Connecting the Dots: Smart Account and Smart License Learning Series

An Introduction to Cisco Smart Software Manager On-Prem

April 2019
In this session, we will cover:

1. Cisco Smart Software Manager On-prem Overview
2. Cisco SSM On-prem Benefits
3. On-prem Enhanced Edition Overview
4. Manage Your On-prem
5. On-prem Deployment Modes
Deploying Smart License Enabled Products

1. Direct cloud access (Default)
Cisco product sends usage information directly *over the internet or through a HTTP Proxy Server*. No additional components are needed.

Cisco products send usage information to a *locally installed on-prem*. Periodically, exchange information automatically in connected environments or manually in disconnected environments.

3. Full Offline Access – License Reservation
Use copy/paste information between product and Cisco.com to manually check in and out Licenses. Functionally equivalent to current node locking, but with Smart License tracking.
What is Cisco Smart Software Manager (SSM) On-prem?

**A Cisco Smart Software Manager On-prem is...**

A component of Cisco Smart Licensing and works in conjunction with the cloud-based Cisco Smart Software Manager (SSM), to intelligently manage the customer or partner’s product licenses providing near real time visibility and reporting of the cisco licenses they purchase and consume.

**A Cisco Smart Software Manager On-prem is ideal for...**

Customers who have strict security requirements and do not want their products to communicate with the central licensing database on Smart Software Manager over a direct Internet connection. most often this is used by financial institutions, utilities, service providers & government organizations.
How does Cisco SSM On-prem Work?

1. Install/Register to Cisco SSM
   - Install Smart Software Manager On-prem & register it to Cisco SSM

2. Self-Register/Report
   - Devices and software products self-register and report license consumption

3. Synchronize Local Database
   - Choose to periodically synchronize local database to the Cisco SSM to ensure up to date files

<table>
<thead>
<tr>
<th>On-prem Benefits</th>
<th>Smart Licensing Benefits</th>
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<tbody>
<tr>
<td>Trusted Security</td>
<td>Secure on-premises single source of truth of license consumption</td>
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<td>Real-time Entitlement</td>
<td>Near real-time license entitlement based on synchronization schedules with backend install base</td>
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<td>Utilization Visibility</td>
<td>Complete view of software, services, and devices in easy-to-use portal</td>
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<td>Increased Control</td>
<td>Flexible licensing pooling enable licenses to be reused across devices and the organization</td>
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<td>Unlocked</td>
<td>Elimination of the node-locking of licenses to devices, simplifies the RMA process</td>
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<td>Cost Reduction</td>
<td>Save time and money through efficient license usage</td>
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Enhanced Edition – Deployment Model Overview

CSSM On-prem Enhanced Edition

Service Providers
- Supports multiple local accounts

Cisco Partners
- Scales up to 10,000 product instances, 500K devices and 500 accounts
- Provides online or offline connectivity

Large Enterprises
- Similar User Interface to Cisco SSM
- Enables faster code drop and feature parity at Cisco SSM


**Licensing Portal**
- Similar functionality to software.cisco.com
- Users can manage their local accounts, users, product instances, devices and licenses
- Users can create new on-prem accounts, request access to on-prem accounts and manage on-prem accounts and local virtual accounts

**Administration Portal**
- Enables internal administrative functions including user control, account management, registration, synchronization, and much more
- Supports additional functionality including external authentication, syslog and proxy support
- Restricted to only authorized users
Licensing and Administration Portal Roles

**Licensing Portal Roles**

- **Local Account Admins**: Have read-only permission on the Admin portal and have role based access control in the licensing portal.
- **Local Account Users**: Similar to CSSM Smart Account and Virtual Account roles but at the local level within the on-prem.
- **Local VA Admins**: Have full admin access to all the local accounts, can perform on-prem registration/ synchronization, & can not change system configurations.
- **Local VA Users**: Have all of the abilities as the System Operator plus they can approve and delete local accounts and complete all system configurations.

**Administration Portal Roles**

- **System Users**: Have full admin access to all the local accounts, can perform on-prem registration/ synchronization, & can not change system configurations.
- **System Operators**: Have read-only permission on the Admin portal and have role based access control in the licensing portal.
- **System Admins**: Similar to CSSM Smart Account and Virtual Account roles but at the local level within the on-prem.
Deployment Modes – Connected v. Disconnected

**Connected**

- Mode is used when there is **direct connectivity** to cisco.com from the on-prem.
- License consumption and entitlement can be synchronized with Cisco SSM on-demand or automatically via scheduling.

**Disconnected**

- Mode is used when there is **no connectivity** to cisco.com from the on-prem.
- On-prem can be synchronized with Cisco SSM via a file upload and download.
CSSM On-prem Extended Edition User Interface: Administration Portal

Icons on Administration Portal called Widgets
Administration Portal - Users

On the Users widget in the administration portal:
1. Add new users
2. View existing users added when they log into the licensing portal from LDAP – an external authentication server
Administration Portal - Accounts

In the Accounts widget,
1. Create new on-prem account and register to CSSM if you are a system administrator or request a new account
2. Request access to an existing account
In the **Network** widget,
1. Configure up to four network interfaces for the on-prem
2. Configure proxy
Administration Portal - Settings

In the **Settings** widget,  
1. Configure system parameters such as message of the day, external authentication, syslog support, and email server
Administration Portal - Synchronization

In the Synchronization widget,
1. Perform on-demand or scheduled synchronizations to Cisco SSM
In the Synchronization widget,
1. Populate software images for customers to download directly from their on-prem if they have purchased them in their smart account.
Licensing Portal

In the **Licensing Portal**,
1. View on-prem account name
2. Request an account
3. Request access to an existing account
4. Manage account
5. Select **Smart Licensing** for functions similar to CSSM
In the Manage Account tab,
1. View account properties
2. Create Virtual Accounts
3. Enable role based access such as account administrator, account user, local virtual account administrator or local virtual account user
In the Smart Licensing tab,
1. View the same options as on CSSM – Alerts, Inventory, Reports, on-prem, Activity

Please note: These operations are local to on-prem
In the **Inventory** tab,
1. View and select **Virtual Account**
2. View **Licenses** and **Product Instances** registered locally to the on-prem

**Please note:** Registered product instances and consumed licenses are reflected on the virtual account associated with the on-prem on cisco SSM and newly available licenses are updated on the licensing portal of the on-prem account once the synchronization occurs.
For More Information

Cisco Smart Software Manager On-prem

http://www.cisco.com/go/smartsatellite

Cisco SalesConnect

https://salesconnect.cisco.com/#!
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