Smart Licensing APIs

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Scope of API for Smart Licensing REST Web Service

This is a web interface to the Smart Licensing REST Web Service. This web service contains Read APIs to view data for the Smart Licensing. Use the REST APIs URL to fetch, configure, and update the smart licensing-related activities in the HCM-F Smart Licensing.

URL (Base URL)	HTTPs Method				
	GET	POST	PUT	UPDATE	DELETE
Configure Smart Account (Client Id and Client Secret)					
https://*HCMF_HOST_NAME*:8443/sdr/rest/smartLic/smartAccountConfig	N	Y	N	N	N
Update Smart Account by Id, on page 4					
https://*HCMF_HOST_NAME*:8443/sdr/rest/smartLic/smartAccountConfig/*pkid*	N	N	Y	N	N
Delete Smart Account, on page 5Y					
https://*HCMF_HOST_NAME*:8443/sdr/rest/smartLic/smartAccounts/*smartAccountId*	N	N	N	N	Y
Schema Smart Account Config					
https://*HCMF_HOST_NAME*:8443/sdr/rest/smartLic/smartAccountConfig/schemameta	N	Y	N	N	N
List of Smart Accounts					
https://*HCMF_HOST_NAME*:8443/sdr/rest/smartLic/smartAccounts	Y	N	N	N	N
Schema for Transport Settings , on page 7					
https://*HCMF_HOST_NAME*:8443/sdr/rest/smartLic/transportMode/schemameta	Y	N	N	N	N
List of Virtual Accounts for Smart Accounts					
https://*HCMF_HOST_NAME*:8443/sdr/rest/smartLic/smartAccount/*{pkid}*/virtualAccounts	Y	N	N	N	N
List all Virtual Account					

URL (Base URL)	HTTPs Method				
	GET	POST	PUT	UPDATE	DELETE
https://*HCMF_HOST_NAME*:8443/sdr/rest/smartLic/smartAccount/virtualAccounts	Y	N	N	N	N
Get a Virtual Account Details by ID					
https://*HCMF_HOST_NAME*:8443/sdr/rest/smartLic/smartAccount/virtualAccount/*pkid*	Y	N	N	N	N
Get a Virtual Account by Name					
https://*HCMF_HOST_NAME*:8443/sdr/rest/smartLic/smartAccount/virtualAccount/name/*name*	Y	N	N	N	N
Update a Virtual Account by Id					
https://*HCMF_HOST_NAME*:8443/sdr/rest/smartLic/smartAccount/virtualAccount/*pkid*	N	N	N	Y	N
Schema for Virtual Account					
https://*HCMF_HOST_NAME*:8443/sdr/rest/smartLic/smartAccount/virtualAccount/updateSchemameta	Y	N	N	N	N
Assign Cluster to a Virtual Account					
https://*HCMF_HOST_NAME*:8443/sdr/rest/smartLic/assignCluster	N	Y	N	N	N
Schema to Assign Cluster to a Virtual Account					
https://*HCMF_HOST_NAME*:8443/sdr/rest/smartLic/assignCluster/schemameta	Y	N	N	N	N
Unassign Cluster to a Virtual Account					
https://*HCMF_HOST_NAME*:8443/sdr/rest/smartLic/unassignCluster	N	Y	N	N	N
Schema to Unassign Cluster to a Virtual Account					
https://*HCMF_HOST_NAME*:8443/sdr/rest/smartLic/unassignCluster/schemameta	Y	N	N	N	N
Sync from CSSM					
https://*HCMF_HOST_NAME*:8443/sdr/rest/smartLic/schedule	N	Y	N	N	N
Schema for Sync Request					
https://*HCMF_HOST_NAME*:8443/sdr/rest/smartLic/schedule/schemameta	Y	N	N	N	N
Get Virtual Account Info Based on Cluster ID					
https://*HCMF_HOST_NAME*:8443/sdr/rest/smartLic/clusters/*pkid*	Y	N	N	N	N
Get Virtual Account Info Based on Cluster Name					
https://*HCMF_HOST_NAME*:8443/sdr/rest/smartLic/clusters/name/*name*	Y	N	N	N	N
Unassign Cluster, on page 15					
https://*HCMF_HOST_NAME*:8443/sdr/rest/smartLic/unassignCluster	N	Y	N	N	N
Get All Subscription Details, on page 16					
https://*HCMF_HOST_NAME*:8443/sdr/rest/smartLic/subscriptions	Y	N	N	N	N

URL (Base URL)	HTTPs Method				
	GET	POST	PUT	UPDATE	DELETE
Get Subscription Details for a Customer, on page 17					
https://*HCMF_HOST_NAME*:8443/sdr/rest/smartLic/subscriptions/customer/*customerId*	Y	N	N	N	N
Update Subscription Details, on page 17					
https://*HCMF_HOST_NAME*:8443/sdr/rest/smartLic/subscriptions	N	N	Y	N	N
Cluster Summary, on page 18					
https://*HCMF_HOST_NAME*:8443/sdr/rest/smartLic/clusterSummary	Y	N	N	N	N

Configure Smart Account (Client Id and Client Secret)

Title	Configure Client id and Client Secret
Root URL	https://*HCMF_HOST_NAME*:8443/sdr/rest/
URL	smartLic/smartAccountConfig
Method	**POST**
URL Params	
Data Params	smartLic/smartAccountConfig/schemameta
Success Response	200
Error Response	400- Smart Account Access Error 400 – Invalid domain name / clientId / clientSecret / authGateway / serverUrl / transportMode 400 – Smart Account Does not exist 400 – Smart Account Already exist 400 – Validation Error 400 – AutoReg VA allowed only if operationalLic is enabled 400 – Enable AutoReg only when Operational Licenses are selected 400 – VAs are mandatory when Operational Licenses enabled 400 – Only one SA for AutoReg 400 – At least one SA must have Operational Licenses eenabled 412 – Sync In Progress 500 – Service down , unknown

Title	Configure Client id and Client Secret

Example	<pre>{
	"domainName": "hcs-intg.cisco.com",
	"clientID": "",
	"clientSecret": "",
	"serverUrl": "",
	"authGateway": "",
	"satelliteHostName": "",
	"satellitePort": 22,
	"transportMode": "proxy",
	"proxyHostName": "",
	"proxyPort":,
	"isOperationalLicenseEnabled": ,
	"isAutoRegistrationEnabled": ,
	"virtualAccOrdered": "",
	"virtualAccOperational": ""
	}</pre>

Notes	

Update Smart Account by Id

Title	Update Smart Accounts
Root URL	`https://HCMF_HOST_NAME:8443/sdr/rest/`
URL	`smartLic/smartAccountConfig/pkid`
Method	**PUT**
URL Params	Pkid – integer Pkid – Smart Account identifier
Data Params	
Success Response	200
Error Response	400- Smart Account Access Error 400 – Invalid domain name / clientId / clientSecret 400 – Smart Account Does not exist 400 – Validation Error 400 – Invalid pkid 412 – Sync In Progress 500 – Unknown, service down

Title	Update Smart Accounts

Example	For Direct Mode:
	`{ "clientID": "", "clientSecret": "", "isOperationalLicenseEnabled": true, "isAutoRegistrationEnabled": false, "virtualAccOrdered": "", "virtualAccOperational": "" }`
	For Proxy Mode:
	`{ "clientID": "", "clientSecret": "", "proxyHostName": "", "proxyPort": , "isOperationalLicenseEnabled": true, "isAutoRegistrationEnabled": false, "virtualAccOrdered": "", "virtualAccOperational": "" }`
	For Satellite Mode:
	`{ "clientID": "", "clientSecret": "", "serverUrl": "", "authGateway": "", "satelliteHostName": "10.78.89.169", "satellitePort": , "proxyHostName": "", "proxyPort": 0, "isOperationalLicenseEnabled": false, "isAutoRegistrationEnabled": true, "virtualAccOrdered": "", "virtualAccOperational": "" }`

Notes	

Delete Smart Account

Title	Delete Smart Account
Root URL	`https://HCMF_HOST_NAME:8443/sdr/rest/`
URL	`smartLic/smartAccounts/smartAccountId`
Method	**DELETE**
URL Params	smartAccountId
Data Params	`smartLic/smartAccountConfig/schemameta`
Success Response	200

Title	Delete Smart Account
Error Response	400 -Smart account does not exist 400-Validation error 400 -Smart Account cannot be deleted 412-Sync in progress 500 - Unknown, service down
Example	
Notes	

Schema Smart Account Config

Title	Schema for Smart Account Config
Root URL	`https://HCMF_HOST_NAME:8443/sdr/rest/`
URL	`smartLic/smartAccountConfig/schemameta`
Method	`GET`
URL Params	
Data Params	
Success Response	200
Error Response	404- Resource not found
Example	
Notes	

List of Smart Accounts

Title	Get List of Smart Accounts
Root URL	`https://HCMF_HOST_NAME:8443/sdr/rest/`
URL	`smartLic/smartAccounts`
Method	`GET`
URL Params	
Data Params	
Success Response	200

Title	Get List of Smart Accounts
Error Response	500 – Unknown, service down
Example	
Notes	

Schema for Transport Settings

Title	Assign a Cluster to a Virtual Account
Root URL	`https://HCMF_HOST_NAME:8443/sdr/rest/`
URL	`smartLic/transportMode/schemameta`
Method	`GET`
URL Params	
Data Params	
Success Response	200
Error Response	404- Resource not found
Example	
Notes	

List of Virtual Accounts for Smart Accounts

Title	Get List of Virtual Account for a Smart Account
Root URL	`https://HCMF_HOST_NAME:8443/sdr/rest/`
URL	`smartLic/smartAccount/pkid/virtualAccounts`
Method	**GET**
URL Params	Pkid = integer Pkid = Smart Account identifier
Data Params	
Success Response	200
Error Response	404- Invalid KID found 500 – Unknown Errors, Service Down
Example	

Title	Get List of Virtual Account for a Smart Account
Notes	

List all Virtual Account

Title	Get all the Virtual Accounts
Root URL	`https://HCMF_HOST_NAME:8443/sdr/rest/`
URL	`smartLic/smartAccount/virtualAccounts`
Method	**GET**
URL Params	
Data Params	
Success Response	200
Error Response	500 – Unknown Errors, Service Down
Example	
Notes	

Get a Virtual Account Details by ID

Title	Get all the Virtual Accounts
Root URL	`https://HCMF_HOST_NAME:8443/sdr/rest/`
URL	`smartLic/smartAccount/virtualAccount/pkid`
Method	**GET**
URL Params	Pkid = integer Pkid = Virtual Account identifier
Data Params	
Success Response	200
Error Response	404- SmartLic Data Issue 500 – Unknown, Service Down
Example	
Notes	

Get a Virtual Account by Name

Title	Update the License mode of Virtual account based on name
Root URL	`https://HCMF_HOST_NAME:8443/sdr/rest/`
URL	`smartLic/smartAccount/virtualAccount/name/name`
Method	**GET**
URL Params	Name = String name = Name of the Virtual Account
Data Params	
Success Response	200
Error Response	404- Data Issue 500 – Unknown , Service Down
Example	
Notes	Only License Mode update is allowed.

Update a Virtual Account by Id

Title	Update the License mode of Virtual account based on ID
Root URL	`https://HCMF_HOST_NAME:8443/sdr/rest/`
URL	`smartLic/smartAccount/virtualAccount/pkid`
Method	**UPDATE**
URL Params	Pkid = integer Pkid = Virtual Account identifier
Data Params	`smartLic/smartAccount/virtualAccount/updateSchemameta`
Success Response	200
Error Response	400- SmartLic Data issue 404 - Invalid KID found 412 – Deployment Mode cannot be changed 500 – Unknown , Service Down
Example	
Notes	Only License mode updation is allowed

Update a Virtual Account by Name

Title	Update the License mode of Virtual account based on name
Root URL	`https://HCMF_HOST_NAME:8443/sdr/rest/`
URL	`smartLic/smartAccount/virtualAccount/name/{name}`
Method	`UPDATE`
URL Params	Name = String name – Name of the Virtual Account
Data Params	`smartLic/smartAccount/virtualAccount/updateSchemameta`
Success Response	200
Error Response	400- SmartLic Data issue 412 – Deployment Mode cannot be changed 500 – Unknown , Service Down

Example	`{`
	` "licMode": "HCS/HCS_LE/ENTERPRISE"`
	`}`

Notes	Only License mode updation is allowed

Schema for Virtual Account

Title	Schema for Virtual account
Root URL	`https://HCMF_HOST_NAME:8443/sdr/rest/`
URL	`smartLic/smartAccount/virtualAccount/updateSchemameta`
Method	**GET**
URL Params	
Data Params	
Success Response	200
Error Response	404- Resource not found
Example	
Notes	Only License Mode update is allowed.

Assign Cluster to a Virtual Account

Assignment of Expressway C and E Clusters

Assign Expressway E and C clusters from the Virtual Account. Smart Software Manager Cisco SSM On-Prem server 7.2 or later supports assigning Expressway E and C Clusters. They are assigned only if all the subordinate peers are added in the HCMF application, else the assignment is not accepted. Ensure to enter Correct credentials, network address and proxy details during assignment.

Title	**Assign a Cluster to a Virtual Account**
Root URL	`https://HCMF_HOST_NAME:8443/sdr/rest/`
URL	`smartLic/assignCluster`
Method	`POST`
URL Params	
Data Params	`smartLic/assignCluster/schemameta`
Success Response	200
Error Response	400- Virtual Account Invalid 400 – Cluster Invalid 412 –Deployment Mode not set 412 – Cluster Validation Failed 412 – Cluster InUse 400 – Cluster type not supported 412 – Cluster not having platform credentials 412 – Cluster version incorrect 412 – Cluster not having admin credentials 412 – Cluster not having publisher 412 – Cluster already assigned 500 –Unknown, service down

Example	`{`
	`"clusterName": "cucm-cluster",`
	`"virtualAccountName": "TEST_ACCOUNT",`
	`}`

Notes	

Schema to Assign Cluster to a Virtual Account

Title	Schema for Assignment
Root URL	`https://HCMF_HOST_NAME:8443/sdr/rest/`
URL	`smartLic/assignCluster/schemameta`
Method	`GET`
URL Params	
Data Params	
Success Response	200
Error Response	404- Resource not found
Example	
Notes	

Unassign Cluster to a Virtual Account

Title	Unassign a Cluster from a Virtual Account
Root URL	`https://HCMF_HOST_NAME:8443/sdr/rest/`
URL	`smartLic/unassignCluster`
Method	`POST`
URL Params	
Data Params	`smartLic/unassignCluster/schemameta`
Success Response	200
Error Response	400- Cluster Invalid 412 – Cluster Validation Failed 412 – Cluster Inuse 400 – Cluster Type Not supported 412 – Cluster Not having platform Cred 412 – Cluster Version Incorrect 412 – Cluster not having admin Credentials 412 –Cluster not having publisher 412 – Cluster already unassigned 500 – Unknown, service down

Title	Unassign a Cluster from a Virtual Account
Example	
Notes	

Schema to Unassign Cluster to a Virtual Account

Title	Schema for unassignment
Root URL	`https://HCMF_HOST_NAME:8443/sdr/rest/`
URL	`smartLic/unassignCluster/schemameta`
Method	`GET`
URL Params	
Data Params	
Success Response	200
Error Response	404- Resource not found

Example	`{`
	`"clusterName": "cucm-cluster",`
	`}`

Notes	

Sync from CSSM

Title	Sync fulfillment data with CSSM
Root URL	`https://HCMF_HOST_NAME:8443/sdr/rest/`
URL	`smartLic/schedule/smartAccountId`
Method	`POST`
URL Params	smartAccountId – Integer smartAccountId – SmartAccount identifier
Data Params	`smartLic/schedule/schemameta`
Success Response	200

Title	Sync fulfillment data with CSSM
Error Response	412- Scheduler already running 400 – SmartAccount does not exist 400 – Invalid SmartAccount Id 500 – Unknown, service down
Example	
Notes	

Schema for Sync Request

Title	Schema for Sync Request
Root URL	`https://HCMF_HOST_NAME:8443/sdr/rest/`
URL	`smartLic/schedule/schemameta`
Method	`GET`
URL Params	
Data Params	
Success Response	200
Error Response	404- Resource not found
Example	
Notes	

Get Virtual Account Info Based on Cluster ID

Title	Get the VA info for cluster Id
Root URL	`https://HCMF_HOST_NAME:8443/sdr/rest/`
URL	`smartLic/clusters/pkid`
Method	`GET`
URL Params	Pkid- Integer Pkid of the cluster
Data Params	
Success Response	200

Title	Get the VA info for cluster Id
Error Response	404- Data Issue 404 - Invalid KID 500 – Unknown, Service Down
Example	
Notes	

Get Virtual Account Info Based on Cluster Name

Title	Get the VA info for cluster name
Root URL	`https://HCMF_HOST_NAME:8443/sdr/rest/`
URL	`smartLic/clusters/name/name`
Method	`GET`
URL Params	name- String name of the cluster
Data Params	
Success Response	200
Error Response	404- Data Issue 500 – Unknown , Service Down
Example	
Notes	

Unassign Cluster

Title	Unassign cluster from a Virtual Account
Root URL	`https://HCMF_HOST_NAME:8443/sdr/rest/`
URL	`smartLic/unassignCluster`
Method	`POST`
URL Params	
Data Params	
Success Response	200

Title	Unassign cluster from a Virtual Account
Error Response	400 – Cluster Invalid 412 – Cluster Validation Failed 412 – Cluster In Use 400 – Cluster type not supported 412 – No Platform/Admin credentials found for cluster 412 – Cluster version incorrect 412 – Publisher not found for cluster 412 – Cluster already unassigned 500 – Unknown , Service Down

Example	<pre>{
	"clusterId": "1",
	"clusterName": "",
	"virtualAccountId": ""
	}</pre>

Notes	

Get All Subscription Details

Title	Get subscription details for all Smart Accounts including satellite
Root URL	`https://HCMF_HOST_NAME:8443/sdr/rest/`
URL	`smartLic/subscriptions`
Method	`GET`
URL Params	
Data Params	
Success Response	200
Error Response	404 - Resource not found 500 – Unknown , Service Down
Example	
Notes	

Get Subscription Details for a Customer

Title	Get subscription details for a customer
Root URL	`https://HCMF_HOST_NAME:8443/sdr/rest/`
URL	`smartLic/subscriptions/customer/customerId`
Method	`GET`
URL Params	customerId – Integer customerId – Customer identifier
Data Params	
Success Response	200
Error Response	400 – Data issue 400 – Invalid KID 400 – Validation error 500 – Unknown , Service Down
Example	
Notes	

Update Subscription Details

Title	Update subscription details for a customer
Root URL	`https://HCMF_HOST_NAME:8443/sdr/rest/`
URL	`smartLic/subscriptions`
Method	`PUT`
URL Params	
Data Params	
Success Response	200
Error Response	400 – Data Issue 400 – Invalid License Model 400 – Validation error 400 – Invalid KID 500 – Unknown , Service Down

Title	Update subscription details for a customer

Example	<pre>{
	"subscriptionId" : "" ,
	"customerId":"",
	"licenseModel": ""
	}</pre>

Notes	

Cluster Summary

Title	Cluster Summary
Root URL	`https://HCMF_IP_Adress/sdr/rest/`
URL	`smartLic/clusterSummary`
Method	`GET`
URL Params	
Data Params	
Success Response	200
Error Response	500 – Unknown , Service Down
Example	
Notes	