**Objective: How are the APIs going to be used?**

These APIs are internal and will not be exposed to the customers. The purpose is to enable access SORA SLM data using APIs for internal purpose.

**Authentication**

The API mechanism for user authentication:

1. OAuth2 - Secure OAuth2 Access tokens via Cisco Cloud SSO (using Ping Identity as a provider)

**OAuth2**

This API supports OAuth2 Authentication and will validate tokens provided by below grant types:

* Resource Owner or Password Credentials: for logging in with a username and password.

To make requests to this API that leverage OAuth2, each request must contain an Authorization header providing a valid Bearer token (the OAuth2 access token). In order to get OAuth2 access token, you must follow the procedure associated with the grant type chosen by your client.

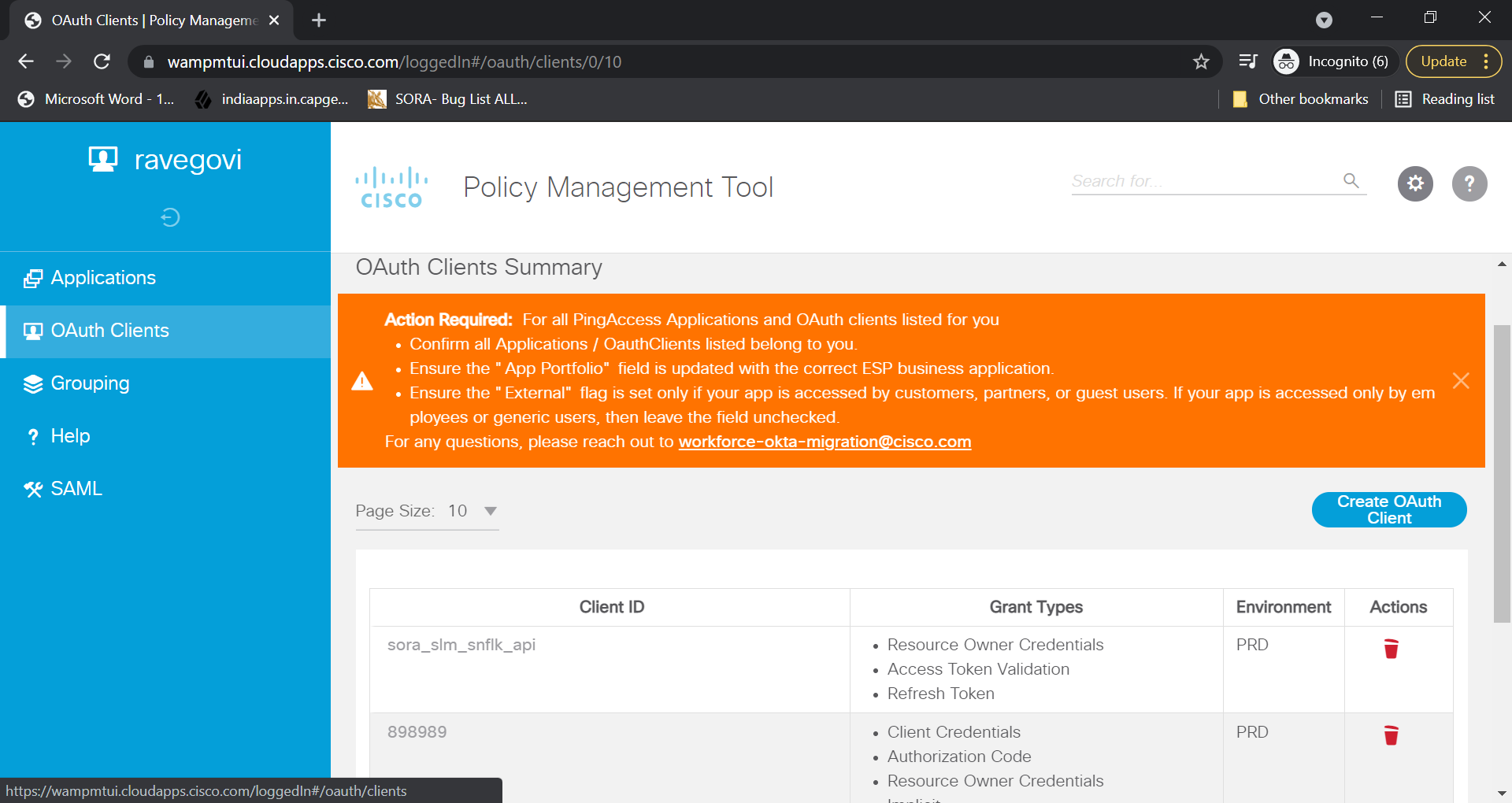
Authenticating via OAuth requires the following steps:

1. Create a client
2. Generate a Token
3. Make Authenticated Requests

**Create client**:

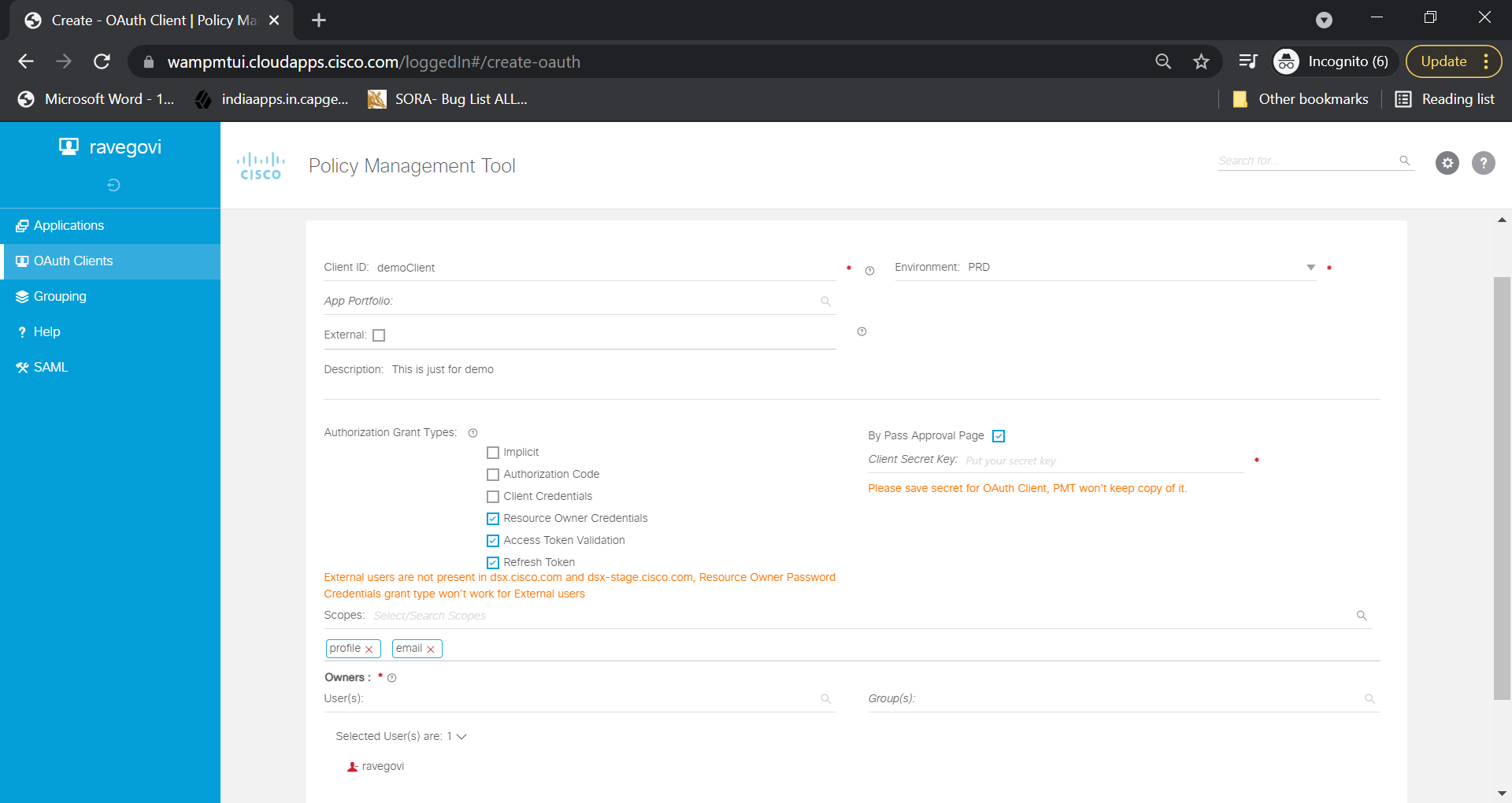
Internal Users are recommended to use the [Policy Management Tool - PMT](https://wampmtui.cloudapps.cisco.com/loggedIn#/oauth/clients) to create a new OAuth2 client.

1: Navigate to OAuth Clients



2: Click Create OAuth client

* + Select prod environment
  + Select Resource owner credentials
  + Access Token validation
  + Refresh Token
  + Scopes : profile, email
  + Owners : Enter cecid or group and click on search and then select.



3: **Generate token**:

Resource Owner/Password Grant Type Example:

curl -X POST -H "Content-Type: application/x-www-form-urlencoded"\

-d "grant\_type=password" -d "client\_id=$(clientid)"\

-d "client\_secret=$(clientsecret)" -d "scope=profile+email"\

-d "username=$(userid)" -d "password=$(password)"\

<https://cloudsso.cisco.com/as/token.oauth2>

Token Response Example

{

"accesstoken": "7mJ1sGjaWcqq2Tm6yI6dX0GEcFrZ",

"refreshtoken": "kNiKgYcVQmYKOpgBzOzatrbei6fiZMGXgG89O4K0z1",

"tokentype": "Bearer",

"expiresin": 3599

}

curl -H "Authorization: Bearer 7mJ1sGjaWcqq2Tm6yI6dX0GEcFrZ" \

https://api-supplychain.cisco.com/pdafapp/common/1.0/getBugApplicability?osType=I&osPlatform=NA&release=15.2.2-E5a&limit=10&prodFamily=Cisco Catalyst 4500 Series Switches

API 1 : Given a OSType, Product Family, Release we would like to know whether the bug(s) is applicable or not.

For the above combination if output is empty then there are two possibilities

a ) There is no MP for the PF,Release combination

b ) If the MP is present but the bug is not present

**GET** : https://api-supplychain.cisco.com/pdafapp/common/1.0/ getMPBugDetails?osType=N&release=7.3(1)D1(1)&prodFamily=Cisco Nexus 7000 Series Switches&limit=10

Note :

Limit is mandatory value which limits the number of records the api returns. Limit =0 will fetch all records.

Prefixing ‘/’ will do partial match. For example, prodFamily=/7000 Series Switches it will match all prodFamily having substring 4500 Series Switches

**Query Parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Required** | **Comments** |
| osType | String | Yes |  |
| productFamily | String | Yes |  |
| releaseDetail | String | Yes |  |
| platform | String | No | Example : IOS -> OSPLATFORM is NA  Nexus -> OSPLATFORM is 1K,3K,5K,7K etc |

**Response**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Example** |
| workaroundRecovery | String | As a workaround, reload the standby WLC. |
| cli | String | ^router bgp\* |
| impactCategory | String | Traffic impact |
| bugId | String | CSCui67227 |
| comments | String | Null |
| osPlatform | String | 7K |
| summary | String | vPC (Virtual Port Channel) split brain is observed |
| isPublished | String | Y |
| publishedDate | String | 2021-08-22 20:09:40 GMT |
| conditions | String | Issue is seen during bring up of NE roles |
| impactedPlatforms | String | Cisco Nexus 9000 Series Switches |
| workaroundAvailable | String | No |
| found | String | internally found |
| technology | String | ACI-Standard |
| fixedIn | String | 6.1.1 |
| projId | int | 600395 |
| applicableRelease | String | Y |
| reviewType | String | AC |
| osType | String | ACI |
| symptoms | String | vPC split brain is observed in this issue |
| other | String | null |
| isManualPublish | String | N |
| workaroundAvailable | String | null |
| hardware | String | null |
| triggerValue | String | Issue is seen with double failure scenario |
| triggerRepro | String | Steps to repro:\r\n1) Reload both vPC TORs |
| architecture | String | DC |
| feature | String | ACIStandard,VPC |
| impactDesc | String | It is osberved that when the spine links |
| release | String | 5.2(3a) |

**API 2 :** List master project information (Details that is seen in component summary page)

**POST** : [https://api-supplychain.cisco.com/pdafapp/masterproject/2.0/getMasterProjects](https://api-supplychain.cisco.com/pdafapp/masterproject/2.0/getMasterProjects?usepref=mProjectAttribute)

body : {

"osType": "I",

"inputParams": {

"projId": "704011"

},

"limit": 10

}

Note : optional parameter should be inside inputParams.

**Query Parameters**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Required** |
| osType | String | Yes |

**Response**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Example** |
| buglistLastModified | String | 07-Sep-2021 06:59:15 |
| projDescription | String | cat6k15.1(2)SY6MasterProject |
| primaryEngineer | String | swaichal |
| prodFamily | String | Cisco Catalyst 6500 Series Switches |
| applicableRelease | String | 16.3.1,16.3.1a,16.3.2,16.3.3,16.3.4 |
| platform | String | NA |
| deliveryEngineer | String | swaichal |
| isPublished | String | Y |
| publishedDate | String | 2021-09-14 08:07:52 GMT |
| queryVersion | String | 0 |
| projName | String | cat6k15.1(2)SY6MasterProject |
| projSts | String | X |
| buginfoLastModified | String | 18-Feb-2016 05:27:50 |
| compMappingLastModified | String | null |
| videoPlat | String | null |
| projId | Int | 704011 |
| osType | String | I |
| blineAvl | Boolean | false |
| creationDate | String | 18-Feb-2016 01:14:48 |
| pid | String | null |
| featureModified | String | 09/18/2017 03:30:11 |
| compMapping | String | Not Available |
| productId | String | null |
| isManualPublish | String | N |
| bugDetailsCache | String | Last updated when Query was run |
| videoPlatDispName | String | NA |
| throttle | String | 16.3 |
| release | String | 16.3.4 |

**API 3.1** : To check if a master project is being actively used. List Profile details along with the master project id.

**Post** : https://api-supplychain.cisco.com/pdafapp/MasterProjects\_Profile\_Details/2.0/getMPProfileDetails

body : {

"osType": "I",

"productFamily": "Cisco Catalyst 9500 Series Switches",

"releaseDetail": "16.12.4",

"createdDate": "2021-03-03",

"timeFrame": "1week",

"inputParams": {},

"limit": 30

}

Note : timeFrame can be 1week,1month,3months, 1year. TimeFrame is calculated backwards, for example in above case the profile that were created a week back from createdDate i.e from 2021-02-24 to 2021-03-03 will be fetched.

**Query Parameters**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Required** |
| osType | String | Yes |
| releaseDetail | String | Yes |
| productFamily | String | Yes |
| createdDate | String | Yes |

**Response**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Example** |
| profileId | Int | 14946 |
| createdBy | String | akaderpp |
| projId | Int | 746346 |
| custId | String | AC2711 |
| osType | String | CUIPS |
| createdDate | String | 2019-12-03 10:56:07 GMT |
| authCount | Int | 0 |
| latestAuthDate | String | null |
| contractId | String | 7087 |
| platform | String | 78xx |
| profileName | String | IPPHONE780012.5(1)SR2 |
| productFamily | String | Cisco IP Phone 7800 Series |
| releaseDetail | String | 12.5(1)SR2 |
| custName | String | TESTVOICE |

**API 3.2** : Get the audit details of the reports generated

**Post :** [https://api-supplychain.cisco.com/pdafapp/Reports\_Audit/2.0/getReportsAudit](https://api-supplychain.cisco.com/pdafapp/Reports_Audit/2.0/getReportsAudit?usepref=mAuditAttribute)

Body : {

"inputParams": {

"PROFILEID": "5507"

},

"limit": 10

}

Note : Multiple profile id’s can be specified in this format -> "PROFILEID":[ "9973","11098"]

**Query Parameters**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Required** |
| profileId | String | No |

**Response**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Example** |
| user | String | rpatwari |
| time | String | 2019-05-10 03:55:02 GMT |
| action | String | REPORT |
| reportType | String | excel report generation Internal |
| profileId | String | 5507 |

**API 4 : Get profile bug details. (Bug details in SARS of SLM)**

HTTP Request

**Post** : <https://api-supplychain.cisco.com/pdafapp/profiles_buglist_global_users/2.0/getProfileBugsListGU>

{

"contractId": "8071",

"custName": "BOROUGE HONG KONG LTD.",

"profileName": "Top\_23697\_ASR 1002\_16.12.4",

"deliverables": "SARS",

"inputParams": {

},

"limit": 10

}

Global user: users present in SORAGLOBALUSERS table

**Query Parameters**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Required** |
| contractId | String | Yes |
| custName | String | Yes |
| profileName | String | Yes |
| deliverables | String | Yes |

**Response**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Example** |
| impactLevel | String | crash |
| cli | String | null |
| impactCategory | String | Memory Leak |
| bugSource | String | Master Project |
| bugId | String | CSCuz29721 |
| state | String | R |
| sourceSelStatus | String | IPC |
| releaseNotes | String | <B>Symptom:</B>\nA device running affected IOS-XE versions configured  for WebAuth may exhibit a memory leak in one or more processes .\n\n<B>Conditions:</B> |
| intRefComment | String | Symptoms:The device running affected IOS-XE version exhibit a memory  leak.\r\n\r\nPlatform Impact: Not available |
| smuAvailable | String | N |
| profileName | String | 190015.7(3)M52020-MAY-12 23:14:08 |
| cdetsFound | String | customer-use |
| commentCreatedOn | String | 2020-05-13 06:08:26 GMT |
| srcount | Int | 108 |
| releaseDetail | String | 15.7(3)M5 |
| commentUpdatedBy | String | pbheemes |
| isApproved | String | Y |
| sourceComment | String | The device running affected IOS-XE version exhibit a memory leak. \r\n\r\nPlatform Impact: Not available. |
| profileId | Int | 18696 |
| fixedIn | String | 15.2(4)EA9a,15.2(4.6.20)EA5,15.2(5.8.1)EA |
| bugAddedOn | String | 2018-08-18 05:07:54 GMT |
| projId | Int | 722012 |
| commentUpdatedOn | String | 2020-05-13 06:08:26 GMT |
| isNew | String | N |
| custSeverity | Int | 2 |
| osType | String | I |
| customerId | String | 4605 |
| contractId | String | 4741 |
| deliverables | String | SARS |
| bugCategory | String | PIB |
| deliverableUnitId | Int | 0 |
| selectionStatus | String | “Include |
| hardware | String | null |
| productFamily | String | Cisco 1900 Series Integrated Services Routers |
| bugAuthStatus | String | N |
| feature | String | Webauth |
| impactedPlatform | String | null |
| component | String | eedge-epm |
| extFefComment | String | Symptoms:The device running affected IOS-XE version exhibit a memory leak. \r\n\r\nPlatform Impact: Not available. |
| headline | String | Memory leak under HTTP EPM Redirect Daemon |
| severity | String | 2 |
| isCustomerVisible | String | Y |
| custName | String | PARTNERS HEALTHCARE |