# Java SDK for HP OneView

The java SDK for HP OneView enables Java developers to easily build integration and scalable solutions with HP OneView. User can get started with interacting with OneView in minutes using Maven or by downloading a single zip file.

This version of SDK is built against HP OneView v1.20.

# Features

This version of SDK covers following features:

## REST API

The most commonly used REST APIs are covered in this version of SDK. The resources like Network, Network Set, Logical Interconnect Group, Enclosure Group, Enclosure, Storage System, Storage Pool, Storage Volume Template, Storage Volumes, Server Profiles and firmware are part of SDK. Also, get calls for Logical Interconnect, Uplink Sets, and Server Hardware are included as well.

Please refer Appendix section to get the complete of lists APIs and non supported APIs.

## Listening on SCMB messages and metrics Data

SDK has APIs to listen on SCMB and MSMB messages and notify the consumers.

## Sample programs

To quickly get started, SDK is bundled with sample programs. User can leverage the most of code in sample programs to start using it. SDK includes sample programs for resources like Network, Network Set, Logical Interconnect Group, Enclosure Group, Enclosure, Storage System, Storage Pool, Storage Volume Template, Storage Volumes, Server Profiles, firmware, SCMB and MSMB modules.

# Release Name:

ov-sdk-app\_v0.2\_2015-07-13.zip. It is packaged as maven project and delivered.

# Software Requirement:

Eclipse

Jdk 1.7 or above

Openssl

# Deployment Configuration:

Steps to generate keystore and truststore

1. Fetch CA certificate of server

openssl s\_client -host <<IP\_Address>> -port <<PortNumber>>

Where port number is 443

Example:

openssl s\_client –host 15.199.201.9 –port 443

Save Server Certificate from -----BEGIN CERTIFICATE----- to -----END CERTIFICATE----- as default-server.crt

1. Added Server Cert as follows:

keytool -import -v -trustcacerts -alias myservercert -file <<servercert>> -keystore <<TrustStorePath>>

Example: keytool -import -v -trustcacerts -alias myservercert –file default-server.crt -keystore TrustStore

1. Added Client Cert as Follows:

openssl pkcs12 -export -name myclientcert -in default-client.crt -inkey default-client.key -out myclient.p12

1. Generate Key Store for client

keytool -importkeystore -destkeystore <<KeyStorePath>> -srckeystore <<SrcKeyStorePath .P12 file>> -srcstoretype pkcs12 -alias myclientcert

Example: keytool -importkeystore –destkeystore KeyStore ­– srckeystore myclient.p12 -srcstoretype pkcs12 -alias myclientcert

How to use

1. Import SDK maven project into eclipse IDE
2. Place the Keystore and TrustStore generated under src/main/resource folder
3. Update HPOneView Credentials located at com.hp.ov.sdk.rest.login.SampleRestParams object
4. From src/main/test folder, run any of the test cases.

# Compatibility

This version of SDK works with OneView v1.20. If user prefers to try with 1.1 or 2.0 rev, it is required to update the DTOs before start using it.

Appendix

## List of APIs Implemented and non yet implemented

|  |  |  |
| --- | --- | --- |
| Module Name | API | State |
| ConnectionTemplate | getConnectionTemplate | Implemented |
|  | updateConnectionTemplate | Implemented |
|  | getConnectionTemplateByName | Implemented |
|  | getAllConnectionTemplates | NotImplemented |
|  | getDefaultConnectionTemplateForConnectionTemplate | NotImplemented |
|  |  |  |
| Networks | createNetwork | Implemented |
|  | createNetworkInBulk | Implemented |
|  | deleteNetwork | Implemented |
|  | getNetwork | Implemented |
|  | getAllNetworks | Implemented |
|  | getNetworkByName | Implemented |
|  | updateNetwork | Implemented |
|  |  |  |
| FcNetwork | getFcNetwork | Implemented |
|  | getAllFcNetworks | Implemented |
|  | getFcNetworkByFilter | Implemented |
|  | getFcNetworkByName | Implemented |
|  | createFcNetwork | Implemented |
|  | updateFcNetwork | Implemented |
|  | deleteFcNetwork | Implemented |
|  |  |  |
| LIG | getLogicalInterconnectGroup | Implemented |
|  | getAllLogicalInterconnectGroups | Implemented |
|  | getLogicalInterconnectGroupByName | Implemented |
|  | createLogicalInterconnectGroup | Implemented |
|  | updateLogicalInterconnectGroup | Implemented |
|  | deleteLogicalInterconnectGroup | Implemented |
|  | get defaultSettings | Not Implemented |
|  | get interconnect settings | Not Implemented |
|  |  |  |
| EnclosureGroups | getEnclosureGroup | Implemented |
|  | getAllEnclosureGroups | Implemented |
|  | getEnclosureGroupByName | Implemented |
|  | createEnclosureGroup | Implemented |
|  | updateEnclosureGroup | Implemented |
|  | deleteEnclosureGroup | Implemented |
|  | get configuration script | Not Implemented |
|  | put configuration script | Not Implemented |
|  |  |  |
| Enclosure | getEnclosure | Implemented |
|  | getAllEnclosures | Implemented |
|  | getEnclosureByName | Implemented |
|  | createEnclosure | Implemented |
|  | updateEnclosure | Implemented |
|  | deleteEnclosure | Implemented |
|  | get activeOaSsoUrl | Not Implemented |
|  | put compliance | Not Implemented |
|  | put configuration | Not Implemented |
|  | put enclosureFwBaseline | Not Implemented |
|  | get environmentalConfiguration | Not Implemented |
|  | put environmentalConfiguration | Not Implemented |
|  | put refreshState | Not Implemented |
|  | get Script | Not Implemented |
|  | put Script | Not Implemented |
|  | get standbyOaSsoUrl | Not Implemented |
|  | get utilization | Not Implemented |
|  |  |  |
| Storage Systems | getStorageSystem | Implemented |
|  | getStoragePoolsForStorageSystem | Implemented |
|  | getAllManagedPortsForStorageSystem | Implemented |
|  | getManagedPortsForStorageSystem | Implemented |
|  | getAllStorageSystems | Implemented |
|  | getStorageSystemByName | Implemented |
|  | createStorageSystem | Implemented |
|  | updateStorageSystem | Implemented |
|  | deleteStorageSystem | Implemented |
|  |  |  |
| StoragePool | getStoragePool | Implemented |
|  | getAllStoragePools | Implemented |
|  | getStoragePoolByName | Implemented |
|  | createStoragePool | Implemented |
|  | updateStoragePool | Implemented |
|  | deleteStoragePool | Implemented |
|  |  |  |
| StorageVolumeTemplate | getStorageVolumeTemplate | Implemented |
|  | getAllStorageVolumeTemplates | Implemented |
|  | getStorageVolumeTemplateByName | Implemented |
|  | createStorageVolumeTemplate | Implemented |
|  | updateStorageVolumeTemplate | Implemented |
|  | deleteStorageVolumeTemplate | Implemented |
|  | getConnectableVolumeTemplates | NotImplemented |
|  |  |  |
| StorageVolumes | getStorageVolume | Implemented |
|  | getAllStorageVolumes | Implemented |
|  | getStorageVolumeByName | Implemented |
|  | createStorageVolume | Implemented |
|  | updateStorageVolume | Implemented |
|  | deleteStorageVolume | Implemented |
|  | getAttachableVolumes | NotImplemented |
|  |  |  |
| Switches | getAllSwitches | NotImplemented |
|  | createSwitch | NotImplemented |
|  | getSwitch | NotImplemented |
|  | refreshSwitch | NotImplemented |
|  | updateSwitch | NotImplemented |
|  | deleteSwitch | NotImplemented |
|  | getSwitchEnvironmentConfiguration | NotImplemented |
|  |  |  |
|  |  |  |
| ServerProfile | getServerProfile | Implemented |
|  | getAllServerProfile | Implemented |
|  | getServerProfileByName | Implemented |
|  | getAvailableNetworksForServerProfile | Implemented |
|  | getAvailableServersForServerProfile | Implemented |
|  | getProfilePortsForServerProfile | Implemented |
|  | createServerProfile | Implemented |
|  | updateServerProfile | Implemented |
|  | deleteServerProfile | Implemented |
|  | deleteServerProfileByFilter | Implemented |
|  | copyServerProfile | Implemented |
|  | getAvailableStorageSystemForServerProfile | NotImplemented |
|  | getAvailableStorageSystemsForServerProfile | NotImplemented |
|  | getAvailableTargetsForServerProfile | NotImplemented |
|  | getMessagesForServerProfile | NotImplemented |
|  |  |  |
| Firmware | getFirmwareDriver | Implemented |
|  | getAllFirmwareDrivers | Implemented |
|  | getFirmwareDriverByName | Implemented |
|  | deleteFirmwareDriver | NotImplemented |
|  |  |  |
| InterconnectType | getInterconnectType | Implemented |
|  | getAllInterconnectType | Implemented |
|  | getInterconnectTypeByName | Implemented |
|  |  |  |
| LogicalInterconnects | getLogicalInterconnectByName | Implemented |
|  | getLogicalInterconnect | Implemented |
|  | getAllLogicalInterconnects | Implemented |
|  | updateLogicalInterconnectSnmpConfigurationById | Implemented |
|  | updateLogicalInterconnectComplianceById | Implemented |
|  | updateLogicalInterconnectFirmwareById | Implemented |
|  | getLogicalInterconnectFirmwareById | NotImplemented |
|  | getLogicalInterconnectForwardingInformationBase | NotImplemented |
|  | createLogicalInterconnectForwardingInformationBase | NotImplemented |
|  | getLogicalInterconnectForwardingInformationBaseDump | NotImplemented |
|  | getLogicalInterconnectSnmpConfigurationById | NotImplemented |
|  | createLogicalInterconnectSupportDump | NotImplemented |
|  | getLogicalInterconnectUnassignedUplinkPortsForPortMonitor | NotImplemented |
|  | updateLogicalInterconnectConfiguration | NotImplemented |
|  | getLogicalInterconnectPortMonitorConfiguration | NotImplemented |
|  | updateLogicalInterconnectPortMonitorConfiguration | NotImplemented |
|  | getLogicalInterconnectTelementaryConfiguration | NotImplemented |
|  | updateLogicalInterconnectTelementaryConfiguration | NotImplemented |
|  |  |  |
| UplinkSets | getUplinkSet | Implemented |
|  | getAllUplinkSet | Implemented |
|  | deleteUplinkSet | Implemented |
|  | updateUplinkSet | Implemented |
|  | createUplinkSet | NotImplemented |
|  |  |  |
| ServerHardware | getServerHardware | Implemented |
|  | getAllServerHardwares | Implemented |
|  | getServerHardwareWithNoProfile | Implemented |
|  | getServerHardwareByName | Implemented |
|  | updatePowerServer | Implemented |
|  | getPowerState | Implemented |
|  | addServerHardware | NotImplemented |
|  | getBiosForServerHardware | NotImplemented |
|  | getEnvironmentConfigurationForServerHardware | NotImplemented |
|  | updateEnvironmentConfigurationForServerHardware | NotImplemented |
|  | getIloSsoUrlForServerHardware | NotImplemented |
|  | getJavaRemoteConsoleUrlForServerHardware | NotImplemented |
|  | updateMpFirmwareVersionForServerHardware | NotImplemented |
|  | updateRefreshStateForServerHardware | NotImplemented |
|  | getRemoteConsoleUrlForServerHardware | NotImplemented |
|  | getUtilizationForServerHardware | NotImplemented |