



## UC Monitor Rest Web Service

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### Scope of API for Certificate Monitoring REST Web Service

This is a web interface for the Certificate Monitoring REST Web Service. This web service contains Read APIs to view data in the Certificate Monitoring dashboard. The REST APIs URL fetches the report for customers.



**Note** You must specify the mandatory headers for using these API. See [Specifying Mandatory API Headers](#)

Following is the resource summary for HCM-F Certificate Monitoring:

URL (Base URL)	HTTPs Method			
	GET	POST	PUT	DEL
<a href="#">Fetch Certificate Status for All Customers, on page 2</a>				
<a href="https://HCM-F_Server_IPaddress/ucmon/certificates/status/customers">https://HCM-F_Server_IPaddress/ucmon/certificates/status/customers</a>	Y	N	N	N
<a href="#">Fetch Certificate Status for Selected Customer, on page 2</a>				
<a href="https://HCM-F_Server_IPaddress/ucmon/certificates/status/customers/{customerId}">https://HCM-F_Server_IPaddress/ucmon/certificates/status/customers/{customerId}</a>	Y	N	N	N
<a href="#">Fetch Certificate Status for Single Cluster, on page 3</a>				
<a href="https://HCM-F_Server_IPaddress/ucmon/certificates/status/cluster/{clusterid}">https://HCM-F_Server_IPaddress/ucmon/certificates/status/cluster/{clusterid}</a>	Y	N	N	N
<a href="#">Collect Certificate Data OnDemand from All EndPoints and Store, on page 4</a>				
<a href="https://HCM-F_Server_IPaddress/ucmon/certificates/collect">https://HCM-F_Server_IPaddress/ucmon/certificates/collect</a>	N	Y	N	N
<a href="#">Collect Certificate Data OnDemand for Given Customer, on page 4</a>				

URL (Base URL)	HTTPs Method			
	GET	POST	PUT	DEL
<a href="https://HCM-F_Server_IPAddress/ucmon/certificates/collect/customerocertificates">https://HCM-F_Server_IPAddress/ucmon/certificates/collect/customerocertificates</a>	N	Y	N	N
<a href="#">Set Parameters, on page 5</a>				
<a href="https://HCM-F_Server_IPAddress/ucmon/certificates/configure">https://HCM-F_Server_IPAddress/ucmon/certificates/configure</a>	N	N	Y	N
<a href="#">Get Parameters, on page 6</a>				
<a href="https://HCM-F_Server_IPAddress/ucmon/certificates/configure">https://HCM-F_Server_IPAddress/ucmon/certificates/configure</a>	Y	N	N	N
<a href="#">Fetch Certificate Status per Certificate</a>				
<a href="https://HCM-F_Server_IPAddress/ucmon/certificates/status/certificate/appId">https://HCM-F_Server_IPAddress/ucmon/certificates/status/certificate/appId</a>	Y	N	N	N

## Fetch Certificate Status for All Customers

### Request

GET [https://HCM-F\\_Server\\_IPAddress/ucmon/certificates/status/customers](https://HCM-F_Server_IPAddress/ucmon/certificates/status/customers)

### Parameters

Nil

### Response

Code	Description
200	[ {"custId": "string ", "custName": "string ", "custStatus":"string" }, {"custId": "string ", "custName": "string ", "custStatus":"string" } ]
401	Unauthorized

## Fetch Certificate Status for Selected Customer

### Request

GET [https://HCM-F\\_Server\\_IPAddress/ucmon/certificates/status/customers/{customerId}](https://HCM-F_Server_IPAddress/ucmon/certificates/status/customers/{customerId})

### Parameter

Name	Type	Description
customerId	int	pkid of the customer

### Response

Code	Description
200	<pre>[{   "clustName": "string ",   "clustId": "String",   "clustStatus":"String",   "certCount":"String",   "lastExecutedDateTime":"String",   "lastSuccessDateTime":"String",   "clusterType":"String" }, {   "clustName": "string ",   "clustId": "String",   "clustStatus":"String",   "certCount":"String",   "lastExecutedDateTime":"String",   "lastSuccessDateTime":"String",   "clusterType":"String" }]</pre>
401	Unauthorized

```
[{"clustName":"Clustercucxn","clustId":"5","clustStatus":"Invalid","certCount":"3","lastExecutedDateTime":"Aug
13 2018 11:42:36 IST","lastSuccessDateTime":"Aug 10 2018 17:39:50
IST","clusterType":"UCXN"}, {"clustName":"Cluster-CUM","clustId":"6","clustStatus":"Invalid","certCount":"17","lastExecutedDateTime":"Aug
13 2018 11:44:25 IST","lastSuccessDateTime":"Aug 12 2018 03:02:47 IST","clusterType":"CUCM"}]
```

## Fetch Certificate Status for Single Cluster

### Request

GET [https://HCM-F\\_Server\\_IPaddress/ucmon/certificates/status/cluster/{clusterid}](https://HCM-F_Server_IPaddress/ucmon/certificates/status/cluster/{clusterid})

### Parameter

Name	Type	Description
clusterId	int	pkid of the cluster

### Response

Code	Description
200	[ <pre>{   "name": "string",   "fromdate": "string",   "expdate": "string",   "hostname": "string",   "numdays": "string",   "signauth": "string",   "status": "String" }, {   "name": "string",   "fromdate": "string",   "expdate": "string",   "hostname": "string",   "numdays": "string",   "signauth": "string",   "status": "String" } ]</pre>
401	Unauthorized

```
[{"signauth": "Self Signed", "status": "Valid", "name": "CallManager/CallManager.pem", "fromdate": "Dec 12 2017 IST", "expdate": "Dec 11 2022 IST", "numdays": "1581", "hostname": "xxxxx"}]
```

## Collect Certificate Data OnDemand from All EndPoints and Store

### Request

POST [https://HCM-F\\_Server\\_IPaddress/ucmon/certificates/collect](https://HCM-F_Server_IPaddress/ucmon/certificates/collect)

### Parameter

Nil

### Response

Code	Description
200	{ "jobId": "String", "status": "success", "message": "string" } Or { "jobId": "String", "status": "fail", "message": "string" }
401	Unauthorized

## Collect Certificate Data OnDemand for Given Customer

### Request

POST [https://HCM-F\\_Server\\_IPaddress/ucmon/certificates/collect/customerCertificates](https://HCM-F_Server_IPaddress/ucmon/certificates/collect/customerCertificates)

### Parameter

Name	Type	Request for POST	Description
custIds	string	List	List of pkids

**Response**

Code	Description
200	{ "jobId": "String", "status": "success", "message": "string" } or { "jobId": "String", "status": "fail", "message": "string" }
401	Unauthorized

## Set Parameters

**Request**

PUT [https://HCM-F\\_Server\\_IPaddress/ucmon/certificates/configure](https://HCM-F_Server_IPaddress/ucmon/certificates/configure)

**Parameter**

**Note** All parameters are mandatory.

Name	Type	Request for PUT	Description
scheduleEnable	String	true or false	true: enable scheduler false: disable scheduler
scheduleTime	String	T00:00:00 to T23:59:59	Time of the day when the trigger is scheduled. Default time is 03:00:00.
scheduleDay	String	Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, and Saturday.	Day of the week when the trigger is scheduled. Default day is Sunday.
ToEmailIds* array (path)	String	<mailid1>@<domain>, <mailid2>@<domain>, ... .. <mailid10>@<domain>	parm1, parm2 .... parm10 Minimum one email ID and maximum 10 email IDs can be configured.
FromEmailId	String	<mailid1>@<domain>	parameter1. Maximum one email ID must be configured.

Name	Type	Request for PUT	Description
custNotificationEnable	String	true or false	true - Enable Customer Notification
expressWayECollectionEnable	String	true or false	true - Enable Expressway E collection and retrieval false - Disable Expressway E collection and retrieval

**Response**

Code	Description
200	{ "status": "success", "message": "string" }
401	Unauthorized
500	{ "errorCode": "500 Internal Error", "errorMessage": "Invalid Schedule Time", "detailedInfo": "NA" } { "errorCode": "500 Internal Error", "errorMessage": "Invalid Schedule Week Day", "detailedInfo": "NA" } { "errorCode": "500 Internal Error", "errorMessage": "Invalid Email id", "detailedInfo": "NA" } { "errorCode": "500 Internal Error", "errorMessage": "Maximum 10 Email addresses(To) are allowed", "detailedInfo": "NA" } { "errorCode": "500 Internal Error", "errorMessage": "Atleast one Email address(To) is required", "detailedInfo": "NA" }

## Get Parameters

**Request**GET [https://HCM-F\\_Server\\_IPAddress/ucmon/certificates/configure](https://HCM-F_Server_IPAddress/ucmon/certificates/configure)**Parameter**

Name	Type	Request for PUT	Description
scheduleEnable	String	true or false	true: enable scheduler false: disable scheduler
scheduleTime	String	T00:00:00 to T23:59:59	Time of the day when the trigger is scheduled. Default time is 03:00:00.
scheduleDay	String	Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, and Saturday.	Day of the week when the trigger is scheduled. Default day is Sunday.

Name	Type	Request for PUT	Description
ToEmailIds* array (path)	String	<mailid1>@<domain>, <mailid2>@<domain>, ... .. <mailid10>@<domain>	parm1, parm2 .... parm10 Minimum one email ID and maximum 10 email IDs can be configured.
FromEmailId	String	<mailid1>@<domain>	parameter1. Maximum one email ID must be configured.
custNotificationEnable	String	true or false	true - Enable Customer Notification
expressWayECollectionEnable	String	true or false	true - Enable Expressway E collection and retrieval false - Disable Expressway E collection and retrieval

**Response**

Code	Description
200	{ "schedulerEnable": boolean, "scheduleTime": "String", "scheduleDay": "String", "smtpHostName": "String", "smtpPort": int, "emailAddressFrom": "String", "emailAddressTo": "String" "custNotificationEnable": boolean, "expressWayECollectionEnable": boolean }}
401	Unauthorized

## Fetch Certificate Status per Certificate

**Request**

GET [https://HCM-F\\_Server\\_IPaddress/ucmon/certificates/status/certificate/appId](https://HCM-F_Server_IPaddress/ucmon/certificates/status/certificate/appId)

**Path Parameter**

Enables you to fetch certificate status along with actions per certificate

Name	Type	Values Allowed	Description
appId	Integer	Path	pkid of the node

**Query Parameter**

Name	Description
certificate	Certificate Type

**Example Response**

Code	Description
200	<pre>{   "name": "Server Certificate",   "fromDate": "Sep 03 2019 IST",   "expDate": "Nov 01 2019 IST",   "numDays": "57",   "signAuth": "ca_0209",   "status": "About To Expire",   "hostname": "10.78.89.152",   "appId": "4",   "regenType": "CA Signed",   "trustAllowed": true,   "keyLength": "4096",   "algorithm": "sha256",   "org": "s",   "locality": "Bangalore",   "state": "Karnataka",   "country": "IN",   "commonName": "hcs-lnx2-152.cisco.com",   "email": "nsandesh507@gmail.com",   "san": [     "hcs-lnx2-152.cisco.com"   ],   "orgUnits": [     "s"   ],   "actions": [] }</pre>
401	"Unauthorized"

## Scope of API for Certificate Management REST Web Service

This is a web interface for the Certificate Management REST Web Service. This web service contains Read APIs to view data in the Certificate Management dashboard. The REST APIs URL fetches the report for customers.

Following is the resource summary for HCM-F Certificate Management:

Release	Base URL	HTTPs Method	Parameters
	<b>Regenerate Certificate</b>		Changed
	For more information on the parameters, see <a href="#">Regenerates the Specific Certificate, on page 10</a>		
HCM-F 12.5	<a href="https://hcmf-ip/ucmon/certmgmt/regenerate">https://hcmf-ip/ucmon/certmgmt/regenerate</a>	POST	



Release	Base URL	HTTPs Method	Parameters
HCM-F 12.5 SU1	<a href="https://hcmf-ip/ucmon/certmgmt/certificate">https://hcmf-ip/ucmon/certmgmt/certificate</a>	POST	
<b>Generate CSR</b> For more information on the parameters, see <a href="#">Generate CSR for a Certificate, on page 12</a>			Changed
HCM-F 12.5	<a href="https://hcmf-ip/ucmon/certmgmt/csr">https://hcmf-ip/ucmon/certmgmt/csr</a>	POST	
HCM-F 12.5 SU1	<a href="https://hcmf-ip/ucmon/certmgmt/csr">https://hcmf-ip/ucmon/certmgmt/csr</a>	POST	
<b>Download CSR</b> For more information on the parameters, see <a href="#">Download CSR from the Node, on page 17</a>			Changed
HCM-F 12.5	<a href="https://hcmf-ip/ucmon/certmgmt/csr">https://hcmf-ip/ucmon/certmgmt/csr</a>	GET	
HCM-F 12.5 SU1	<a href="https://hcmf-ip/ucmon/certmgmt/csr">https://hcmf-ip/ucmon/certmgmt/csr</a>	GET	
<b>Email CSR</b> For more information on the parameters, see <a href="#">Email CSR, on page 21</a>			Changed
HCM-F 12.5	<a href="https://hcmf-ip/ucmon/certmgmt/csr/email/{appID}">https://hcmf-ip/ucmon/certmgmt/csr/email/{appID}</a>	GET	
HCM-F 12.5 SU1	<a href="https://hcmf-ip/ucmon/certmgmt/csr/email">https://hcmf-ip/ucmon/certmgmt/csr/email</a>	POST	
<b>Upload Certificate</b> For more information on the parameters, see <a href="#">Upload Certificate, on page 24</a>			Changed
HCM-F 12.5	<a href="https://hcmf-ip/ucmon/certmgmt/upload">https://hcmf-ip/ucmon/certmgmt/upload</a>	POST	
HCM-F 12.5 SU1	<a href="https://hcmf-ip/ucmon/certmgmt/certificate">https://hcmf-ip/ucmon/certmgmt/certificate</a>	PUT	
<b>Reset Certificate</b> For more information on the parameters, see <a href="#">Reset Certificate Regeneration, on page 26</a>			Changed
HCM-F 12.5	<a href="https://hcmf-ip/ucmon/certmgmt/reset">https://hcmf-ip/ucmon/certmgmt/reset</a>	PUT	
HCM-F 12.5 SU1	<a href="https://hcmf-ip/ucmon/certmgmt/reset">https://hcmf-ip/ucmon/certmgmt/reset</a>	PUT	

Following is the resource summary for HCM-F Certificate Management for HCM-F 12.5 release:

URL (Base URL)	HTTPs Method			
	GET	POST	PUT	DEL
<a href="#">Regenerates the Specific Certificate, on page 10</a>				
<a href="https://hcmf-ip/ucmon/certmgmt/regenerate">https://hcmf-ip/ucmon/certmgmt/regenerate</a>	N	Y	N	N

## Regenerates the Specific Certificate

URL (Base URL)	HTTPs Method			
	GET	POST	PUT	DEL
<a href="#">Generate CSR for a Certificate, on page 12</a>				
<code>https://hcmf-ip/ucmon/certmgmt/csr</code>	N	Y	N	N
<a href="#">Download CSR from the Node, on page 17</a>				
<code>https://hcmf-ip/ucmon/certmgmt/csr</code>	Y	N	N	N
<a href="#">Email CSR, on page 21</a>				
<code>https://hcmf-ip/ucmon/certmgmt/csr/email/appID</code>	Y	N	N	N
<a href="#">Upload Certificate, on page 24</a>				
<code>https://hcmf-ip/ucmon/certmgmt/upload</code>	N	Y	N	N
<a href="#">Reset Certificate Regeneration, on page 26</a>				
<code>https://hcmf-ip/ucmon/certmgmt/reset</code>	N	N	Y	N

## Regenerates the Specific Certificate

### Request

HCM-F 12.5	POST <code>https://hcmf-ip/ucmon/certmgmt/regenerate/selfsigned</code>
HCM-F 12.5 SU1	POST <code>https://hcmf-ip/ucmon/certmgmt/certificate</code>

POST `https://hcmf-ip/ucmon/certmgmt/regenerate/selfsigned`

### Body Parameters



**Note** Regenerates the specific certificate based on the certificate type available on the UC Applications. This option is available only for Self Signed Certificates.

Code		Type		Values Allowed	Description
HCM-F 12.5	HCM-F 12.5 SU1	HCM-F 12.5	HCM-F 12.5 SU1		
certType	certificate	String		For the supported certificates, see <i>Cisco Hosted Collaboration Mediation Fulfillment Install and Configure Guide</i>	Type of certificate. <b>Note</b> This is required for Cisco Unified Communications Manager, Cisco Unified Communications Manager IM and Presence Service, Cisco Unity Connection, Cisco Emergency Responder (CER).
nodeId	appId				pkid of application node.

Code	Type	Values Allowed	Description
certType	String	For the supported certificates, see <i>Cisco Hosted Collaboration Mediation Fulfillment Install and Configure Guide</i>	Type of certificate. <b>Note</b> This is required for Cisco Unified Communications Manager, Cisco Unified Communications Manager IM and Presence Service, Cisco Unity Connection, Cisco Emergency Responder (CER).
nodeId	String		pkid of application node.

**Response**

Code	Description
200	{"status":"PASS/FAIL","message":"Detailed message", "jobId":"<pkid of job>"}
401	Unauthorized
500	{ "errorCode": "500 Internal Error", "errorMessage": "Invalid Status", "detailedInfo": "NA" }

Version	Code	Description
HCM-F 12.5	200	{"status":"PASS/FAIL","message":"Detailed message", "jobId":"<pkid of job>"}
HCM-F 12.5 SU1	200	{"status":"Success/Failed","message":"Detailed message", "jobId":"<pkid of job>"}
HCM-F 12.5	401	Unauthorized
HCM-F 12.5 SU1	401	Unauthorized
HCM-F 12.5	500	{ "errorCode": "500 Internal Error", "errorMessage": "Invalid Status", "detailedInfo": "NA"}
HCM-F 12.5 SU1	500	{ "errorCode": "500 Internal Error", "errorMessage": "Invalid Status", "detailedInfo": "NA"}

## Generate CSR for a Certificate

### Request

POST <https://hcmf-ip/ucmon/certmgmt/csr>

### Body Parameters



**Note** Creates CSR for the specific certificate type on the corresponding application. CSR Generation is for Expressway only.

This includes all parameters for CSR Generation in JSON format.

Name	Type	Values Allowed	Description
certificateType	String	For the supported certificates, see <i>Cisco Hosted Collaboration Mediation Fulfillment Install and Configure Guide</i>	Type of the certificate  <b>Note</b> Required for Cisco Unified Communications Manager, Cisco Unified Communications Manager IM and Presence Service, Cisco Unity Connection, Cisco Emergency Responder (CER), and Expressway.

Name	Type	Values Allowed	Description
appId	String		pkid of application node
organization	String		Represents the organizational name. Applicable only for Expressway.
organizationalUnit	String		Represents the organizational unit (OU) name.  For Expressway only one organizationalUnit is supported. Applicable only for Expressway.
province	String		Represents the organization state/Province. Applicable only for Expressway.
locality	String		Represents the organization location. Applicable only for Expressway.
additional_FQDNS	String		Specifies additional host names in the form of a list to be included in the certificate.  You can enter multiple values separated by comma for Expressway. Applicable only for Expressway.
country	String	Country Code to be set	Represents the organization country. Applicable only for Expressway.
digestAlgorithm	String	SHA-256/ SHA-384/ SHA-512	The Digest algorithm is used for the signature. Applicable only for Expressway.
keyLength	String	2048/4096	The number of bits is used for public and private key encryption. Applicable only for Expressway.
isCSROverwrite	String	Can be set to true/false.	Set it to true if you want to delete an existing CSR and create a new CSR. Applicable only for Expressway.

Name	Type	Values Allowed	Description
email	String		The email address to be included in the certificate. Applicable only for Expressway.
isCSRParametersConfigurable	String	Can be set to true/false.	Set it to true if you want to configure the parameters for CSR. This is applicable only for Expressway. The default value is set to False.  <b>Note</b> It is not supported to configure CSR parameters for UC applications.

Code		Type		Values Allowed	Description
HCM-F 12.5	HCM-F 12.5 SU1	HCM-F 12.5	HCM-F 12.5 SU1		
certificateType	certificate	String		For the supported certificates, see <i>Cisco Hosted Collaboration Mediation Fulfillment Install and Configure Guide</i>	Type of certificate.
appId	appId	String		Expressway ApplicationId.	pkid of application node.
organization	organization	String			Represents the organizational name.
organizationalUnit	organizationalUnit	String Array			Represents the organizational unit (OU) name.  For Expressway only one organizationalUnit is supported.
province	province	String			Represents the organization state or province.
locality	locality	String			Represents the organization location.

Code		Type		Values Allowed	Description
HCM-F 12.5	HCM-F 12.5 SU1	HCM-F 12.5	HCM-F 12.5 SU1		
additional_FQDNS	additional_FQDNS	StringArray			Specifies an alternate name for the host when you generate a web-server certificate. Multiple values can be provided as a list for Expressway.
country	country	String		Country code to be set	Represents the organization country.
digestAlgorithm	digestAlgorithm	String		SHA-256/ SHA-384/ SHA-512	The Digest algorithm is used for the signature.
keyLength	keyLength	String		2048/4096	The number of bits used for public and private key encryption.
isCSROverwrite	isCSROverwrite	String		Can be set to true/false.	Set it to true if there is a need to delete existing CSR and create a new CSR.
email	email	String			The email address to be included in the certificate.

### Response

Code	Scenario	Description
200	CSR Generation Job triggered successfully	{ "jobId": "JobId", "status": "Success", "message": "Generate CSR job triggered successfully" }
200	Invalid node Id	{ "jobId": "0", "status": "Success", "message": "Error occurred on fetching cluster info for nodeId." }
200	Invalid Certificate type	{ "jobId": "0", "status": "Success", "message": "Error occurred as invalid certificate type was passed" }

Code	Scenario	Description
200	With other ongoing requests	{ "jobId": "0", "status": "Success", "message": "Action could not be performed as there are other ongoing requests for the same Application node. " }
401	Authorization error	

Version	Code	Scenario	Description
HCM-F 12.5	200	CSR Generation Job triggered successfully	{ "jobId": "JobId", "status": "Success", "message": "Generate CSR job triggered successfully" }
HCM-F 12.5 SU1	200	CSR Generation Job triggered successfully	{ "jobId": JobId, "message": "Generate CSR job triggered successfully" }
HCM-F 12.5	200	Invalid node Id	{ "jobId": "0", "message": "Error occurred on fetching cluster info for nodeId." }
HCM-F 12.5 SU1	400	Invalid node Id	{ "jobId": "0", "message": "Error occurred on fetching cluster info for appId." }
HCM-F 12.5	200	Invalid Certificate type	{ "jobId": "0", "message": "Error occurred as invalid certificate type was passed" }
HCM-F 12.5 SU1	400	Invalid Certificate type	{ "jobId": "0", "message": "Error occurred as invalid certificate type was passed" }
HCM-F 12.5	NA	NA	NA



Version	Code	Scenario	Description
HCM-F 12.5 SU1	400	UC App node Id	{ "jobId": "0",  "message": "Generate CSR feature is not supported for the UCApps in HCM-F." }
HCM-F 12.5	200	With other ongoing requests	{ "jobId": "0", "message": "Action could not be performed as there are other ongoing equests for the same Application node. " }
HCM-F 12.5 SU1	200	With other ongoing requests	{ "jobId": "0", "message": "Error occurred as there are other ongoing requests for appId" }
HCM-F 12.5	401	Authorization error	
HCM-F 12.5 SU1			

## Download CSR from the Node

### Request

GET <https://hcmf-ip/ucmon/certmgmt/csr>

### Query Parameters

Enables you to download the CSR and save it in your local system.

Name	Type	Values Allowed	Description
appId	String	For the supported certificates, see <i>Cisco Hosted Collaboration Mediation Fulfillment Install and Configure Guide</i>	pkid of application node

Name	Type	Values Allowed	Description
certificate	String	For the supported certificates, see <i>Cisco Hosted Collaboration Mediation Fulfillment Install and Configure Guide</i>	Type of the certificate <b>Note</b> Required for Cisco Unified Communications Manager, Cisco Unified Communications Manager IM and Presence Service, Cisco Unity Connection, Cisco Emergency Responder (CER), and Expressway.

Code		Type		Values Allowed	Description
HCM-F 12.5	HCM-F 12.5 SU1	HCM-F 12.5	HCM-F 12.5 SU1		
certtype	certificate	String		For the supported certificates, see <i>Cisco Hosted Collaboration Mediation Fulfillment Install and Configure Guide</i>	Type of certificate. <b>Note</b> This is required for Cisco Unified Communications Manager, Cisco Unified Communications Manager IM and Presence Service, Cisco Unity Connection, Cisco Emergency Responder (CER).
nodeId	appId				pkid of application node.

Response

Code	Scenario	Description
200	CSR exists in App	CSR content is returned as part of the response body.
200	CSR does not exist in App	{ "message": "Error occurred as CSR does not exist in App" "status": "fail", }
400	Invalid Node Id	{ "message": "Error occurred on fetching cluster info for nodeId.", "status": "fail" }
400	Invalid Certificate type	{ "message": "Error occurred as invalid certificate type was passed", "status": "fail" }
500	With other ongoing requests	{ "message": "Action could not be performed as there are other ongoing requests for the same Application node.", "status": "fail" }

Version	Code	Scenario	Response
HCM-F 12.5	200	CSR exist in app	Return contents of CSR
HCM-F 12.5 SU1			{ "message": "-----BEGIN CERTIFICATE REQUEST----- \r\nMIIDSzCCAjMCAQAwYcxZAJBgNVBAYTAKLQMsCQYDVQQIEwJrYTEMMAoGA1UE\n\r\nBxMDYmduMQ4wDAYDVQQKEWVjaXNjbzELMAkGA1UECzMCU1AxDALBgNVBAsTBEND\r\n\r\nQ1UxEDEAOBgNVBAsTB2hjcyxDVEcxHzAdBgNVBAMTFmhjcy1sbngyLTEONi5jaXNj\r\n\r\nr\nby5jb20wgEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQ3JrzLuHSmeFJh\r\n\r\nnIpzBYiLM5pZRQZ2onpjyoo6geyZzbyvuv1MFXzKYJFVZaNgk9HXStk/ sssBzgmK16\r\n\r\nr\nSgkCUC77yaaMZHIUI4OdNBhoc+M2vt7y00RnpYfm2W3UCNjuTr8j6dr3dLJ5ZMOS\r\n\r\nnV8bMKiYxTPxXWxqcPuOXNsInb0UKn5Vz1rMwdw7WbssX9yYrMrL0KmurY9Ds+r7T\r\n\r\nr\nG6Kc9r51JytIJqdO2ers+PqvWfZwgjWttUvdL/qfTB0juvdy9L8bQUMFM+ZrYD314\r\n\r\nnolpxicp65g2/Mz8vIVnFlIIFHsiqSBkvhCWWMxI64+tWNhe5QUyf2FmGdwE2XBCZ\r\n\r\nr\n/0IENRkPqgMBAAGgfjB8BjkgqkiG9w0BCQ4xbzBtMB0GA1UgJQQMBQGCCsGAQUF\r\n\r\nnBwMBBggrBgEFBQcDAjAOBgNVHQ8BAf8EBAMCBLAwPAYDVR0RAQH/BDIwMIiWAGNz\r\n\r\nr\nnLWxueDITMIQ1InNpc2NvLmNvbYiWAGNzLWxueDITMIQ2LnNpc2NvLmNvbTANBgk\r\n\r\nr\nnhkiG9w0BAQsFAAOCAQEALeIO89RjI3fCFANKGLKfXbxrfqnmFi4QuGbrNb3TDRO4\r\n\r\nr\nn+ERWmB01TlMk2YO7EnKkbUelM3QhLENO/ZTPP6m75rsTVE/mt8JuIhpH7vud8u\r\n\r\nnwtYb+51KbyQG8FSzK51qJIBZYksiXSGlivrSJBdQwFwn4tTrARDKHcbC1rTLHtxm\r\n\r\nr\nnz23c+tm31U2Aopz9IBnd8ZitJVOBB/DhsC3JG+J6dz4bguMc+I8fsOHGn9QSWjov\r\n\r\nntS5ppvPvtTRI+Muo9uHclEf/tyqXWTLHBY+0msDL9f67sySRau8NSZ6h457wSks\r\n\r\nr\nnNUAv15Z/qHvWOqhVUZ2J7Rt/E5+4c+dimA2dGM6aow==\r\n\r\n-----END CERTIFICATE REQUEST-----\r\n\r\n", "status": "Success" }

Version	Code	Scenario	Response
HCM-F 12.5	200	CSR does not exist in App	{ "status": "fail", "message": "Error occurred as CSR does not exist in App" }
HCM-F 12.5 SU1			{ "status": "Failed", "message": "Error occurred as CSR does not exist in the App" }
HCM-F 12.5	400	Invalid Node Id	{ "message": "Error occurred on fetching cluster info for nodeId.", "status": "fail" }
HCM-F 12.5 SU1			{ "message": "Error occurred on fetching cluster info for nodeId.", "status": "Failed" }
HCM-F 12.5	400	Invalid Certificate type	{ "message": "Error occurred as invalid certificate type was passed", "status": "fail" }
HCM-F 12.5 SU1			{ "message": "Error occurred as invalid certificate type was passed", "status": "Failed" }
HCM-F 12.5	NA	NA	NA
HCM-F 12.5 SU1	404	CSR does not exist	{ "message": "Error occurred as CSR does not exist in the App", "status": "Failed" }
HCM-F 12.5	500	With other ongoing requests	{ "message": "Action could not be performed as there are other ongoing equests for the same Application node.", "status": "fail" }
HCM-F 12.5 SU1			{ "message": "Error occurred as there are other ongoing requests for appId", "status": "Failed" }

# Email CSR

## Request

HCM-F 12.5	GET <code>https://hcmf-ip/ucmon/certmgmt/csr/email/appID</code>
HCM-F 12.5 SU1	POST <code>https://hcmf-ip/ucmon/certmgmt/csr/email</code>

POST `https://hcmf-ip/ucmon/certmgmt/csr/email`

## Path Parameters

Enables you to send email notification to the configured Email IDs and allows you to add Email addresses.

Email CSR for the specific certificate type from the node.

Name	Type	Values Allowed	Description
certificate	String	For the supported certificates, see <i>Cisco Hosted Collaboration Mediation Fulfillment Install and Configure Guide</i>	Type of the certificate <b>Note</b> Required for Cisco Unified Communications Manager, Cisco Unified Communications Manager IM and Presence Service, Cisco Unity Connection, Cisco Emergency Responder (CER), and Expressway.
appId	Integer		pkid of application node
emails			Additional email Ids separated by comma to which CSR is sent through email. <b>Note</b> Email notification is sent to the configured email address.

### Query Parameters

Enables you to send email notification to the configured Email IDs and allows you to add Email addresses.

Email CSR for the specific certificate type from the node.

Code		Type		Values Allowed	Description
HCM-F 12.5	HCM-F 12.5 SU1	HCM-F 12.5	HCM-F 12.5 SU1		
certType	certificate	String		For the supported certificates, see <i>Cisco Hosted Collaboration Fulfillment Install and Configure Guide</i>	Type of certificate. <b>Note</b> This is required for Cisco Unified Communications Manager, Cisco Unified Communications Manager IM and Presence Service, Cisco Unity Connection, Cisco Emergency Responder (CER).
appId	appId	Integer			pkid of application node.
emails	emails	String			Email Ids to which CSR should be sent via email.

### Response

Code	Scenario	Description
200	CSR Email Job triggered successfully	{ "jobId": <i>JobId</i> , "status": "Success", "message": "Email CSR job triggered successfully" }
200	Invalid node Id	{ "jobId": "0", "status": "Success", "message": "CertMgmt is unable to get Cluster for the given App PkID" }
200	Invalid Certificate type	{ "jobId": "0", "status": "Success", "message": "Error occurred as invalid certificate type was passed" }

Code	Scenario	Description
200	With other ongoing requests	{ "jobId": "0", "status": "Success", "message": "Action could not be performed as there are other ongoing equests for the same Application node." }
401	Authorization error	

Version	Code	Scenario	Description
HCM-F 12.5	200	CSR Email Job triggered successfully	{ "jobId": <JobId>, "message": "Email CSR job triggered successfully" }
HCM-F 12.5 SU1			{ "jobId": <JobId>, "message": "Email CSR job triggered successfully" }
HCM-F 12.5	200	Invalid node Id	{ "jobId": "0", "message": "CertMgmt is uanble to get Cluster for the given App PkID" }
HCM-F 12.5 SU1			{ "jobId": "0", "message": "CertMgmt is uanble to get Cluster for the given App PkID" }
HCM-F 12.5	200	Invalid Certificate type	{ "jobId": "0", "message": "Error occurred as invalid certificate type was passed" }
HCM-F 12.5 SU1			{ "jobId": "0", "message": "Error occurred as invalid certificate type was passed" }
HCM-F 12.5	200	With other ongoing requests	{ "jobId": "0", "message": "Action could not be performed as there are other ongoing equests for the same Application node." }
HCM-F 12.5 SU1			{ "jobId": "0", "message": "Error occurred as there are other ongoing requests for appId" }

Version	Code	Scenario	Description
HCM-F 12.5 SU1	401		Authorization error
HCM-F 12.5 SU1			

## Upload Certificate

### Request

HCM-F 12.5	PUT <a href="https://hcmf-ip/ucmon/certmgmt/upload">https://hcmf-ip/ucmon/certmgmt/upload</a>
HCM-F 12.5 SU1	PUT <a href="https://hcmf-ip/ucmon/certmgmt/certificate">https://hcmf-ip/ucmon/certmgmt/certificate</a>

### Body Parameters

Enables you to upload the certificate, restarts services, and re-discovers the latest status.

Name	Type	Description
file	String	Certificate type to be uploaded.
appId	String	pkid of the application.
certificate	String	Type of the certificate <b>Note</b> Required for Cisco Unified Communications Manager, Cisco Unified Communications Manager IM and Presence Service, Cisco Unity Connection, Cisco Emergency Responder (CER), and Expressway.
filename	String	File name to be displayed on the logs or screen.
type	String	Name of the type of certificate. For example, own or trust.



Code		Type		Values Allowed	Description
HCM-F 12.5	HCM-F 12.5 SU1	HCM-F 12.5	HCM-F 12.5 SU1		
certType	certificate	String		For the supported certificates, see <i>Cisco Hosted Collaboration Mediation Fulfillment Install and Configure Guide</i>	Type of certificate. <b>Note</b> This is required for Cisco Unified Communications Manager, Cisco Unified Communications Manager IM and Presence Service, Cisco Unity Connection, Cisco Emergency Responder (CER).
nodeId	appId				pkid of application node.
pemfile	file	multipart/formdata			signed CSR file
filename	filename	String			filename of the signed CSR file
NA	type	String			type of certificate - own or trust

**Response**

```
{
  "jobId": "JobId",
  "status": "Success",
  "message": "Upload certificate job triggered successfully"
}

{
  "message": "Job submission successful",
  "jobId": "28",
  "status": "Success"
}
```

Code	Scenario	Description
200	Certificate upload Job is submitted	{ "jobId": "JobId", "status": "Success", "message": "Upload cetificate job triggered successfully" }
400	Invalid applId	{ "jobId": "0", "status": "Failed", "message": "Error occurred on fetching cluster info for nodeId." }
400	Certificate regeneration reset failed as there is an ongoing upload request	{ "jobId": "JobId", "status": "Failed", "message": "Action could not be performed as there are other ongoing equests for the same Application node." }

Version	Code	Scenario	Description
HCM-F 12.5	200	Certificate upload Job is submitted	{"status":"success"}
HCM-F 12.5 SU1			
HCM-F 12.5	400	Invalid nodeId	{"status":"fail", msg:"Error occurred on fetching cluster info for nodeId."}
HCM-F 12.5 SU1	400	Invalid appId	{"status":"fail", msg:"Error occurred on fetching cluster info for appId."}
HCM-F 12.5	400	Certificate regeneration reset failed as there is an ongoing upload request	{"status":"fail", msg:"Action could not be performed as there are other ongoing equests for the same Application node."}
HCM-F 12.5 SU1			{"status":"fail", msg:"Error occurred as there are other ongoing requests for appId"}

## Reset Certificate Regeneration

### Request

PUT <https://hcmf-ip/ucmon/certmgmt/certificate/reset>

### Query Parameter

Enables you to switch between a self-signed and CA signed certificate regeneration workflow.

Code		Type		Description
HCM-F 12.5	HCM-F 12.5 SU1	HCM-F 12.5	HCM-F 12.5 SU1	
NodeID	appId	String		appId to reset Certificate regeneration flow.
certtype	certificate	String		Certificate type for which we have to reset Certificate regeneration flow on a particular node.

Code	Type	Description
appId	String	appId to reset Certificate regeneration flow.
certificate	String	Certificate type to reset certificate regeneration flow on a particular node.

**Response**

Code	Description	Response
200	Certificate regeneration reset	{ "status": "success" }
400	Certificate regeneration reset failed as there is an ongoing upload request	{ "message": "Error occurred as there are other ongoing requests for nodeId", "status": "fail" }

Version	Code	Scenario	Response
HCM-F 12.5	200	Certificate regeneration reset	{ "message": "Reset is successful ", "status": "Success" }
HCM-F 12.5 SU1			{ "status": "success" }
HCM-F 12.5	400	Certificate regeneration reset failed as there is an ongoing upload request	{ "message": "Error occurred as there are other ongoing requests for nodeId", "status": "fail" }
HCM-F 12.5 SU1			{ "message": "Error occurred as there are other ongoing requests for appId", "status": "fail" }

## Scope of API for Upgrade Toolkit REST Web Service

This is a web interface for the Upgrade Toolkit REST Web Service. This web service contains Read APIs to view data in the Upgrade Checks, Upgrade Comparison, and Phone Compatibility Checks. The REST APIs URL fetches the report for customers.



**Note** You must specify the mandatory headers for using these API. See [Specifying Mandatory API Headers](#)

Following is the resource summary for HCM-F Upgrade Toolkit:

URL (Base URL)	HTTPs Method				UC Application/Cluster
	GET	POST	PUT	DEL	
<a href="#">Initiate Collection of Deprecated Phone Per Customer, on page 29</a>					Unified CM
POST <code>https://HCM-F_Server_IPaddress/ucmon/checks/Phones/Customer/</code>	N	Y	N	N	
<a href="#">Initiate Collection of Deprecated Phone Per Cluster, on page 29</a>					Unified CM
POST <code>https://HCM-F_Server_IPaddress/ucmon/checks/Phones/</code>	N	Y	N	N	
<a href="#">Get Deprecated Phone Per Cluster, on page 31</a>					Unified CM
GET <code>https://HCM-F_Server_IPaddress/ucmon/checks/Phones/{pkid_cluster}</code>	Y	N	N	N	
<a href="#">Get Deprecated Phone Per Customer, on page 30</a>					Unified CM
GET <code>https://HCM-F_Server_IPaddress/ucmon/checks/Phones/customer/{pkid_cluster}</code>	Y	N	N	N	
<a href="#">Perform Checks, on page 32</a>					Unified CM, Unity Connection, IM and Presence
POST <code>https://HCM-F_Server_IPaddress/ucmon/checks/{clusterID}</code>	N	Y	N	N	
<a href="#">Checks Result, on page 33</a>					Unified CM, Unity Connection, IM and Presence
GET <code>https://HCM-F_Server_IPaddress/ucmon/checks/{clusterID}</code>	Y	N	N	N	
<a href="#">Take Snapshot, on page 36</a>					Unified CM, Unity Connection, IM and Presence
POST <code>https://HCM-F_Server_IPaddress/ucmon/checks/snapshot/{clusterId}</code>	N	Y	N	N	
<a href="#">Get Snapshot, on page 36</a>					Unified CM, Unity Connection, IM and Presence
GET <code>https://HCM-F_Server_IPaddress/ucmon/checks/snapshot/{clusterId}</code>	Y	N	N	N	

URL (Base URL)	HTTPs Method				UC Application/Cluster
	GET	POST	PUT	DEL	
<a href="#">Compare Check, on page 43</a>					Unified CM, Unity Connection, IM and Presence
GET <a href="https://HCM-F_Server_IPaddress/ucmon/checks/compare/{clusterId}">https://HCM-F_Server_IPaddress/ucmon/checks/compare/{clusterId}</a>	Y	N	N	N	

## Initiate Collection of Deprecated Phone Per Customer

### Request

POST [https://HCM-F\\_Server\\_IPaddress/ucmon/checks/Phones/Customer/](https://HCM-F_Server_IPaddress/ucmon/checks/Phones/Customer/)

### Parameter

Name	Type	Description
customerId	String	pkid of the customer
upgradeVersion	String	Type version

### Example

```
{
  "customerId":2,
  "upgradeVersion":"VERSION_11_5"
}
```

### Response

Code	Description
200	Success
401	Invalid credentials
404	Invalid URL
500	Invalid Customer ID and Version

### Example

```
{
  "jobId": 20
}
```

## Initiate Collection of Deprecated Phone Per Cluster

### Request

POST [https://HCM-F\\_Server\\_IPaddress/ucmon/checks/Phones/](https://HCM-F_Server_IPaddress/ucmon/checks/Phones/)

### Parameter

Name	Type	Description
clusterId	String	pkid of the cluster
upgradeVersion	String	Type version

**Example**

```
{
  "clusterId":2,
  "upgradeVersion":"VERSION_11_5"
}
```

**Response**

Code	Description
200	Success
401	Invalid credentials
404	Invalid URL
500	Invalid Cluster ID and Version

**Example**

```
{
  "jobId": 20
}
```

## Get Deprecated Phone Per Customer

**Request**

GET [https://HCM-F\\_Server\\_IPaddress/ucmon/checks/Phones/customer/{pkid\\_cluster}](https://HCM-F_Server_IPaddress/ucmon/checks/Phones/customer/{pkid_cluster})

**Parameter**

Name	Type	Description
pkid_cluster	String	Unique ID of cluster in database.

**Response**

Code	Description
200	Success
401	Invalid credentials
404	Invalid URL
500	Invalid Cluster ID

**Example**

```
[{
  "customerName": "Customer-1",
  "clusterList": [{
    "clusterName": "CUCM-CLUSTER1",
    "timestamp": "08/30/2018 01:26:21",
    "phoneResponse": {
      "timestamp": "08/30/2018 01:26:21",
      "deprecatedPhonesList": [{
        "devicemodel": "Cisco 30 SP+",
        "username": null,
        "devicename": "SEP111111111115"
      },
      {
        "devicemodel": "Cisco 12 S",
        "username": "user001@cisco.com",
        "devicename": "SEP111111111111"
      },
      {
        "devicemodel": "Cisco 12 SP",
        "username": "user002@cisco.com",
        "devicename": "SEP111111111112"
      },
      {
        "devicemodel": "Cisco 12 SP+",
        "username": "user003@cisco.com",
        "devicename": "SEP111111111113"
      },
      {
        "devicemodel": "Cisco 30 VIP",
        "username": "user003@cisco.com",
        "devicename": "SEP111111111114"
      }
    ]
  }
}]
```

## Get Deprecated Phone Per Cluster

**Request**

GET [https://HCM-F\\_Server\\_IPAddress/ucmon/checks/Phones/{pkid\\_cluster}](https://HCM-F_Server_IPAddress/ucmon/checks/Phones/{pkid_cluster})

**Parameter**

Name	Type	Description
pkid_cluster	String	pkid of the cluster.

**Response**

Code	Description
200	Success
401	Invalid credentials

Code	Description
404	Invalid URL
500	Invalid Cluster ID

### Example

```
[{
  "customerName": "Customer-1",
  "clusterList": [{
    "clusterName": "CUCM-CLUSTER1",
    "timestamp": "08/30/2018 01:26:21",
    "phoneResponse": {
      "timestamp": "08/30/2018 01:26:21",
      "deprecatedPhonesList": [{
        "devicemodel": "Cisco 30 SP+",
        "username": null,
        "devicename": "SEP111111111115"
      },
      {
        "devicemodel": "Cisco 12 S",
        "username": "user001@cisco.com",
        "devicename": "SEP111111111111"
      },
      {
        "devicemodel": "Cisco 12 SP",
        "username": "user002@cisco.com",
        "devicename": "SEP111111111112"
      },
      {
        "devicemodel": "Cisco 12 SP+",
        "username": "user003@cisco.com",
        "devicename": "SEP111111111113"
      },
      {
        "devicemodel": "Cisco 30 VIP",
        "username": "user003@cisco.com",
        "devicename": "SEP111111111114"
      }
    ]
  }
}]
}]
```

## Perform Checks

### Request

POST [https://HCM-F\\_Server\\_IPAddress/ucmon/checks/{clusterID}](https://HCM-F_Server_IPAddress/ucmon/checks/{clusterID})

### Parameter

Name	Type	Method Type	Part of Request	Description
clusterId	int		URI	Pkid of the cluster



Name	Type	Method Type	Part of Request	Description
checksList		x-www-form-urlencoded	Body	<b>List of checks supported:</b> "getDiskUsage", "getInstalledCops", "getDBReplicationStatus", "getLDAPDetails", "runDiagnosticsTest", "getPhoneDetail", "getCTIEndPoints", "getEnterpriseParams", "getServiceList", "getDRSStatus", "getClusterNetworkConnectivity", "getExternalNetworkConnectivity", "getVcenterInfo", "getUCAppVersion"

**Response**

Code	Description
200	Success
401	Unauthorized

**Example**

```
{
  "jobId": "87",
  "message": "Job created successfully for execution of the selected checks"
}
```

## Checks Result

**Request**

```
GET https://HCM-F_Server_IPaddress/ucmon/checks/{clusterID}
```

**Parameter**

Name	Type	Description
clusterId	int	Pkid of the cluster

**Response**

Code	Description
200	Success

**Example**

```
[
  {
```

```

"status": "SUCCESS",
"lastExecutionTime": 1535709430000,
"recommendedAction": "",
"subCheckDeviceMap": {
  "getUCAppVersion": {
    "cucm-c001-pub": {
      "rawData": "",
      "rawInput": "",
      "summaryData": "11.5.1.13900-52",
      "summaryTable": [
        [
          "App_Version"
        ],
        [
          "11.5.1.13900-52"
        ]
      ],
      "errorMessage": null,
      "recommendation": null,
      "success": true,
      "pub": true
    },
    "cucm-c001-sub": {
      "rawData": "",
      "rawInput": "",
      "summaryData": "11.5.1.13900-52",
      "summaryTable": [
        [
          "App_Version"
        ],
        [
          "11.5.1.13900-52"
        ]
      ],
      "errorMessage": null,
      "recommendation": null,
      "success": true,
      "pub": false
    }
  },
  "clusterNodesCount": {
    "cucm-c001-pub": {
      "rawData": "200.1.1.12 cucm-c001-sub.stb.com cucm-c001-sub Subscriber
callmanager DBSub authenticated using TCP since Thu Aug 30 12:45:21 2018\r\n200.1.1.11
cucm-c001-pub.stb.com cucm-c001-pub Publisher callmanager DBPub authenticated\r\n\r\nServer
Table (processnode) Entries\r\n-----\r\ncucm-c001-pub
\r\ncucm-c001-sub \r\n",
      "rawInput": "show network cluster",
      "summaryData": "Node Count :2",
      "summaryTable": [
        [
          "Nodes_Count"
        ],
        [
          "2"
        ]
      ],
      "errorMessage": null,
      "recommendation": null,
      "success": true,
      "pub": true
    }
  }
},

```

```

        "lastSuccessfulExecutionTime": null,
        "checkname": "getUCAppVersion",
        "description": "Cluster Version Information",
        "errorMsg": null
    },
    {
        "status": "FAILURE",
        "lastExecutionTime": 1535709430000,
        "recommendedAction": "cucm-c001-pub : Check whether configurations are correct and
VCenterSync and UCSMSync are running.\ncucm-c001-sub : Check whether configurations are
correct and VCenterSync and UCSMSync are running.\n",
        "subCheckDeviceMap": {
            "getVcenterInfo": {
                "cucm-c001-pub": {
                    "rawData": "",
                    "rawInput": "",
                    "summaryData": "VCenter Version: UNKNOWN\nEsxi Version: UNKNOWN\nNVM
Hardware Version: UNKNOWN\nBlade Model: UNKNOWN\nVMWare tools Running: false",
                    "summaryTable": [
                        [
                            "vCenterInfo"
                        ],
                        [
                            "VCenter Version: UNKNOWN\nEsxi Version: UNKNOWN\nVM Hardware
Version: UNKNOWN\nBlade Model: UNKNOWN\nVMWare tools Running: false"
                        ]
                    ],
                    "errorMessage": "No Data Received.",
                    "recommendation": "Check whether configurations are correct and
VCenterSync and UCSMSync are running.",
                    "success": false,
                    "pub": true
                },
                "cucm-c001-sub": {
                    "rawData": "",
                    "rawInput": "",
                    "summaryData": "VCenter Version: UNKNOWN\nEsxi Version: UNKNOWN\nNVM
Hardware Version: UNKNOWN\nBlade Model: UNKNOWN\nVMWare tools Running: false",
                    "summaryTable": [
                        [
                            "vCenterInfo"
                        ],
                        [
                            "VCenter Version: UNKNOWN\nEsxi Version: UNKNOWN\nVM Hardware
Version: UNKNOWN\nBlade Model: UNKNOWN\nVMWare tools Running: false"
                        ]
                    ],
                    "errorMessage": "No Data Received.",
                    "recommendation": "Check whether configurations are correct and
VCenterSync and UCSMSync are running.",
                    "success": false,
                    "pub": false
                }
            }
        },
        "lastSuccessfulExecutionTime": null,
        "checkname": "getVcenterInfo",
        "description": "VCenter and ESXi and UCS Details",
        "errorMsg": null
    },
    {
        "status": "SUCCESS",
        "lastExecutionTime": 1535709430000,
        "recommendedAction": null,

```

```

    "subCheckDeviceMap": {
        ...

    "lastSuccessfulExecutionTime": null,
    "checkname": "getDRSStatus",
    "description": "Disaster Recovery System Backup",
    "errorMsg": null
    }
}

```



**Note** The preceding result runs to pages and is truncated for accommodating it on a page.

## Take Snapshot

### Request

POST [https://HCM-F\\_Server\\_IPaddress/ucmon/checks/snapshot/{clusterId}](https://HCM-F_Server_IPaddress/ucmon/checks/snapshot/{clusterId})

### Parameter

Name	Type	Description
clusterId	int	Pkid of the cluster

### Response

Code	Description
200	Success
401	Unauthorized

### Example

```
{ "response_data" :The current status of all the checks have been saved successfully}
```

## Get Snapshot

### Request

GET [https://HCM-F\\_Server\\_IPaddress/ucmon/checks/snapshot/{clusterId}](https://HCM-F_Server_IPaddress/ucmon/checks/snapshot/{clusterId})

### Parameter

Name	Type	Description
clusterId	int	Pkid of the cluster

### Response

Code	Description
200	Success
401	Unauthorized

### Example

```
[
  {
    "status": null,
    "lastExecutionTime": null,
    "recommendedAction": null,
    "subCheckDeviceMap": {},
    "lastSuccessfulExecutionTime": null,
    "checkname": "getUCAppVersion",
    "description": "Cluster Version Information",
    "errorMsg": null
  },
  {
    "status": null,
    "lastExecutionTime": null,
    "recommendedAction": null,
    "subCheckDeviceMap": {},
    "lastSuccessfulExecutionTime": null,
    "checkname": "getVcenterInfo",
    "description": "VCenter and ESXi and UCS Details",
    "errorMsg": null
  },
  {
    "status": null,
    "lastExecutionTime": null,
    "recommendedAction": null,
    "subCheckDeviceMap": {},
    "lastSuccessfulExecutionTime": null,
    "checkname": "getClusterNetworkConnectivity",
    "description": "Health of Network within the Cluster",
    "errorMsg": null
  },
  {
    "status": null,
    "lastExecutionTime": null,
    "recommendedAction": null,
    "subCheckDeviceMap": {},
    "lastSuccessfulExecutionTime": null,
    "checkname": "getExternalNetworkConnectivity",
    "description": "Network Connectivity(DNS, SMTP)",
    "errorMsg": null
  },
  {
    "status": "FAILURE",
    "lastExecutionTime": 1535706393000,
    "recommendedAction": " Please check replication status though CLI : utils
dbreplication status ",
    "subCheckDeviceMap": {
      "NodeReplication": {
        "cup-c004-pub": {
          "rawData": "[ \r\n ----- utils dbreplication status
----- \r\n\r\n\r\n\r\nStatus cannot be performed when replication is down on the
publisher, or on a cluster with a single active node or a CUCMBE 5000 node; aborting
replication status check operation\r\n\r\n\r\n\r\nUse this command to see the output - file
```



```

        \rtest - raid                : Passed\t\t\t \r\n\rtest -
system_info          : 60 second(s) left\rtest - system_info      : 59 second(s) left\rtest
- system_info       : 58 second(s) left\rtest - system_info      : 57 second(s)
left\rtest - system_info      : 56 second(s) left\rtest - system_info      : 55
second(s) left\rtest - system_info      : 0 second(s) left\r
        \rtest - system_info        : Passed (Collected system information
in diagnostic log)\r\n\rtest - ntp_reachability      : 5 second(s) left\rtest -
ntp_reachability     : 0 second(s) left\r
\rtest - ntp_reachability     : Passed\r\n\rtest - ntp_clock_drift      : 5 second(s) left\rtest
- ntp_clock_drift     : 0 second(s) left\r
        \rtest - ntp_clock_drift     : Passed\r\n\rtest - ntp_stratum        : 5 second(s)
left\rtest - ntp_stratum      : 0 second(s) left\r
        \rtest - ntp_stratum        : Passed\r\nskip - sdi_fragmentation    : This
module must be run directly and off hours\r\nskip - sdi_fragmentation    : This module must
be run directly and off hours\r\n\rtest - ipv6_networking      : 60 second(s) left\rtest -
ipv6_networking       : 0 second(s) left\r
\rtest - ipv6_networking      : Passed\r\n\r\nDiagnostics Completed\r\n\r\n\r\n The final
output will be in Log file: platform/log/diag4.log\r\n\r\n\r\n Please use 'file view activelog
platform/log/diag4.log' command to see the output\r\n\r\n\r\n",
        "rawInput": "utils diagnose test",
        "summaryData": "{raid=Passed, tomcat_threads=Passed,
validate_network=Passed, service_manager=Passed, tomcat_connectors=Passed,
ntp_reachability=Passed, ipv6_networking=Passed, sdi_fragmentation=Skipped, This module
must be run directly and off hours, disk_space=Passed (available: 7552 MB, used: 6377 MB),
tomcat_sessions=Passed, tomcat_memory=Passed, tomcat_deadlocks=Passed,
ntp_clock_drift=Passed, disk_files=Skipped, This module must be run directly and off hours,
tomcat_heapdump=Skipped, This module must be run directly and off hours, tomcat=Passed,
ntp_stratum=Passed, tomcat_keystore=Passed, system_info=Passed (Collected system information
in diagnostic log), sdi_fragmentation=Skipped, This module must be run directly and off
hours}",
        "summaryTable": [
            [
                "Test",
                "Result"
            ],
            [
                "raid",
                "Passed"
            ],
            [
                "tomcat_threads",
                "Passed"
            ],
            [
                "validate_network",
                "Passed"
            ],
            [
                "service_manager",
                "Passed"
            ],
            [
                "tomcat_connectors",
                "Passed"
            ],
            [
                "ntp_reachability",
                "Passed"
            ],
            [
                "ipv6_networking",
                "Passed"
            ]
        ]
    ]

```

```

        "sdl_fragmentation",
        "Skipped, This module must be run directly and off hours"
    ],
    [
        "disk_space",
        "Passed (available: 7552 MB, used: 6377 MB)"
    ],
    [
        "tomcat_sessions",
        "Passed"
    ],
    [
        "tomcat_memory",
        "Passed"
    ],
    [
        "tomcat_deadlocks",
        "Passed"
    ],
    [
        "ntp_clock_drift",
        "Passed"
    ],
    [
        "disk_files",
        "Skipped, This module must be run directly and off hours"
    ],
    [
        "tomcat_heapdump",
        "Skipped, This module must be run directly and off hours"
    ],
    [
        "tomcat",
        "Passed"
    ],
    [
        "ntp_stratum",
        "Passed"
    ],
    [
        "tomcat_keystore",
        "Passed"
    ],
    [
        "system_info",
        "Passed (Collected system information in diagnostic log)"
    ],
    [
        "sdi_fragmentation",
        "Skipped, This module must be run directly and off hours"
    ]
    ],
    "errorMessage": null,
    "recommendation": null,
    "success": true,
    "pub": true
}
}
},
"lastSuccessfulExecutionTime": null,
"checkname": "runDiagnosticsTest",
"description": "CLI Diagnostics",
"errorMsg": null
},

```



```

{
  "status": null,
  "lastExecutionTime": null,
  "recommendedAction": null,
  "subCheckDeviceMap": {},
  "lastSuccessfulExecutionTime": null,
  "checkname": "getCertStatus",
  "description": "Certificate Status Information",
  "errorMsg": null
},
{
  "status": null,
  "lastExecutionTime": null,
  "recommendedAction": null,
  "subCheckDeviceMap": {},
  "lastSuccessfulExecutionTime": null,
  "checkname": "getServiceList",
  "description": "List of Services",
  "errorMsg": null
},
{
  "status": null,
  "lastExecutionTime": null,
  "recommendedAction": null,
  "subCheckDeviceMap": {},
  "lastSuccessfulExecutionTime": null,
  "checkname": "getEnterpriseParams",
  "description": "Enterprise Service Parameters",
  "errorMsg": null
},
{
  "status": null,
  "lastExecutionTime": null,
  "recommendedAction": null,
  "subCheckDeviceMap": {},
  "lastSuccessfulExecutionTime": null,
  "checkname": "getDiskUsage",
  "description": "Available Common Partition Space",
  "errorMsg": null
},
{
  "status": "SUCCESS",
  "lastExecutionTime": 1535702576000,
  "recommendedAction": null,
  "subCheckDeviceMap": {
    "getInstalledCops": {
      "cup-c004-pub": {
        "rawData": "Active Master Version: 9.1.1.20000-5\r\nActive Version
Installed Software Options: \r\nciscocm.version3-keys.cop\r\n",
        "rawInput": "show version active",
        "summaryData": "[ciscocm.version3-keys.cop]",
        "summaryTable": [
          [
            "COPsInstalled"
          ],
          [
            "ciscocm.version3-keys.cop"
          ]
        ],
        "errorMessage": null,
        "recommendation": null,
        "success": true,
        "pub": true
      }
    }
  }
}

```

```

    },
    "lastSuccessfulExecutionTime": null,
    "checkname": "getInstalledCops",
    "description": "Installed Cop files",
    "errorMsg": null
  },
  {
    "status": "SUCCESS",
    "lastExecutionTime": 1535696721000,
    "recommendedAction": null,
    "subCheckDeviceMap": {
      "getDRSStatus": {
        "cup-c004-pub": {
          "rawData": "Status: SUCCESS :Backup Completed...\r\nTar Filename:
2018-08-23-03-09-32.tar\r\nStorage Location: NETWORK\r\nOperation: backup\r\nPercentage
Complete: 100\r\nIM_AND_PRESENCE CUP-C004-PUB DB SUCCESS Thu Aug 23 03:09:32 PDT
2018 activelog/platform/drf/log/2018-08-23-03-09-32_b_cup-c004-pub_im_and_presence_db.log
\r\nIM_AND_PRESENCE CUP-C004-PUB PREFS SUCCESS Thu Aug 23 03:09:42 PDT 2018
activelog/platform/drf/log/2018-08-23-03-09-32_b_cup-c004-pub_im_and_presence_prefs.log
\r\nIM_AND_PRESENCE CUP-C004-PUB TCT SUCCESS Thu Aug 23 03:09:43 PDT 2018
activelog/platform/drf/log/2018-08-23-03-09-32_b_cup-c004-pub_im_and_presence_tct.log
\r\nIM_AND_PRESENCE CUP-C004-PUB CDPAGT SUCCESS Thu Aug 23 03:09:44 PDT 2018
activelog/platform/drf/log/2018-08-23-03-09-32_b_cup-c004-pub_im_and_presence_cdpagt.log
\r\nIM_AND_PRESENCE CUP-C004-PUB XCP SUCCESS Thu Aug 23 03:09:45 PDT 2018
activelog/platform/drf/log/2018-08-23-03-09-32_b_cup-c004-pub_im_and_presence_xcp.log
\r\nIM_AND_PRESENCE CUP-C004-PUB PLATFORM SUCCESS Thu Aug 23 03:09:46 PDT 2018
activelog/platform/drf/log/2018-08-23-03-09-32_b_cup-c004-pub_im_and_presence_platform.log
\r\nIM_AND_PRESENCE CUP-C004-PUB CLM SUCCESS Thu Aug 23 03:09:47 PDT 2018
activelog/platform/drf/log/2018-08-23-03-09-32_b_cup-c004-pub_im_and_presence_clm.log
\r\nIM_AND_PRESENCE CUP-C004-PUB SYSLOGAGT SUCCESS Thu Aug 23 03:09:47 PDT 2018
activelog/platform/drf/log/2018-08-23-03-09-32_b_cup-c004-pub_im_and_presence_syslogagt.log
\r\n",
          "rawInput": "utils disaster_recovery status backup",
          "summaryData": "The Latest DRS Backup is successfull.Backup
information:\nBackupFilename:2018-08-23-03-09-32.tar\tFeatures:[IM_AND_PRESENCE]\tBackupStatus:SUCCESS
:Backup Completed... Percentage Complete: 100",
          "summaryTable": [
            [
              "BackupFilename",
              "Features",
              "BackupStatus"
            ],
            [
              "2018-08-23-03-09-32.tar",
              "IM_AND_PRESENCE",
              "SUCCESS :Backup Completed... Percentage Complete: 100"
            ]
          ],
          "errorMessage": null,
          "recommendation": null,
          "success": true,
          "pub": true
        }
      }
    }
  },
  "lastSuccessfulExecutionTime": null,
  "checkname": "getDRSStatus",
  "description": "Disaster Recovery System Backup",
  "errorMsg": null
}
]

```

## Compare Check

### Request

GET [https://HCM-F\\_Server\\_IPAddress/ucmon/checks/compare/{clusterId}](https://HCM-F_Server_IPAddress/ucmon/checks/compare/{clusterId})

### Parameter

Name	Type	Description
clusterId	int	Pkid of the cluster

### Response

Code	Description
200	Success
401	Unauthorized

### Example

```
[
  {
    "status": "FAILURE",
    "reason": "Comparison failed. Check Application Specific Status",
    "errorMsg": "",
    "preCheckResult": {
      "status": "FAILURE",
      "lastExecutionTime": 1535970246000,
      "recommendedAction": "Internal Error, Check the responses received from
Application",
      "subCheckDeviceMap": {
        "getInstalledCops": {
          "cucm-c001-pub": {
            "rawData": "",
            "rawInput": "",
            "summaryData": "",
            "summaryTable": [
              [
                "COPsInstalled"
              ]
            ],
            "errorMessage": null,
            "recommendation": null,
            "success": true,
            "pub": true
          },
          "cucm-c001-sub": {
            "rawData": "",
            "rawInput": "",
            "summaryData": "No admin credentials configured for application",
            "summaryTable": [
              [
                "COPsInstalled"
              ]
            ],
            "errorMessage": "No admin credentials configured for application",
            "recommendation": "Verify ADMIN credentials.",
            "success": false,

```

```

        "pub": false
      }
    },
    "lastSuccessfulExecutionTime": null,
    "checkname": "getInstalledCops",
    "description": "Installed Cop files",
    "errorMsg": null
  },
  "postCheckResult": {
    "status": "FAILURE",
    "lastExecutionTime": 1535970246000,
    "recommendedAction": "Internal Error, Check the responses received from
Application",
    "subCheckDeviceMap": {
      "getInstalledCops": {
        "cucm-c001-pub": {
          "rawData": "",
          "rawInput": "",
          "summaryData": "",
          "summaryTable": [
            [
              "COPsInstalled"
            ]
          ],
          "errorMessage": null,
          "recommendation": null,
          "success": true,
          "pub": true
        },
        "cucm-c001-sub": {
          "rawData": "",
          "rawInput": "",
          "summaryData": "No admin credentials configured for application",
          "summaryTable": [
            [
              "COPsInstalled"
            ]
          ],
          "errorMessage": "No admin credentials configured for application",
          "recommendation": "Verify ADMIN credentials.",
          "success": false,
          "pub": false
        }
      }
    }
  },
  ...
  "rawInput": "utils disaster_recovery status backup",
  "summaryData": "The Latest DRS Backup is successfull.Backup
information:\nBackupFilename:2018-08-23-03-09-32.tar\tFeatures:[IM_AND_PRESENCE]\tBackupStatus:SUCCESS
:Backup Completed... Percentage Complete: 100",
  "summaryTable": [
    [
      "BackupFilename",
      "Features",
      "BackupStatus"
    ],
    [
      "2018-08-23-03-09-32.tar",
      "IM_AND_PRESENCE",
      "SUCCESS :Backup Completed... Percentage Complete: 100"
    ]
  ],

```

```

        "errorMessage": null,
        "recommendation": null,
        "success": true,
        "pub": true
    }
}
},
"lastSuccessfulExecutionTime": null,
"checkname": "getDRSStatus",
"description": "Disaster Recovery System Backup",
"errorMsg": null
}
]

```



**Note** The preceding result runs to pages and is truncated for accommodating it on a page.

## UC Application Version Report Summary API

This is a web interface to the sync version REST Web Service.

### Sync (POST)

This web service contains Read APIs to view data in the Sync Version.

- To sync the UC application at provider level:

`https://HCM-F_Server_IPaddress/ucmon/appversions/sync`

- To sync the UC application at customer level:

`https://HCM-F_Server_IPaddress/ucmon/appversions/sync/customers/2`

- To sync the UC application at cluster level:

`https://HCM-F_Server_IPaddress/ucmon/appversions/sync/clusters/1`

### Detailed (GET)

The REST APIs URL fetches the version detailed and summary report for UC clusters at provider, customer, and cluster level.

- To fetch the UC application detailed report at cluster level:

`https://HCM-F_Server_IPaddress/ucmon/appversions/detailed/clusters/{clusterId}  
?clusterType=CUCM&version=11.x`

- To fetch the UC application detailed report at provider level:

`https://HCM-F_Server_IPaddress/ucmon/appversions/detailed  
?clusterType=CUCM&version=11.x`

Response Example:

```

{"versionReportInfo": {
  "lastSyncTime": "May 22, 2019 4:31:54 PM",

```

```

"clusterDetails": [
  {
    "customerName": "cust10x",
    "clusterName": "CUCM10x",
    "clusterType": "CUCM",
    "appVersions": [
      {
        "applicationName": "CUCM10xPub",
        "ipAddress": "10.78.89.12",
        "actualInstalledVersion": "10.5.2.14074-1",
        "hostName": "hcs-lnx2-12",
        "publisherOrPrimary": true,
        "presenceServer": false
      },
      {
        "applicationName": "CUCM10xSub",
        "ipAddress": "10.78.89.13",
        "actualInstalledVersion": "10.5.2.14074-1",
        "hostName": "hcs-lnx2-13",
        "publisherOrPrimary": false,
        "presenceServer": false
      },
      {
        "applicationName": "CUP10xPub",
        "ipAddress": "10.78.89.14",
        "actualInstalledVersion": "10.5.2.23900-4",
        "hostName": null,
        "publisherOrPrimary": true,
        "presenceServer": true
      },
      {
        "applicationName": "CUP10xSub",
        "ipAddress": "10.78.89.15",
        "actualInstalledVersion": "10.5.2.23900-4",
        "hostName": null,
        "publisherOrPrimary": false,
        "presenceServer": true
      }
    ],
    "versionInfo": "10.X"
  },
  {
    "customerName": "cust10x",
    "clusterName": "CUCXN10x",
    "clusterType": "CUCXN",
    "appVersions": [
      {
        "applicationName": "CUCXN10xSub",
        "ipAddress": "10.106.215.115",
        "actualInstalledVersion": "10.5.2.14074-1",
        "hostName": null,
        "publisherOrPrimary": false,
        "presenceServer": false
      },
      {
        "applicationName": "CUC10xPub",
        "ipAddress": "10.106.215.121",
        "actualInstalledVersion": "10.5.2.14074-1",
        "hostName": null,
        "publisherOrPrimary": true,
        "presenceServer": false
      }
    ],
    "versionInfo": "10.X"
  }
]

```

```
    },
    {
      "customerName": "cust10x",
      "clusterName": "CER10x",
      "clusterType": "CER",
      "appVersions": [
        {
          "applicationName": "CER10XPub",
          "ipAddress": "10.106.215.15",
          "actualInstalledVersion": "10.5.1.20000-3",
          "hostName": null,
          "publisherOrPrimary": true,
          "presenceServer": false
        }
      ],
      "versionInfo": "10.X"
    },
    {
      "customerName": "cust10x",
      "clusterName": "EXPE10x",
      "clusterType": "Expressway Edge",
      "appVersions": [
        {
          "applicationName": "EXPE-cust10x",
          "ipAddress": "10.78.89.19",
          "actualInstalledVersion": "X8.8.1",
          "hostName": "hcs-lnx2-19",
          "publisherOrPrimary": true,
          "presenceServer": false
        }
      ],
      "versionInfo": "X8.8"
    },
    {
      "customerName": "cust10x",
      "clusterName": "EXPC10x",
      "clusterType": "Expressway Core",
      "appVersions": [
        {
          "applicationName": "EXPC-cust10x",
          "ipAddress": "10.78.89.22",
          "actualInstalledVersion": "X8.8.1",
          "hostName": null,
          "publisherOrPrimary": true,
          "presenceServer": false
        }
      ],
      "versionInfo": "X8.8"
    },
    {
      "customerName": "cust11x",
      "clusterName": "CUCM11x",
      "clusterType": "CUCM",
      "appVersions": [
        {
          "applicationName": "CUCM11x",
          "ipAddress": "10.78.89.129",
          "actualInstalledVersion": "11.5.1.15900-18",
          "hostName": "hcs-lnx2-129",
          "publisherOrPrimary": true,
          "presenceServer": false
        },
        {
          "applicationName": "CUCM11xSub",
          "ipAddress": "10.78.89.130",
          "actualInstalledVersion": "11.5.1.15900-18",
          "hostName": "hcs-lnx2-130",
          "publisherOrPrimary": false,
          "presenceServer": false
        }
      ],
    },
```

```

        {
            "applicationName": "CUP11xPub",
            "ipAddress": "10.78.89.138",
            "actualInstalledVersion": "11.5.1.15900-33",
            "hostName": "hcs-lnx2-138",
            "publisherOrPrimary": true,
            "presenceServer": true
        },
        {
            "applicationName": "CUP11xSub",
            "ipAddress": "10.78.89.139",
            "actualInstalledVersion": "11.5.1.15900-33",
            "hostName": "hcs-lnx2-139",
            "publisherOrPrimary": false,
            "presenceServer": true
        }
    ],
    "versionInfo": "11.X"
},
{
    "customerName": "cust11x",
    "clusterName": "CUCXN11x",
    "clusterType": "CUCXN",
    "appVersions": [
        {
            "applicationName": "CUCXN11xPub",
            "ipAddress": "10.78.89.131",
            "actualInstalledVersion": "11.5.1.15900-18",
            "hostName": "hcs-lnx2-131",
            "publisherOrPrimary": true,
            "presenceServer": false
        },
        {
            "applicationName": "CUCXN11xSub",
            "ipAddress": "10.78.89.132",
            "actualInstalledVersion": "11.5.1.15900-18",
            "hostName": "hcs-lnx2-132",
            "publisherOrPrimary": false,
            "presenceServer": false
        }
    ],
    "versionInfo": "11.X"
},
{
    "customerName": "cust11x",
    "clusterName": "CER11x",
    "clusterType": "CER",
    "appVersions": [
        {
            "applicationName": "CER11xPub",
            "ipAddress": "10.78.89.17",
            "actualInstalledVersion": "11.5.4.50000-6",
            "hostName": "hcs-lnx2-17",
            "publisherOrPrimary": true,
            "presenceServer": false
        }
    ],
    "versionInfo": "11.X"
},
{
    "customerName": "cust11x",
    "clusterName": "EXPE-cust11x",
    "clusterType": "Expressway Edge",
    "appVersions": [
        {
            "applicationName": "EXPECust11x",
            "ipAddress": "10.78.89.23",

```



```

        "actualInstalledVersion": "X8.11.3",
        "hostName": "hcs-lnx2-23",
        "publisherOrPrimary": true,
        "presenceServer": false
    }],
    "versionInfo": "X8.11.x"
},
{
    "customerName": "cust11x",
    "clusterName": "EXPC-cust11x",
    "clusterType": "Expressway Core",
    "appVersions": [
        {
            "applicationName": "EXPC-Cuxt11x",
            "ipAddress": "10.78.89.24",
            "actualInstalledVersion": "X8.11.3",
            "hostName": "hcs-lnx2-24",
            "publisherOrPrimary": true,
            "presenceServer": false
        }
    ],
    "versionInfo": "X8.11.x"
},
{
    "customerName": "cust12x",
    "clusterName": "CUCM12x",
    "clusterType": "CUCM",
    "appVersions": [
        {
            "applicationName": "CUCM12xPub",
            "ipAddress": "10.78.89.144",
            "actualInstalledVersion": "12.5.1.10000-22",
            "hostName": "hcs-lnx2-144",
            "publisherOrPrimary": true,
            "presenceServer": false
        },
        {
            "applicationName": "CUCM12xSub",
            "ipAddress": "10.78.89.145",
            "actualInstalledVersion": "12.5.1.10000-22",
            "hostName": "hcs-lnx2-145",
            "publisherOrPrimary": false,
            "presenceServer": false
        }
    ],
    {
        "applicationName": "CUP12xPub",
        "ipAddress": "10.78.89.146",
        "actualInstalledVersion": "12.5.1.10000-22",
        "hostName": "hcs-lnx2-146",
        "publisherOrPrimary": true,
        "presenceServer": true
    }
    ],
    "versionInfo": "12.X"
},
{
    "customerName": "cust12x",
    "clusterName": "CUCXN12x",
    "clusterType": "CUCXN",
    "appVersions": [
        {
            "applicationName": "CUCXN12XPub",
            "ipAddress": "10.78.89.147",
            "actualInstalledVersion": "12.5.1.10000-22",
            "hostName": "hcs-lnx2-147",
            "publisherOrPrimary": true,

```

```

        "presenceServer": false
    },
    {
        "applicationName": "CUCXN12xSub",
        "ipAddress": "10.78.89.148",
        "actualInstalledVersion": "12.5.1.10000-22",
        "hostName": "hcs-lnx2-148",
        "publisherOrPrimary": false,
        "presenceServer": false
    }
],
"versionInfo": "12.X"
},
{
    "customerName": "cust12x",
    "clusterName": "CER12x",
    "clusterType": "CER",
    "appVersions": [
        {
            "applicationName": "CER12xPub",
            "ipAddress": "10.78.89.149",
            "actualInstalledVersion": "12.5.1.10000-6",
            "hostName": "hcs-lnx2-149",
            "publisherOrPrimary": true,
            "presenceServer": false
        },
        {
            "applicationName": "CER12xSub",
            "ipAddress": "10.78.89.150",
            "actualInstalledVersion": "12.5.1.10000-6",
            "hostName": "hcs-lnx2-150",
            "publisherOrPrimary": false,
            "presenceServer": false
        }
    ],
    "versionInfo": "12.X"
},
{
    "customerName": "cust12x",
    "clusterName": "EXPE12x",
    "clusterType": "Expressway Edge",
    "appVersions": [
        {
            "applicationName": "EXPE-Cust12x",
            "ipAddress": "10.78.89.152",
            "actualInstalledVersion": "X12.5",
            "hostName": "hcs-lnx2-152",
            "publisherOrPrimary": true,
            "presenceServer": false
        }
    ],
    "versionInfo": "X12.x"
},
{
    "customerName": "cust12x",
    "clusterName": "EXPC-12x",
    "clusterType": "Expressway Core",
    "appVersions": [
        {
            "applicationName": "EXPC12x",
            "ipAddress": "10.78.89.151",
            "actualInstalledVersion": "X12.5",
            "hostName": "hcs-lnx-151",
            "publisherOrPrimary": true,
            "presenceServer": false
        }
    ],
    "versionInfo": "X12.x"
}

```

```

},
{
  "customerName": "cust8x",
  "clusterName": "CUCM8x",
  "clusterType": "CUCM",
  "appVersions": [
    {
      "applicationName": "CUCM8xPUB",
      "ipAddress": "10.78.89.153",
      "actualInstalledVersion": "8.6.2.25900-8",
      "hostName": null,
      "publisherOrPrimary": true,
      "presenceServer": false
    }
  ],
  "versionInfo": "Pre9.X"
},
{
  "customerName": "cust8x",
  "clusterName": "EXPE8xcust8x",
  "clusterType": "Expressway Edge",
  "appVersions": [
    {
      "applicationName": "EXPE-cust8x",
      "ipAddress": "10.78.89.154",
      "actualInstalledVersion": "X8.10.4",
      "hostName": "hcs-lnx2-154",
      "publisherOrPrimary": true,
      "presenceServer": false
    }
  ],
  "versionInfo": "X8.10"
},
{
  "customerName": "cust8x",
  "clusterName": "EXPC8xcust8x",
  "clusterType": "Expressway Core",
  "appVersions": [
    {
      "applicationName": "EXPC-cust8x",
      "ipAddress": "10.78.89.155",
      "actualInstalledVersion": "X8.10.4",
      "hostName": "hcs-lnx2-155",
      "publisherOrPrimary": true,
      "presenceServer": false
    }
  ],
  "versionInfo": "X8.10"
},
{
  "customerName": "cust9x",
  "clusterName": "CUCM9x",
  "clusterType": "CUCM",
  "appVersions": [
    {
      "applicationName": "CUCM9xPub",
      "ipAddress": "10.106.215.97",
      "actualInstalledVersion": "9.1.1.20000-5",
      "hostName": null,
      "publisherOrPrimary": true,
      "presenceServer": false
    }
  ],
  "versionInfo": "9.X"
},
{
  "customerName": "cust9x",
  "clusterName": "CUP9x",
  "clusterType": "CUP",
  "appVersions": [
    {
      "applicationName": "CUP9xPub",
      "ipAddress": "10.106.215.51",

```

```

        "actualInstalledVersion": "9.1.1.20000-5",
        "hostName": null,
        "publisherOrPrimary": true,
        "presenceServer": false
    }],
    "versionInfo": "9.X"
}
]
}}

```

- To fetch the UC application detailed report at customer level:

[https://\*HCM-F\\_Server\\_IPaddress\*/ucmon/appversions/detailed/customers/{customerId}?clusterType=CUCM&version=11.x](https://<i>HCM-F_Server_IPaddress</i>/ucmon/appversions/detailed/customers/{customerId}?clusterType=CUCM&version=11.x)

#### Response Example:

```

{"versionReportInfo": {
  "lastSyncTime": "May 22, 2019 4:31:54 PM",
  "clusterDetails": [
    {
      "customerName": "cust12x",
      "clusterName": "CUCM12x",
      "clusterType": "CUCM",
      "appVersions": [
        {
          "applicationName": "CUCM12xPub",
          "ipAddress": "10.78.89.144",
          "actualInstalledVersion": "12.5.1.10000-22",
          "hostName": "hcs-lnx2-144",
          "publisherOrPrimary": true,
          "presenceServer": false
        },
        {
          "applicationName": "CUCM12xSub",
          "ipAddress": "10.78.89.145",
          "actualInstalledVersion": "12.5.1.10000-22",
          "hostName": "hcs-lnx2-145",
          "publisherOrPrimary": false,
          "presenceServer": false
        },
        {
          "applicationName": "CUP12xPub",
          "ipAddress": "10.78.89.146",
          "actualInstalledVersion": "12.5.1.10000-22",
          "hostName": "hcs-lnx2-146",
          "publisherOrPrimary": true,
          "presenceServer": true
        }
      ]
    },
    {
      "versionInfo": "12.X"
    }
  ],
  {
    "customerName": "cust12x",
    "clusterName": "CUCXN12x",
    "clusterType": "CUCXN",
    "appVersions": [
      {
        "applicationName": "CUCXN12XPub",
        "ipAddress": "10.78.89.147",
        "actualInstalledVersion": "12.5.1.10000-22",
        "hostName": "hcs-lnx2-147",
        "publisherOrPrimary": true,
        "presenceServer": false
      }
    ]
  }
}

```

```

        {
            "applicationName": "CUCXN12xSub",
            "ipAddress": "10.78.89.148",
            "actualInstalledVersion": "12.5.1.10000-22",
            "hostName": "hcs-lnx2-148",
            "publisherOrPrimary": false,
            "presenceServer": false
        }
    ],
    "versionInfo": "12.X"
},
{
    {
        "customerName": "cust12x",
        "clusterName": "CER12x",
        "clusterType": "CER",
        "appVersions": [
            {
                "applicationName": "CER12xPub",
                "ipAddress": "10.78.89.149",
                "actualInstalledVersion": "12.5.1.10000-6",
                "hostName": "hcs-lnx2-149",
                "publisherOrPrimary": true,
                "presenceServer": false
            },
            {
                "applicationName": "CER12xSub",
                "ipAddress": "10.78.89.150",
                "actualInstalledVersion": "12.5.1.10000-6",
                "hostName": "hcs-lnx2-150",
                "publisherOrPrimary": false,
                "presenceServer": false
            }
        ]
    },
    "versionInfo": "12.X"
},
{
    {
        "customerName": "cust12x",
        "clusterName": "EXPE12x",
        "clusterType": "Expressway Edge",
        "appVersions": [
            {
                "applicationName": "EXPE-Cust12x",
                "ipAddress": "10.78.89.152",
                "actualInstalledVersion": "X12.5",
                "hostName": "hcs-lnx2-152",
                "publisherOrPrimary": true,
                "presenceServer": false
            }
        ]
    },
    "versionInfo": "X12.x"
},
{
    {
        "customerName": "cust12x",
        "clusterName": "EXPC-12x",
        "clusterType": "Expressway Core",
        "appVersions": [
            {
                "applicationName": "EXPC12x",
                "ipAddress": "10.78.89.151",
                "actualInstalledVersion": "X12.5",
                "hostName": "hcs-lnx-151",
                "publisherOrPrimary": true,
                "presenceServer": false
            }
        ]
    },
    "versionInfo": "X12.x"
}
}

```

```
    ]
  }}
}
```

### Summary (GET)

- To fetch the UC application summary report at cluster level:

```
https://HCM-F_Server_IPaddress/ucmon/appversions/summary/clusters/{clusterId}
?clusterType=CUCM&version=11.x
```

- To fetch the specific UC application summary report at provider level:

```
https://HCM-F_Server_IPaddress/ucmon/appversions/summary
?clusterType=CUCM&version=11.x
```

#### Response Example:

```
{
  "versionReportInfo": {
    "lastSyncTime": "May 22, 2019 4:31:54 PM",
    "clusterAppVersions": [
      {
        "clusterType": "Expressway Core",
        "clusterCountForEachVersion": {
          "X8.10": 1,
          "X8.11.x": 1,
          "X8.8": 1,
          "X12.x": 1
        }
      },
      {
        "clusterType": "CUP",
        "clusterCountForEachVersion": {"9.X": 1}
      },
      {
        "clusterType": "CUCXN",
        "clusterCountForEachVersion": {
          "11.X": 1,
          "10.X": 1,
          "12.X": 1
        }
      },
      {
        "clusterType": "CUCM",
        "clusterCountForEachVersion": {
          "11.X": 1,
          "9.X": 1,
          "10.X": 1,
          "12.X": 1,
          "Pre9.X": 1
        }
      },
      {
        "clusterType": "CER",
        "clusterCountForEachVersion": {
          "11.X": 1,
          "10.X": 1,
          "12.X": 1
        }
      },
      {
        "clusterType": "Expressway Edge",
        "clusterCountForEachVersion": {
          "X8.10": 1,

```

```

        "X8.11.x": 1,
        "X8.8": 1,
        "X12.x": 1
      }
    ]
  }}

```

- To fetch the specific UC application summary report at customer level:

[https://\*HCM-F\\_Server\\_IPaddress\*/ucmon/appversions/summary/customers/{customerId}?clusterType=CUCM&version=11.x](https://<i>HCM-F_Server_IPaddress</i>/ucmon/appversions/summary/customers/{customerId}?clusterType=CUCM&version=11.x)

#### Response Example:

```

{"versionReportInfo": {
  "lastSyncTime": "May 22, 2019 4:31:54 PM",
  "clusterAppVersions": [
    {
      "clusterType": "Expressway Core",
      "clusterCountForEachVersion": {"X12.x": 1}
    },
    {
      "clusterType": "CUCXN",
      "clusterCountForEachVersion": {"12.X": 1}
    },
    {
      "clusterType": "CUCM",
      "clusterCountForEachVersion": {"12.X": 1}
    },
    {
      "clusterType": "CER",
      "clusterCountForEachVersion": {"12.X": 1}
    },
    {
      "clusterType": "Expressway Edge",
      "clusterCountForEachVersion": {"X12.x": 1}
    }
  ]
}}

```

