

vSEC:CMS APIs

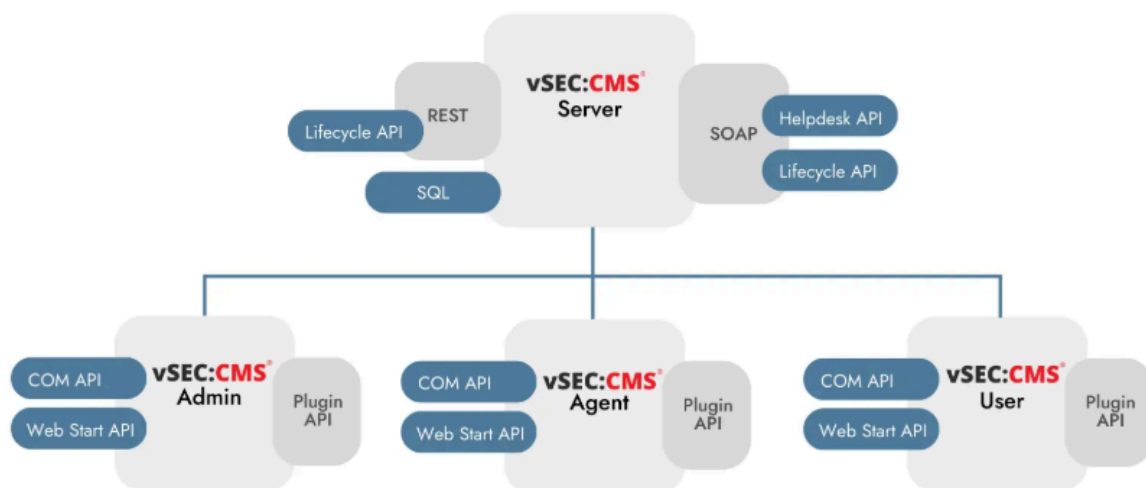
vSEC:CMS Server - SOAP API's:	2
Helpdesk API:	2
Lifecycle API:	3
vSEC:CMS Operator Console and User Self-Service:	4
COM API:	4
Web Start API:	5
Plugin API:	6

vSEC:CMS API Overview

This document describes the APIs that are currently in vSEC:CMS at a high level. Currently vSEC:CMS has 6 different API's of which 2 interface directly to the vSEC:CMS Server and the remaining 4 can interface to either Operator Console or User Self-Service. These API's have different uses, so it is important that the correct one is chosen for the relevant purpose.

As shown by the diagram, the 2 SOAP API's directly interfacing to the vSEC:CMS Server are the Helpdesk API and the Lifecycle API. These interface with the server using SOAP connections. The remaining 4 that are interfacing to the Operator Console or User Self-Service Console are the COM API, Web Start API, Plugin API and PACS API.

Each API has a name which is relevant in defining the very base level of what each API does.



vSEC:CMS Server - SOAP API's:

Helpdesk API:

The Helpdesk API is the API of choice when personnel need an API to integrate with other Helpdesk facing applications. This web based application gives Helpdesk personnel the ability to complete basic operations on user credentials. These basic operations consist of performing Queries on credentials to see relevant information and for enabling users to perform PIN Unlocks. This API has very limited functionality and cannot complete any Lifecycle tasks.

The complete Functions List is as follows:

Query User Card

- Gives the Ability to search for all cards for any given user.
- Shows the cards User Details such as:
 - User DN
 - Card Status Inside or Outside of Lifecycle
 - CSN
 - Template ID/Name

Get Unblock Cryptogram

Creates an Unblock Cryptogram for the User to use to Unblock their smartcard.

Get Unblock code

Creates an Unblock Code for the User to use to Unblock their smartcard.

Sample use case:

- *Help desk personnel gets a call from a user who needs to unblock their card*
- *Help desk personnel searches all cards for this user's card*
- *Help desk personnel selects the correct card and asks the API to calculate cryptogram*
- *Help desk personnel tells the user the cryptogram so that they can unblock the card themselves*
- *User manages to unblock their card using the cryptogram and challenge in USS*

Lifecycle API:

The Lifecycle API is used to perform the Lifecycle Operations which are contained within vSEC:CMS. It is possible to move any user credential to any stage of the Lifecycle as you would within the Lifecycle of the Operator Console. Lifecycle Functions performed within this API are functionally the same as within vSEC:CMS Operator Console.

For more information on Lifecycle processes, please see here:

<https://versasec.zendesk.com/hc/en-us/articles/115000843873-Lifecycle-Processes>

The complete Functions List is as follows:

Issuance

Processes credential issuance for a user.

RevokeCard

Moves the card to the Revoked stage of the Lifecycle.

InactivateCard

Moves the card to the Inactivated stage of the Lifecycle.

ActivateCard

Moves the card to the Activated stage of the Lifecycle.

UnlockCard

Moves the card to the Unblocked stage of the Lifecycle.

InitiateCard

Moves the card to the Registered stage of the Lifecycle.

DeleteCard

Moves the card to the Deleted stage of the Lifecycle.

Sample use case:

- *A user has just returned from an extended period of leave*
- *Operator personnel searches all cards for this user's card*
- *Operator personnel selects the correct card and asks the API to Activate this card*
- *The card is Activated and the PIN is chosen by the User*
- *The user has an activated card which is now usable again*

vSEC:CMS Operator Console and User Self-Service:

COM API:

The COM API is a COM scripting language console that is used to integrate with vSEC:CMS. This API is used to initiate the Lifecycle functions of vSEC:CMS. Lifecycle functions performed within this API are functionally the same as within vSEC:CMS Operator Console. The Functions list is almost the same as the Lifecycle API.

The complete Functions List is as follows:

Issuance

Processes credential issuance for a user.

RevokeCard

Moves the card to the Revoked stage of the Lifecycle.

InactivateCard

Moves the card to the Inactivated stage of the Lifecycle.

ActivateCard

Moves the card to the Activated stage of the Lifecycle.

UnlockCard

Moves the card to the Unblocked stage of the Lifecycle.

InitiateCard

Moves the card to the Registered stage of the Lifecycle.

DeleteCard

Moves the card to the Deleted stage of the Lifecycle.

Sample use case:

- Management wants to prompt users to change their PIN monthly using USS
- Management creates a powershell script which works with COM API to prompt the above scenario
- User logs on to his workstation at the start of a new month
- User Self-Service opens and begins the Change PIN workflow by prompt by COM API
- The Change PIN workflow is completed
- The user now has a new PIN on their card as requested by management

Web Start API:

The Web Start API is used to launch tasks in Operator Console and User Self Service with any web browser application. This, like the COM API is mainly used for Lifecycle tasks. This is currently only valid with Operator Console installed in quiet mode although support for USS is also planned. Lifecycle Functions performed within this API are functionally the same as within vSEC:CMS Operator Console.

For more information on Lifecycle processes, please see here:

<https://versasec.zendesk.com/hc/en-us/articles/115000843873-Lifecycle-Processes>

The complete Functions List is as follows:

Issuance

Processes credential issuance for a user.

RevokeCard

Moves the card to the Revoked stage of the Lifecycle.

InactivateCard

Moves the card to the Inactivated stage of the Lifecycle.

ActivateCard

Moves the card to the Activated stage of the Lifecycle.

UnlockCard

Moves the card to the Unblocked stage of the Lifecycle.

InitiateCard

Moves the card to the Registered stage of the Lifecycle.

DeleteCard

Moves the card to the Deleted stage of the Lifecycle.

Sample use case:

- A user has left the company and has not returned their card
- Operator personnel launched the Lifecycle API in Web form and searches all cards for this user's card
- Operator personnel selects the correct card and asks the API to Delete this card
- The card is deleted and completely unusable

Plugin API:

The Plugin API is used to develop plugins which are then loaded by vSEC:CMS when performing workflows within the Lifecycle of vSEC:CMS. Any Native dll with an export function is able to be used with the Plugin API.

Lifecycle Functions performed within this API are functionally the same as within vSEC:CMS Operator Console.

Issuance

Processes credential issuance for a user.

RevokeCard

Moves the card to the Revoked stage of the Lifecycle.

InactivateCard

Moves the card to the Inactivated stage of the Lifecycle.

ActivateCard

Moves the card to the Activated stage of the Lifecycle.

UnlockCard

Moves the card to the Unblocked stage of the Lifecycle.

InitiateCard

Moves the card to the Registered stage of the Lifecycle.

DeleteCard

Moves the card to the Deleted stage of the Lifecycle.

Sample use case:

- *Management wants to provision a special applet to cards during smartcard issuance*
- *Management uses the Plugin API to make vSEC:CMS issue the "special applet" during all card issuance*
- *Operator issues a smart card to a user within Lifecycle of vSEC:CMS Operator Console*
- *During the issuance process, Plugin API calls for the special applet to be put on the card*
- *The card is issued to the user which also has the special applet as requested*