



CHAPTER 8

DCNM for SAN Web Services API

This chapter describes the DCNM for SAN (DCNM-SAN) Web Services application program interface (API). This chapter defines the APIs exposed by the Cisco DCNM for SAN Web Services feature.

This chapter includes the following sections:

- [Web Services Specifications, page 8-1](#)
- [Logon Service, page 8-2](#)
- [San WS, page 8-4](#)
- [Zone Manager WS - SEI, page 8-24](#)
- [Statistics WS, page 8-33](#)
- [Security WS, page 8-36](#)
- [Protocol WS, page 8-44](#)
- [Event WS - SEI, page 8-51](#)
- [Cluster WS - SEI, page 8-49](#)
- [Inventory WS - SEI, page 8-54](#)
- [Error Codes, page 8-59](#)

Web Services Specifications

Web Services specifications combine together to provide interoperable protocols for security, communication, and syntax for representing data.

- [XML, page 8-1](#)
- [SOAP, page 8-2](#)
- [HTTP/HTTPS, page 8-2](#)
- [WDSL, page 8-2](#)

XML

XML is the data format that defines the structure of the message. XML Web Services architecture allows programs written in different languages on different platforms to communicate with each other in a standards-based way. XML Web Services expose useful functionality to Web users through a standard Web protocol (SOAP).

Send documentation comments to dcnm-san-docfeedback@cisco.com

SOAP

Simple Object Access Protocol (SOAP) is the communications protocol for Web Services. SOAP is a specification that defines the XML format for messages. The advantage of SOAP is that it has been implemented on many different hardware and software platforms.

HTTP/HTTPS

HTTP/HTTPS is the transport layer of the service. HTTP/HTTPS allows data to traverse the network easily and is widely accepted. It is also considered as platform neutral. Every Cisco DCNM-SAN Web Services operation is through HTTP/HTTPS.

WSDL

A WSDL definition is an XML document with a root definition element from the <http://schemas.xmlsoap.org/wsdl/> namespace. Cisco DCNM-SAN Web Services uses the WSDL document to publish which operations of DCNM-SAN are available. The definitions element can contain several other elements including types, message, portType, binding, and service, all of which come from the namespace. WSDL is published on FMService at:

<http://localhost/LogonWSService/LogonWS?wsdl>

Logon Service

LogonWS makes IdentityManager's operations available as Web Service calls. LogonWS allows the following operations:

- [requestToken](#), page 8-2
- [validateToken](#), page 8-4

requestToken

This method returns a token string that must be passed in as the header of the SOAP message. Once the username and password is authenticated using DCNM-SAN's SecurityManager, the token is generated and is kept valid for the number of milliseconds specified in the expiration argument.

Parameters

username—Name of the user.

password—Password of the user.

expiration—Time (in milliseconds).

Return Value

Session token.

Error

Error code: 201—Invalid argument in Web Service exception.

Send documentation comments to dcnm-san-docfeedback@cisco.com

requestLogonRole

Parameters

username—Name of the user.
password—Password of the user.
expiration—Time (in milliseconds).

Return Value

Session token.

Error

Error code: 201—Invalid argument in Web Service exception.

requestLogonToken

Parameters

username—Name of the user.
password—Password of the user.
expiration—Time (in milliseconds).

Return Value

Session token.

Error

Error code: 201—Invalid argument in Web Service exception.

getCredentialByToken

Parameters

username—Name of the user.
password—Password of the user.
expiration—Time (in milliseconds).

Return Value

Session token.

Error

Error code: 201—Invalid argument in Web Service exception.

Send documentation comments to dcnm-san-docfeedback@cisco.com

validateToken

This method returns true or false depending on the validity of the token. If the token has expired, it returns false, or else it returns true.

Parameters

token—Session Token.

Return Value

Boolean value is True if DCNM-SAN accepts the token.

Error

Error code: 201—Invalid argument in Web Service exception.

Authentication or Token

To interact with DCNM-SAN Web Services, you must obtain a token through LogonWS and attach this token to the header message of every SOAP requests. DCNM-SAN Web Services verifies user credentials using a unique token string that is administered by LogonWS. At any given time, HTTPS should be deployed to secure the communication channel. The following example displays the format of the header message:

```
<?xml version="1.0" encoding="UTF-8" ?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <SOAP-ENV:Header xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" >
    <m:Token xmlns:m="http://www.w3schools.com/transaction/">
      token string is put here
    </m:Token></SOAP-ENV:Header>
  <SOAP-ENV:Body>
    <getFabrics xmlns="http://ep.jaxws.dcbu.cisco.com/" />
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

IdentityManager

IdentityManager provides identity services and manages the user credentials that are required by Web Services. It is the token provider that administers and maintains tokens. It authenticates the user, generates tokens, and validates or expires tokens by periodically checking and clearing the cache.

San WS

San Service is an Enterprise Java Beans (EJB) component that manages SAN-related service requests and executes queries on DCNM-SAN for information. San WS checks with IdentityManager for authentication before performing the request. A valid token string indicates to San Service that the user

Send documentation comments to dcnm-san-docfeedback@cisco.com

is a DCNM-SAN user and that it must honor and execute the request. After retrieving the required information, it sends the result back to the user. SanWS logs errors in `fms_ws.log`. The service end-point interface (SEI) of SanWS defines the operations of the service, and sends them to the end users.

getFabrics

Returns the list of all open fabrics.

Return Value

An array of open fabrics.

Error

Error Code: 300— General SAN Service exception.

getFabricByIP

Returns the list of fabrics associated with the IP address of a given switch.

Parameters

`ipAddress`—IP address of the switch.

Return Value

List of all fabrics associated with the specific IP address.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getPmEntity

Returns the PM entity from the database.

Return Value

PM entity from the database.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getPmChartData

Returns the PM statistics of a specific RRD file.

Return Value

PM statistics of a specific RRD file.

Send documentation comments to dcnm-san-docfeedback@cisco.com

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getFabricByKey

Returns the list of fabrics associated with the specified key.

Parameters

key—Key of the fabric.

Return Value

List of all fabrics associated with the specified key.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getFabricBySwitchKey

Returns the list of fabrics associated with the specified seed switch key (WWN).

Parameters

swkey—Seed switch key of the fabric.

Return Value

List of all fabrics associated with the specified seed switch key.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getSwitchesByFabric

Returns the list of switches associated with the specified fabric key.

Parameters

key—Key of the fabric.

Return Value

List of all fabrics associated with the specified fabric key.

Error

Error Code: 300— General SAN Service exception.

Send documentation comments to dcnm-san-docfeedback@cisco.com

getNeighborSwitches

Returns the list of neighboring switches associated with the specified WwnKey.

Parameters

key—WwnKey object.

Return Value

List of neighboring switches associated with the specified WwnKey.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

Error Code: 302—SAN does not find objects by query key exception.

getActiveServerNodes

Returns the list of all active DCNM for SAN servers.

Parameters

key—Key of the fabric.

Return Value

List of all fabric servers that are active.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getFabricWithSnmpCredential

Returns the list of fabrics (except the fabric with opening status) with the SNMP credentials.

Parameters

key—Key of the fabric.

Return Value

List of all fabrics with their SNMP credentials.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

Send documentation comments to dcnm-san-docfeedback@cisco.com

getSwitchesByFabric

Returns the list of switches associated with the specified fabric key.

Parameters

key—Key of the fabric.

Return Value

List of all fabrics associated with the specified fabric key.

Error

Error Code: 300— General SAN Service exception.

getSwitch

Returns the list of switches on all the fabrics.

Parameters

key—Key of the fabric.

Return Value

List of all fabrics associated with the specified fabric key.

Error

Error Code: 300— General SAN Service exception.

getSwitchByKey

Returns the switch associated with the specified switch key object.

Parameters

key—Key of the fabric.

Return Value

Switch associated with the specified switch key.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getSwitchIPByName

Returns the IP address associated with the specified system name or switch name.

Send documentation comments to dcnm-san-docfeedback@cisco.com

Parameters

sysname—Name of the system or switch.

Return Value

IP address associated with the specified system name.

Error

Error Code: 300— General SAN Service exception.

Error code: 201—Invalid argument in Web Service exception.

getSwitchIPByKey

Returns the IP address of the switch associated with the specified WwnKey object.

Parameters

key—WwnKey object.

Return Value

IP address associated with the specified WwnKey object.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getNeighborSwitches

Returns the list of neighboring switches associated with the specified WwnKey.

Parameters

key—WwnKey object.

Return Value

List of neighboring switches associated with the specified WwnKey.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

Error Code: 302—SAN does not find objects by query key exception.

getVsans

Returns the list of VSANs in the fabric associated with the specified fabric key.

Parameters

key—Fabric key object.

Send documentation comments to dcnm-san-docfeedback@cisco.com

Return Value

List of VSANs in the fabric associated with the specified fabric key.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getVsan

Returns the VSAN in the fabric associated with the specified VSAN key object.

Parameters

key—VSAN key object.

Return Value

VSANs in the fabric associated with the specified VSAN key object.

Error

Error Code: 300— General SAN Service exception.

Error code: 201—Invalid argument in Web Service exception.

getIsIs

Returns the list of ISLs in the VSAN associated with the specified VSAN key.

Parameters

key—VSAN key.

Return Value

Array of ISL objects in the VSAN associated with the specified VSAN key.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

discoverFabric

This API opens the fabric. This function requires the IP address of the seed switch and SNMP credentials.

Parameters

seed—IP address of the seed switch.

user—SNMP credential.

Send documentation comments to dcnm-san-docfeedback@cisco.com

Return Value

Boolean value is True if the discovery was successful.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

Error Code: 100— Authentication failure exception.

Error Code: 101—Invalid credentials exception.

manageFabric

Returns true or false depending on manageability of the fabric.

Parameters

key—Fabric key.

Return Value

Returns true if the fabric can be identified or managed. Returns false if the fabric cannot be identified or managed.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

unManageFabric

This function unmanages a fabric.

Parameters

key—Fabric key.

Return Value

None.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

closeFabric

This function unmanages and closes a fabric.

Parameters

key—Fabric key.

Send documentation comments to dcnm-san-docfeedback@cisco.com

Return Value

None.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

purgeFabric

This function purges the specified fabric data both from the DCNM-SAN cache and database.

Parameters

key—Fabric key.

Return Value

None.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

Error Code: 302—SAN does not find objects by query key exception.

getEndpoints

Returns the list of all the end ports known to DCNM-SAN.

Return Value

An array of all the end ports.

Error

Error Code: 300— General SAN Service exception.

getEnclosures

Returns the list of all the enclosures known to DCNM-SAN.

Return Value

An array of enclosure objects.

Error

Error Code: 300— General SAN Service exception.

Send documentation comments to dcnm-san-docfeedback@cisco.com

getEndPointByKey

Returns the end port based on the switch WWN.

Parameters

key—WWN of the node.

Return Value

Returns the end port based on the switch WWN. Returns null if there are no end ports associated with the switch.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getEndPointAttachedToSw

Returns the end ports that are associated with a switch.

Parameters

key—IP address of the switch.

Return Value

Returns the end ports based on switch.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getEnclosureByName

Returns the enclosure based on the name.

Parameters

name—Name of the enclosure object.

Return Value

Returns the enclosure object.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

Send documentation comments to dcnm-san-docfeedback@cisco.com

getEnclosureByKey

Returns the enclosure based on the name.

Parameters

name—Name of the enclosure object.

Return Value

Returns the enclosure object.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getEnclosureByPwwn

Returns the enclosures that are associated with a physical WWN.

Parameters

wwn—Physical WWN of the switch.

Return Value

Returns the enclosure based on physical WWN.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

updateEnclosure

Update the enclosure with the value that is passed as parameter.

Parameters

value—Value to update the enclosure.

Return Value

None.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

updateEndpointEnclosure

Update the end port enclosure with the value that is passed as parameter.

Send documentation comments to dcnm-san-docfeedback@cisco.com

Parameters

endportKey—Value for the end port key.

enclosureKey—Value for the enclosure key.

Return Value

None.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getHosts

Returns the list of all the host enclosures known to DCNM-SAN.

Return Value

Returns the list of all the host enclosures known to DCNM-SAN.

Error

Error Code: 300— General SAN Service exception.

getHost

Returns the name of hosts in a VSAN.

Parameters

key—Name of the VSAN.

Return Value

Returns the name of the hosts in the specified VSAN.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getHostByFabric

Returns the name of hosts in a fabric.

ValidationException is displayed if any of the following situation occurs:

- If the argument passed is null.
- If the argument does not contain a valid key.

Parameters

key—Name of the fabric.

Send documentation comments to dcnm-san-docfeedback@cisco.com

Return Value

Returns the name of the hosts in the specified VSAN.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getStorages

Returns the list of all the storage device enclosures known to DCNM-SAN.

Return Value

An array of all the storage device enclosures known to DCNM-SAN.

Error

Error Code: 300— General SAN Service exception.

getStorageByFabric

Returns the name of storage device enclosures in a fabric.

Parameters

key—Name of the fabric.

Return Value

Returns the name of the storages in the specified fabric.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getHostPorts

Returns the list of all the host end ports in a fabric.

Parameters

key—Name of the fabric.

Return Value

An array of all the host ports in a fabric.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

Send documentation comments to dcnm-san-docfeedback@cisco.com

getDomainId

Returns the domain address.

Parameters

key—Wwn

vsanid—Unique identifier of the VSAN.

Return Value

Domain IP address.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getVsanIp

Returns the IP address of a VSAN.

Parameters

key—Wwn

vsanid—Unique identifier of the VSAN.

Return Value

IP address of a VSAN.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getVsanDomains

Returns all VSAN domains in a switch.

Parameters

Key—Wwnkey

Return Value

VSAN domains in a switch.

Error

Error Code: 300— General SAN Service exception.

Error code: 201—Invalid argument in Web Service exception.

Send documentation comments to dcnm-san-docfeedback@cisco.com

getlvrEnfZoneSetName

Returns the fabric IVR-enforced zone set name.

Parameters

Key—Fabric key

Return Value

Zone set name.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getlvrEnfZoneSetNumber

Returns the fabric IVR-enforced zone number.

Parameters

Key—Fabric key

Return Value

Zone number.

Error

Error Code: 300— General SAN Service exception.

Error code: 201—Invalid argument in Web Service exception.

getlvrEnfZoneSetActiveTime

Returns the fabric IVR-enforced zone set activate time.

Parameters

Key—Fabric key

Return Value

Time stamp in the long integer format.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getlvrEnfZoneSet

Returns the fabric IVR-enforced zone set.

Parameters

Send documentation comments to dcnm-san-docfeedback@cisco.com

Key—Fabric key

Return Value

List of zone objects.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getIvrActiveZonesetChecksum

Returns the IVR active zone set checksum.

Parameters

Key—Fabric key

Return Value

Checksum value.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getAliases

Returns all the aliases used by the fabric.

Parameters

Key—Fabric key

Return Value

Aliases used by the fabric.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

useFcAlias

Returns all the FC aliases used by the fabric.

Parameters

Key—Fabric key

Return Value

FC aliases used by the fabric.

Send documentation comments to dcnm-san-docfeedback@cisco.com

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getEnfZoneSet

Returns all the VSAN enforced zone sets.

Parameters

Key—Fabric key

Return Value

List of zones.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getEnfZoneSetName

Returns all the VSAN enforced zone set names.

Parameters

Key—Fabric key

Return Value

List of zone set names.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getEnfZoneSetName

Returns all the VSAN enforced zone set name.

Parameters

Key—Fabric key

Return Value

List of zone set names.

Error

Error Code: 300— General SAN Service exception.

Error code: 201—Invalid argument in Web Service exception.

Send documentation comments to dcnm-san-docfeedback@cisco.com

getFCAliases

Returns all the FC aliases for the fabric.

Parameters

Key—Fabric key

Return Value

List of aliases.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getFCAliasesByVsan

Returns all the FC aliases for the VSAN.

Parameters

Key—Fabric key

Return Value

List of aliases for the VSAN.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getCFS

Returns CFS.

Parameters

Key—Fabric key

Return Value

List of CFS features.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getCFSBySwitch

Returns CFS.

Parameters

Key—Switch key

Send documentation comments to dcnm-san-docfeedback@cisco.com

Return Value

List of CFS features.

Error

Error Code: 300— General SAN Service exception.

Error code: 201—Invalid argument in Web Service exception.

getZoneMode

Returns zone operation modes.

Parameters

Key—Fabric key

Return Value

List of zone operation modes.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getZoneModeByVsan

Returns zone operation modes for VSAN.

Parameters

Key—VSAN key

Return Value

List of zone operation modes.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getZoneAttributes

Returns zone attributes.

Parameters

Key—Fabric key

Return Value

Zone attributes.

Error

Error Code: 300— General SAN Service exception.

Send documentation comments to dcnm-san-docfeedback@cisco.com

Error Code: 201—Invalid argument in Web Service exception.

getZoneAttributesByVsan

Returns zone attributes for VSAN.

Parameters

Key—VSAN key

Return Value

Zone attributes for VSAN.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getSwitchPorts

Returns ports for the switch.

Parameters

Key—Fabric key

Return Value

List of ports for a given switch.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

isIVREnabled

Returns a boolean value depending on whether the IVR is enabled on the switch or not.

Parameters

Key—Switch key

Return Value

Boolean value.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getSwitchDateAndTime

Returns the switch time and date.

Send documentation comments to dcnm-san-docfeedback@cisco.com

Parameters

Key—Switch key

Return Value

Boolean value.

Error

Error Code: 400—SnmpException.

Zone Manager WS - SEI

activateZoneset

Activates the zone set.

Parameters

key—WwnKey

key—Name of the VSAN

Return Value

Operational status of the zone set.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

addZone

Add a new zone to the list of zones.

Parameters

key—WwnKey

key—Name of the VSAN

Return Value

Zone object.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

addZoneAlias

Adds a zone alias.

Parameters

Send documentation comments to dcnm-san-docfeedback@cisco.com

key—WwnKey

key—Name of the VSAN

Return Value

Zone object.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

addZoneMemberToZone

Adds a new zone member to the specific zone.

Parameters

key—WwnKey

key—Name of the VSAN

Return Value

ID of the zone member.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

addZoneMemberToZoneAlias

Adds a zone member to the zone alias.

Parameters

key—WwnKey

key—Name of the VSAN

Return Value

Zone member.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

createZone

Creates a new zone.

Parameters

key—WwnKey

key—Name of the VSAN

Send documentation comments to dcnm-san-docfeedback@cisco.com

Return Value

Zone object.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

createZoneAlias

Creates a zone alias.

Parameters

key—WwnKey

key—Name of the VSAN

Return Value

Zone alias object.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

createZoneMemberInZone

Creates a zone member in the specified zone.

Parameters

key—WwnKey

key—Name of the VSAN

Return Value

Member ID.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

createZoneMemberInZoneAlias

Creates a zone member in the specified zone alias.

Parameters

key—WwnKey

key—Name of the VSAN

Return Value

Member ID.

Send documentation comments to dcnm-san-docfeedback@cisco.com

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

createZoneSet

Creates a zone set.

Parameters

key—WwnKey

key—Name of the VSAN

Return Value

ID of the zone set.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

deActivateZoneset

Returns the operational status of the zone set.

Parameters

key—WwnKey

key—Name of the VSAN

Return Value

Operational status of the zone set.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getEnfZoneSet

Returns the enforced zone set.

Parameters

key—WwnKey.

key—Name of the VSAN.

Return Value

ID of the zone set.

Error

Error Code: 300—General SAN Service exception.

Send documentation comments to dcnm-san-docfeedback@cisco.com

Error Code: 201—Invalid argument in Web Service exception.

getEnfZoneSetName

Returns the name of the enforced zone set.

Parameters

key—WwnKey

key—Name of the VSAN

Return Value

ID of the zone set.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getIvrActiveZonesetChecksum

Returns the IVR active zoneset checksum.

Parameters

key—FabricKey

Return Value

Checksum value.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getIvrEnfZoneNumber

Returns the fabric IVR enforced zone number.

Parameters

key—FabricKey

Return Value

Zone number.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

Send documentation comments to dcnm-san-docfeedback@cisco.com

getlvrEnfZoneSet

Returns the fabric IVR enforced zone set ID.

Parameters

key—FabricKey

Return Value

Zone set ID.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getlvrEnfZoneSetActivateTime

Returns the fabric IVR enforced zone set activate time.

Parameters

key—FabricKey

Return Value

System time as the number of seconds elapsed since the start of the Unix epoch at 1 January 1970 00:00:00 UT.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getlvrEnfZoneSetName

Returns the fabric IVR enforced zone set name.

Parameters

key—WWNKey

Return Value

Zone ID.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getZone

Returns an array of zone IDs.

Parameters

Send documentation comments to dcnm-san-docfeedback@cisco.com

key—WwnKey

Return Value

Zone object.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getZoneAlias

Returns zone alias.

Parameters

key—WwnKey

key—VSAN Key

Return Value

Zone alias object.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getZoneAliases

Returns an array of zone aliases.

Parameters

key—WwnKey

key—VSAN Key

Return Value

List of zone aliases.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getZoneAttributes

Returns all the attributes for the zone.

Parameters

key—WwnKey

key—VSAN Key

Send documentation comments to dcnm-san-docfeedback@cisco.com

Return Value

List of zone attributes.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getZoneAttributesByVsan

Returns all the zone attributes for the VSAN.

Parameters

key—WwnKey

Return Value

List of zone attributes for the VSAN.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getZoneCapabilitiesByFabric

Returns the zone information associated with the specified fabric key.

Parameters

key—Fabric key

Return Value

ZoneCapabilities object.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getZoneCapabilitiesByVsan

Returns all zone information for the VSAN.

Parameters

key—WwnKey

Return Value

ZoneCapabilities object.

Error

Error Code: 300—General SAN Service exception.

Send documentation comments to dcnm-san-docfeedback@cisco.com

Error Code: 201—Invalid argument in Web Service exception.

getZoneMode

Returns the list of zone modes.

Parameters

key—WwnKey

Return Value

Zone information.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getZoneModeByVsan

Returns the list of zone modes for the VSAN.

Parameters

key—VSAN key

Return Value

Zone information for the VSAN.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getZoneSet

Returns the zone set.

Parameters

key—WwnKey

Return Value

Zone sets.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getZoneSets

Returns the list of zone sets.

Send documentation comments to dcnm-san-docfeedback@cisco.com

Parameters

key—WwnKey

Return Value

List of zone sets.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getZones

Returns the list of zones.

Parameters

key—WwnKey

Return Value

List of zones.

Error

Error Code: 300—General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

Statistics WS

getEndDeviceStatistics

Returns the statistics of the end device.

Parameters

key—WwnKey

Return Value

Statistics of the end device.

Error

Error Code: 201—Invalid argument in Web Service exception.

getEndDeviceStatisticsByAlias

Returns the statistics of the end devices by device alias.

Parameters

key—WwnKey

Send documentation comments to dcnm-san-docfeedback@cisco.com

Return Value

Statistics of the end devices.

Error

Error Code: 201—Invalid argument in Web Service exception.

getEthPortStatisticsByKey

Returns the statistics of the Ethernet port.

Parameters

key—WwnKey

Return Value

Statistics of the Ethernet port.

Error

Error Code: 201—Invalid argument in Web Service exception.

getEthPortStatisticsBySwitch

Returns the statistics of the Ethernet port based on a switch.

Parameters

key—WwnKey

Return Value

Statistics of the Ethernet port based on a switch.

Error

Error Code: 201—Invalid argument in Web Service exception.

getFcPortStatistics

Returns the statistics of the Fibre Channel port.

Parameters

key—WwnKey

Return Value

Statistics of the Fibre Channel port.

Error

Error Code: 201—Invalid argument in Web Service exception.

Send documentation comments to dcnm-san-docfeedback@cisco.com

getFcPortStatisticsByKey

Returns the statistics of the Fibre Channel port based on the switch WWN.

Parameters

key—WwnKey

Return Value

Statistics of the Fibre Channel port.

Error

Error Code: 201—Invalid argument in Web Service exception.

getFcPortStatisticsBySwitch

Returns the statistics of the Fibre Channel port based on a switch.

Parameters

key—WwnKey

Return Value

Port statistics of the Fibre Channel port.

Error

Error Code: 201—Invalid argument in Web Service exception.

getIPEndPointStatisticsByKey

Returns the statistics of the IPEndPoint based on a switch WWN.

Parameters

key—WwnKey

Return Value

Statistics of the IPEndPoint.

Error

Error Code: 201—Invalid argument in Web Service exception.

getIPEndPointStatisticsBySwitch

Returns the statistics of the IPEndPoint based on a switch.

Parameters

key—WwnKey

Return Value

Statistics of the IPEndPoint.

Send documentation comments to dcnm-san-docfeedback@cisco.com

Error

Error Code: 201—Invalid argument in Web Service exception.

getTCPEndPointStatisticsByKey

Returns the statistics of the TCPEndPoint based on a switch WWN.

Parameters

key—WwnKey

Return Value

Statistics of the TCPEndPoint.

Error

Error Code: 201—Invalid argument in Web Service exception.

getTCPEndPointStatisticsBySwitch

Returns the statistics of the TCPEndPoint based on a switch.

Parameters

key—WwnKey

Return Value

Statistics of the TCPEndPoint on a switch.

Error

Error Code: 201—Invalid argument in Web Service exception.

Security WS

getAaaMaxServer

Returns a value for the maximum number of server entries in a server group of the AAA configuration.

Parameters

key—WwnKey

Return Value

Maximum number of server entries in a server group of the AAA configuration.

Error

Error Code: 400—SnmpException

Send documentation comments to dcnm-san-docfeedback@cisco.com

getAaaMaxAppServer

Returns a value for the maximum number of server entries in the AAA configuration for an application type.

Parameters

key—WwnKey

Return Value

Maximum number of server entries in a server group in the AAA configuration.

Error

Error Code: 400—SnmpException

isClearAcctLogSet

Checks if the clear accounting log is set.

Parameters

key—WwnKey

Return Value

Checks if the clear accounting log is set.

Error

Error Code: 400—SnmpException

isMSCHAPRequired

Returns a boolean value to indicate if MSCHAP authentication mechanism is required for authenticating a user.

Parameters

key—WwnKey

Return Value

Boolean value to indicate if MSCHAP authentication mechanism is required for authenticating a user.

Error

Error Code: 400—SnmpException

getAaaSetup

Returns the AAA configuration.

Parameters

key—WwnKey

Send documentation comments to dcnm-san-docfeedback@cisco.com

Return Value

AAA configuration.

Error

Error Code: 400—SnmpException

getAaaAppServerGroups

Returns the AAA server groups for a specific application type.

Parameters

key—WwnKey

Return Value

AAA server groups for a specific application type.

Error

Error Code: 400—SnmpException

getAaaServerGroups

Returns all the AAA server group entries (a server group consists of a number of AAA servers implementing the same AAA protocol).

Parameters

key—WwnKey

Return Value

AAA server group entries.

Error

Error Code: 400—SnmpException

getSnmpUsers

Returns information about SNMP users.

Parameters

key—WwnKey

Return Value

Information about SNMP users.

Error

Error Code: 400—SnmpException

Send documentation comments to dcnm-san-docfeedback@cisco.com

getIPACLProfiles

Returns all the IP ACL profiles.

Parameters

key—WwnKey

Return Value

All the IP ACL profiles.

Error

Error Code: 400—SnmpException

getSSHConfig

Returns the SSH configuration information.

Parameters

key—WwnKey

Return Value

SSH configuration information.

Error

Error Code: 400—SnmpException

getSSHEnabled

Returns a boolean value to indicate if the SSH is enabled.

Parameters

key—WwnKey

Return Value

Boolean value to indicate if the SSH is enabled.

Error

Error Code: 400—SnmpException

isTelnetEnabled

Returns a boolean value to indicate if Telnet is enabled.

Parameters

key—WwnKey

Return Value

Boolean value to indicate if Telnet is enabled.

Error

Send documentation comments to dcnm-san-docfeedback@cisco.com

Error Code: 400—SnmpException.

getPkiRsaKeys

Returns the PKI RSA key pair entries.

Parameters

key—WwnKey

Return Value

PKI RSA key pair entries.

Error

Error Code: 400—SnmpException.

getPkiTrustPointNames

Returns a list of PKI trustpoint names.

Parameters

key—WwnKey

Return Value

A list of PKI trustpoint names.

Error

Error Code: 400—SnmpException.

getPkiTrustPointNames

Returns a list of PKI trustpoint names.

Parameters

key—WwnKey

Return Value

A list of PKI trustpoint names.

Error

Error Code: 400—SnmpException.

getPkiCert

Returns certificate information of a PKI trustpoint.

Parameters

key—WwnKey

Send documentation comments to dcnm-san-docfeedback@cisco.com

Return Value

Certificate information of a PKI trustpoint.

Error

Error Code: 400—SnmpException.

getPkiAction

Returns the PKI support action of a trustpoint.

Parameters

key—WwnKey

Return Value

PKI support action of a trustpoint.

Error

Error Code: 400—SnmpException.

getPkiTrustPoint

Returns the PKI trust point information, which consists of the key pair name, a list of revocation methods, and the contact HTTP URL of the external OCSP server for certificate revocation.

Parameters

key—WwnKey

Return Value

PKI trust point information.

Error

Error Code: 400—SnmpException.

getFeatureControls

Returns all of the feature control names and their respective statuses.

Parameters

key—WwnKey

Return Value

Feature control names and statuses.

Error

Error Code: 400—SnmpException.

Send documentation comments to dcnm-san-docfeedback@cisco.com

getIkeFailRecoveryCfg

Returns the IKE configuration.

Parameters

key—WwnKey

Return Value

IKE configuration.

Error

Error Code: 400—SnmpException

getIkeCfgPolicies

Returns the policy that is used to set up the IKE tunnels.

Parameters

key—WwnKey

Return Value

Policy that is used to set up the IKE tunnels.

Error

Error Code: 400—SnmpException.

getIkeCfgInitiators

Returns the IKE initiator configuration information.

Parameters

key—WwnKey

Return Value

IKE initiator configuration information.

Error

Error Code: 400—SnmpException.

getIkeTunnels

Returns the IKE tunnels information.

Parameters

key—WwnKey

Return Value

IKE tunnels information.

Send documentation comments to dcnm-san-docfeedback@cisco.com

Error

Error Code: 400—SnmpException.

getIPsecGlobalCfg

Returns the IPsec tunnel configuration information.

Parameters

key—WwnKey

Return Value

IPsec tunnel configuration information.

Error

Error Code: 400—SnmpException.

getIPsecXformSets

Returns the IPsec transform set information.

Parameters

key—WwnKey

Return Value

IPsec transform set information.

Error

Error Code: 400—SnmpException.

getIPsecCryptoMaps

Returns the IPsec cryptomap set.

Parameters

key—WwnKey

Return Value

IPsec cryptomap set.

Error

Error Code: 400—SnmpException.

getIfsFromCryptoMap

Returns the interface name from the IPsec cryptomap.

Parameters

key—WwnKey

Send documentation comments to dcnm-san-docfeedback@cisco.com

Return Value

Interface name from the IPsec cryptomap.

Error

Error Code: 400—SnmpException.

getIPsecTunnels

Returns the information about IPsec tunnels.

Parameters

key—WwnKey

Return Value

Information about IPsec tunnels.

Error

Error Code: 400—SnmpException.

isFipsModeEnabled

Returns information about the FIPS mode.

Parameters

key—WwnKey

Return Value

Information about FIPS mode.

Error

Error Code: 400—SnmpException.

Protocol WS

getNtpPeers

Returns NTP peer information.

Parameters

key—WwnKey

Return Value

NTP peer information.

Error

Error Code: 400—SnmpException

Send documentation comments to dcnm-san-docfeedback@cisco.com

getNtpInfo

Returns NTP system information.

Parameters

key—WwnKey

Return Value

NTP system information.

Error

Error Code: 400—SnmpException

getFspfConfig

Returns the FSPF protocol configuration.

Parameters

key—WwnKey

Return Value

Configuration settings of the FSPF protocol.

Error

Error Code: 400—SnmpException

queryInterfaceFspfConfig

Returns the FSPF configuration on the interface pertaining to the specified VSAN.

Parameters

key—WwnKey

vsanid—Unique identifier of the VSAN

Return Value

FSPF configuration settings on the interface of a specified VSAN.

Error

Error Code: 400—SnmpException

getFcipProfiles

Returns FCIP profiles.

Parameters

Send documentation comments to dcnm-san-docfeedback@cisco.com

Key—Fabric key

Return Value

List of FCIP profiles.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getFcipProfilesBySwitch

Returns FCIP profiles based on a switch.

Parameters

Key—Switch key

Return Value

List of FCIP profiles.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getFcipTunnels

Returns FCIP tunnels.

Parameters

Key—Fabric key

Return Value

List of FCIP tunnels.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getFcipTunnelsBySwitch

Returns FCIP tunnels based on a switch.

Parameters

Key—Switch key

Return Value

List of FCIP tunnels.

Error

Send documentation comments to dcnm-san-docfeedback@cisco.com

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getFcipTunnelByLinkIndex

Returns FCIP tunnels based on a switch.

Parameters

Key—Switch key

Return Value

List of FCIP tunnels.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getFcipTunnelByLinkIfIndex

Returns FCIP tunnels based on a switch.

Parameters

Key—Switch key

Return Value

List of FCIP tunnels.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getFcipTunnelErrors

Returns FCIP tunnels errors.

Parameters

Key—Fabric key

Return Value

List of FCIP tunnel errors.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

Send documentation comments to dcnm-san-docfeedback@cisco.com

getFcipTunnelErrorsBySwitch

Returns FCIP tunnels errors based on a switch.

Parameters

Key—Switch key

Return Value

List of FCIP tunnels errors.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getIpSettingsBySwitch

Returns IP settings from the switch.

Parameters

Key—Switch key

Return Value

IP settings from the switch.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getIpSettings

Returns IP settings from the switch and port.

Parameters

Key—Port key

Return Value

IP settings from the switch and port.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getTcpSettingsBySwitch

Returns TCP settings from the switch.

Parameters

Key—Switch key

Send documentation comments to dcnm-san-docfeedback@cisco.com

Return Value

TCP settings from the switch.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

getTcpSettings

Returns TCP settings from the switch.

Parameters

Key—Switch key

Return Value

TCP settings from the switch.

Error

Error Code: 300— General SAN Service exception.

Error Code: 201—Invalid argument in Web Service exception.

Cluster WS - SEI

Service end point interface (SEI) of Cluster WS defines the operations of the service. These methods are published to the end users.

getSwitchesByFabricKey

Returns all the switches related to a fabric key.

Parameters

key—Name of the fabric.

Return Value

All the switches associated with the fabric.

Error

Error Code: 400—SnmpException

getServerIpByFabricKey

Returns the managing server IP address from a fabric key.

Parameters

key—Name of the fabric.

Send documentation comments to dcnm-san-docfeedback@cisco.com

Return Value

IP address of the server.

Error

Error Code: 400—SnmpException

getServerIpBySwitchKey

Returns the managing server IP address from a switch key.

Parameters

key—Name of the switch.

Return Value

IP address of the server.

Error

Error Code: 400—SnmpException

getFabricsByServerIp

Returns name of the fabric by server IP address.

Parameters

key—IP address

Return Value

Name of the fabric.

Error

Error Code: 400—SnmpException

getAllServers

Returns all the servers in this federation.

Parameters

key—IP address

Return Value

All the servers in the federation.

Error

Error Code: 400—SnmpException

getFabricByEnclosureKey

Returns the fabric key from an enclosure key.

Parameters

Send documentation comments to dcnm-san-docfeedback@cisco.com

key—Name of the enclosure.

Return Value

Name of the fabric.

Error

Error Code: 400—SnmpException

getServerIpByEnclosureKey

Returns the server IP address from an enclosure key.

Parameters

key—Name of the fabric.

Return Value

IP address of the server.

Error

Error Code: 400—SnmpException

getServerIpByVsanKey

Returns the server IP address from a VSAN key.

Parameters

key—Name of the VSAN

Return Value

IP address of the server.

Error

Error Code: 400—SnmpException

Event WS - SEI

Service end point interface (SEI) of Event WS defines the operations of the service. These methods are published to the end users.

isCallHomeEnabled

Returns a boolean value depending upon the activation of the CallHome feature.

Parameters

key—WwnKey

Return Value

Boolean value

Send documentation comments to dcnm-san-docfeedback@cisco.com

Error

Error Code: 400—SnmpException

getCallHomeDestProfile

Returns the CallHome destination profile.

Parameters

key—WwnKey

Return Value**Error**

Error Code: 400—SnmpException

getCallHomeSysInfo

Returns system information about the CallHome feature.

Parameters

key—WwnKey

Return Value

System information about the CallHome feature.

Error

Error Code: 400—SnmpException

getEmailMaxEntries

Returns the maximum number of e-mail address entries for the CallHome feature.

Parameters

key—WwnKey

Return Value

Number of e-mail address entries for the CallHome feature

Error

Error Code: 400—SnmpException

getEmailSetup

Returns the e-mail setup details of the CallHome feature.

Parameters

key—WwnKey

Send documentation comments to dcnm-san-docfeedback@cisco.com

Return Value

E-mail setup details of CallHome feature.

Error

Error Code: 400—SnmpException

getSyslogServers

Returns the list of syslog servers.

Parameters

key—WwnKey

Return Value

List of syslog servers.

Error

Error Code: 400—SnmpException

getSyslogMessageControl

Returns a list of syslog message configuration.

Parameters

key—WwnKey

Return Value

List of syslog message configuration.

Error

Error Code: 400—SnmpException

getSyslogLoggingCfg

Returns syslog logging configuration.

Parameters

key—WwnKey

Return Value

Configuration information on syslog credentials.

Error

Error Code: 400—SnmpException

Send documentation comments to dcnm-san-docfeedback@cisco.com

Inventory WS - SEI

Service end point interface (SEI) of Inventory WS defines the service end point interface for Inventory Web Service. These methods are published to the end users.

getPowerSuppliesBySwitchWwnKey

Returns name of the power supplies by switch.

Parameters

key—WwnKey

Return Value

List of power supply names.

Error

Error Code: 300 or 201—SAN service error or Invalid Argument

getPowerSuppliesBySwitchSnKey

Returns name of the power supplies by switch.

Parameters

key—swKey

Return Value

List of power supply names.

Error

Error Code: 300 or 201—SAN service error or Invalid Argument

getPowerSuppliesBySwitchIP

Returns name of the power supplies by switch IP address.

Parameters

key—swKey

Return Value

List of power supply names.

Error

Error Code: 300 or 201—SAN service error or Invalid Argument

getCardsBySwitchWwnKey

Returns name of the cards from a switch key.

Parameters

Send documentation comments to dcnm-san-docfeedback@cisco.com

key—swKey

Return Value

List of card names.

Error

Error Code: 300 or 201—SAN service error or Invalid Argument

getCardsBySwitchSnkey

Returns name of the cards from a switch key.

Parameters

key—swKey

Return Value

List of card names.

Error

Error Code: 300 or 201—SAN service error or Invalid Argument

getCardsBySwitchIP

Returns name of the cards by switch IP address.

Parameters

key—swKey

Return Value

List of card names.

Error

Error Code: 300 or 201—SAN service error or Invalid Argument

getFansBySwitchWwnKey

Returns name of the fans by switch key.

Parameters

key—swKey

Return Value

List of fan names.

Error

Error Code: 300 or 201—SAN service error or Invalid Argument

Send documentation comments to dcnm-san-docfeedback@cisco.com

getFansBySwitchSnKey

Returns name of the fans by switch key.

Parameters

key—swKey

Return Value

List of fan names.

Error

Error Code: 300 or 201—SAN service error or Invalid Argument

getFansBySwitchIP

Returns name of the fans by switch IP address.

Parameters

key—swKey

Return Value

List of fan names.

Error

Error Code: 300 or 201—SAN service error or Invalid Argument

getChassisBySwitchWwnKey

Returns name of the chassis by switch key.

Parameters

key—swKey

Return Value

List of chassis names.

Error

Error Code: 300 or 201—SAN service error or Invalid Argument

getChassisBySwitchSnKey

Returns name of the chassis by switch key.

Parameters

key—swKey

Return Value

List of chassis names.

Error

Send documentation comments to dcnm-san-docfeedback@cisco.com

Error Code: 300 or 201—SAN service error or Invalid Argument

getChassisBySwitchIP

Returns name of the chassis by switch IP address.

Parameters

key—swKey

Return Value

List of chassis names.

Error

Error Code: 300 or 201—SAN service error or Invalid Argument

getAllHbas

Returns name of the hosts by host IP address.

Parameters

key—hba WWN

Return Value

List of HBAs.

Error

Error Code: 300 or 201—SAN service error or Invalid Argument

getHbaByWwn

Returns name of the hosts by host IP address.

Parameters

key—hba WWN

Return Value

List of HBAs.

Error

Error Code: 300 or 201—SAN service error or Invalid Argument

getLicensesBySwitchWwnKey

Returns name of the licenses used by the switch.

Parameters

key—swKey

Send documentation comments to dcnm-san-docfeedback@cisco.com

Return Value

List of licenses.

Error

Error Code: 300 or 201—SAN service error or Invalid Argument

getLicensesBySwitchIP

Returns name of the licenses used by the switch.

Parameters

key—swKey

Return Value

List of licenses.

Error

Error Code: 300 or 201—SAN service error or Invalid Argument

getLicenseFlags

Returns name of the licenses used by the switch.

Parameters

key—swKey

Return Value

List of licenses.

Error

Error Code: 300 or 201—SAN service error or Invalid Argument

getCardByPhysicalIndex

Returns the physical and switch index.

Parameters

key—swKey

Return Value

List of indexes.

Error

Error Code: 300 or 201—SAN service error or Invalid Argument

[Send documentation comments to dcnm-san-docfeedback@cisco.com](mailto:dcnm-san-docfeedback@cisco.com)

Error Codes

Error Code	Description
100	Authentication failure
101	Invalid credential
102	Invalid privilege
103	Invalid token
200	Web Service error
201	Invalid argument in Web Service function
202	Unreachable Web Service server
300	SAN service error
301	Invalid query key
400	SNMP error
201	Invalid argument



Note

DCNM-SAN Web Services supports server federation. Service requests to SanWS, SecurityWS, ProtocolWS, EventWS, and InventoryWS automatically dispatches the calls to the correct server in the federation. If you are using server federation, the following methods do not automatically mediate to the corresponding server in the federation:

SanWS:

```
getEnclosures()
getEndpoints()
getFabricByIP()
getHosts()
getStorages()
getSwitchIPByName()
getSwitches()
```

InventoryWS:

```
getAllHbas()
getLicenseFlags()
```

In those specific instances, you might need to rely on ClusterWS to determine the server that you need to send the request.

Send documentation comments to dcnm-san-docfeedback@cisco.com