UCS-HCL High Level Design and API

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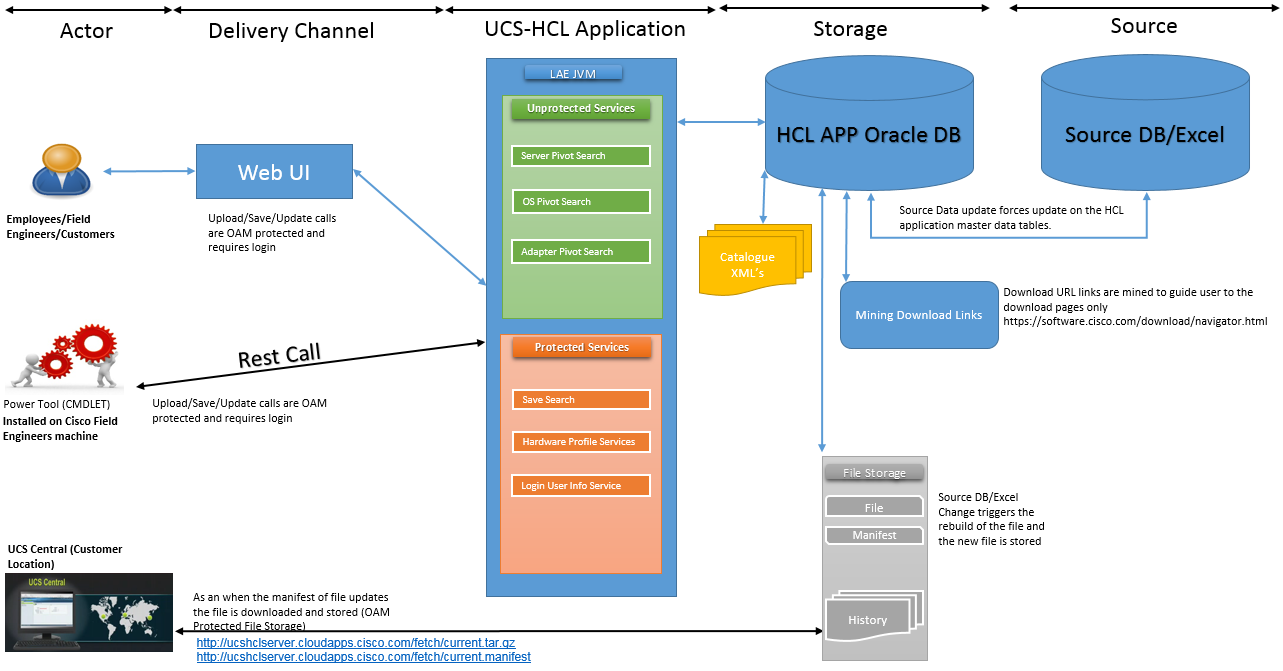
[Central Fetch File Service 22](#_Toc458516784)

# 

# Document Control

|  |  |  |  |
| --- | --- | --- | --- |
| Date | **Author** | **Version** | Details Of Change |
| 07/27/16 | Kumar (kumsriva) | Draft | Initial Draft with Request-Response |
| 08/01/16 | Sharat(sbhatipr) | Draft | Review comments |
| 08/08/16 | Kumar(kumsriva) | Draft | Added design to the document |
| 08/09/16 | Sharat(sbhatipr) | 1.0 | Reviewed |
|  |  |  |  |

# High Level Design



# Base application URL’s of different environments

|  |  |
| --- | --- |
| Environment | URL |
| Dev | <http://ucshcltool-dev.cloudapps.cisco.com/public/> |
| Stage | <http://ucshcltool-stage.cloudapps.cisco.com/public/> |
| Production | <http://ucshcltool.cloudapps.cisco.com/public/> |

Note: If you want to see the latest API use DEV at this time.

# API

## Server Type

Description: Get all server types

Method: POST

|  |  |  |
| --- | --- | --- |
| SEARCH | URL | FORM DATA |
| Server | [http://ucshcltool-dev.cloudapps.cisco.com/public/rest/server/loadServerTypes](http://tools.cisco.com/wsrp/pwc014/public/rest/server/loadServerTypes) |  |
| OS Vendor | [http://ucshcltool-dev.cloudapps.cisco.com/public /rest/osvendor/loadServerTypes](http://tools.cisco.com/wsrp/pwc/014/public/rest/osvendor/loadServerTypes) | treeIdOsVersion (Comma Separated T\_ID) |
| Adapter | [http://ucshcltool-dev.cloudapps.cisco.com/public/rest/controller/loadServerTypes](http://tools.cisco.com/wsrp/pwc014/public/rest/controller/loadServerTypes) | treeIdAdapterModel(Comma Separated T\_ID) |

|  |
| --- |
| [  {  "T\_ID": 1,  "ID": 0,  "RELEASE": "B-Series",  "TYPE": "B",  "MANAGED": "UCSM "  },  {  "T\_ID": 2,  "ID": 0,  "RELEASE": "C-Series",  "TYPE": "C",  "MANAGED": "UCSM "  },  {  "T\_ID": 4,  "ID": 1,  "RELEASE": "C-Series",  "TYPE": "C",  "MANAGED": "Standalone"  },  {  "T\_ID": 3,  "ID": 2,  "RELEASE": "M-Series",  "TYPE": "M",  "MANAGED": "UCSM "  }  ] |

Sample response:

Sample description:

|  |  |
| --- | --- |
| Field Name | Description |
| T\_ID: | ID in Tree Table |
| ID: | ID m\_release table |
| RELEASE: | Release Type |
| TYPE: | Server Type |
| MANAGED: | Management Type |

## Server Model

Description: Get all server models

Method: POST

|  |  |  |
| --- | --- | --- |
| SEARCH | URL | FORM DATA |
| Server | [http://ucshcltool-dev.cloudapps.cisco.com/public/rest/server/loadServerModels](http://tools.cisco.com/wsrp/pwc014/public/rest/server/loadServerModels) | treeIdRelease (Long T\_ID) |
| OS Vendor | [http://ucshcltool-dev.cloudapps.cisco.com/public/rest/osvendor/loadServerModels](http://tools.cisco.com/wsrp/pwc014/public/rest/osvendor/loadServerModels) | treeIdRelease(Comma Separated T\_ID) |
| Adapter | [http://ucshcltool-dev.cloudapps.cisco.com/public/rest/controller/loadServerModels](http://tools.cisco.com/wsrp/pwc014/public/rest/controller/loadServerModels) | treeIdRelease(Comma Separated T\_ID) |

|  |
| --- |
| [  {  "T\_ID": "34,35",  "ID": "33,47",  "SERVER\_MODEL": "Cisco UCS C22 M3L"  },  {  "T\_ID": "42",  "ID": "53",  "SERVER\_MODEL": "Cisco UCS C220 M4L"  }, …  } |

Sample Response:

Sample Description:

|  |  |
| --- | --- |
| Field Name | Description |
| T\_ID: | ID in Tree Table |
| ID: | ID m\_release table |
| Server Model: | Server Model |

## Processors

Description: Get all Processors

Method: Post

|  |  |  |
| --- | --- | --- |
| SEARCH | URL | FORM DATA |
| Server | [http://ucshcltool-dev.cloudapps.cisco.com/public/rest/server/loadProcessors](http://tools.cisco.com/wsrp/pwc014/public/rest/server/loadOsVendors) | treeIdServerModel  (Comma Separated T\_ID) |
| OS Vendor | [http://ucshcltool-dev.cloudapps.cisco.com/public/rest/osvendor/loadOsProcessors](http://tools.cisco.com/wsrp/pwc014/public/rest/osvendor/loadOsProcessors) | treeIdServerModel  (Comma Separated T\_ID) |
| Adapter | <http://tools.cisco.com/wrsp/pwc014/public/rest/controller/loadOsProcessors> | treeIdServerModel  (Comma Separated T\_ID) |

Sample Response:

|  |
| --- |
| [  {  "T\_ID": 99,  "ID": 1,  "PROCESSOR": "Intel Xeon 5600 Series processors v1"  },  …  ] |

Sample Description:

|  |  |
| --- | --- |
| Field Name | Description |
| T\_ID: | ID in Tree Table |
| ID: | ID m\_processor table |
| PROCESSOR: | Processor Name |

## OS Vendors

Description: Get all OS vendors

Method: Post

|  |  |  |
| --- | --- | --- |
| SEARCH | URL | FORM DATA |
| Server | [http://ucshcltool-dev.cloudapps.cisco.com/public/rest/server/loadOsVendors](http://tools.cisco.com/wsrp/pwc014/public/rest/server/loadOsVendors) | treeIdProcessor  (Comma Separated T\_ID) |
| OS Vendor | [http://ucshcltool-dev.cloudapps.cisco.com/public/rest/osvendor/loadOsVendors](http://tools.cisco.com/wsrp/pwc014/public/rest/osvendor/loadOsVendors) |  |
| Adapter | <http://tools.cisco.com/wrsp/pwc014/public/rest/controller/loadOsVendors> | treeIdProcessor  (Comma Separated T\_ID) |

Sample Response:

|  |
| --- |
| [  {  "T\_ID": "552",  "ID": "4",  "OSVENDOR": "Red Hat"  },  {  "T\_ID": "554",  "ID": "7",  "OSVENDOR": "Ubuntu"  },  {  "T\_ID": "551",  "ID": "3",  "OSVENDOR": "Oracle"  }, …  ] |

Sample Description:

|  |  |
| --- | --- |
| Field Name | Description |
| T\_ID: | ID in Tree Table |
| ID: | ID m\_osvendors table |
| OSVENDOR: | OS Vendor Name |

## OS Versions

Description: Get all OS versions

Method: Post

|  |  |  |
| --- | --- | --- |
| SEARCH | URL | FORM DATA |
| Server | [http://ucshcltool-dev.cloudapps.cisco.com/public/rest/server/loadOsVersions](http://tools.cisco.com/wsrp/pwc014/public/rest/server/loadOsVersions) | treeIdOsVendor  (Comma Separated T\_ID) |
| OS Vendor | [http://ucshcltool-dev.cloudapps.cisco.com/public/rest/osvendor/loadOsVersions](http://tools.cisco.com/wsrp/pwc014/public/rest/osvendor/loadOsVersions) | treeIdOsVendor  (Comma Separated T\_ID) |
| Adapter | [http://ucshcltool-dev.cloudapps.cisco.com/public/rest/controller/loadOsVersions](http://tools.cisco.com/wsrp/pwc014/public/rest/controller/loadOsVersions) | treeIdOsVendor  (Comma Separated T\_ID) |

Sample Response:

|  |
| --- |
| [  {  "T\_ID": "41,42",  "ID": "72,462",  "OSVERSION": "Windows Server 2012"  },  {  "T\_ID": "40",  "ID": "175",  "OSVERSION": "Windows Server 2008 SP2"  }, …  ] |

Sample Description:

|  |  |
| --- | --- |
| Field Name | Description |
| T\_ID: | ID in Tree Table |
| ID: | ID m\_osversions table |
| OSVERSION: | OS Vendor Version Name |

## Firmware Versions (Optional)

Description: Get all Firmware versions

Method: Post

|  |  |  |
| --- | --- | --- |
| SEARCH | URL | FORM DATA |
| Server | <http://ucshcltool.cloudapps.cisco.com/public/rest/server/loadFirmwareVersions> | treeIdOSVersion (Comma Separated T\_ID) |
| OS Vendor | [http://ucshcltool-dev.cloudapps.cisco.com/public/rest/ osvendor/loadFirmwareVersions](http://tools.cisco.com/wsrp/pwc014/public/rest/osvendor/loadOsVersions) | treeIdProcessor (Comma Separated T\_ID) |
| Adapter | [http://ucshcltool-dev.cloudapps.cisco.com/public/rest/controller/ loadFirmwareVersions](http://tools.cisco.com/wsrp/pwc014/public/rest/controller/loadOsVersions) | treeIdOSVersion(Comma Separated T\_ID) |

Sample Response:

|  |
| --- |
| [  {  "T\_ID": "17810,17821",  "ID": "156,156",  "VERSION": "2.2(6)"  },  {  "T\_ID": "17809,17820",  "ID": "157,157",  "VERSION": "2.2(5)"  }, …  ] |

Sample Description:

|  |  |
| --- | --- |
| Field Name | Description |
| T\_ID: | ID in Tree Table |
| ID: | ID m\_release\_version table |
| VERSION: | Firmware Version Name |

## Search Results

Description: Get all adapters, bios, storages, servers and software.

Method: Post

|  |  |  |
| --- | --- | --- |
| SEARCH | URL | FORM DATA |
| Server | [http://ucshcltool-dev.cloudapps.cisco.com/public/rest/server/loadSearchResults](http://tools.cisco.com/wsrp/pwc014/public/rest/server/loadSearchResults) | serverType\_ID  (Long)  serverModel\_ID  (Comma Separated Actual ID)  processor\_ID  (Comma Separated Actual ID)  osVendor\_ID  (Comma Separated Actual ID)  osVersion\_ID  (Comma Separated Actual ID)  firmwareVersion\_ID  (Comma Separated Actual ID or **-1** for all)  manageType  (**UCSM** or **Standalone**) |
| OS Vendor | [http://ucshcltool-dev.cloudapps.cisco.com/public/rest/osvendor/loadSearchResults](http://tools.cisco.com/wsrp/pwc014/public/rest/osvendor/loadSearchResults) | osVendor\_ID  (Long)  osVersion\_ID  (Comma Separated Actual ID)  serverType\_ID  (Comma Separated Actual ID)  serverModel\_ID  (Comma Separated Actual ID)  processor\_ID  (Comma Separated Actual ID)  firmwareVersion\_ID  (Comma Separated Actual ID or **-1** for all)  manageType  (**UCSM** or **Standalone**) |
| Adapter | [http://ucshcltool-dev.cloudapps.cisco.com/public/rest/controller/loadSearchResults](http://tools.cisco.com/wsrp/pwc014/public/rest/controller/loadSearchResults) | adapterType\_ID  **(Long)**  adpaterModel\_ID  (Comma Separated Actual ID)  serverType\_ID  (Comma Separated Actual ID)  serverModel\_ID  (Comma Separated Actual ID)  processor\_ID  (Comma Separated Actual ID)  osVendor\_ID  (Comma Separated Actual ID)  osVersion\_ID  (Comma Separated Actual ID)  firmwareVersion\_ID  (Comma Separated Actual ID or **-1** for all)  manageType  (**UCSM** or **Standalone**) |

Sample Response:

|  |
| --- |
| **Search Result JSON** |

## Adapter Type

Description: Get all adapter types

Method: Post

|  |  |  |
| --- | --- | --- |
| SEARCH | URL | FORM DATA |
| Adapter | [http://ucshcltool-dev.cloudapps.cisco.com/public/rest/controller/loadAdapterTypes](http://tools.cisco.com/wsrp/pwc014/public/rest/controller/loadAdapterTypes) |  |

Sample Response:

|  |
| --- |
| [  {  "T\_ID": 2,  "ID": 2,  "TYPE": "Converged Network Adapters"  },  {  "T\_ID": 4,  "ID": 4,  "TYPE": "FC Adapters"  },  {  "T\_ID": 5,  "ID": 5,  "TYPE": "Flash Adapters"  }, ….  ] |

Sample Description:

|  |  |
| --- | --- |
| Field Name | Description |
| T\_ID: | ID in Tree Table |
| ID: | ID m\_product\_types table |
| VERSION: | Adapter type name |

## Adapter Models

Description: Get all adapter models

Method: Post

|  |  |  |
| --- | --- | --- |
| SEARCH | URL | FORM DATA |
| Adapter | [http://ucshcltool-dev.cloudapps.cisco.com/public/rest/controller/loadAdapterModels](http://tools.cisco.com/wsrp/pwc014/public/rest/controller/loadAdapterModels) | treeIdAdapterType  (Long) |

Sample Response:

|  |
| --- |
| [  {  "T\_ID": "124",  "ID": "297",  "MODEL": "Solarflare SFN5122F 10Gb SFP+"  },  {  "T\_ID": "104",  "ID": "303",  "MODEL": "Broadcom 5709 Dual-Port Ethernet PCIe Adapter M3 & later"  },  {  "T\_ID": "114",  "ID": "301",  "MODEL": "Intel 82576 based Quad Port Gigabit Ethernet PCIe Adapter"  }, …  ] |

Sample Description:

|  |  |
| --- | --- |
| Field Name | Description |
| T\_ID: | ID in Tree Table |
| ID: | ID table |
| Model: | Component model name |

## User Info

Description: Get user information (login required)

Method: Get

|  |  |
| --- | --- |
| URL | FORM DATA |
| <http://ucshcltool-dev.cloudapps.cisco.com/secure/rest/user/loadUserInfo> |  |

Sample Response:

|  |
| --- |
| {  "LASTNAME":"last name",  "USERID":"cecid",  "FIRSTNAME":"first name"  } |

Sample Description:

|  |  |
| --- | --- |
| Field Name | Description |
| LAST\_NAME | User surname |
| USERID: | Cisco username/cecId |
| FIRST\_NAME: | User given name |

## List Saved Searches

Description: Get list of saved searches (login required)

Method: Post

|  |  |
| --- | --- |
| URL | FORM DATA |
| <http://ucshcltool-dev.cloudapps.cisco.com/secure/rest/searchResults/loadAllSavedResults> | cecId |

Sample Response:

|  |
| --- |
| {  [  {  "cecId":"cecId",  "id":178,  “name":"server search",  "result":  **See file saved-searched.json,**  “creationDate":"09/22/2015",  "lastModified":"09/22/2015",  “updateRequired”: true  },  …  ]  } |

Sample Description:

|  |  |
| --- | --- |
| Field Name | Description |
| cecId | User cisco ID |
| Id: | ID save search table |
| result: | It is a JSON string which contains  search and filters parameters |
| creationDate: | Date when saved search was created |
| lastModified: | Date when saved search was edited |
| updateRequired | Inform UI to update search |

## Manage Saved Searches

Description: Upload, update and destroy saved search (login required)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Action | Method | URL | FORM DATA | |
| Create | **Post** | <http://ucshcltool-dev.cloudapps.cisco.com/secure/rest/searchResults> | cecId  name  result |
| Update | **Put** | <http://ucshcltool-dev.cloudapps.cisco.com/secure/rest/searchResults> | cecId  id  name  result | |
| Delete | **Delete** | <http://ucshcltool-dev.cloudapps.cisco.com/secure/rest/searchResults> | id | |

Sample Response Create and Delete:

|  |
| --- |
| { “Id”: 178 } |

Sample Response Update:

|  |
| --- |
| {  “Id”: 178 ,  “lastModified”: “2016-08-03T17:56:53+00:00”  } |

## List Uploaded Hardware Profiles

Description: Get list of uploaded hardware profile (login required)

Method: Get

|  |  |
| --- | --- |
| URL | Body |
| <http://ucshcltool-dev.cloudapps.cisco.com/secure/rest/hardwareProfile/loadAllUserHardwareProfiles> |  |

Sample Response:

|  |
| --- |
| [  {  "Name": "HP999",  "Id": 70,  "CecId": "cecId",  "UcsServer": **See file uploaded-profile.json** ,  "CreationDate": "2015-10-22T18:53:34+00:00",  "LastModified": "2015-10-22T18:53:34+00:00"  }, …  ] |

Sample Description:

|  |  |
| --- | --- |
| Field Name | Description |
| Name | Hardware Profile Name |
| Id: | ID hardware profile table |
| Ucs\_server: | JSON representation of an existing server and components |
| creationDate: | Date when hardware profile was created |
| lastModified: | Date when hardware profile was edited |

## Manage Uploaded Hardware Profile

Description: Upload, update and destroy uploaded hardware profile (login required)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Action | Method | URL | Body | |
| Upload | **Post** | <http://ucshcltool-dev.cloudapps.cisco.com/secure/rest/hardwareProfile/manageHardwareProfile> | HP JSON |
| Update | **Put** | <http://ucshcltool-dev.cloudapps.cisco.com/secure/rest/hardwareProfile/manageHardwareProfile> | HP JSON | |
| Delete | **Delete** | <http://ucshcltool-dev.cloudapps.cisco.com/secure/rest/hardwareProfile/manageHardwareProfile> | profileId | |
| Delete | **Delete** | <http://ucshcltool-dev.cloudapps.cisco.com/secure/rest/hardwareProfile/manageHardwareProfile> | profileName | |

Sample Input Upload

**hardware-profile.json as input**

Sample Response Create and Update:

|  |
| --- |
| {  “iI”: 178  “Name”: “some name”  “UcsServer”: **See file uploaded-profile.json**,  “CreationDate”: "2015-10-22T18:53:34+00:00" (UTC date)  “LastModified”: "2015-10-22T18:53:34+00:00" (UTC date)  } |

Sample Response Delete:

|  |
| --- |
| { “id”: 178, “status”: “1rows are deleted “} |

## Delete Uploaded Hardware Profile

Description: destroy uploaded hardware profile (login required)

|  |  |  |  |
| --- | --- | --- | --- |
| Action | Method | URL | Body |
| Delete | **Post** | [http://ucshcltool-dev.cloudapps.cisco.com/secure/rest/hardwareProfile/deleteHardwareProfile](http://ucshcltool-dev.cloudapps.cisco.com/secure/rest/hardwareProfile/manageHardwareProfile) | profileId |
| Delete | **Post** | [http://ucshcltool-dev.cloudapps.cisco.com/secure/rest/hardwareProfile/deleteHardwareProfile](http://ucshcltool-dev.cloudapps.cisco.com/secure/rest/hardwareProfile/manageHardwareProfile) | profileName |

Sample Response Delete:

|  |
| --- |
| { “id”: 178, “status”: “1rows are deleted “} |

## Hardware Profile Search get processor tree Id

Description: Getting processor tree id

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Search | Method | URL | FORM DATA | |
| Hardware Profile | **Post** | <http://ucshcltool-dev.cloudapps.cisco.com/secure/rest/hardwareProfile/getProcessorTreeId> | serverReleaseName  serverModelName  serverManaged  processorName |

Sample Response:

|  |
| --- |
| {  “serverReleaseId” : “0 “ ,  “serverModelId’: “9”,  “processorId”: “14”,  “treeIdProcessor”: “142”,  } |

## Hardware Profile Search get OS vendors

Description: Get all OS versions for a specific processor tree id

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Search | Method | URL | FORM DATA | |
| Hardware Profile | **Post** | <http://ucshcltool-dev.cloudapps.cisco.com/secure/rest/hardwareProfile/loadOsVendors> | treeIdProcessor |

Sample Response:

|  |
| --- |
| [  {  “T\_ID” : “387 “ ,  “ID’: “4”,  “OSVENDOR”: “14”  },…  ] |

## Hardware Profile Search get OS versions

Description: Get all OS versions for a specific vendor tree id

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Search | Method | URL | FORM DATA | |
| Hardware Profile | **Post** | [http://ucshcltool-dev.cloudapps.cisco.com/secure/rest/hardwareProfile/loadOsVersions](http://ucshcltool-dev.cloudapps.cisco.com/secure/rest/hardwareProfile/loadOsVendors) | treeIdVendor |

Sample Response:

|  |
| --- |
| [  {  “T\_ID” : “2322 “ ,  “ID’: “146”,  “OSVERSION”: “Red Hat”  },…  ] |

## Hardware Profile Search get firmware versions

Description: Get all OS firmware version for specific OS version tree id and hardware profile id. (Login required)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Search | Method | URL | FORM DATA | |
| Hardware Profile | **Post** | <http://ucshcltool-dev.cloudapps.cisco.com/secure/rest/hardwareProfile/loadFirmwareVersions> | treeIdOSVersion  hardwareProfile\_ID |

Sample Response:

|  |
| --- |
| [  {  “T\_ID” : “14564 “ ,  “ID’: “205”,  “VERSION”: “2.2(6)”  },…  ] |

## Hardware Profile Search results

Description: Get search results (login required)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Search | Method | URL | FORM DATA | |
| Hardware Profile | **Post** | <http://ucshcltool-dev.cloudapps.cisco.com/secure/rest/hardwareProfile/loadSearchResults> | serverType\_ID  serverModel\_ID  processor\_ID  osVendor\_ID  osVersion\_ID  FirmwareVersion\_ID  manageType  hardwareProfile\_ID |

Sample Response:

|  |
| --- |
| **Search Result JSON** |

## Hardware Profile Supported Unsupported results

Description: Get Supported Unsupported results (login required)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Search | Method | URL | FORM DATA | |
| Hardware Profile | **Post** | <http://ucshcltool-dev.cloudapps.cisco.com/secure/rest/hardwareProfile/supportedUnsupportedInfo> | hardwareProfile\_ID |
| Hardware Profile | **Post** | <http://ucshcltool-dev.cloudapps.cisco.com/secure/rest/hardwareProfile/supportedUnsupportedInfo> | hardwareProfile\_Name |

Sample Response:

|  |
| --- |
| **Search Result JSON** |

## Hardware Profile Get User Hardware Profile by Name

Description: To return JSON of the requested hardware profile (login required)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Search | Method | URL | URL PARAM DATA | |
| Hardware Profile | **GET** | <http://ucshcltool-dev.cloudapps.cisco.com/secure/rest/hardwareProfile/getUserHardwareProfileByName> | profileName |

Sample Response:

|  |
| --- |
| **hardware-profile as JSON** |

## Hardware Profile Get User Hardware Profile by Id

Description: To return JSON of the requested hardware profile (login required)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Search | Method | URL | URL PARAM DATA | |
| Hardware Profile | **POST** | <http://ucshcltool-dev.cloudapps.cisco.com/secure/rest/hardwareProfile/getUserHardwareProfile> | profileID |

Sample Response:

|  |
| --- |
| **hardware-profile as JSON** |

## Hardware Profile Upload User Hardware Profiles (Multiple File Upload)

Description: To return success or failure (login required)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Action | Method | URL | FORM DATA | |
| Hardware Profile | **POST** | <http://ucshcltool-dev.cloudapps.cisco.com/secure/rest/hardwareProfile/manageMultiHardwareProfiles> | files |

Sample Response:

|  |
| --- |
| Successfully uploaded Hardware Profiles |

## Central Fetch File Service

Description: To return file from file server (login required)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Action | Method | URL |  | |
| Central File | **GET** | <http://ucshclserver-dev.cloudapps.cisco.com/fetch/<fileName>> | filesName can be current.tar.gz/current.manifest |

Sample Response:

|  |
| --- |
| Fetches the file from the file server |