  "queriesTypeMx": "0",
  "queriesTypeNs": "0",
  "queriesTypeNsec": "0",
  "queriesTypeNsec3": "0",
  "queriesTypePtr": "0",
  "queriesTypeRrsig": "0",
  "queriesTypeSoa": "0",
  "queriesTypeOther": "0",
  "queriesUnwantedClass": "0",
  "queriesWithEdns": "0",
  "queriesWithEdnsDo": "0",
  "queriesWithFlagAa": "0",
  "queriesWithFlagAd": "0",
  "queriesWithFlagCd": "0",
  "queriesWithFlagQr": "0",
  "queriesWithFlagRa": "0",
  "queriesWithFlagRd": "0",
  "queriesWithFlagTc": "0",
  "queriesWithFlagZ": "0",
  "recursiveRepliesTotal": "0",
  "recursiveTimeAverage": "0",
  "recursiveTimeMedian": "0",
  "remoteNsCacheExceeded": "0",
  "requestlistTotal": "0",
  "requestlistTotalAverage": "0",
  "requestlistTotalExceeded": "0",
  "requestlistTotalMax": "0",
  "requestlistTotalOverwritten": "0",
  "requestlistTotalSystem": "0",
  "requestlistTotalUser": "0",
  "resetTime": "Fri Mar 26 15:50:19 2021",
  "restartTime": "Fri Mar 26 15:50:19 2021",
  "sampleInterval": "60s",
  "sampleTime": "Fri Mar 26 17:03:28 2021",
  "smartCache": "0",
  "timeCurrent": "Fri Mar 26 17:03:31 2021",
  "timeElapsed": "3s",
  "timeUp": "1h13m12s"
}

```

Sample Statistics

In Cisco Prime Network Registrar, in addition to total statistics, the REST interface provides sample statistics of all servers (DHCP (v4 and v6), DNS and Caching DNS).

Example:

DHCPServer

| Get DHCPFailoverStats | |
|-----------------------|--|
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/stats/sample/DHCPServer?nrClass=DHCPFailoverStats |
| Header: | Accept:application/json |
| Response Body: | <pre>{ "bindingAcksReceived": "0", "bindingAcksSent": "0", "bindingNaksReceived": "0", "bindingNaksSent": "0", "bindingUpdatesReceived": "0", "bindingUpdatesSent": "0", "connectAcksReceived": "0", "connectAcksSent": "0", "connectionsTerminatedByPartner": "0", "connectionsTerminatedByServer": "0", "connectsReceived": "0", "connectsSent": "0", "contactsReceived": "4", "contactsSent": "4", "decayingMaxRequestBuffersInUse": "3", "discardedMessages": "0", "disconnectsReceived": "0", "disconnectsSent": "0", "failedConnections": "0", "invalidConnections": "0", "invalidMessagesReceived": "0", "packetsReceived": "4", "packetsSent": "4", "poolRequestsReceived": "0", "poolResponsesSent": "0", "requestBuffersAllocated": "239", "requestBuffersInUse": "0", "stateReceived": "0", "stateSent": "0", "successfulConnections": "0", "unavailableRequests": "0", "updateDoneReceived": "0", "updateDoneSent": "0", "updateRequestsReceived": "0", "updateRequestsSent": "0", "v6BindingAcksReceived": "0", "v6BindingAcksSent": "0", "v6BindingNaksReceived": "0", "v6BindingNaksSent": "0", "v6BindingUpdatesReceived": "0", "v6BindingUpdatesSent": "0",</pre> |

| | |
|-------------------------|---|
| | <pre> "v6PoolRequestsReceived": "0", "v6PoolRequestsSent": "0", "v6PoolResponsesReceived": "0", "v6PoolResponsesSent": "0", "v6UpdateDoneReceived": "0", "v6UpdateDoneSent": "0", "v6UpdateRequestsReceived": "0", "v6UpdateRequestsSent": "0" } </pre> |
| Response Header: | <pre> < X-Sample-Time: Tue Mar 23 13:40:14 2021 < X-Sample-Interval: 60s </pre> |

DNSServer

| Get DnsServerHAStats | |
|-----------------------------|---|
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/stats/sample/DNSServer?nrClass=DNSServerHAStats |
| Header: | Accept:application/json |
| Response Body: | <pre> { "haFullZoneResync": "0", "haMsgConnectRecv": "0", "haMsgConnectSent": "0", "haMsgHeartbeatRecv": "0", "haMsgHeartbeatSent": "0", "haMsgReconcileRecv": "0", "haMsgReconcileSent": "0", "haMsgReqRecv": "0", "haMsgReqRecvTime": "Tue Mar 23 13:45:56 2021", "haMsgReqSent": "0", "haMsgReqSentTime": "Tue Mar 23 13:45:56 2021", "haMsgRespRecv": "0", "haMsgRespSent": "0", "haMsgRrsyncRecv": "0", "haMsgRrsyncSent": "0", "haMsgRrupdateRecv": "0", "haMsgRrupdateSent": "0", "haMsgShutdownRecv": "0", "haMsgShutdownSent": "0", "haMsgZonesyncRecv": "0", "haMsgZonesyncSent": "0", "haRespInconsistent": "0", "haRespServfail": "0", "haRespUnknown": "0", "haStateCommInterrupted": "0", "haStateCurrent": "HA_NORMAL", "haStateLastChangeTime": "Tue Mar 23 13:31:17 2021", "haStateNegotiating": "0", "haStateNormal": "0", "haStatePartnerDown": "0", "haStateStartup": "0", "haSyncConflict": "0", "haSyncDiscardName": "0", "haSyncMergeName": "0", "haUpdateReject": "0", "haZoneMismatch": "0" } </pre> |
| Response Header: | <pre> < X-Sample-Time: Tue Mar 23 13:49:15 2021 < X-Sample-Interval: 60s </pre> |

DNSECachingServer

| Get DNSECachingServerStats | |
|----------------------------|--|
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/stats/sample/DNSECachingServer?nrClass=DnsTopNameStats |
| Header: | Accept:application/json |
| Response Body: | <pre>{ "lastAccessTime": "Tue Mar 23 13:53:11 2021", "lastResetTime": "Tue Mar 23 13:52:11 2021", "timestamp": "Tue Mar 23 13:53:34 2021", "topNames": { "list": [] }, "totalCounted": "0" }</pre> |
| Response Header: | <pre>< X-Sample-Time: Tue Mar 23 13:53:17 2021 < X-Sample-Interval: 60s</pre> |

Server System Statistics

You can get the server system statistics for the individual servers using the REST API. This helps in monitoring the servers effectively. REST support is added for SystemStats and ServerSystemStats classes. ServerSystemStats provides information about the system resources used by one Cisco Prime Network Registrar server. SystemStats provides system-wide statistics about the host running Network Registrar. This typically includes things like memory, CPU, and disk-space utilization.

Example:

| Get ServerSystemStats | |
|-----------------------|--|
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/stats/DNSECachingServer?nrClass=ServerSystemStats |
| Header: | Accept:application/json |
| Response Body: | <pre>{ "cpuUtilization": "0", "memoryUtilization": "64544", "pid": "5980", "serverType": "1227", "vmUtilization": "368824" }</pre> |

Utilization Data

You can obtain the utilization data for scopes and prefixes using the REST API. Support for a new category of statistics has been added to report v4 and v6 utilization. REST support is added for CurrentUtilization and CurrentPrefixUtilization classes. CurrentUtilization provides detailed address utilization information from a single DHCP scope, or an entire subnet or address block. CurrentPrefixUtilization reports detailed address utilization information from a single DHCP prefix, or for all DHCP prefixes contained in a parent prefix or link.

CurrentUtilization

| Get DHCP Scope Utilization | |
|---|--|
| Method: | GET |
| Endpoint: | https://localhost:8453/web-services/rest/stats/CurrentUtilization |
| Header: | Accept:application/json |
| Response Body: | <pre>[{ "activeDynamic": "1", "aggregationLevel": "subnet-level", "avail": "127", "deactivated": "0", "expired": "0", "freeDynamic": "254", "leased": "1", "leasedDeactivated": "0", "offered": "0", "otherAvail": "127", "pendAvail": "0", "reservedActive": "0", "reservedInactive": "0", "reservedLeasedDeactivated": "0", "reservedUnavail": "0", "subnet": "1.0.0.0/24", "totalDynamic": "255", "totalReserved": "0", "unavail": "0", "vpnId": "0" }, { "activeDynamic": "1", "aggregationLevel": "scope-level", "avail": "127", "clusterId": "2", "deactivated": "0", "expired": "0", "failoverRole": "main", "failoverState": "normal", "freeDynamic": "254", "leased": "1", "leasedDeactivated": "0", "offered": "0", "otherAvail": "127", "pendAvail": "0", "primarySubnet": "1.0.0.0/24", "reservedActive": "0", "reservedInactive": "0", "reservedLeasedDeactivated": "0", "reservedUnavail": "0", "scopeName": "ISP-1.0.0.0-24", "subnet": "1.0.0.0/24", "timestamp": "Mon Mar 22 13:47:06 2021", "totalDynamic": "255", "totalReserved": "0", "unavail": "0", "vpnId": "0" }]</pre> |
| Get DHCP Scope Utilization for a given scope | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/stats/CurrentUtilization/ISP-1.0.0.0-24 |

| | |
|----------------|--|
| Header: | Accept:application/json |
| Response Body: | <pre>{ "activeDynamic": "1", "aggregationLevel": "scope-level", "avail": "127", "deactivated": "0", "expired": "0", "failoverRole": "main", "failoverState": "normal", "freeDynamic": "254", "leased": "1", "leasedDeactivated": "0", "offered": "0", "otherAvail": "127", "pendAvail": "0", "primarySubnet": "1.0.0.0/24", "reservedActive": "0", "reservedInactive": "0", "reservedLeasedDeactivated": "0", "reservedUnavail": "0", "scopeName": "ISP-1.0.0.0-24", "subnet": "1.0.0.0/24", "totalDynamic": "255", "totalReserved": "0", "unavail": "0", "vpnId": "0" }</pre> |

CurrentPrefixUtilization

| | |
|------------------------------------|--|
| Get DHCP Prefix Utilization | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/stats/CurrentPrefixUtilization |
| Header: | Accept:application/json |
| Response Body: | <pre>[{ "activeDynamic": "2", "aggregationLevel": "prefix-level", "deactivated": "0", "dhcpType": "dhcp", "expired": "0", "leased": "2", "leasedDeactivated": "0", "linkName": "Link-1001::/64", "offered": "0", "pendingDelete": "0", "prefix": "1001::/64", "prefixDeactivated": "false", "prefixName": "p1", "prefixRange": "1001::/64", "reservedActive": "0", "reservedInactive": "0", }]</pre> |

| | |
|--|--|
| | <pre> "revoked": "0", "totalReserved": "0", "unavail": "0", "vpnId": "0" }, { "activeDynamic": "5", "aggregationLevel": "prefix-level", "deactivated": "0", "dhcpType": "dhcp", "expired": "0", "leased": "5", "leasedDeactivated": "0", "linkName": "Link-3001::/64", "offered": "0", "pendingDelete": "0", "prefix": "3001::/64", "prefixDeactivated": "false", "prefixName": "p3", "prefixRange": "3001::/64", "reservedActive": "0", "reservedInactive": "0", "reservedLeasedDeactivated": "0", "reservedUnavail": "0", "revoked": "0", "tenantId": "1", "totalReserved": "0", "unavail": "0", "vpnId": "0" }] </pre> |
| <p>Get DHCP Prefix Utilization for a given prefix</p> | |
| <p>Method:</p> | <p>GET</p> |
| <p>Endpoint:</p> | <p>https://localhost:8443/web-services/rest/stats/CurrentPrefixUtilization/p3</p> |
| <p>Header:</p> | <p>Accept:application/json</p> |
| <p>Response Body:</p> | <pre> { "activeDynamic": "5", "aggregationLevel": "prefix-level", "deactivated": "0", "dhcpType": "dhcp", "expired": "0", "leased": "5", "leasedDeactivated": "0", "linkName": "Link-3001::/64", "offered": "0", "pendingDelete": "0", "prefix": "3001::/64", "prefixDeactivated": "false", "prefixName": "p3", "prefixRange": "3001::/64", "reservedActive": "0", "reservedInactive": "0", "reservedLeasedDeactivated": "0", "reservedUnavail": "0", "revoked": "0", "tenantId": "1", "totalReserved": "0", "unavail": "0", "vpnId": "0"} </pre> |

DHCP Scope Status

You can determine whether a scope is up to date in the DHCP server using the REST API. REST support is added for the DHCPScopeStatus class. It reports the status of a scope.

| Get DHCP Scope Status | |
|--|--|
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/stats/DHCPScopeStatus?nrStatusFull=true |
| Header: | Accept:application/json |
| Response Body: | <pre>[{ "name": "ISP-1.0.0.0-24", "scopeStatus": "published" }, { "name": "ISP-2.0.0.0-24", "scopeStatus": "published" }, { "name": "unpublished", "scopeStatus": "published" }]</pre> |
| Get DHCP Scope Status for a given scope | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/stats/DHCPScopeStatus/ISP-1.0.0.0-24 |
| Header: | Accept:application/json |
| Response Body: | <pre>{ "name": "ISP-1.0.0.0-24", "scopeStatus": "published" }</pre> |
| Get DHCP Scope Status by staged edits | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/stats/DHCPScopeStatus |
| Header: | Accept:application/json |
| Response Body: | <pre>[{ "name": "ISP-1.0.0.0-24", "scopeStatus": "unpublished" }, { "name": "ISP-2.0.0.0-24", "scopeStatus": "unpublished" }, { "name": "unpublished", "scopeStatus": "unpublished" }]</pre> |

DNSHaStatus

| Get DNS HA Status | |
|--|---|
| Method: | GET |
| Endpoint: | https://localhost:8453/web-services/rest/stats/DnsHAStatus |
| Header: | Accept:application/json |
| Response Body: | <pre>[{ "role": "MAIN", "state": "HA_NORMAL", "clusterName": "cnr-cent72-3", "haZoneCount": "2", "zoneSyncCompleteCount": "2", "zoneSyncCompleteList": { "CCMZoneItem": [{"origin": "zone2.com"}, {"origin": "zone1.com"}] }, "zoneSyncFailedCount": "0", "zoneSyncFailedList": { "list": [] }, "zoneSyncPendingCount": "0", "zoneSyncPendingList": { "list": [] } }, { "role": "MAIN", "state": "HA_NORMAL", "clusterName": "cnr-rhel81-2", "haZoneCount": "2", "zoneSyncCompleteCount": "2", "zoneSyncCompleteList": { "CCMZoneItem": [{"origin": "zone10.com"}, {"origin": "zone20.com"}] }, "zoneSyncFailedCount": "0", "zoneSyncFailedList": { "list": [] }, "zoneSyncPendingCount": "0", "zoneSyncPendingList": { "list": [] } }]</pre> |
| Get DNS HA Status for a given DNS HA pair | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/stats/DnsHAStatus/pair1 |
| Header: | Accept:application/json |

| | |
|----------------|--|
| Response Body: | <pre> { "role": "MAIN", "state": "HA_NORMAL", "haZoneCount": "2", "zoneSyncCompleteCount": "2", "zoneSyncCompleteList": { "CCMZoneItem": [{ "origin": "zone2.com" }, { "origin": "zone1.com" }] }, "zoneSyncFailedCount": "0", "zoneSyncFailedList": { "list": [] }, "zoneSyncPendingCount": "0", "zoneSyncPendingList": { "list": [] } } </pre> |
|----------------|--|

DnsZoneStatus

| | |
|---|---|
| Get Unpublished DNS Zone Status | |
| Gets the list of Network Registrar DnsZoneStatus objects for all primary zones with unpublished changes. Use the query parameter <i>nrStatusFull</i> to request status for all primary zones. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/stats/DnsZoneStatus |
| Header: | Accept:application/json |
| Response Body: | <pre> [{ "haStatus": "none", "origin": "unpublished.com.", "viewQualifiedName": "unpublished.com.", "zoneStatus": "unpublished" }] </pre> |
| Get Unpublished DNS zone status inside view | |
| Gets the Network Registrar DnsZoneStatus object for the specified forward or reverse zone. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/stats/DnsZoneStatus?nrStatusFull=False&viewId=1 |
| Header: | Accept:application/json |

| | |
|--|---|
| Response Body: | <pre>[{ "haStatus": "none", "origin": "view2.com.", "viewQualifiedName": "view1/view2.com.", "zoneStatus": "unpublished" }]</pre> |
| Get DNS Zone Status all | |
| Gets the list of Network Registrar DnsZoneStatus objects for all primary zones with unpublished changes. Use the query parameter nrStatusFull to request status for all primary zones. | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/stats/DnsZoneStatus?nrStatusFull=True |
| Header: | Accept:application/json |
| Response Body: | <pre>[{ "haStatus": "none", "origin": "unpublished.com.", "viewQualifiedName": "unpublished.com.", "zoneStatus": "unpublished" }, { "haStatus": "sync-complete", "origin": "zone1.com.", "viewQualifiedName": "zone1.com.", "zoneStatus": "published" }, { "haStatus": "sync-complete", "origin": "zone2.com.", "viewQualifiedName": "zone2.com.", "zoneStatus": "published" }, { "haStatus": "none", "origin": "127.in-addr.arpa.", "viewQualifiedName": "127.in-addr.arpa.", "zoneStatus": "published" }]</pre> |

DHCP Failover Status

You can determine the failover status in the DHCP server using the REST API. REST support is added for the FailoverRelatedServer class. It reports the DHCP server's related servers' information that is specific to a Failover partner.

| | |
|----------------------------------|--|
| Get FailoverRelatedServer | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/stats/DHCPRelatedServer?nrClass=FailoverRelatedServer |
| Header: | Accept:application/json |

| | |
|---------------|--|
| Request Body: | <pre>[{ "bindingAcksReceivedTotal": "270", "bindingUpdatesSentTotal": "270", "commState": "ok", "connectionEndTime": "Mon Mar 22 19:34:00 2021", "connectionStartTime": "Mon Mar 22 19:34:06 2021", "currentTime": "Mon Mar 22 20:03:08 2021", "decayingMaxRequestBuffersInUse": "1", "failoverPairName": "pair1", "ipaddr": "10.104.245.212", "lastCommOkTime": "Mon Mar 22 20:02:11 2021", "loadBalancingBackupPct": "0%", "loadBalancingDroppedRequests": "0", "loadBalancingDroppedTotal": "0", "loadBalancingProcessedRequests": "0", "loadBalancingProcessedTotal": "0", "maximumClientLeadTime": "3600", "otherServerDownTime": "Mon Mar 22 19:34:00 2021", "ourIpaddr": "10.104.245.211", "partnerRole": "backup", "partnerState": "normal", "partnerVendorMajorVersion": "2", "partnerVendorMinorVersion": "0", "requestBuffersAllocated": "239", "role": "main", "sequenceNumber": "1.0", "smoothedTimeDelta": "0", "startOfCommInterrupted": "Mon Mar 22 19:34:00 2021", "startTimeOfPartnerState": "Mon Mar 22 19:34:06 2021", "startTimeOfState": "Mon Mar 22 19:34:06 2021", "state": "normal", "updateRequestDoneTime": "Mon Mar 22 19:33:56 2021", "updateResponseDoneTime": "Mon Mar 22 19:34:06 2021", "updateResponseStartTime": "Mon Mar 22 19:34:06 2021", "useOtherAvailable": "false", "v6BindingAcksReceivedTotal": "16", "v6BindingUpdatesSentTotal": "16", "v6UpdateRequestDoneTime": "Mon Mar 22 19:33:56 2021", "v6UpdateResponseDoneTime": "Mon Mar 22 19:34:06 2021", "v6UpdateResponseStartTime": "Mon Mar 22 19:34:06 2021" }]</pre> |
|---------------|--|

Resource Limits Notification

As part of Resource Limits feature, when resource limits are crossed, it is indicated via alarms in web UI, through status code '109' in CLI during the entry and exit of CLI, and through the **resource report** command. The same feature is available via the REST API too.

Example:

| Get Resource Status | |
|---------------------|---|
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/stats/ResourceStatus |
| Header: | Accept:application/json |

| | |
|----------------------------|--|
| Response Body: | <pre>{ "critical": "1", "ok": "12", "warning": "1" }</pre> |
| Get Resource Report | |
| Method: | GET |
| Endpoint: | https://localhost:8443/web-services/rest/stats/ResourceReport |
| Header: | Accept:application/json |
| Response Body: | <pre>[{ "critical": "1", "ok": "12", "warning": "1" }, { "objectId": "OID-00:00:00:00:00:00:88", "ascendingOrdered": "true", "eventState": "critical", "eventTimestamp": "Tue Mar 23 15:08:22 2021", "intCriticalLevel": "400", "intDataType": "AT_INT64", "lastEventTime": "Tue Mar 23 15:08:22 2021", "lastIntValue": "515", "lastUpdatedTime": "Tue Mar 23 15:10:22 2021", "lastValueMessage": "515 above 400", "lastValueState": "Critical", "name": "lease-count", "peakIntValue": "515", "peakTime": "Tue Mar 23 13:31:22 2021", "peakValueMessage": "515 max above 400", "serverClass": "1100", "state": "Critical", "tenantId": "0" }, { "objectId": "OID-00:00:00:00:00:00:8a", "ascendingOrdered": "true", "eventState": "warning", "eventTimestamp": "Tue Mar 23 15:08:22 2021", "intCriticalLevel": "25000000", "intDataType": "AT_INT64", "intWarningLevel": "10", "lastEventTime": "Tue Mar 23 15:08:22 2021", "lastIntValue": "16", "lastUpdatedTime": "Tue Mar 23 15:10:22 2021", "lastValueMessage": "16 above 10", "lastValueState": "Warning", }]</pre> |

```

        "name": "rr-count",
        "peakIntValue": "16",
        "peakTime": "Tue Mar 23 13:31:22 2021",
        "peakValueMessage": "16 max above 10",
        "serverClass": "1200",
        "state": "Warning",
        "tenantId": "0"
    }
}
    
```

Swagger Documentation

Swagger UI for REST API can be launched using `https://ipaddress:port/web-services`

When server has both IPv4 and IPv6 addresses, Swagger works on IPv4 by default. For IPv6 communication, you need to launch the Swagger UI using `https://[ipv6address]:port/web-services` (IPv6 address enclosed in square brackets) and select v6 address from the server drop-down.

Swagger UI picks up the address and port from the file `cnr.data-home/tomcat/webapps/ws/web-services/openapi.json`. This file should not be edited unless required. Any changes made to this file requires server agent restart.

When `openapi.json` has default values for address and port, that is, `SWAGGER_IP`, `SWAGGER_IPV6`, and `SWAGGER_PORT` instead of real values:

- If values are not configured in the `cnr.conf` file, on server agent restart, the Swagger UI picks and configures `openapi.json` values from the local environment.
- If values are configured in the `cnr.conf` file wherein `cnr.swagger-ip` is set to IPv4 address, `cnr.swagger-ipv6` is set to IPv6 address, then these values will be picked up.

Note: If `openapi.json` has previously configured valid values, then `openapi.json` takes precedence irrespective of the value set in `cnr.conf` later.

Special Characters to Use in REST Requests

In certain cases, special characters have to be used in the input request to get a successful response. You need to substitute these special characters with the following HTML codes in the name when performing an operation by name.

| Character | Code |
|-----------|------|
| Space | %20 |
| ! | %21 |
| " | %22 |
| # | %23 |
| \$ | %24 |
| % | %25 |
| & | %26 |

Status Codes

| | |
|---|-----|
| ' | %27 |
| (| %28 |
|) | %29 |
| * | %2A |
| + | %2B |
| , | %2C |
| - | %2D |
| . | %2E |

Status Codes

| Status Code | Description |
|---------------------------|--|
| 200 OK | The request has successfully completed. This response is typically seen for GET, PUT, and DELETE methods. |
| 201 Created | The request has successfully completed and a new resource has been created. This response is typically seen for POST and PUT methods. |
| 405 Method Not Allowed | The method in the request is not supported by the resource. For example, if you try POST method on DNSServer, you will get this error. |
| 500 Internal Server Error | The server is unable to handle the error. |
| 400 Bad Request | For the following SCP message response codes: <ul style="list-style-type: none"> AX_SCP_INVALID_CLASSNAME AX_SCP_INVALID_ATTRNAME AX_SCP_INVALID_ATTRVAL |
| 401 Unauthorized | For the following SCP message response codes: <ul style="list-style-type: none"> AX_EPERM AX_EACCES AX_SCP_PERMISSION_DENIED AX_SCP_AUTHENTICATION_FAILED AX_SCP_SERVER_AUTH_FAILED AX_DNS_PERMISSION_DENIED AX_SCP_INVALID_REQUEST |

| | |
|---------------|---|
| 404 Not Found | For the following SCP message response codes: <ul style="list-style-type: none">• AX_ENOENT• EX_REF_NOTFOUND• AX_DHCP_NO_CONFIGURED_RANGE |
|---------------|---|

Product Documentation

See [Cisco Prime Network Registrar 11.1 Documentation Overview](#) for the list of Cisco Prime Network Registrar 11.1 guides.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see [What's New in Cisco Product Documentation](#).

To receive new and revised Cisco technical content directly to your desktop, you can subscribe to the What's New in Cisco Product Documentation RSS feed. RSS feeds are a free service.

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