



Cisco Software: Smart Licensing Specific License Reservation

Partners & Customers

Note: Screens in the presentation may vary slightly from the actual tools



Learn about:

- How to use Specific License Reservation (SLR) in Smart Software Manager.

Agenda

1 [Specific License Reservation – Overview](#)

2 [Specific License Reservation in Smart Software Manager \(SSM\)](#)

3 [Additional Resources](#)

Specific License Reservation - Overview

Specific License Reservation

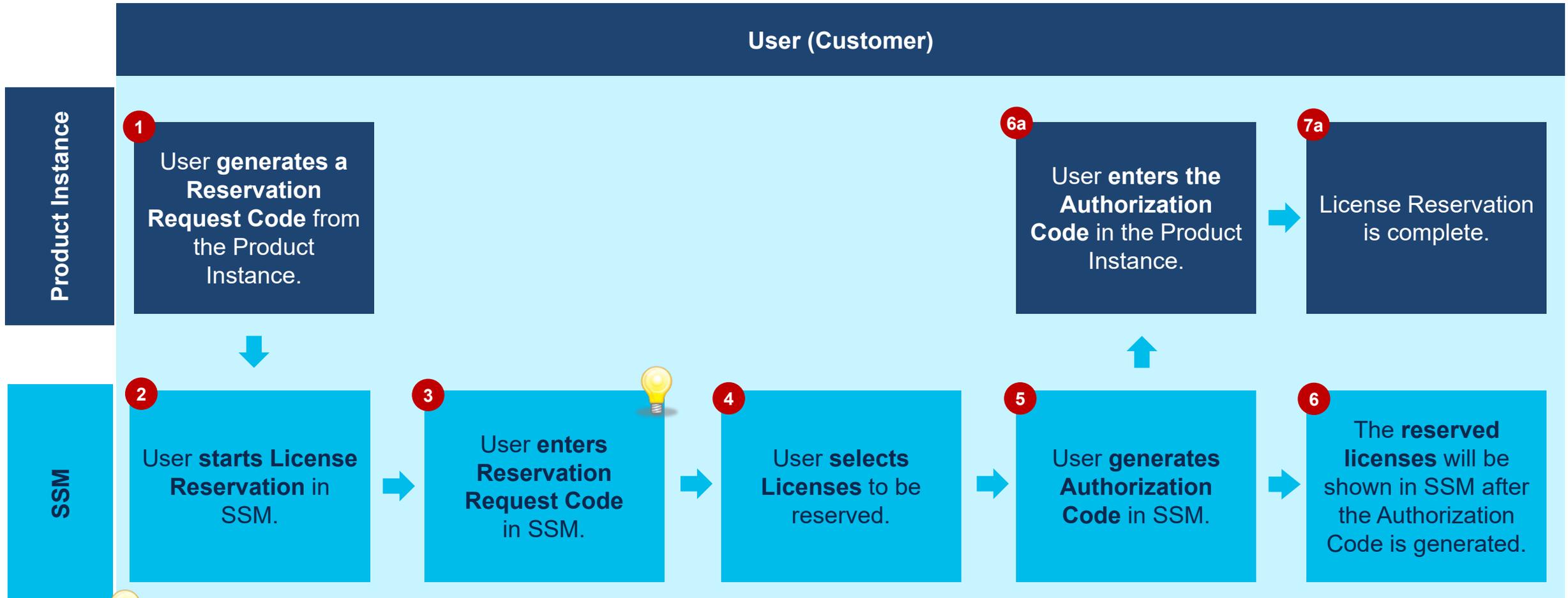
Specific License Reservation (SLR) is a feature used in highly secure networks. It provides a method for Customers to deploy a Software License on a Device (Product Instance) without communicating usage information to Cisco.

The advantage of this approach is that it provides Product Activation Key (PAK) / License file-like functionality while also retaining most of the benefits of full communication Smart Licensing.

- You can now reserve Smart Software licenses by providing a Reservation Request Code in Smart Software Manager (SSM).
- A highly secure network allows users to exchange initial information electronically, consume entitlements normally, and track entitlement usage.
- Specific license reservation (SLR) allows for entitlements, perpetual or term, to be reserved on Product Instances if users have an excess of licenses.
- A Product Instance generates a reservation request code and then you can enter that code in Smart Software Manager (SSM).
- Anyone with a Smart Account can use the SLR feature if they have the devices (product instances) that support it. If SLR is enabled for the Smart Account and if they have entitlements in surplus (only those entitlements which map to the product requesting reservation) for the reservation.

Specific License Reservation

Reserve Licences

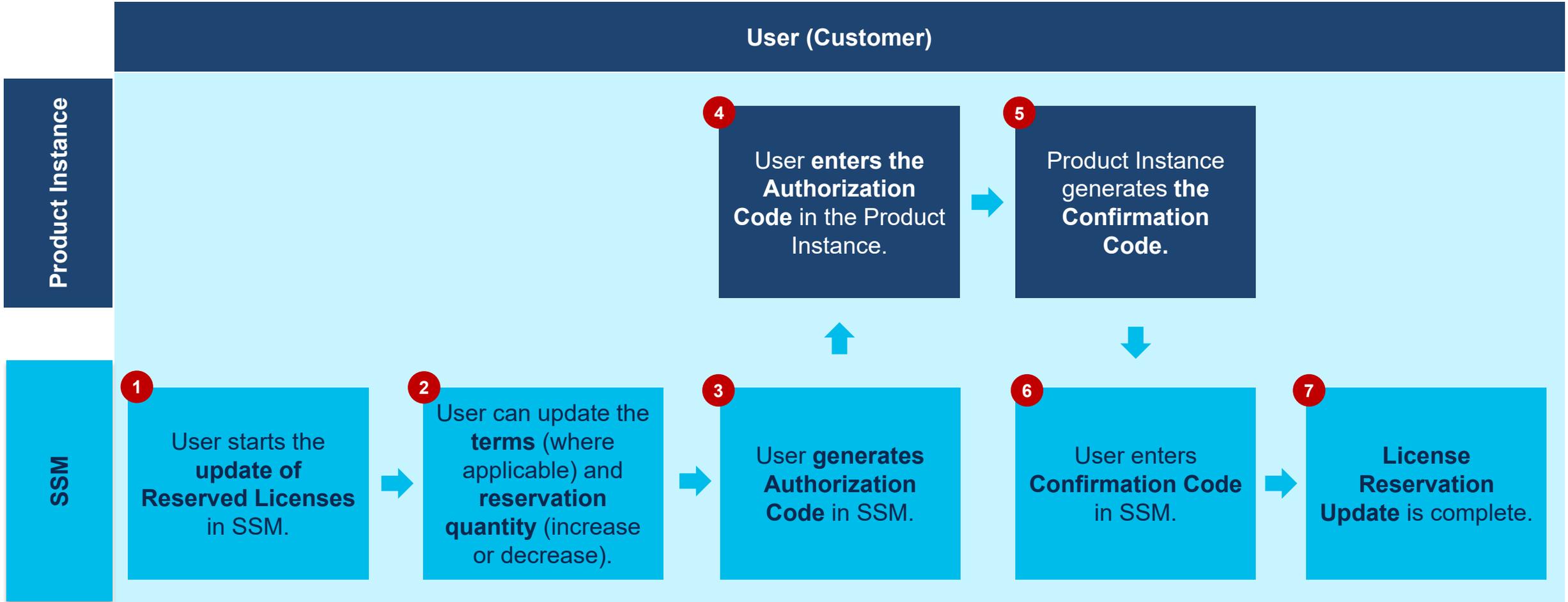


If the software license does not exist in the Smart Account but is associated to the Product Instance, then the license will go through an export compliance check (which can take up to 48 hours). Once the export compliance check is released, the license will be provisioned into your Customer Smart Account.

- If the software license already exists in the Customer Smart Account, you will be able to select immediately the license to be reserved (step 4).

Specific License Reservation

Update Reserved Licenses



Specific License Reservation

Factory Installed Licenses

- ✓ To improve user experience with license reservations, the Specific License Reservation (SLR) authorization codes for an end product can be pre-installed at the factory.
- ✓ Going forward, Customers may not need to reserve licenses manually by generating authorization code in Smart Software Manager, as they can choose to have the authorization Code preinstalled with the Factory Install capability.

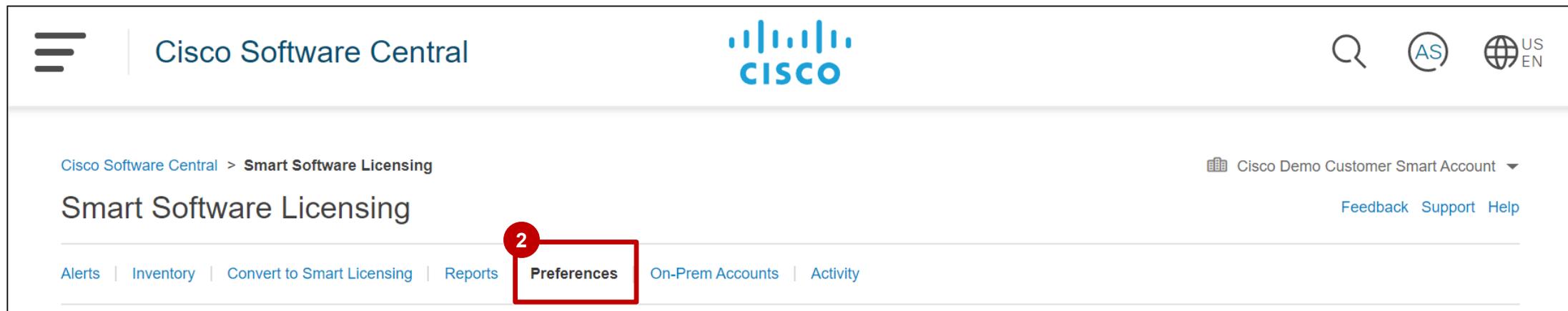
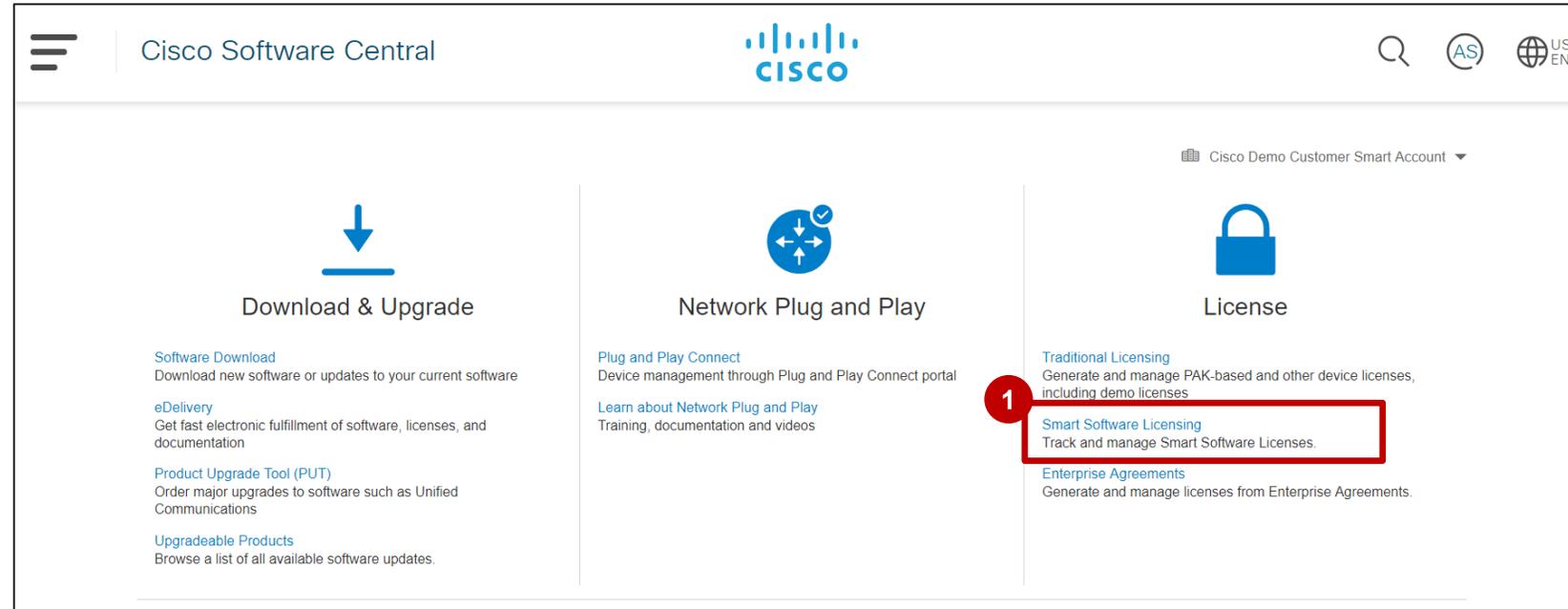
- ✓ Factory Install is available for any customer for whom this capability is enabled and a related order is placed.
- ✓ **Factory Pre-Install Specific License Reservation is only available for products that support it: you can check the Products list from this [Cisco.com page](#), looking at the Features section.**
- ✓ SLR workflow remains as-is where user could enter the reservation request code generated from the device in SSM, select licenses to reserve and generate Authorization code, which then needs to be entered manually on the device.

Specific License Reservation in Smart Software Manager (SSM)

Specific License Reservation in SSM

Smart Software Manager

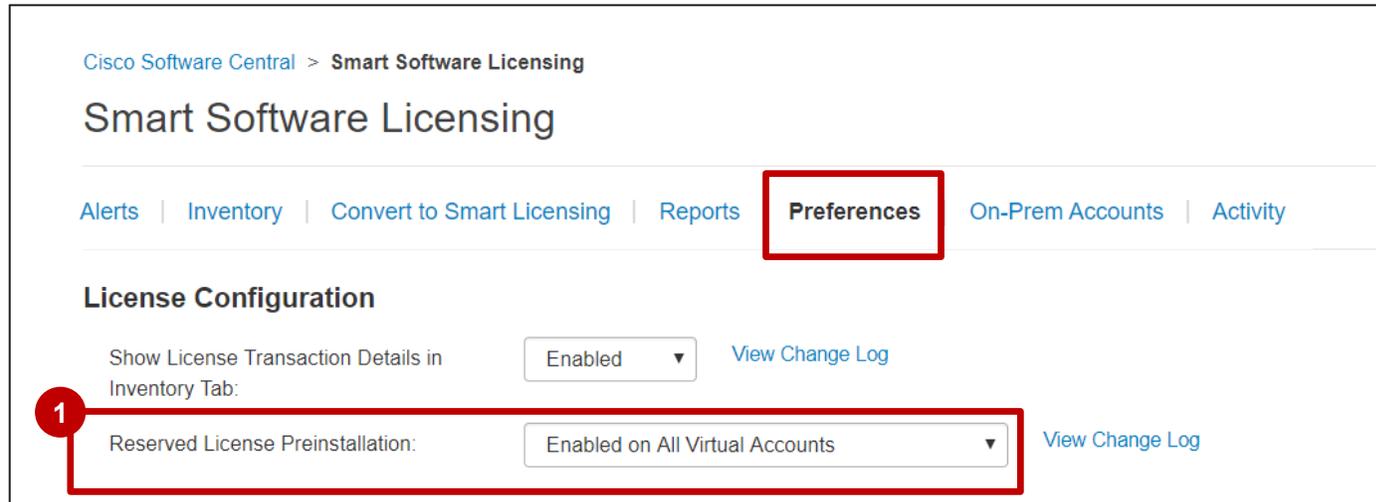
- 1 Click on **Smart Software Licensing**.
- 2 Navigate to the **Preferences** tab.



Specific License Reservation in SSM

Reserved License Preinstallation

- 1 In the **Preferences Tab**, a **Smart Account Admin** can view the **License Configuration** section.
 - **If Specific License Reservation is enabled in the Smart Account**, the Smart Account Admin will have the option to **enable Reserved License Preinstallation**.



Cisco Software Central > Smart Software Licensing

Smart Software Licensing

Alerts | Inventory | Convert to Smart Licensing | Reports | **Preferences** | On-Prem Accounts | Activity

License Configuration

Show License Transaction Details in Inventory Tab: Enabled [View Change Log](#)

1 Reserved License Preinstallation: Enabled on All Virtual Accounts [View Change Log](#)

 **The SA Admin will have the option to activate the Reserved License Pre-installation. For certain pre-defined SLR Preinstall-only PIDs, the Reserved License Preinstallation flag will be by-passed: even if Factory Install License Preinstallation is disabled in the Smart Account, it will be by-passed when an order for a specific product requiring SLR Pre-Install is fulfilled (e.g. IoT Sparrow).**

Basically, for these SLR Preinstall-only PIDs, Factory-installed SLR will be applied regardless of whether Reserved License Preinstallation flag is enabled in the Smart Account or not.



Starting October 9th 2020, all new approved smart accounts will come with SLR option available in the inventory tab. All existing smart accounts will also have SLR option available in the inventory tab, unless explicitly disabled, after being enabled, by Cisco Support for a reason.

Specific License Reservation in SSM

Enabling SLR and Reserved License Preinstallation

Please follow the instruction below for enabling SLR and SLR Preinstallation.



1. Enable SLR Preinstallation (Factory-install option)

Once SLR is enabled on a Smart Account, SA Admins can see SLR Pre installation drop-down menu under Preferences tab in SSM (Default: Disabled)

If a Device with Factory-Installed Licenses is ordered and assigned to a Smart Account on which Preinstallation flag is NOT enabled, Factory-Install option will be rejected automatically: products will be shipped and licenses provisioned to a Smart Account, but without Reservation.

Exception: For certain pre-defined SLR Preinstall-only PIDs (e.g. IoT Sparrow), the Reserved License Preinstallation flag will be bypassed: for these SLR Preinstall-only PIDs, Factory-installed SLR will be applied regardless of whether Reserved License Preinstallation flag is enabled in the Smart Account or not.

Cisco Software Central > Smart Software Licensing

Smart Software Licensing

[Alerts](#) | [Inventory](#) | [Convert to Smart Licensing](#) | [Reports](#) | **Preferences** | [On-Prem Accounts](#) | [Activity](#)

License Configuration

Show License Transaction Details in Inventory Tab: [View Change Log](#)

Reserved License Preinstallation: [View Change Log](#)

Email Notification

Daily Event Summary

Specific License Reservation in SSM

Generate Factory Install Authorization Code for Orders without Smart Account & Virtual Account

In order to streamline the process for Customers who use SLR/PLR for Factory Install Licenses without a Smart Account, a new feature allows certain products to generate an authorization code without a Smart Account. This will apply mainly to Disti Stocking Orders.

When an order is placed for a predefined list of PIDs and the Smart Account is unknown at the time of shipment (in most cases where intended use is "Stocking"), the SLR Authorization Code will be generated in Smart Software Manager without the knowledge of the Smart Account.

Such Authorization Code will allow for reservation of licenses configured in the Hardware, but will not allow the use of restricted licenses (export-controlled licenses). This is because export-control depends upon the Smart Account: if the Smart Account is not known, an authorization code cannot be generated for restricted licenses.

Specific License Reservation in SSM Inventory – License Reservation

- 1 On the main **Inventory** page, go to the **Licenses** tab.
You will see the **License Reservation** button on the **Licenses** tab.
- 2 Click the **License Reservation** button to start Specific License Reservation.

The screenshot shows the Cisco Software Central interface. At the top, there is a navigation bar with the Cisco logo and a search icon. Below this, the main content area is titled "Smart Software Licensing" and includes a breadcrumb trail: "Cisco Software Central > Smart Software Licensing". A navigation menu contains tabs for "Alerts", "Inventory", "Convert to Smart Licensing", "Reports", "Preferences", "On-Prem Accounts", and "Activity". The "Inventory" tab is selected. Below the navigation menu, the "Virtual Account" is set to "1_Internal_User_VA1". A sub-menu is open, showing "General", "Licenses", "Product Instances", and "Event Log". The "Licenses" tab is highlighted with a red box and a red circle containing the number "1". Below the sub-menu, there are several buttons: "Available Actions", "Manage License Tags", "License Reservation..." (highlighted with a red box and a red circle containing the number "2"), and a share icon. To the right of these buttons, there is a checkbox for "Show License Transactions" and a search box labeled "Search by License". A help chat window is visible on the right side of the screen.

Starting October 9 2020, all new approved smart accounts will have SLR option available to initiate license reservation in the Inventory Tab.

Also all existing smart accounts will have the option to initiate license reservation in the Inventory Tab, without any need to contact cisco support to enable this feature. Unless it was explicitly disabled, after being enabled, by Cisco Support for a reason.

Any User (Smart Account Admin, Smart Account User, Virtual Account Admin or Virtual Account User) can reserve licenses.

A Virtual Account Admin and User can only do it for the Virtual Accounts they have access to.

Specific License Reservation in SSM

Inventory – Smart License Reservation

- 1 The **Smart License Reservation** wizard appears.
- 2 In the **Step 1: Enter Request Code** page, you can either browse and upload or enter the **Reservation Request Code**.
- 3 Once done, click the **Next** button.

You will see an error message if:

- The code is not valid
- The code entered is valid but associated with a Product Instance which is already associated with a Virtual Account
- The code entered is associated with a Product Instance which is already registered to another Smart Account
- The code entered is associated with a Product Instance which is already associated with a Virtual Account and using reserved licenses

Smart License Reservation

STEP 1 Enter Request Code | STEP 2 Select Licenses | STEP 3 Review and confirm | STEP 4 Authorization Code

You can reserve licenses for product instances that cannot connect to the Internet for security reasons. Rather than having the product instance connect to the Smart Software Manager to request licenses, you will:

- 1) Generate a Reservation Request Code from the product instance
- 2) Enter the Reservation Request Code below
- 3) Select the licenses to be reserved
- 4) Generate a Reservation Authorization Code
- 5) Enter the Reservation Authorization Code on the product instance to activate the features

* Reservation Request Code:

Browse Upload

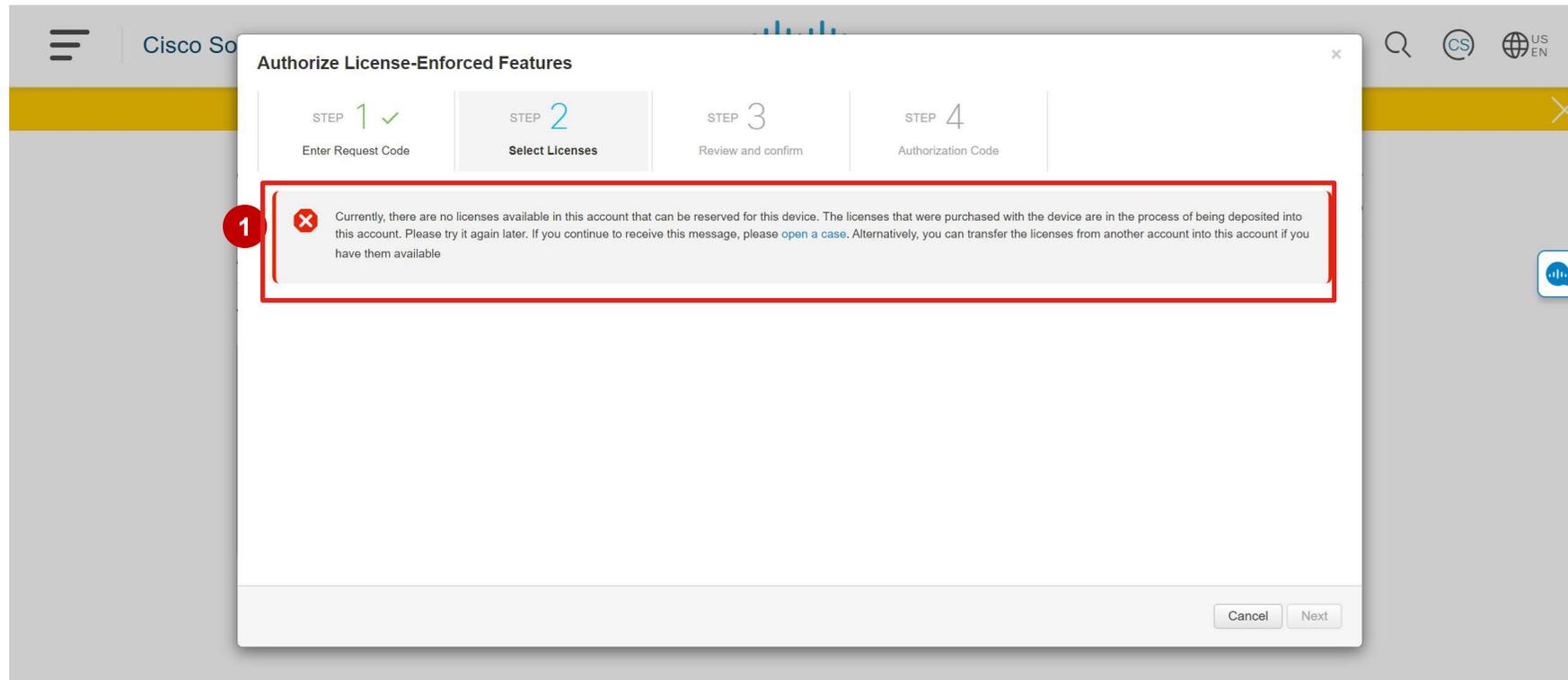
To learn how to generate this code, see the configuration guide for the product being licensed

Cancel Next

Specific License Reservation in SSM Inventory – Smart License Reservation

- 1 If the software license does not exist in the Smart Account but is associated to the Product Instance, then the license will go through an export compliance check (which can take up to 48 hours). Once the export compliance check is released, the license will be provisioned into your Customer Smart Account.

If the software license already exists in the Customer Smart Account, you be able to select immediately the license to be reserved.



Specific License Reservation in SSM Inventory – Smart License Reservation

- 1 The **Step 2: Select Licenses** page appears.
- 2 For the purpose of this training, select **Reserve a specific license**.
- 3 The list of surplus licenses available in your Virtual Account which can be reserved will be displayed in the grid below. *You will view only those entitlements which map to the Product requesting reservation.*
- 4 Click **Next** to go to **Step 3**.

STEP 1 ✓ Enter Request Code

STEP 2 Select Licenses

STEP 3 Review and confirm

STEP 4 Authorization Code

UDI Serial Number: 567892014

UUID: 123456718

Licenses to Reserve

In order to continue, ensure that you have a surplus of the licenses you want to reserve in the Virtual Account.

Reserve a specific license

License	Description	Expires	Available	Quantity To Reserve
ISR G2 1941 NPE NES	ISR G2 1941 NPE NES	multiple terms	140	<input type="text" value="1"/>
Testonly_q2fy14_smart_desc	Testonly_q2fy14_smart_desc	multiple terms	154	<input type="text" value=""/>

Cancel Back Next

Specific License Reservation in SSM Inventory – Smart License Reservation

- 1 If the license has multiple terms for expiry, then you can select the quantity of the entitlement to reserve.

If you don't specify quantities, the licenses with the longest time remaining before expiration will be selected by default.

Note: As you cannot reserve more than what you have, mention a number smaller or equal to the **Available** quantity in the **Quantity to Reserve** column.

ISR G2 1941 NPE NES

Expires	Sub ID	Available	Quantity To Reserve
- never -	-	100	<input type="text"/>
2017-Dec-09	-	40	<input type="text"/>
Total:			<input type="text"/>
Maximum: 140			

If you don't specify quantities, the licenses with the longest time remaining before expiration will be selected by default.

[Show detail](#)

Specific License Reservation in SSM

Inventory – Smart License Reservation

- 1 The **Step 3: Review and Confirm** page appears.
- 2 You can review and confirm your selection.
- 3 Click the **Generate Authorization Code** button.

The screenshot displays the 'Review and confirm' step of the license reservation process. At the top, a progress bar shows four steps: Step 1 (Enter Request Code) with a green checkmark, Step 2 (Select Licenses) with a green checkmark, Step 3 (Review and confirm) which is the current step and highlighted with a red box, and Step 4 (Authorization Code). Below the progress bar, a red box highlights the 'Product Instance Details' section, which includes:

- Product Type: IS
- UDI PID: DemoSlr1
- UDI Serial Number: 567892014
- UUID: 123456718

Below the details is the 'Licenses to Reserve' section, which contains a table with the following data:

License	Description	Expires	Quantity To Reserve
ISR G2 1941 NPE NES	ISR G2 1941 NPE NES	multiple terms	60
Testonly_q2fy14_smart_desc	Testonly_q2fy14_smart_desc	multiple terms	60

At the bottom right of the interface, a red box highlights the 'Generate Authorization Code' button, with a red circle containing the number 3 next to it. Other buttons visible are 'Cancel' and 'Back'.

Specific License Reservation in SSM Inventory – Smart License Reservation

1 The **Step 4: Authorize Code** page appears. You can review and confirm your selection.



Here the system generates the **Authorization Code** that you need to enter back in the device (Product Instance) for the reservation to be effective.

You can copy the **Authorization Code** to your clipboard or you can download it as a file.

STEP 1 ✓ Enter Request Code

STEP 2 ✓ Select Licenses

STEP 3 ✓ Review and confirm

1 STEP 4 Authorization Code

✓ The Reservation Authorization Code below has been generated for the Product Instance. The code must be entered into the Product Instance's Smart Licensing settings to complete the reservation.

Product Instance Details

Product Type:	IS
UDI PID:	DemoS1r1
UDI Serial Number:	567892014
UUID:	123456718

Authorization Code:

```
<specificPLR><authorizationCode><flag>A</flag><version>C</version><piid>930a5807-7053-4848-bd2d-7a1b3f938da7</piid><timestamp>1512587908184</timestamp><entitlements><entitlement><tag>regid.2013-12.com.cisco.isr_g2_1941_npe_NES_ent,1.0_e576ca3d-5d0d-47ac-afee-cc76b9731838</tag><count>60</count><startDate></startDate></endDate></endDate></entitlement><entitlement><tag>regid.2013-11.com.cisco.TEST_Q2FY14_ENT_2_7083806c-6e43-44ee-8e45-5bbc04140a46</tag><count>60</count><startDate></startDate></endDate></endDate></entitlement></entitlements></authorizationCode><signature>MEUCICo3Kh4klbsKHuNXy6gtffYXo6g9pVvy1DjtqwTd/uYXAIEAmTPhHk3RnQoOFli6m2rSEUoYh+0TFrJbmSaRktHJcg=</signature><udi>P:DemoS1r1,S:567892014,U:123456718</udi></specificPLR>
```

Download as File Copy to Clipboard Close

***Note: When the *Registration Authorization Code* is registered for a particular Product Instance then that Product Instance does not sync back to the Cisco SSM and share the license usage information with Cisco SSM.**

Specific License Reservation in SSM Inventory – Smart License Reservation

- 1 Once the licenses are reserved successfully, the main **Licenses** page is displayed showing the reserved license(s).

Note: This screen will also show after the ship confirmation of the order for the Factory Installed Licenses.

The screenshot shows the Cisco Software Central interface for Smart Software Licensing. The page title is "Smart Software Licensing" and the virtual account is "Demo_SLR_1". The "Licenses" tab is selected, showing a table of licenses. A red box highlights the row for "ISR G2 1941 NPE NES", which has 140 purchased licenses, 60 reserved, and 80 balance. The table also shows other licenses like "CSR 1KV APPX 500M" and "Testonly_q2fy14_smart_desc".

License	Billing	Purchased	In Use	Balance	Alerts	Actions
CSR 1KV APPX 500M	Prepaid	13	0	+13	2 Alerts	Actions
ISR G2 1941 NPE NES	Prepaid	140	60 (60 Reserved)	+80	Licenses Expiring	Actions
Testonly_q2fy14_smart_desc	Prepaid	154	60 (60 Reserved)	+94	2 Alerts	Actions

Specific License Reservation in SSM Inventory – Product Instances

- 1 You can view your reserved licenses by clicking on the Product Instances tab and then clicking on the name.
- 2 The Product Instance information shows an overview of your license usage.

The screenshot displays the Cisco Software Central interface for Smart Software Licensing. The breadcrumb trail is "Cisco Software Central > Smart Software Licensing". The page title is "Smart Software Licensing". Navigation tabs include Alerts, Inventory, Convert to Smart Licensing, Reports, Preferences, On-Prem Accounts, and Activity. The current Virtual Account is "Demo_SLR_1". A red box highlights the "Product Instances" tab, with a red arrow pointing to a table row containing the name "UDI_PID:DemoSlr1; UDI_SN:567892014;". A second red box highlights the "General" information section for this instance, which includes fields for Name, Product, Host Identifier, MAC Address, PID, Serial Number, Virtual Account, Registration Date, and Last Contact. Below this is a "License Usage" table with columns for License, Billing, Expires, and Required.

Name	Product Type	Last Contact	Alerts	Actions
UDI_PID:DemoSlr1; UDI_SN:567892014;	IS	2017-Dec-06 19:18:28 (Reserved Licenses)		Actions

General

Name: UDI_PID:DemoSlr1; UDI_SN:567892014;
Product: replaces_current_specific_tags
Host Identifier: -
MAC Address: -
PID: DemoSlr1
Serial Number: 567892014
Virtual Account: Demo_SLR_1
Registration Date: 2017-Dec-06 19:18:28
Last Contact: 2017-Dec-06 19:18:28 (Reserved Licenses) - Download Reservation Authorization Code

License Usage

License	Billing	Expires	Required
Testonly_q2fy14_smart_desc	Prepaid	- never -	60
ISR G2 1941 NPE NES	Prepaid	- never -	60

Note: The same process applies to Factory Installed Licenses

Specific License Reservation in SSM Event Log

The Reserved Licenses will also be shown in the **Event Log**.

The screenshot displays the Cisco Smart Software Licensing interface. The breadcrumb path is "Cisco Software Central > Smart Software Licensing". The account name is "OVERSTOCKCOM INC". The main navigation includes Alerts, Inventory, Convert to Smart Licensing, Reports, Preferences, On-Prem Accounts, and Activity. The current view is for Virtual Account "Demo_SLR_1" and the "Event Log" tab is selected. A search bar is present with the placeholder "Search by License or Product".

Message	Time	User
The license reservation for product instance "UDI_PID:slrDemo1; UDI_SN:92817230;" in Virtual Account "Demo_SLR_1" wa...	2018-Jan-03 14:42:40	Cisco Support
40 "Testonly_q2fy14_smart_desc" term licenses expired and were removed from the Virtual Account "Demo_SLR_1"	2017-Dec-09 08:06:41	System
6 "CSR 1KV APPX 500M" term licenses expired and were removed from the Virtual Account "Demo_SLR_1"	2017-Dec-09 08:06:40	System
40 "ISR G2 1941 NPE NES" term licenses expired and were removed from the Virtual Account "Demo_SLR_1"	2017-Dec-09 08:06:18	System
The product instance "UDI_PID:slrDemo1; UDI_SN:92817230;" in the Virtual Account "Demo_SLR_1" from ...	2017-Dec-08 19:10:50	SSLMTester1
The product instance "UDI_PID:slrDemo1; UDI_SN:92817230;" in the Virtual Account "Demo_SLR_1" to ...	2017-Dec-08 18:45:53	SSLMTester1
The confirmation message for the license reservation for product instance "UDI_PID:slrDemo1; UDI_SN:92817230;" in Virtual Ac...	2017-Dec-08 18:43:37	SSLMTester1
The license reservation for product instance "UDI_PID:slrDemo1; UDI_SN:92817230;" in the Virtual Account "Demo_SLR_1" wa...	2017-Dec-08 18:39:04	SSLMTester1
The following licenses were reserved on product instance "UDI_PID:slrDemo1; UDI_SN:92817230;" in the Virtual Account "...	2017-Dec-08 18:28:38	SSLMTester1

A "Message" dialog box is overlaid on the event log, containing the following text:

The following licenses were reserved on product instance "UDI_PID:slrDemo1; UDI_SN:92817230;" in the Virtual Account "Demo_SLR_1": 60 "ISR G2 1941 NPE NES" (60 perpetual), 20 "Testonly_q2fy14_smart_desc" (20 perpetual).

Press ctrl + c to copy selected text to clipboard.

Specific License Reservation in SSM Event Log

In the **Event Log**, under the scenarios mentioned here below, you will display details of the quantity wise split of entitlements (between term and perpetual). Below you will find the **Event Log messages** for SLR.

1. Anytime a license is reserved, you will display the following message in the event log: "The following licenses were reserved on product instance "XXXX" in Virtual Account "XXXX": <Quantity> "Ent 1" Licenses (<Quantity> expiring DD-MMM-YYYY, <Quantity> expiring DD-MMM-YYYY); <Quantity> "Ent 2" Licenses (<Quantity> expiring DD-MMM-YYYY, <Quantity> expiring DD-MMM-YYYY) and <Quantity> "Ent 3" licenses (<Quantity> perpetual).
2. Anytime a product instance with reserved licenses is transferred between Virtual Accounts, you will display the following message in the event log: "The product instance "XXXX" was transferred from the Virtual Account "XXXX" to the Virtual Account "XXXX" along with the following reserved licenses: <Quantity> "Ent 1" Licenses (<Quantity> expiring DD-MMM-YYYY, <Quantity> expiring DD-MMM-YYYY); <Quantity> "Ent 2" Licenses (<Quantity> expiring DD-MMM-YYYY, <Quantity> expiring DD-MMM-YYYY) and <Quantity> "Ent 3" licenses (<Quantity> perpetual)." in the "From" Virtual Account.
3. Anytime a product instance with reserved licenses is transferred between Virtual Accounts, you will display the following message in the event log: "The product instance was "XXXX" transferred to the Virtual Account "XXXX" from the Virtual Account "XXXX" along with the following reserved licenses: <Quantity> "Ent 1" Licenses (<Quantity> expiring DD-MMM-YYYY, <Quantity> expiring DD-MMM-YYYY); <Quantity> "Ent 2" Licenses (<Quantity> expiring DD-MMM-YYYY, <Quantity> expiring DD-MMM-YYYY) and <Quantity> "Ent 3" licenses (<Quantity> perpetual)." in the "To" Virtual Account.
4. Anytime license reservation is updated such that quantity of the licenses reserved is increased or new licenses are added, you will display the following message in the event log: "The license reservation on product instance "XXXX" in Virtual Account "XXXX" was updated to <Quantity> "Ent 1" licenses (expiring DD-MMM-YYYY), <Quantity> "Ent 2" licenses (expiring DD-MMM-YYYY) and <Quantity> "Ent 3" perpetual licenses. The reservation was previously for <Quantity> "Ent Name" perpetual licenses and <Quantity> "Ent" licenses (expiring DD-MMM-YYYY)." at the Smart Account/Virtual Account level.
5. Anytime license reservation is updated such that quantity of the licenses reserved is decreased, you will display the following message in the event log: "The license reservation on product instance "XXXX" in Virtual Account "XXXX" was updated to <Quantity> "Ent 1" licenses (<Quantity> expiring DD-MMM-YYYY), <Quantity> "Ent 2" licenses (<Quantity> expiring DD-MMM-YYYY) and <Quantity> "Ent 3" licenses (<Quantity> perpetual). The reservation was previously for <Quantity> "Ent Name" perpetual licenses and <Quantity> "Ent" licenses (expiring DD-MMM-YYYY). The licenses that have been removed from the reservation will be returned to the Virtual Account when you enter the confirmation code retrieved from the product instance." at the Smart Account/Virtual Account level.
6. Anytime a license reservation update is cancelled, you will display the following message in the event log: "The license reservation on product instance "XXXX" in Virtual Account "XXXX" has been cancelled. <Quantity> "Ent 1" licenses (expiring DD-MMM-YYYY) and <Quantity> "Ent 2" licenses (<Quantity> perpetual) have been returned to the Virtual Account." at Smart Account/Virtual Account level.
7. Anytime you enter the confirmation code for a decrease (update) in the number of licenses reserved, you will display the following message in the event log: "The confirmation code for the license reservation on product instance "XXXX" in Virtual Account "XXXX" was entered. <Quantity> "Ent 1" term licenses and <Quantity> "Ent 2" licenses (<Quantity> perpetual) have been returned to the Virtual Account." at Smart Account/Virtual Account level.

Update License Reservation

Specific License Reservation in SSM Inventory – Update Reservation

- 1 To **update a reservation made**, on the main Inventory page, click the **Product Instances** tab.
- 2 From the **Actions** drop down, select **Update Reserved Licenses**.



Any user (Smart Account Admin, Smart Account User, Virtual Account Admin or Virtual Account User) can update a reservation.

A Virtual Account Admin and User can only do it for the Virtual Accounts they have access to.

Cisco Software Central > Smart Software Licensing

Smart Software Licensing

Alerts | Inventory | Convert to Smart Licensing | Reports | Preferences | On-Prem Accounts | Activity

Virtual Account: Demo_SLR_1

General | Licenses | **Product Instances** | Event Log

Search by Name, Product Type

Name	Product Type	Last Contact	Alerts	Actions
UDI_PID:DemoSir1; UDI_SN:567892014;	IS	2017-Dec-06 19:18:28 (Reserved Licenses)		Actions ▾
UDI_PID:DemoSir2; UDI_SN:567892014;	IS	2017-Dec-06 19:21:25 (Reserved Licenses)		Actions ▾

Transfer...
Update Reserved Licenses...
Remove...

Note: The same process applies to Factory Installed Licenses

Specific License Reservation in SSM

Inventory – Update Reservation

1 The **Update License Reservation** wizard appears.

The **Step 1: Select Licenses** page shows the reservation made in the past. *You will view only those entitlements which map to the Product requesting reservation.*

On this page, you can update the terms (where applicable) and reservation quantity. In this example, the quantity has been updated from 20 to 40. Once you have made these updates, move ahead to the next step.

Review and confirm your changes in **Step 2**. Then, click the **Generate Authorization Code** button. This would trigger the update from SSM. This code needs to be entered in the device (Product Instance), which would then generate a confirmation code.

1

STEP 1 Select Licenses

STEP 2 Review and confirm

STEP 3 Authorization Code

Product Instance Details

Product Type: IS
UDI PID: DemoSir2
UDI Serial Number: 567892014
UUID: 123456718

Licenses to Reserve

Select the licenses to be reserved for this product instance.

License	Description	Expires	Available	Quantity To Reserve
ISR G2 1941 NPE NES	ISR G2 1941 NPE NES	multiple terms	80	20

Testonly_q2fy14_smart_desc

If the quantity is reduced from the number currently reserved, you must update the reservation.

STEP 1 ✓ Select Licenses

STEP 2 Review and confirm

STEP 3 Authorization Code

Product Instance Details

Product Type: IS
UDI PID: DemoSir2
UDI Serial Number: 567892014
UUID: 123456718

Licenses to Reserve

Review the licenses to be reserved for this product instance.

License	Description	Expires	Quantity To Reserve
ISR G2 1941 NPE NES	ISR G2 1941 NPE NES	multiple terms	40

Cancel Back **Generate Authorization Code**

Specific License Reservation in SSM Inventory – Update Reservation

1 The **Step 3** page of the wizard appears showing that the reservation **Authorization Code** has been generated for the selected product instance.

2 Click the **Close** button to go back to the Product Instance tab.



You will have to copy/paste the Authorization Code into the device (Product Instance), to generate a Confirmation Code and then enter the Confirmation Code in SSM. If you have increased the quantity of entitlements to be reserved, you are not mandated to enter a Confirmation Code in SSM immediately. This is because SSM considers the reservation as soon as the authorization code is generated.

STEP 1 ✓
Select Licenses

STEP 2 ✓
Review and confirm

STEP 3
Authorization Code

✓ The Reservation Authorization Code below has been generated for the Product Instance. Several steps remain:

1. This code must be entered into the Product Instance's Smart Licensing settings to complete the reservation.
2. When the code has been entered, a Reservation Confirmation Code will be generated.
3. To release licenses in transition, enter confirmation code generated by device into CSSM.

Authorization Code:

```
<specificPLR><authorizationCode><flag>A</flag><version>C</version><plid>f20a9bb8-34ed-4358-8c26-7ea8763228e3</plid><timestamp>1512588273901</timestamp><entitlements><entitlement><startDate></startDate><endDate></endDate><tag>regid.2013-12.com.cisco.isr_g2_1941_npe_NES_ent,1.0_e576ca3d-5d0d-47ac-afee-cc76b9731838</tag><count>40</count><licenseType>PERPETUAL</licenseType><displayName>ISR G2 1941 NPE NES</displayName><tagDescription>ISR G2 1941 NPE NES</tagDescription><subscriptionID></subscriptionID></entitlement></entitlements></authorizationCode><signature>MEQCIBlpcvP9EWx/nXM8Ykl9AnuK0t/JxJE+xvPOaPwesFqmAiArH5/1F8ONxyN/WP34nKyC9iw2YxPTCaFWgvOe8TzqHw==</signature><udi>P:DemoSlr2,S:567892014,U:123456718</udi></specificPLR>
```

To learn how to enter this code, see the configuration guide for the product being licensed

Download as File Copy to Clipboard Enter Confirmation Code **Close**



Updated reserved licenses will be displayed in real time in SSM. Only in case the update results in reduction of licenses reserved, the reduced quantity will be in transition till the Confirmation Code is entered back in SSM.

Specific License Reservation in SSM

Inventory – Update Reservation

- 1 Click the name of the product instance to open a dialog box showing all the details for that product instance.
- 2 Here you can see the updated quantity. In this case, it should be 40.

Cisco Software Central > Smart Software Licensing

Smart Software Licensing

[Alerts](#) | [Inventory](#) | [Convert to Smart Licensing](#) | [Reports](#) | [Preferences](#) | [On-Prem Accounts](#) | [Activity](#)

Virtual Account: [Demo_SLR_1](#)

General | Licenses | **Product Instances** | Event Log



Name	Product Type	Last Contact	Alerts	Actions
UDI_PID:slrDemo1; UDI_SN:92817230;	IS	2018-Jan-03 14:42:40 (Reserved Licenses)	License Reservation Pending	Actions

Showing 1 Record

UDI_PID:slrDemo1; UDI_SN:92817230;

Overview | Event Log

Description
akat_onlyspecific_tags_replaces_current

General

Name: UDI_PID:slrDemo1; UDI_SN:92817230;
Product: replaces_current_specific_tags
Host Identifier: -
MAC Address: -
PID: slrDemo1
Serial Number: 92817230
Virtual Account: Demo_SLR_1
Registration Date: 2017-Dec-08 18:28:37
Last Contact: 2018-Jan-03 14:42:40 (Reserved Licenses) - [Download Reservation Authorization Code](#)

License Usage

License	Billing	Expires	Required
Testonly_q2fy14_smart_desc	Prepaid	- never -	40

Showing all 1 Rows

Actions

 You cannot make any other update on the same product instance until the previous update workflow is complete.

To proceed further, you either enter the confirmation code or cancel the previous update. Only Cisco Admins or Cisco Support have the rights to cancel an ongoing update.

Specific License Reservation in SSM

Inventory – Update Reservation

- 1 A dialog box will be displayed for you to **Enter Confirmation Code**.

Enter or upload the code here for the update to be effective.

Once you click the **OK** button, you will see that the licenses have been reserved successfully and any reduced quantity is released back to the license pool.

In addition, the “License Reservation Pending” alert message disappears from the main page.

Enter Confirmation Code

To complete the license reservation, enter the Reservation Confirmation Code that was generated by the product instance after the Reservation Authorization Code was entered.

* Reservation Confirmation Code:

Browse Upload

To learn how to retrieve this code, see the configuration guide for the product being licensed

OK Cancel

Virtual Account: Demo_SLR_1

General Licenses **Product Instances** Event Log

Search by Name, Product Type

Name	Product Type	Last Contact	Alerts	Actions
UDI_PIQ:DemoSlr1.UDI_SN:567892014.	IS	2017-Dec-06 19:33:50 (Reserved Licenses)		Actions

Showing 1 Record

The licenses have been successfully reserved

Specific License Reservation in SSM Inventory – Update Reservation

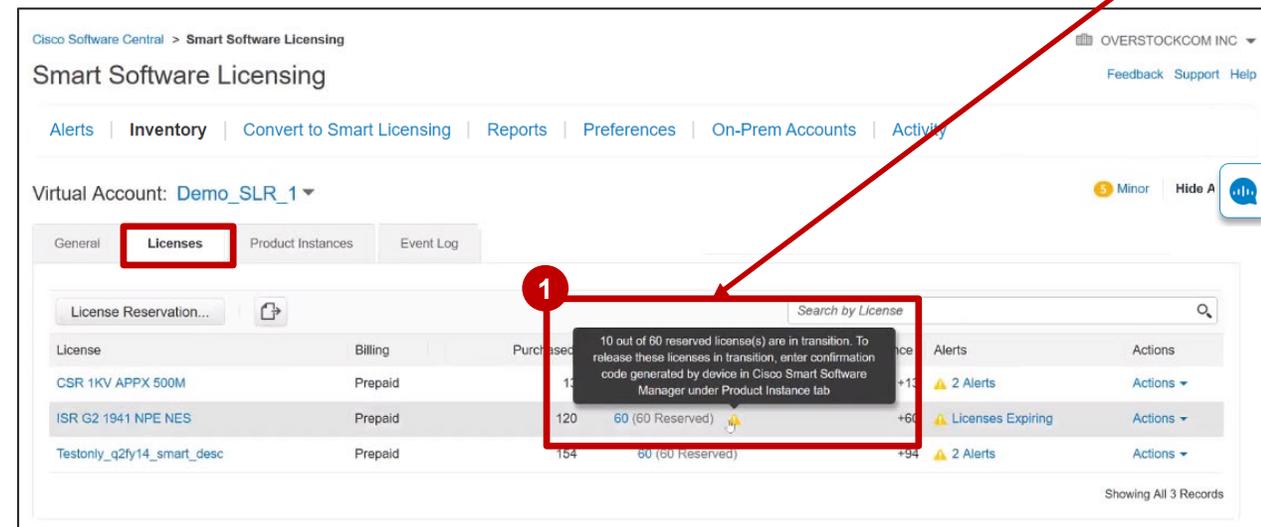
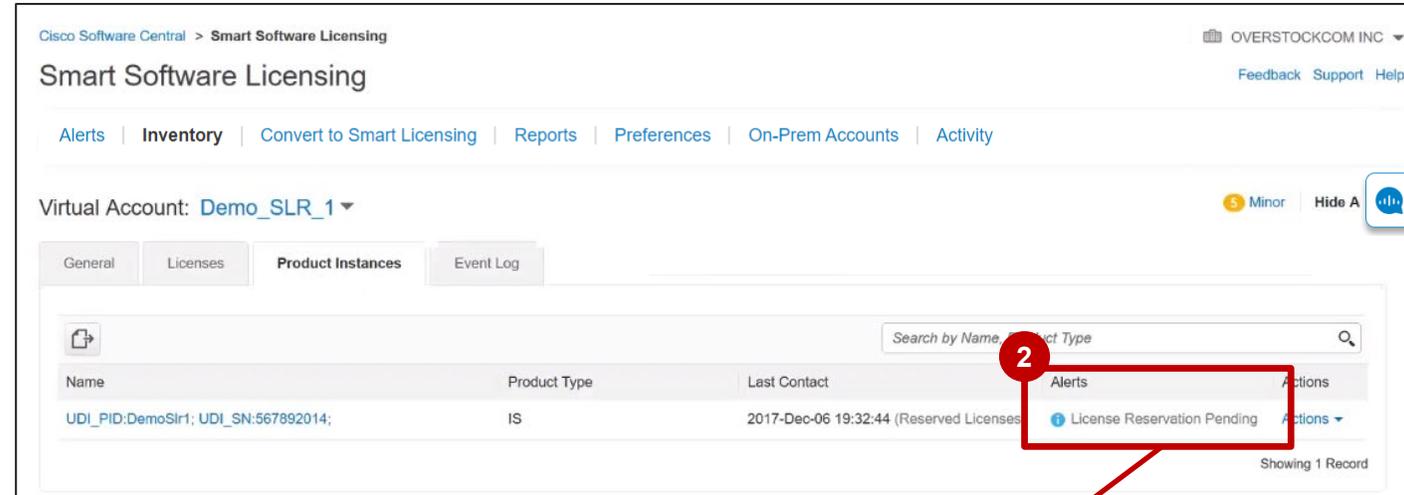
There are two options:

Option 1: If you have increased the quantity of entitlements to be reserved and you don't enter the confirmation code, the reservation would still be effective. This is because SSM considers the reservation as soon as the authorization code is generated.

Option 2: If you have decreased the quantity, of entitlements, you will have to enter the confirmation code to make the reduced quantity of entitlements available back in the pool. Such entitlements are called in-transition.

1 The first screenshot shows the Alert Message corresponding to a Product Instance which has licenses in transition.

2 The second screenshot shows the **Licenses** tab. Here you can see the quantity available of license or entitlement in transition.



Specific License Reservation in SSM

Inventory – Updating Errors

1 If you try to update a license reservation that is still pending, you will receive an error message. In other words, if you try to update a reservation which was already updated (but confirmation code was not entered back in SSM), you will be stopped and asked to enter the confirmation code. The error message will list the steps to get your confirmation code which would finalize your previous update.

2 When you click **Enter Confirmation Code**, you will be taken to a screen that allows you to type the confirmation code or browse and upload the code.

3 Upon clicking **OK**, you can perform another update on your license reservation.

Previous Update Still Pending

The reserved licenses on this product instance cannot be updated because an earlier update is still pending.

1

Next steps:

- 1) Enter the authorization code from the previous update in the Smart Licensing settings on the product instance
- 2) Receive a confirmation code from the product instance
- 3) Enter the confirmation code to complete the update

If you are unable to complete the previous update, you can [open a case](#) to cancel it.

Enter Confirmation Code

To complete the license reservation, enter the Reservation Confirmation Code that was generated by the product instance after the Reservation Authorization Code was entered.

* Reservation Confirmation Code:

To learn how to retrieve this code, see the configuration guide for the product being licensed

3

2

Specific License Reservation in SSM

Inventory – Updating Errors

- 1 If for any reason, you are not able to complete the previous update, you can open a case.

 **Previous Update Still Pending** ✕

The reserved licenses on this product instance cannot be updated because an earlier update is still pending.

Next steps:

- 1) Enter the authorization code from the previous update in the Smart Licensing settings on the product instance
- 2) Receive a confirmation code from the product instance
- 3) Enter the confirmation code to complete the update

If you are unable to complete the previous update, you can [open a case](#) to cancel it.

[Enter Confirmation Code](#) [Close](#)

Specific License Reservation in SSM

Inventory – Updating License Reservation for Expired Licenses

- 1 If you try to update a license reservation which has expired licenses, you will be prompted that you will lose the expired reserved license after the update. You will be given the option of a replacement if there exists a replacement.

The screenshot shows the warning message being displayed when you try to update license reservation in case of expired licenses.

Update License Reservation

STEP 1 **Select Licenses** STEP 2 Review and confirm STEP 3 Authorization Code

1

⚠ There are expired licenses on this product instance for which there is no current replacement available. Any features that are enabled by expired licenses will be disabled when this update is completed.
If you want the features to remain enabled, add current licenses to your account, and assign them to the product instance, prior to updating the reservation.

Product Instance Details

Product Type:	CSR1KV
UDI PID:	PLR_V2_Nov27_01S
UDI Serial Number:	PLR_V2_Nov27_01S
Host Identifier:	PLR_V2_Nov27_01S
MAC Address:	PLR_V2_Nov27_01S
SUVI:	PLR_V2_Nov27_01S
UDI VID:	PLR_V2_Nov27_01S
UUID:	PLR_V2_Nov27_01S

Licenses to Reserve

Specific License Reservation in SSM

When you scroll down in the Update License Reservation dialog box, you will see the quantity of licenses expired and also the licenses available for replacement (if any replacement licenses are available).

There are 3 possible options:

- Expired reserved licenses but replacement available.
- Expired reserved licenses but no replacement available.
- Expired reserved licenses but insufficient replacement available.

1 The highlighted section shows that for 10 licenses that have expired, we have 15 licenses available that can be used to replace the expired ones. So, the user can either use all 15 or use only 10 out of 15 to replace the expired 10 licenses. This is a scenario wherein reserved term licenses (10) have expired and inventory had enough licenses for replacement.

Update License Reservation

STEP 1 Select Licenses | STEP 2 Review and confirm | STEP 3 Authorization Code

Licenses to Reserve

Select the licenses to be reserved for this product instance.

License	Description	Expires	Available	Quantity To Reserve
CSR 1KV AX 10M	CSR 1KV AX 10M	2018-Jan-24	Expired	10
		2018-Jul-31	15	<input type="text"/>
CSR 1KV IP BASE 50M	CSR 1KV IP BASE 50M	2018-Jan-24	Expired	10
CSR 1KV APPX 500M	CSR 1KV APPX 500M	2018-Jan-24	Expired	10

If the quantity is reduced from the number currently reserved, the unreserved licenses will become available in the inventory, once the confirmation code is returned from the product instance.

Cancel Next

Specific License Reservation in SSM

Inventory – Updating License Reservation for Expired Licenses

1 Please note that not all expired licenses will have a replacement available.

Here you can see that 10 licenses have expired but there is no replacement available for those 10 licenses.

Update License Reservation

STEP 1 Select Licenses | STEP 2 Review and confirm | STEP 3 Authorization Code

Licenses to Reserve

Select the licenses to be reserved for this product instance.

License	Description	Expires	Available	Quantity To Reserve
CSR 1KV AX 10M	CSR 1KV AX 10M	2018-Jan-24	Expired	10
		2018-Jul-31	15	<input type="text"/>
CSR 1KV IP BASE 50M	CSR 1KV IP BASE 50M	2018-Jan-24	Expired	10
CSR 1KV APPX 500M	CSR 1KV APPX 500M	2018-Jan-24	Expired	10

If the quantity is reduced from the number currently reserved, the unreserved licenses will become available in the inventory, once the confirmation code is returned from the product instance.

Cancel Next

Transfer of Reserved Entitlements

Specific License Reservation in SSM

Inventory – Transfer of Reserved Entitlements

- 1 If you need to transfer reserved entitlements to another Virtual Account, go to the **Product Instances** tab.
- 2 From the **Actions** drop down, select **Transfer**.

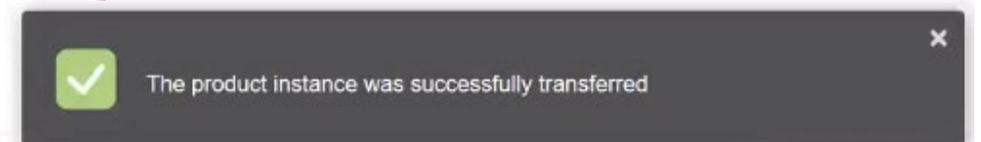
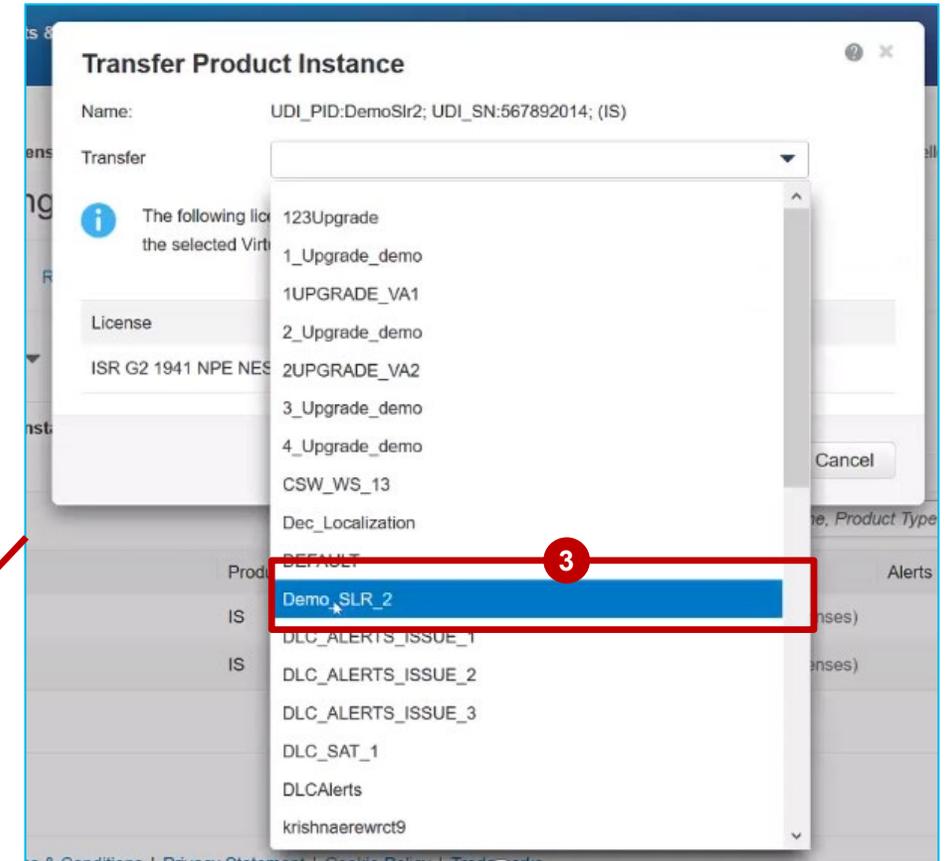
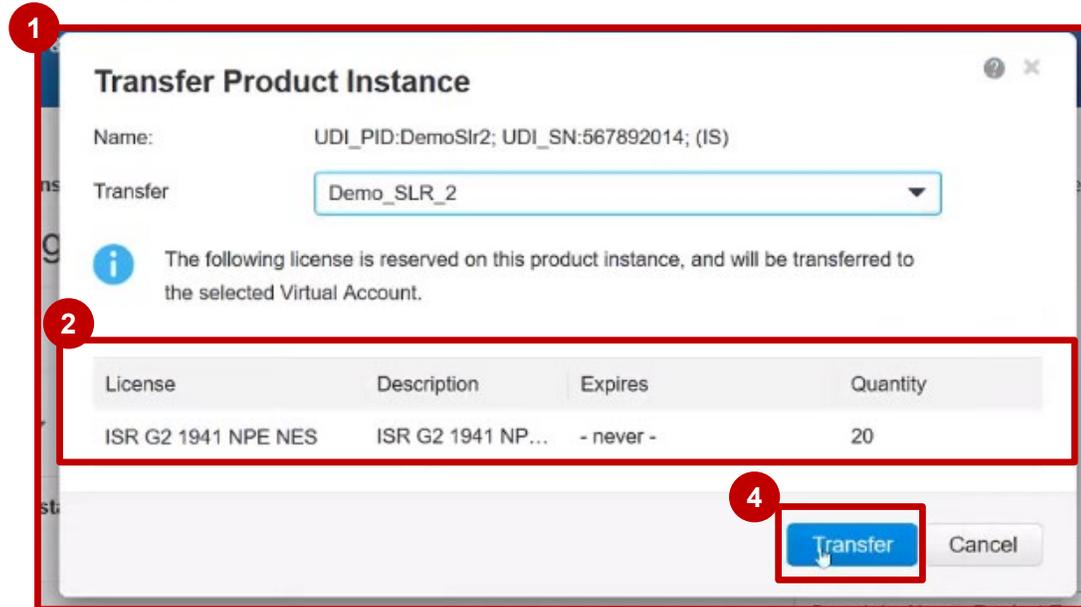
The screenshot displays the Cisco Software Central interface for Smart Software Licensing. The breadcrumb path is "Cisco Software Central > Smart Software Licensing". The account name is "OVERSTOCKCOM INC". The main navigation bar includes "Alerts", "Inventory", "Convert to Smart Licensing", "Reports", "Preferences", "On-Prem Accounts", and "Activity". The current Virtual Account is "Demo_SLR_1". The "Product Instances" tab is selected and highlighted with a red box and a red circle containing the number 1. Below the tabs is a search bar with the placeholder text "Search by Name, Product Type". A table lists two reserved licenses:

Name	Product Type	Last Contact	Alerts	Actions
UDI_PID:DemoSlr1; UDI_SN:567892014;	IS	2017-Dec-06 19:18:28 (Reserved Licenses)		Actions ▾
UDI_PID:DemoSlr2; UDI_SN:567892014;	IS	2017-Dec-06 19:24:34 (Reserved Licenses)		Actions ▾

The "Actions" dropdown menu for the second license is open, showing options: "Transfer...", "Update Reserved Licenses...", and "Remove...". The "Transfer..." option is highlighted with a red box and a red circle containing the number 2. The footer contains links for "Contacts", "Feedback", "Help", "Site Map", "Terms & Conditions", "Privacy Statement", "Cookie Policy", and "Trademarks".

Specific License Reservation in SSM Inventory – Transfer of Reserved Entitlements

- 1 The **Transfer Product Instance** dialog box appears.
- 2 Here you will see that when you transfer a product instance to another Virtual Account, the reserved entitlements will be transferred along with it.
- 3 Select the Virtual Account to which Product Instance and Licenses will be transferred from the drop-down menu.
- 4 Click the **Transfer** button. You will see the message showing that the transfer was successful.



Specific License Reservation in SSM Inventory – Transfer of Reserved Entitlements

- 1 Please note that you will not be able to transfer reserved license between Virtual Accounts as they are reserved by a product instance for a Virtual Account.

You can only transfer reserved licenses together with its Product Instance.

1

Transfer Licenses Between Virtual Accounts

License: Lorem-ipsuM-dolor-restricted in Delaware (Purchased: 5, Balance: +3)

Transfer: To

Quantity: Expires 2017-Sep-25 Available: 1

Quantity: Expires 2018-Jul-19 Available: 1

i Some of these licenses have been reserved on product instances, so they are not available to be transferred.

Click Preview to see resulting license counts

[Complete Transfer](#) [Preview](#) [Cancel](#)

Removing a Product Instance

Specific License Reservation in SSM

Remove Product Instance

When licenses are reserved on a Product Instance, there are two ways to remove a Product Instance from your Smart Account and release ALL of the licenses reserved for that Product Instance:

1 If the **Product Instance is operational** (graceful removal):

You can “return” the SLR Authorization by creating a **Reservation Return Code** on the **Product Instance** (which removes the Authorization Code) and then enter the **Reservation Return Code** into SSM.

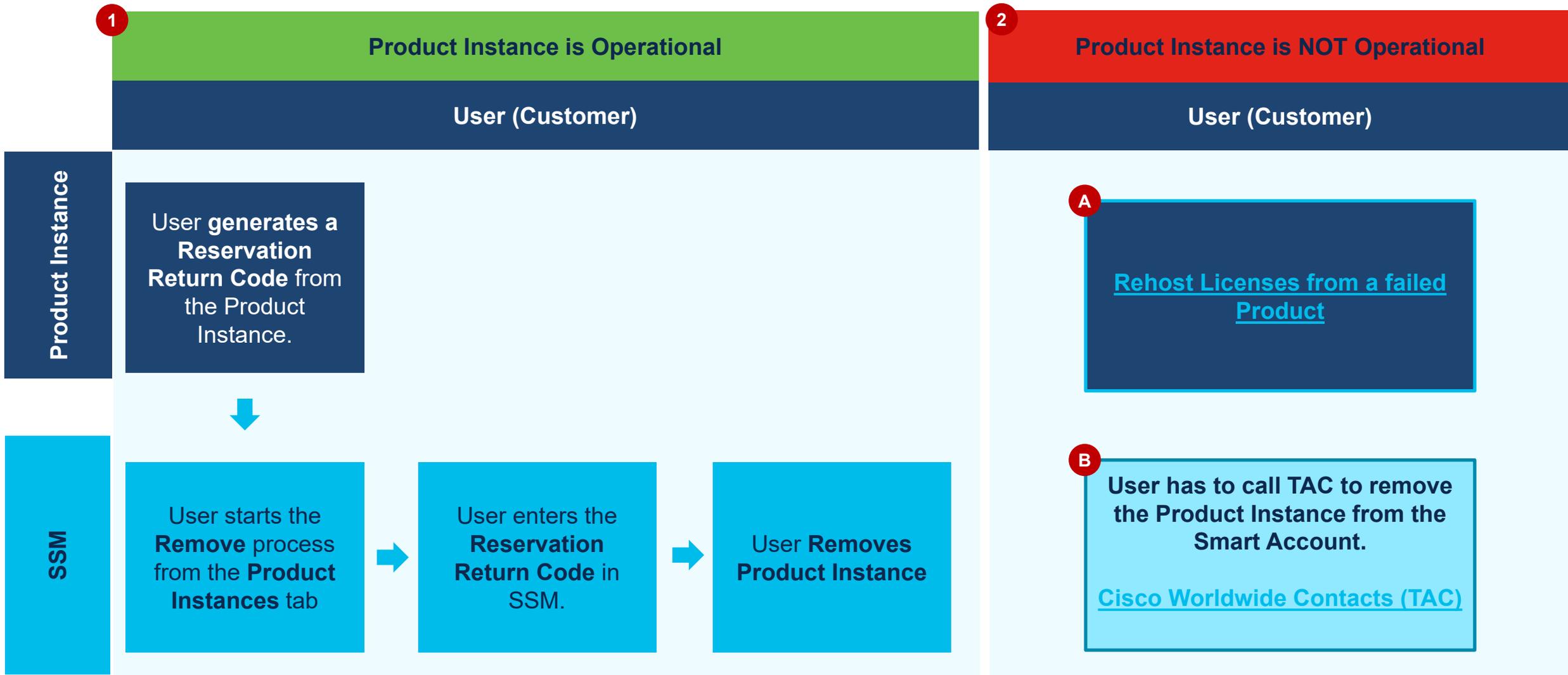
- *Note: you cannot set all of your license reservations to zero in SSM – this causes an error.*

2 If the **Product Instance is NOT operational** (Failure/RMA or due to destroying the VM/container):

You can [Rehost the Product Instance \(check this section of the this training\)](#).

In case of any issues you need to call TAC, who can remove the Product Instance from your Smart Account.

Specific License Reservation in SSM



Specific License Reservation in SSM

Remove Product Instance

1a If the **Product Instance is operational**, you can go to the **Product Instances** tab.

1b Under actions, click **Remove**

The screenshot displays the Cisco Software Central interface for Smart Software Licensing. The breadcrumb path is "Cisco Software Central > Smart Software Licensing". The page title is "Smart Software Licensing". Navigation links include Alerts, Inventory, Convert to Smart Licensing, Reports, Preferences, On-Prem Accounts, and Activity. The Virtual Account is "Expired_License". The "Product Instances" tab is selected and highlighted with a red box and a red circle labeled "1a". Below the tabs is a search bar "Search by Name, Product Type" and a table with columns: Name, Product Type, Last Contact, Alerts, and Actions. The table contains one row with the following data: Name: "UDI_PID:pid4001; UDI_SN:sn4001; UDI_VID:vid4001;", Product Type: "CSR1KV", Last Contact: "2018-Jan-23 10:04:48 (Reserved Licenses)", and Actions: "Actions". A context menu is open over the "Actions" column, with the "Remove..." option highlighted by a red box and a red circle labeled "1b". Other options in the menu are "Transfer..." and "Update Reserved Licenses...".

Specific License Reservation in SSM

Remove Product Instance

- 1c To remove a **Product Instance** that has reserved licenses and make those licenses once again available to other Product Instances, enter in the **Reservation Return Code** generated by the Product Instance.
- 1d Then, click on **Remove Product Instance**

If you cannot generate a Reservation Return Code, contact Cisco Support.

The screenshot shows the Cisco Software Central interface with a modal dialog box titled "Remove Product Instance". The dialog box contains the following text: "To remove a Product Instance that has reserved licenses and make those licenses once again available to other Product Instances, enter in the Reservation Return Code generated by the Product Instance. If you cannot generate a Reservation Return Code, contact Cisco Support". Below this text is a text input field labeled "Reservation Return Code:" with the placeholder text "Enter the Reservation Return Code". At the bottom of the dialog box, there are two buttons: "Remove Product Instance" (highlighted with a red box and labeled 1d) and "Cancel". The background interface shows the "Smart Software Licensing" section with a table of product instances. The table has columns for Name, Product Type, Last Contact, Alerts, and Actions. One record is visible with the name "UDI_PID:pid4001; UDI_SN:sn4001; UDI_VID:vid4001", Product Type "CSR1KV", and Last Contact "2018-Jan-23 10:04:48 (Reserved Licenses)".

Name	Product Type	Last Contact	Alerts	Actions
UDI_PID:pid4001; UDI_SN:sn4001; UDI_VID:vid4001;	CSR1KV	2018-Jan-23 10:04:48 (Reserved Licenses)		Actions

Reporting Only Licenses

Specific License Reservation in SSM

Reporting Only Licenses

- ✓ **Reporting Only Licenses** are zero-dollar base licenses that are bundled with the hardware and these licenses are not purchased separately via a commerce transaction.
- ✓ When the User is purchasing a device which has **Reporting Only Licenses** mapped to it, after the order is completed, the **Reporting Only Licenses** will not automatically flow in the Inventory pool in SSM.
- ✓ **When the User registers the Product Instance (Device) in SSM, the User will see the consumption of Reporting Only Licenses in the Inventory, in the Smart Account/Virtual Account to which the device is registered.**
- ✓ **Specific License Reservation** capability is extended to **Reporting Only Licenses**. If a device's Product ID has **any Reporting Only Licenses** mapped to it, then at the time of reservation of regular entitlements in Smart Software Manager (SSM), an option will be provided to reserve **Reporting Only** entitlements in unlimited quantity. This applies for both initial reservation as well as update reservation workflow.
- ✓ **It is possible to reserve unlimited quantity of Reporting Only Licenses**, which are perpetual. However, reservation of **Reporting Only Licenses** is enabled only when the Product reserving those licenses has them mapped to itself.
- ✓ Removing a Product Instance will result in a permanent removal of **Reporting Only License** from the License Inventory.
- ✓ Any reserved **Reporting Only Licenses** will not be released back to the pool if the Product Instance is removed or if reservation is updated for the **Reporting Only Licenses**.

Specific License Reservation in SSM

Reporting Only Licenses

- 1 When you register a product instance, PI reserves the "Reporting Only" License, this license will be visible in the **Licenses** tab of your Virtual Account.
- 2 An entry is created in SSM so the purchased quantity and in use are exactly the same; there will never be a surplus or shortage. Reporting Only Licenses will be seen in the reserved state.

The screenshot shows the Cisco Software Central interface for Smart Software Licensing. The breadcrumb trail is "Cisco Software Central > Smart Software Licensing". The current page is "Smart Software Licensing" for a "Virtual Account: Reporting 1". The "Licenses" tab is selected, and a red box highlights it with a "1". Below the tabs, there is a "License Reservation..." button and a search bar labeled "Search by License". A table displays the license reservation details:

License	Billing	Purchased	In Use	Balance	Alerts	Actions
BAT_Reporting1	Prepaid	11	11 (11 Reserved)	0		Actions
FP8130-TAMC-LIC=	Prepaid	20	0	+20		Actions

A red box highlights the "Purchased" and "In Use" columns for the "BAT_Reporting1" license, with a "2" next to it. The "In Use" value is "11 (11 Reserved)". At the bottom right, it says "Showing All 2 Records".

*Note: this process is applicable to **Reporting Only Licenses** irrespective of them being Reserved or Not.*

Specific License Reservation in SSM Reporting Only Licenses

- 1 When you click on the License Name for a Reporting Only License in the **License** tab of SSM, a message will be displayed: ***this license is included with certain products and is automatically added to your Smart Account during Product Instance registration. These licenses can only be transferred to other Virtual Accounts along with the Product Instances using them.***

Note: this process is applicable to **Reporting Only Licenses** irrespective of them being Reserved or Not.

The screenshot shows the Cisco Software Central interface for Smart Software Licensing. The main table lists licenses with columns for License, Billing, Purchased, In Use, Balance, Alerts, and Actions. A red box highlights the 'FirePower_Reporting' license, which is Prepaid, with 4 purchased and 4 in use. Below this, a 'Virtual Account Usage' section shows a donut chart where 4 units are in use (100%). A red arrow points from the license name in the table to an information message box that states: 'This license is included with certain products and is automatically added to your Smart Account during Product Instance registration. These licenses can only be transferred to other Virtual Accounts along with the Product Instances using them.' Below this message is a 'License Types' table.

Count	Type	Reserved	Start Date	Expiration Date	Subscription ID
4	Perpetual	4	-	-	-

Specific License Reservation in SSM Reporting Only Licenses

- 1 You will not be able to transfer a "Reporting Only" License between Virtual Accounts. If you attempt to do this an error message will be displayed.

This is because the Reporting Only License is locked to the product instance and can only be transferred if the product instance is transferred.

Cisco Software Central > Smart Software Licensing

Virtual Account: AK

License	Billing	Purchased	In Use	Balance	Alerts	Actions
FirePower_Reporting	Prepaid	4	4	0		Actions
FP8270_lic	Prepaid	8	4	+4		Transfer..

Showing All 2 Records

Cisco Software Central

Smart Software Licensing

Virtual Account: AK

Unable to Transfer

The selected license "FirePower_Reporting" is included with particular product types and can only be transferred with the Product Instances that are using them

OK

*Note: this process is applicable to **Reporting Only Licenses** irrespective of them being Reserved or Not.*

Specific License Reservation in SSM

Reporting Only Licenses

- 1 In the Product Instances Tab you will be able to transfer Product Instances from one Virtual Account to another, even when they have "Reporting Only" Licenses.

Virtual Account: VA2

General Licenses Product Instances Event Log

Search by Name, Product Type

Name	Product Type	Last Contact	Alerts	Actions
JMReportOnly3	ASR1000	2016-Mar-10 15:18:19		Actions
UDI_PID:JMReportOnly2; UDI_SN:JMRepo...	ASR1000	2016-Mar-10 15:17:40		Actions

Transfer Remove

Note: The same occurs when transferring a Product that is Reserving a **Reporting Only License**.

Cisco Software Central > Smart Software Licensing

Smart Software Licensing

Alerts Inventory Convert to Smart Licensing Reports

Virtual Account: VA2

General Licenses Product Instances Event Log

Name Product Type

JMReportOnly3	ASR1000
UDI_PID:JMReportOnly2; UDI_SN:JMRepo...	ASR1000

Transfer Product Instance

Name: UDI_PID:JMReportOnly2; UDI_SN:JMReportOnly2; (ASR1000)

Transfer To: V3

Because this Product Instance is using licenses that were automatically included during registration, the following licenses will also be transferred:

- 15 - test12345 (perpetual)
- 13 - pav_test_reporting (perpetual)

Transfer Cancel

Specific License Reservation in SSM

Reporting Only Licenses

1 When updating the quantity of **Reporting Only Licenses**, whenever the quantity of licenses reservation increases, the SSM Inventory will show the updated Reporting Only Licenses that are reserved.

If there is a decrease in reservation of Reporting Only Licenses, those licenses, unlike regular ones, will not go to 'In Transition' state. The reservation will be released, they will be decreased in the License Inventory, however these licenses will not be added back to the pool.

If there are **Reporting Only Licenses** mapped to the product during license reservation/reservation update, the user will see and reserve an unlimited quantity of **Reporting Only Licenses**.

Update License Reservation

STEP 1 **Select Licenses** | STEP 2 Review and confirm | STEP 3 Authorization Code

SUVI: fp-pid-08
UDI VID: fp-pid-08
UUID: fp-pid-08

Licenses to Reserve
Select the licenses to be reserved for this product instance.

License	Description	Expires	Available	Quantity To Reserve
FP8270_lic	FP8270_lic	2018-Nov-25	9	<input type="text" value="3"/>
FirePower_Reporting	FirePower_Reporting	- never -	unlimited	<input type="text" value="9"/>

If the quantity is reduced from the number currently reserved, the unreserved licenses will become available in the inventory, once the confirmation code is returned from the product instance.

Update License Reservation

STEP 1 **Select Licenses** ✓ | STEP 2 **Review and confirm** | STEP 3 Authorization Code

Host Identifier: fp-pid-08
MAC Address: fp-pid-08
SUVI: fp-pid-08
UDI VID: fp-pid-08
UUID: fp-pid-08

Licenses to Reserve
Review the licenses to be reserved for this product instance.

License	Description	Expires	Quantity To Reserve
FP8270_lic	FP8270_lic	2018-Nov-25	3
FirePower_Reporting	FirePower_Reporting	- never -	9

Cancel Back **Generate Authorization Code**

Transfer Product Instances Between Smart Accounts

Specific License Reservation in SSM

Transfer Product Instances between Smart Accounts

Product Instances reserving licenses can now be transferred between Smart Accounts without major overhead.

To improve Customer experience, Cisco Admins can now to transfer Product Instances Reserving Licenses from one Smart Account to another Smart Account in Smart Software Manager (SSM).

This process will begin once a Customer raises a case to request transfer of Product Instances from one Smart Account to another Smart Account.

In order to transfer Product Instances Reserving Licenses from one Smart Account to another Smart Account in SSM, the Customer needs to open a case via [Support Case Manager \(SCM\)](#).

When opening a case the Customer should include the following information:

- ✓ Destination and source SA/VA
- ✓ Product Instance reserving license to be transferred
- ✓ Business case (business reason for the transfer)

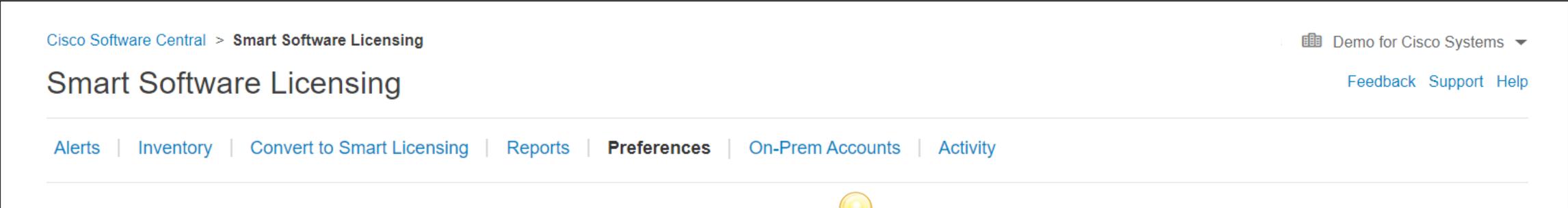
Self-Serve License Provisioning in SSM

Specific License Reservation in SSM

Self-Serve License Provisioning in SSM

You can now **update License Reservation** and **add Licenses to Product Instances** when these Licenses are not reflected in the Inventory. When you reserve regular licenses, you will be able to reserve additional licenses that you are entitled to use as they are mapped to a specific Product, so that you may have access to additional licenses. *This applies in particular to Products such as CUBE and CSR (but not exclusively).*

- 1 In the **Preferences tab**, the **Add to Inventory** option will be **Enabled** by default. The Customer Smart Account Administrator can disable this option, if needed (however the recommendation is to have it enabled).



The screenshot shows the Cisco Software Central interface for Smart Software Licensing. The breadcrumb trail is 'Cisco Software Central > Smart Software Licensing'. The page title is 'Smart Software Licensing'. The navigation menu includes 'Alerts', 'Inventory', 'Convert to Smart Licensing', 'Reports', 'Preferences', 'On-Prem Accounts', and 'Activity'. The 'Preferences' tab is selected. Under the 'License Configuration' section, the 'Add to Inventory' option is set to 'Enabled' with a dropdown arrow and a 'View Change Log' link. A red box highlights this section, with a red circle containing the number '1' next to it. A lightbulb icon is positioned above a blue callout box on the right side of the screenshot.

1 Add to Inventory: Enabled [View Change Log](#)

Allows licenses available on a product instance to be added to the inventory

For some products (like CUBE), the total count of licenses the device is entitled to cannot be defined at the time of Device Led Conversion. However, Device Led Conversion can happen only once, so the user is unable to convert all the licenses they are entitled to in that case.

Specific License Reservation in SSM

Self-Serve License Provisioning in SSM

- 1 Click on **License Reservation**
- 2 Then, in **Step 1**, enter the **Reservation Request code**.
- 3 Click **Next**

The screenshot displays the Cisco Software Central interface for Smart Software Licensing. On the left, the 'Licenses' tab is active, showing a table of licenses. A red circle with the number '1' highlights the 'License Reservation...' button. On the right, a modal window titled 'Smart License Reservation' is open, showing a four-step process. A red circle with the number '2' highlights the 'Reservation Request Code' input field, which contains the code 'CB-PPIDSABCBFIEa_16DEC3_SCSR_KT_VCSR_KT_BCSR_KT_UCSR_KT_HCSR_KT_MCSR_KT-AB5mvN3it-6T'. A red circle with the number '3' highlights the 'Next' button at the bottom right of the modal.

Cisco Software Central > Smart Software Licensing

Smart Software Licensing

Alerts | Inventory | Convert to Smart Licensing | Reports | Preferences | On-Prem Accounts | Accounts

Virtual Account: California

General | Licenses | Product Instances | Event Log

Available Actions | Manage License Tags | License Reservation... |

License	Billing	Purchased
BAT_Export_1 Pacific	Prepaid	2
BAT_Export_3 Pacific	Prepaid	14
C9300 48P DNA Advantage Pacific	Prepaid	7
C9300 DNA Advantage Pacific	Prepaid	10

Smart License Reservation

STEP 1 Enter Request Code | STEP 2 Select Licenses | STEP 3 Review and confirm | STEP 4 Authorization Code

You can reserve licenses for product instances that cannot connect to the Internet for security reasons. You will begin by generating a Reservation Request Code from the product instance. To learn how to generate this code, see the configuration guide for the product being licensed.

Once you have generated the code:

- 1) Enter the Reservation Request Code below
- 2) Select the licenses to be reserved
- 3) Generate a Reservation Authorization Code
- 4) Enter the Reservation Authorization Code on the product instance to activate the features

Reservation Request Code:

CB-PPIDSABCBFIEa_16DEC3_SCSR_KT_VCSR_KT_BCSR_KT_UCSR_KT_HCSR_KT_MCSR_KT-AB5mvN3it-6T

Browse Upload

To learn how to enter this code, see the configuration guide for the product being licensed

Cancel Next

Specific License Reservation in SSM

Self-Serve License Provisioning in SSM

- 4 In Step 2, you will have the option to **Add to Inventory**. You can **add licenses to your Inventory**: licenses that you are entitled to use as they are mapped to that Product. The available licenses are shown on the list.
- 5 **Click Next**

Smart License Reservation

STEP 1 ✓ Enter Request Code

STEP 2 Add to Inventory

STEP 3 Select Licenses

STEP 4 Review and confirm

STEP 5 Authorization Code

Licenses Available to Add

License	Expires	Available	Add to Inventory
ent_unrestricted ent_unrestricted	-never-	250	<input type="text" value="150"/>
SKU_unres_DHI Standard_unres_DHI	-never-	250	<input type="text" value="100"/>
CSR 1KV AX 100M CSR 1KV AX 100M	-never-	250	<input type="text"/>
CSR 1KV ADVANCED 10M CSR 1KV ADVANCED 10M	2019-Mar-18	100	<input type="text"/>
CSR 1KV ADVANCED 25M CSR 1KV ADVANCED 25M	2019-Feb-16	20	<input type="text"/>
CSR 1KV STANDARD 2.5G CSR 1KV STANDARD 2.5G	2019-Mar-18	100	<input type="text"/>
QA Unrestricted EntTest1 QA Unrestricted EntTest1	-never-	250	<input type="text"/>
CSR 1KV STD 10G CSR 1KV STD 10G	2019-Feb-16	50	<input type="text"/>

Cancel Back **Next**

For each License, you can choose to Add to Inventory only once (one attempt).

Even if you don't select the entire quantity available here, you won't be able to add the remaining quantity at the next attempt (Reservation update).

If you don't add the entire quantity available at the first attempt, you can open a case via

Specific License Reservation in SSM

Self-Serve License Provisioning in SSM

6 In **Step 3, Select Licenses**, click on **Reserve a Specific License**

Smart License Reservation

STEP 1 ✓ Enter Request Code

STEP 2 ✓ Add to Inventory

STEP 3 Select Licenses

STEP 4 Review and confirm

STEP 5 Authorization Code

Product Instance Details

Product Type:	CSR1KV
UDI PID:	PIDSABCBFIEA_16DEC3
UDI Serial Number:	CSR_KT
Host Identifier:	CSR_KT
MAC Address:	CSR_KT
SUVI:	CSR_KT
UDI VID:	CSR_KT
UUID:	CSR_KT

6 Licenses to Reserve

In order to continue, ensure that you have a surplus of the licenses you want to reserve in the Virtual Account.

Cancel Back Next

Specific License Reservation in SSM

Self-Serve License Provisioning in SSM

In **Step 3, Select Licenses**, you will be able to select both the Licenses which were already present in your Inventory, and the new Licenses which you have added to your Inventory in **Step 2**.

- 7 You can select a Quantity to Reserve, based on the available quantity for each license.

Smart License Reservation

STEP 1 ✓ Enter Request Code STEP 2 ✓ Add to Inventory **STEP 3 Select Licenses** STEP 4 Review and confirm STEP 5 Authorization Code

License	Description	Expires	Available	Quantity To Reserve
CSR 1KV IP BASE 10G	CSR 1KV IP BASE 10G	2019-Jul-12	7	<input type="text"/>
C9300 48P DNA Advantage	C9300 48P DNA Advantage	- never -	7	<input type="text"/>
CSR 1KV MEMORY 4G	CSR 1KV MEMORY 4G	- never -	100	<input type="text" value="20"/>
CSR 1KV STD 10G	CSR 1KV STD 10G	2019-Jul-12	7	<input type="text"/>
Testonly_q2fy14_smart_desc	Testonly_q2fy14_smart_desc	2019-Mar-17	50	<input type="text"/>
ent_unrestricted	ent_unrestricted	never	152	<input type="text" value="20"/>

Cancel Back **Next**

You will view only those entitlements which map to the Product requesting reservation.

Specific License Reservation in SSM

Self-Serve License Provisioning in SSM

- 8 In **Step 4, Review and Confirm**, you can see the list of **Licenses to Reserve**. These are the Licenses that you selected for Reservation in **Step 3**.

Smart License Reservation

STEP 1 ✓ Enter Request Code | STEP 2 ✓ Add to Inventory | STEP 3 ✓ Select Licenses | **STEP 4 Review and confirm** | STEP 5 Authorization Code

Host Identifier: CSR_KT
MAC Address: CSR_KT
SUVI: CSR_KT
UDI VID: CSR_KT
UUID: CSR_KT

8 **Licenses to Reserve** Licenses To be added to inventory

License	Description	Expires	Quantity To Reserve
CSR 1KV MEMORY 4G	CSR 1KV MEMORY 4G	- never -	20
ent_unrestricted	ent_unrestricted	- never -	20

Cancel Back **Generate Authorization Code**

Specific License Reservation in SSM

Self-Serve License Provisioning in SSM

- 9 If you click on **Licenses to be added to Inventory**, you will see the new Licenses that you have selected in **Step 2** and these will be added to the **Inventory**. If the Licenses added to Inventory were also selected for Reservation in **Step 3**, then these Licenses will be reserved.
- 10 Click on **Generate Authorization Code**.

Smart License Reservation

STEP 1 ✓ Enter Request Code STEP 2 ✓ Add to Inventory STEP 3 ✓ Select Licenses **STEP 4 Review and confirm** STEP 5 Authorization Code

UDI PID: PIDSABCBFIEA_16DEC3
UDI Serial Number: CSR_KT
Host Identifier: CSR_KT
MAC Address: CSR_KT
SUVI: CSR_KT
UDI VID: CSR_KT
UUID: CSR_KT

Licenses to Reserve **Licenses To be added to Inventory**

License	Expires	Quantity to Add
ent_unrestricted	-never-	150
ent_unrestricted	-never-	150
SKU_unres_DHI	-never-	100
Standard_unres_DHI	-never-	100

Cancel Back **Generate Authorization Code**

Specific License Reservation in SSM

Self-Serve License Provisioning in SSM

- 11** In **Step 5**, after the **Authorization Code** is generated, you need to copy it into your Device (Product Instance). In order to do that, you can **Download** or **Copy** the Authorization Code.

Smart License Reservation

STEP 1 ✓ Enter Request Code STEP 2 ✓ Add to Inventory STEP 3 ✓ Select Licenses STEP 4 ✓ Review and confirm **STEP 5** Authorization Code

Product Type:	CSR1KV
UDI PID:	PIDSABCBFIEA_16DEC3
UDI Serial Number:	CSR_KT
Host Identifier:	CSR_KT
MAC Address:	CSR_KT
SUVI:	CSR_KT
UDI VID:	CSR_KT
UUID:	CSR_KT

Authorization Code:

```
<specificPLR><authorizationCode><flag>A</flag><version>C</version><pid>c660c869-ce2a-4f25-90af-d849b792c0e3</pid><timestamp>1547743400153</timestamp><entitlements>
<entitlement><tag>regid.2014-05.com.cisco.mem_4G_1.0_c6b7ab1e-347b-4df9-aafe-c246d78bf234</tag><count>20</count><startDate></startDate><endDate></endDate>
<licenseType>PERPETUAL</licenseType><displayName>CSR 1KV MEMORY 4G</displayName><tagDescription>CSR 1KV MEMORY 4G</tagDescription><subscriptionID>
</subscriptionID></entitlement><entitlement><tag>regid.2018-05.com.cisco.Standard_unres_DHI_2_9496f427-31ec-441e-bec5-49d74548a661</tag><count>20</count><startDate>
</startDate><endDate></endDate></licenseType>PERPETUAL</licenseType><displayName>SKU_unres_DHI</displayName><tagDescription>Standard_unres_DHI</tagDescription>
<subscriptionID></subscriptionID></entitlement></entitlements></authorizationCode>
```

To learn how to enter this code, see the configuration guide for the product being licensed.

11 Download as File Copy to Clipboard Close

Specific License Reservation in SSM

Self-Serve License Provisioning in SSM

- 12 In the **Product Instances** tab, you can see the Product Instance and its Reserved Licenses.
- 13 Click on the **Product Instance**.
- 14 In the Overview tab you can see the Licenses Reserved on this Product Instance

The screenshot displays the Cisco Software Central Smart Software Licensing interface. The main navigation bar includes 'Alerts', 'Inventory', 'Convert to Smart Licensing', 'Reports', 'Preferences', and 'On-Prem Accounts'. The 'Virtual Account' is set to 'California'. The 'Product Instances' tab is selected, showing a table of instances. The instance with UDI_PID: PIDSABCBFIEA_16DEC3 is highlighted. A detailed view of this instance is shown on the right, including the 'License Usage' section.

Product Instances Table:

Name	Product Type	Last Contact
UDI_PID:export_transfer; UDI_SN:export_transfer;	UWLO	2018-Aug-23 23:06:13
UDI_PID:pid_K; UDI_SN:sm_K; UDI_VID:vid_K;	CSR1KV	2018-Nov-08 23:20:47 (Re...
UDI_PID:PIDSABCBFIEA_16DEC3; UDI_SN:CSR_KT; UDI_VI..	CSR1KV	2019-Jan-17 16:43:20 (Re...

Product Instance Details (Overview Tab):

UDI_PID:PIDSABCBFIEA_16DEC3; UDI_SN:CSR_KT; UDI_VID:CSR_KT;

Description: Cloud Services Router

General:

- Name: UDI_PID:PIDSABCBFIEA_16DEC3; UDI_SN:CSR_KT; UDI_VID:CSR_KT;
- Product: Cloud Services Router
- Host Identifier: CSR_KT
- MAC Address: CSR_KT
- PID: PIDSABCBFIEA_16DEC3
- Serial Number: CSR_KT
- UUID: CSR_KT
- Virtual Account: California
- Registration Date: 2019-Jan-17 16:43:20
- Last Contact: 2019-Jan-17 16:43:20 (Reserved Licenses) - Download Reservation Authorization Code

License Usage: These licenses are reserved on this product instance [Update reservation](#)

License	Billing	Expires	Required
CSR 1KV MEMORY 4G	Prepaid	-	20
SKU_unres_DHI	Prepaid	-	20

Showing all 2 Rows

Specific License Reservation in SSM

Self-Serve License Provisioning in SSM

You can **Update the License Reservation**.

- 1 Click on Update Reserved Licenses.

The screenshot displays the Cisco Software Central interface for Smart Software Licensing. The page title is "Smart Software Licensing" and it includes navigation links for Alerts, Inventory, Convert to Smart Licensing, Reports, Preferences, On-Prem Accounts, and Activity. The current virtual account is "California". The interface shows a table of license reservations with columns for Name, Product Type, Last Contact, Alerts, and Actions. A red circle with the number "1" highlights the "Update Reserved Licenses..." option in the Actions dropdown menu for the first license reservation.

Name	Product Type	Last Contact	Alerts	Actions
UDI_PID:export_transfer; UDI_SN:export_transfer;	UWLO	2018-Aug-23 23:06:13	Failed to Renew	Transfer... Update Reserved Licenses... Remove... Rehost Licenses from a Failed Product...
UDI_PID:pid_K; UDI_SN:sm_K; UDI_VID:vid_K;	CSR1KV	2018-Nov-08 23:20:47 (Reserved License...)		Actions
UDI_PID:PIDSABCBFIEA_16DEC3; UDI_SN:CSR_KT; UDI_VI...	CSR1KV	2019-Jan-17 16:43:20 (Reserved Licenses)		Actions

Specific License Reservation in SSM

Self-Serve License Provisioning in SSM

When Updating the License Reservation, you will also have the option to **Add to Inventory**.

2 In **Step 1**, you can **add more Licenses to the Inventory**.

3 Click **Next**.

Update License Reservation

STEP 1 **Add to Inventory** | STEP 2 Select Licenses | STEP 3 Review and confirm | STEP 4 Authorization Code

Licenses Available to Add

License	Expires	Available	Add to Inventory
ent_unrestricted ent_unrestricted	-never-	250	<input type="text" value="150"/>
CSR 1KV AX 100M CSR 1KV AX 100M	-never-	250	<input type="text"/>
CSR 1KV ADVANCED 10M CSR 1KV ADVANCED 10M	2019-Mar-18	100	<input type="text"/>
CSR 1KV ADVANCED 25M CSR 1KV ADVANCED 25M	2019-Feb-16	20	<input type="text"/>
CSR 1KV STANDARD 2.5G CSR 1KV STANDARD 2.5G	2019-Mar-18	100	<input type="text"/>
QA Unrestricted EntTest1 QA Unrestricted EntTest1	-never-	250	<input type="text"/>
CSR 1KV STD 10G CSR 1KV STD 10G	2019-Feb-16	50	<input type="text"/>

Cancel **Next**

Note: this action can be performed only once per License per Product Instance.

For each License, you can choose to Add to Inventory only once (one attempt).

Even if you don't select the entire quantity available here, you won't be able to add the remaining quantity at the next attempt (Reservation update).

If you don't add the entire quantity available at the first attempt, you can open a case via

Specific License Reservation in SSM

Self-Serve License Provisioning in SSM

- 4 In **Step 2, Select Licenses**, you can select Licenses to be reserved, for example some of the Licenses which you have added to your Inventory.
- 5 Click **Next**.

Update License Reservation

STEP 1 ✓ Add to Inventory | **STEP 2 Select Licenses** | STEP 3 Review and confirm | STEP 4 Authorization Code

CSR 1KV STD 10G	CSR 1KV STD 10G	2019-Jul-12	7	<input type="text"/>
Testonly_q2fy14_smart_desc	Testonly_q2fy14_smart_desc	2019-Mar-17	50	<input type="text"/>
ent_unrestricted	ent_unrestricted	- never -	152	<input type="text" value="25"/>
ISR G2 1941 NPE NES	ISR G2 1941 NPE NES	- never -	1	<input type="text"/>
Reporting tag testing	Reporting tag testing	- never -	unlimited	<input type="text" value="0"/>

If the quantity is reduced from the number currently reserved, the unreserved licenses will become available in the inventory, once the confirmation code is returned from the product instance.

Cancel Back **Next**

When selecting Licenses, you will see all entitlements mapped to the Product requesting reservation.

Specific License Reservation in SSM

Self-Serve License Provisioning in SSM

- 6 In **Step 3, Review and Confirm**, check the **Licenses to be Reserved** and **Licenses to be added to Inventory**.
- 7 Click on **Generate Authorization Code**.

Update License Reservation

STEP 1 ✓ Add to Inventory STEP 2 ✓ Select Licenses **STEP 3 Review and confirm** STEP 4 Authorization Code

Product Type: CSR1KV
UDI PID: PIDSABCBFIEA_16DEC3
UDI Serial Number: CSR_KT
Host Identifier: CSR_KT
MAC Address: CSR_KT
SUVI: CSR_KT
UDI VID: CSR_KT
UUID: CSR_KT

Licenses to Reserve | Licenses To be added to inventory

Review the licenses to be reserved for this product instance.

License	Expires	Quantity to Add
ent_unrestricted	-never-	150
ent_unrestricted	-never-	150

Cancel Back **Generate Authorization Code**

Licenses to Reserve: Licenses selected for Reservation in **Step 2**.

Licenses to be added to Inventory: new Licenses selected in **Step 1**; these will be added to the **Inventory**. If the Licenses added to Inventory were also selected for Reservation in **Step 2**, then these Licenses will be reserved.

Specific License Reservation in SSM

Self-Serve License Provisioning in SSM

- 8 In **Step 4**, after the **Authorization Code** is generated, you need to copy it into your Device (Product Instance). In order to do that, you can **Download** or **Copy** the Authorization Code.

Update License Reservation

STEP 1 ✓ Add to Inventory | STEP 2 ✓ Select Licenses | STEP 3 ✓ Review and confirm | **STEP 4 Authorization Code**

✓ The Reservation Authorization Code below has been generated for this product instance. Several steps remain:

1. This code must be entered into the Product Instance's Smart Licensing settings to complete the reservation.
2. When the code has been entered, a Reservation Confirmation Code will be generated.
3. To release licenses in transition, enter confirmation code generated by device into CSSM.

Authorization Code:

```
<specificPLR><authorizationCode><flag>A</flag><version>C</version><pid>c660c869-ce2a-4f25-90af-d849b792c0e3</pid><timestamp>1547743604570</timestamp><entitlements><entitlement><tag>regid.2014-05.com.cisco.mem_4G.1.0_c6b7ab1e-347b-4df9-aafe-c246d78bf234</tag><count>20</count><startDate></startDate><endDate></endDate></entitlement><licenseType>PERPETUAL</licenseType><displayName>CSR 1KV MEMORY 4G</displayName><tagDescription>CSR 1KV MEMORY 4G</tagDescription><subscriptionID></subscriptionID></entitlement><entitlement><tag>regid.2018-05.com.cisco.Standard_unres_DHI.2_9496f427-31ec-441e-bec5-49d74548a661</tag><count>20</count><startDate></startDate><endDate></endDate></entitlement><licenseType>PERPETUAL</licenseType><displayName>SKU_unres_DHI</displayName><tagDescription>Standard_unres_DHI</tagDescription><subscriptionID></subscriptionID></entitlement><entitlement><tag>regid.2018-05.com.cisco.ent_unrestricted.v1_e7bc7e45-529f-4245-9ab8-5283ad73b780</tag><count>25</count><startDate></startDate></entitlement></entitlements>
```

To learn how to enter this code, see the configuration guide for the product being licensed

8

Download as File | Copy to Clipboard | Enter Confirmation Code | **Close**

Specific License Reservation in SSM

Self-Serve License Provisioning in SSM

- 1 You can now see the additional Licenses in your **Inventory** → **Licenses** tab.
- 2 If you expand each line, you will also be able to see the **Source: Self Service License**.

The screenshot displays the Cisco Software Central interface for Smart Software Licensing. The breadcrumb trail is "Cisco Software Central > Smart Software Licensing". The page title is "Smart Software Licensing" with links for "Feedback", "Support", and "Help". A navigation bar includes "Alerts", "Inventory", "Convert to Smart Licensing", "Reports", "Preferences", "On-Prem Accounts", and "Activity". The "Virtual Account" is set to "California". There are notification indicators for "1 Major" and "8 Minor" alerts, along with a "Hide Alerts" button and a chat icon.

The "Licenses" tab is selected and highlighted with a red box and a red circle containing the number "1". Below the tabs, there are buttons for "Available Actions", "Manage License Tags", "License Reservation...", and a search bar labeled "Search by License". A table lists licenses with columns for License, Billing, Purchased, In Use, Balance, Alerts, and Actions. The first license, "ent_unrestricted Pacific", is expanded, showing a "Source: Self Service License" with details like "Sku: NA" and "Family: Cloud Services Router". This expanded view is highlighted with a red box and a red circle containing the number "2".

License	Billing	Purchased	In Use	Balance	Alerts	Actions
<input type="checkbox"/> ent_unrestricted Pacific	Prepaid	152	50 (50 Reserved)	+ 102		Actions ▾
<input type="checkbox"/> Source: Self Service License	Sku: NA Family: Cloud Services Router	150	Expires: -never-			
<input type="checkbox"/> SKU_unres_DHI	Prepaid	100	40 (40 Reserved)	+ 60		Actions ▾

Showing All 2 Records

Specific License Reservation in SSM

Self-Serve License Provisioning in SSM

- 1 You can see the **License Transactions** in the **Activity tab**, including the addition of new Licenses to your Inventory from the Product Instance.

The screenshot displays the Cisco Software Central interface for Smart Software Licensing. The 'Activity' tab is selected, showing a table of 'License Transactions'. A tooltip titled 'Source' is open over the 'Source' column of the table, displaying the text: 'Added from Product Instance(UDI_PID:PIDSABCBFIEA_16DEC3; UDI_SN:CSR_KT; UDI_VID:CSR_KT;)'. A red circle with the number '1' highlights the 'Source' column header in the table, and a red arrow points from this circle to the tooltip.

Activity

License Transactions

Transaction Date	License SKU	License	Quantity	License Expiration	Virtual Account	Source	Action
2019-Jan-17 16:46:47	-	ent_unrestricted	150	Perpetual	California	Added from Product Instance(U..	Remove Licenses...
2019-Jan-17 16:43:22	-	SKU_unres_DHI	100	Perpetual	California	Added from Product Instance(U..	Remove Licenses...
2019-Jan-17 02:31:50	L-CSR-5G-APP-3.	CSR 1KV PLR	105	Perpetual	California	Manual Entry	Remove Licenses...

Rehost a Product Instance Reserving Licenses in SSM

Specific License Reservation in SSM

Rehost a Product Instance Reserving Licenses in SSM

Whenever a Product Instance reserving licenses fails due to various reasons, Customers lose access to their licenses. To solve this problem, you can now rehost a Product instance reserving licenses (making a Replacement Product work for these licenses). The **Replacement Product** will reserve the same quantity and type of Licenses as those that were reserved by the **Failed Product**.

- 1 From the **Product Instances** tab, go to the **Failed Product**: under **Actions**, select **Rehost Licenses from a Failed Product**.

The screenshot shows the Cisco Software Central interface for Smart Software Licensing. The page title is "Smart Software Licensing" and the virtual account is "California". The "Product Instances" tab is selected, showing a table of instances. One instance, "Test-2", is highlighted in blue and has a red "Failed to Renew" alert. The "Actions" menu for this instance is open, and the "Rehost Licenses from a Failed Product..." option is highlighted with a red box and a red circle containing the number "1".

Name	Product Type	Last Contact	Alerts	Actions
Test-2	CSR1KV	2019-Jan-17 16:51:23		Actions ▾
UDI_PID:export_transfer; UDI_SN:export_transfer;	UWLO	2018-Aug-23 23:06:13	Failed to Renew	Actions ▾
UDI_PID:pid_K; UDI_SN:sm_K; UDI_VID:vid_K;	CSR1KV	2018-Nov-08 23:20:47 (Reserved License...)		Actions ▾
UDI_PID:PIDSABCBFIEA_16DEC3; UDI_SN:CSR_KT; UDI_VI...	CSR1KV	2019-Jan-17 16:46:46 (Reserved Licenses)		Actions ▾

Specific License Reservation in SSM

Rehost a Product Instance Reserving Licenses in SSM

- 1 To Rehost Licenses from a **Failed Product** to a **Replacement Product**, you will follow these steps:
- 2 In **Step 1**, enter the **Reservation Request Code** generated from the new Product Instance.
- 3 Add Order details and RMA details in the **Notes** section.
- 4 Click **Next**.

You need to generate a reservation request code from the new Product Instance (replacement Product Instance).

Rehost Licenses from a Failed Product

STEP 1 Enter Request Code STEP 2 Review and confirm STEP 3 Authorization Code

1 Failed Product

If this product instance has failed, you can move the licenses reserved on it to another product.

Product Family: CSR1KV
UDI PID: CSR1000V
Serial Number: 9Z2LNVGOLNH
Virtual Account: JanRehost

Replacement Product

You will begin by generating a Reservation Request Code from the replacement product

* Reservation Request Code:

Rehost Licenses from a Failed Product

STEP 1 Enter Request Code STEP 2 Review and confirm STEP 3 Authorization Code

2 You will begin by generating a Reservation Request Code from the replacement product

* Reservation Request Code:

3 To learn how to generate this code, see the configuration guide for the product being licensed

Notes:

Used to document the product replacement (by order number, RMA number, etc...) for future reference

[Look up or request an RMA number](#)

4

Specific License Reservation in SSM

Rehost a Product Instance Reserving Licenses in SSM

- 5 In **Step 2, Review and Confirm**, the **Reserved Licenses to be Rehosted** are shown on the list and will be rehosted to a different Product Instance.
- 6 Click on **Generate Authorization Code**.

Rehost Licenses from a Failed Product

STEP 1 ✓ Enter Request Code STEP 2 Review and confirm STEP 3 Authorization Code

Replacement Product

Product Family: CSR1KV
UDI PID: PIDSABCBFIEA_16DEC3
Serial Number: CSR_KT2
Virtual Account: California

Reserved Licenses to be Rehosted

Review the licenses that will be moved to the replacement product

License	Expires	Reserved
ent_unrestricted	- never -	25
CSR 1KV MEMORY 4G	- never -	20

Cancel **6** Generate Authorization Code

Specific License Reservation in SSM

Rehost a Product Instance Reserving Licenses in SSM

- 7 In **Step 3, Authorization Code**, you will be able to **Download** or **Copy** the Authorization Code.
- 8 You will also see the instructions for the **Next Steps**.

Rehost Licenses from a Failed Product

STEP 1 ✓ Enter Request Code STEP 2 ✓ Review and confirm STEP 3 Authorization Code

Authorization Code Generated
A Reservation Authorization Code has been generated for the replacement product.

Authorization Code:

```
<specificPLR><authorizationCode><flag>A</flag><version>C</version><plid>6f274239-e252-4f31-ac84-ce3e81b79db6</plid><timestamp>154</timestamp><entitlement><tag>regid.2018-05.com.cisco.ent_unrestricted.v1_e7bc7e45-529f-4245-9ab8-5283ad73b780</tag><count>25</count><startDate></startDate><endDate></endDate></entitlement><tag>regid.2014-05.com.cisco.mem_4G.1.0_c6b7ab1e-347b-4d19-aafe-c246d78bf234</tag><count>20</count><startDate></startDate><endDate></endDate></entitlement><tag>regid.2018-05.com.cisco.Standard_unres_DHI_2_9496f427-31ec-441e-bec5-49d74548a661</tag><count>20</count><startDate></startDate><endDate></endDate></entitlement>
```

Next Steps

1. Enter the Authorization Code in the Smart Licensing settings for the replacement product
2. Return the failed product, if you have an [RMA for a physical product](#)
3. To release the licenses on the failed product back to your inventory, remove it by clicking Remove in the Actions menu or
If you are unable to remove the product, please [open a support case](#) for more assistance

Download as File Copy to Clipboard Close

Next Steps:

1. Enter the Authorization Code in the Smart Licensing settings for the replacement product.
2. Return the failed product, if you have an RMA for a physical product.
3. To release the licenses on the failed product back to your inventory, remove it by clicking Remove on the Actions menu, or, if you are unable to remove the product, open a support case for more assistance.

8

7

Specific License Reservation in SSM

Rehost a Product Instance Reserving Licenses in SSM

- 9 In the Product Instances tab, the **Product Instance will be shown as Failed – Pending Removal**. You need to **remove this Product Instance** and release the licenses back to the Inventory (follow the Next Steps). Another Product Instance from the same Product Type will be now reserving the same quantity of Licenses.
- 10 **Click on the Product Instance** to view the details.

Cisco Software Central > Smart Software Licensing

Smart Software Licensing

Alerts | **Inventory** | Convert to Smart Licensing | Reports | Preferences | On-Prem Accounts | A

Virtual Account: **California** ▾

General | Licenses | **Product Instances** | Event Log

Transfer | 

Search by Name, Product Type 

Name	Product Type	Last Contact	Alerts	Actions
Test-2	CSR1KV	2019-Jan-22 23:42:14		Actions ▾
UDI_PID:export_transfer; UDI_SN:export_transfer;	UWLO	2018-Aug-23 23:06:13	✖ Failed to Renew	Actions ▾
UDI_PID:pid_K; UDI_SN:sm_K; UDI_VID:vid_K;	CSR1KV	2018-Nov-08 23:20:47 (Reserved Licenses)		Actions ▾
UDI_PID:PIDSABCBFIEA_16DEC3; UDI_SN:CSR_KT2; UDI_V...	CSR1KV	2019-Jan-17 16:55:26 (Reserved Licenses)		Actions ▾
UDI_PID:PIDSABCBFIEA_16DEC3; UDI_SN:CSR_KT; UDI_VI...	CSR1KV	2019-Jan-17 16:46:46 (Reserved Licenses)	ⓘ Failed - Pending Removal	Actions ▾

10

9

Remove...

Reset Alert...

Next Steps:

1. Enter the Authorization Code in the Smart Licensing settings for the replacement product.
2. Return the failed product, if you have an RMA for a physical product.
3. To release the licenses on the failed product back to your inventory, remove it by clicking Remove on the Actions menu, or, if you are unable to remove the product, open a support case for more assistance.

Specific License Reservation in SSM

Rehost a Product Instance Reserving Licenses in SSM

- 11 In the **Overview** tab of the Product Instance you can see the licenses reserved on this Product.

The screenshot displays the 'Overview' tab for a Product Instance. At the top, the instance ID is shown: UDI_PID:PIDSABCBFIEA_16DEC3; UDI_SN:CSR_KT2; UDI_VID:CSR_KT2;. Below this, there are tabs for 'Overview' and 'Event Log'. The 'Description' section identifies the product as 'Cloud Services Router'. The 'General' section lists various attributes: Name, Product, Host Identifier, MAC Address, PID, Serial Number, UUID, Virtual Account, Registration Date, and Last Contact. A red circle with the number '11' highlights the 'License Usage' section. This section contains a table with columns for License, Billing, Expires, and Required. The table lists three licenses: 'CSR 1KV MEMORY 4G', 'ent_unrestricted', and 'SKU_unres_DHI'. A red box highlights the entire 'License Usage' section. At the bottom right of the table, it says 'Showing all 3 Rows'. Below the table is an 'Actions' dropdown menu.

UDI_PID:PIDSABCBFIEA_16DEC3; UDI_SN:CSR_KT2; UDI_VID:CSR_KT2;

Overview Event Log

Description
Cloud Services Router

General

Name: UDI_PID:PIDSABCBFIEA_16DEC3; UDI_SN:CSR_KT2; UDI_VID:CSR_KT2;
Product: Cloud Services Router
Host Identifier: CSR_KT2
MAC Address: CSR_KT2
PID: PIDSABCBFIEA_16DEC3
Serial Number: CSR_KT2
UUID: CSR_KT2
Virtual Account: California
Registration Date: 2019-Jan-17 16:55:26
Last Contact: 2019-Jan-17 16:55:26 (Reserved Licenses) - [Download Reservation Authorization Code](#)

License Usage These licenses are reserved on this product instance [Update reservation](#)

License	Billing	Expires	Required
CSR 1KV MEMORY 4G	Prepaid	-	20
ent_unrestricted	Prepaid	-	25
SKU_unres_DHI	Prepaid	-	20

Showing all 3 Rows

Actions ▾

Specific License Reservation in SSM

Rehost a Product Instance Reserving Licenses in SSM

- 12 Physical return: if you have an RMA for a physical product, you need to return the product to Cisco. The reserved licenses will be released back to the Inventory when the Product is returned.

The screenshot shows the Cisco Software Central interface for Smart Software Licensing. The 'Product Instances' tab is active, displaying a table with columns for Name, Product Type, Last Contact, Alerts, and Actions. A red box highlights a row with the status 'Failed - Pending Removal'. A tooltip is visible over this row, stating: 'This product instance has failed and is pending removal. The licenses it has reserved will be returned to the inventory when it is returned.'

Name	Product Type	Last Contact	Alerts	Actions
Test-2	CSR1KV	2019-Jan-17 16:51:23		Actions
UDI_PID:export_transfer; UDI_SN:export_transfer;	UWLO	2018-Aug-23 23:08:13	Failed to Renew	Actions
UDI_PID:pid_K; UDI_SN:sm_K; UDI_VID:vid_K;	CSR1KV	2018-Nov-08 16:48:46 (Reserved Licenses)		Actions
UDI_PID:PIDSABCBFIEA_16DEC3; UDI_SN:CSR_KT2; UDI_VI...	CSR1KV	2019-Jan-17 16:51:23		Actions
UDI_PID:PIDSABCBFIEA_16DEC3; UDI_SN:CSR_KT; UDI_VI...	CSR1KV	2019-Jan-17 16:48:46 (Reserved Licenses)	Failed - Pending Removal	Actions

Next Steps:

1. Enter the Authorization Code in the Smart Licensing settings for the replacement product.
2. Return the failed product, if you have an RMA for a physical product.
3. To release the licenses on the failed product back to your inventory, remove it by clicking Remove on the Actions menu, or, if you are unable to remove the product, open a support case for more assistance.

Specific License Reservation in SSM

Rehost a Product Instance Reserving Licenses in SSM: Insufficient Licenses

If the Rehosting Licenses from a Failed Product results in “Insufficient Licenses” in the Virtual Account, then Smart Software Manager will allow to rehost Product Instances reserving licenses only up to a certain threshold, which is 10% of the Product Instances in the Virtual Account.

Anytime a Product Instance reserving licenses is to be rehosted, the system checks to see if rehosting the Product Instance will result in Insufficient Licenses condition (reserving more Licenses than available in the Virtual Account).

- A. If there is a sufficient quantity of Licenses in the Virtual Account, the rehost will be allowed without checking the threshold.
- B. If there is an insufficient quantity of Licenses, the system checks to see the threshold and will not allow for more than 10% of the Product Instances to be rehosted in the Virtual Account per the logic here below:

Threshold = 10% at Virtual Account level

System should apply the threshold to the total number of Product Instances reserving licenses in the Virtual Account and see how many Product Instances can be rehosted (round off to the next highest whole number after applying threshold percentage). Example:

- For 1 to 10 Product Instances reserving licenses in the VA = 1 Product Instance could be rehosted in the VA.
- For 11 to 20 Product Instances reserving licenses in the VA = 2 Product Instances could be rehosted in the VA.
- For 21 to 30 Product Instances reserving licenses in the VA = 3 Product Instances could be rehosted in the VA.

Specific License Reservation in SSM

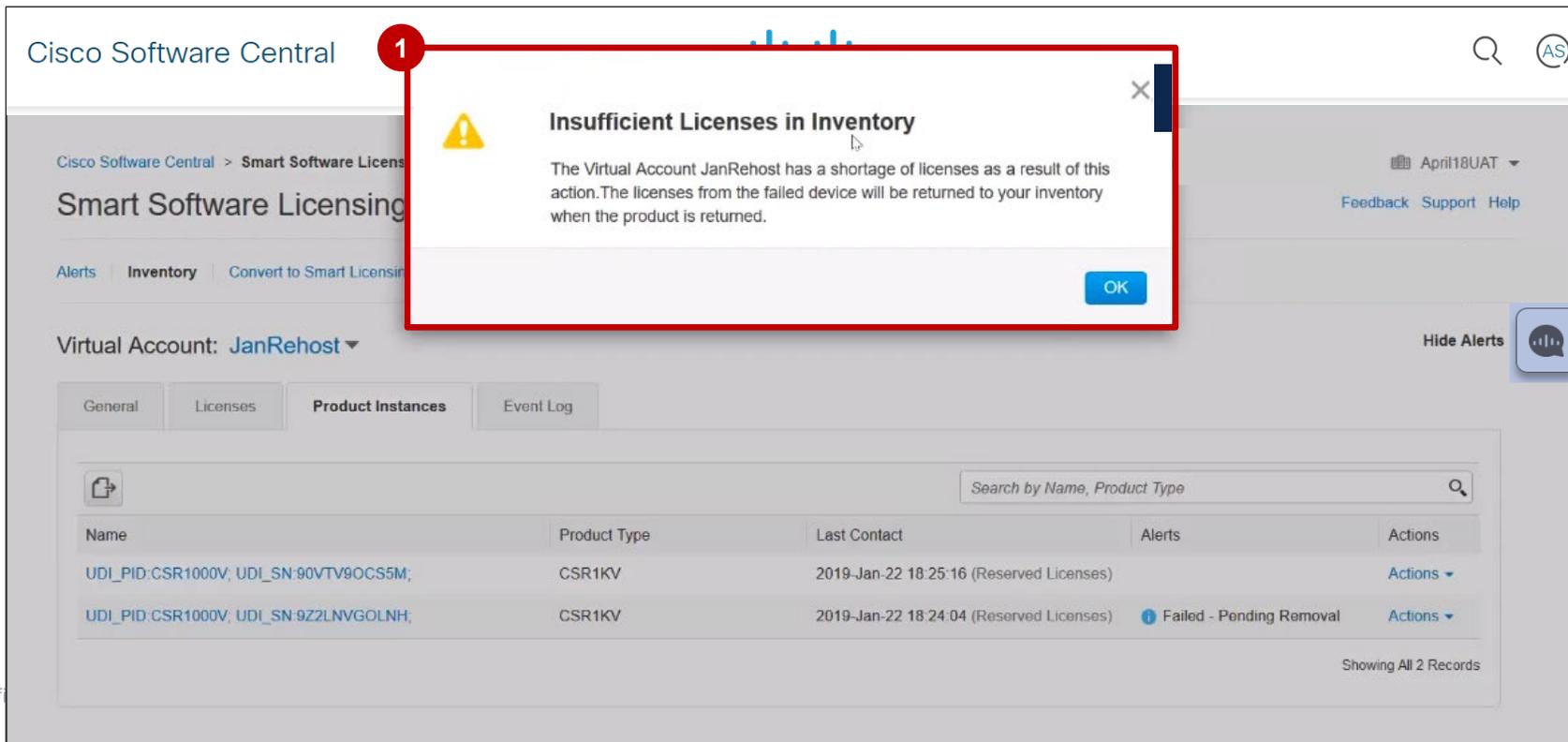
Rehost a Product Instance Reserving Licenses in SSM: Insufficient Licenses

1 The **3-step Rehost process** may result in **Insufficient Licenses** for that Virtual Account.

That is because the **Replacement Product** will reserve the same quantity and type of Licenses as those that were reserved by the **Failed Product**, but at this point the licenses from the failed Product are not released yet, so there might be a **License shortage in the Virtual Account Inventory**.

In that case, you will see a **warning message: Insufficient Licenses in Inventory**.

The Rehost to a new Product Instance will still be successful.



The screenshot shows the Cisco Software Central interface. A red box highlights a warning message that reads: "Insufficient Licenses in Inventory". The message text states: "The Virtual Account JanRehost has a shortage of licenses as a result of this action. The licenses from the failed device will be returned to your inventory when the product is returned." Below the message is an "OK" button. The background interface shows the "Smart Software Licensing" section for the Virtual Account "JanRehost". The "Product Instances" tab is active, displaying a table with two records. The second record has a status of "Failed - Pending Removal".

Name	Product Type	Last Contact	Alerts	Actions
UDI_PID:CSR1000V; UDI_SN:90VTV9OCS5M;	CSR1KV	2019-Jan-22 18:25:16 (Reserved Licenses)		Actions
UDI_PID:CSR1000V; UDI_SN:9Z2LNVGOLNH;	CSR1KV	2019-Jan-22 18:24:04 (Reserved Licenses)	Failed - Pending Removal	Actions

Specific License Reservation in SSM

Rehost a Product Instance Reserving Licenses in SSM: Insufficient Licenses

- 2 If there are **Insufficient Licenses**, you will see an **Alert** in the **Inventory** → **Licenses** tab.
If there is enough License quantity in your Inventory, the Insufficient licenses alert will not show up.

The screenshot displays the Smart Software Licensing (SSM) interface for a virtual account named 'JanRehost'. The 'Licenses' tab is active, showing a table of license details. A red box highlights the 'Alerts' column for three license entries, which all show 'Insufficient Licenses'. A red circle with the number '2' is placed over the 'Alerts' column header.

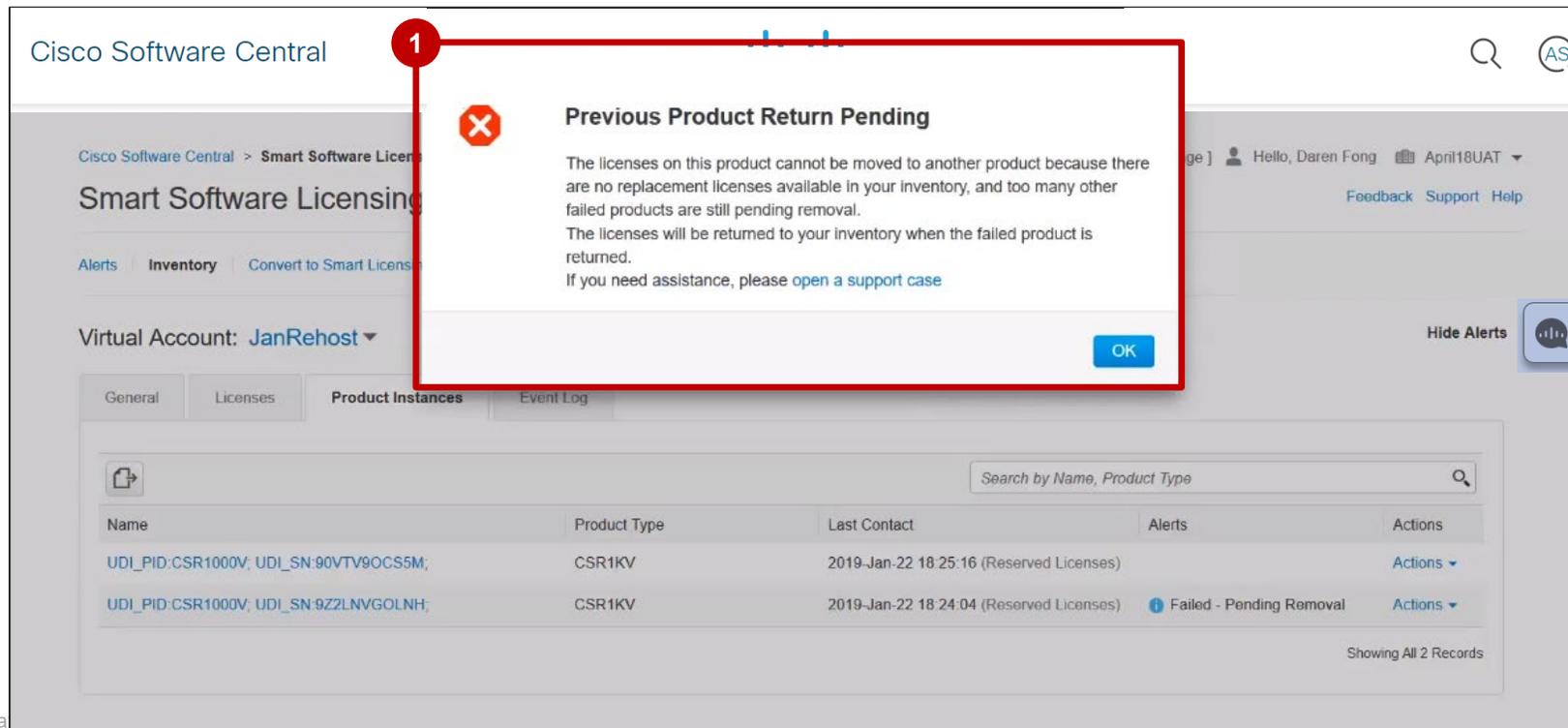
License	Billing	Purchased	In Use	Balance	Alerts	Actions
CSR 1KV ADVANCED 10M	Prepaid	50	60 (60 Reserved)	-10	Insufficient Licenses	Actions
CSR 1KV AX 100M	Prepaid	50	60 (60 Reserved)	-10	Insufficient Licenses	Actions
CSR 1KV AX 1G	Prepaid	50	60 (60 Reserved)	-10	Insufficient Licenses	Actions
CSR 1KV STANDARD 2.5G	Prepaid	50	0	+ 50		Actions
CSR 1KV STD 10G	Prepaid	50	0	+ 50		Actions

Specific License Reservation in SSM

Rehost a Product Instance Reserving Licenses in SSM: Insufficient Licenses

- 1 If the **10% threshold is exceeded**, the system will not allow a **Rehost of a Product Instance Reserving Licenses**. You will see an **error message: Previous Product Return Pending**. The Licenses on this Product cannot be moved to another Product because there are no replacement licenses available in your Inventory and too many other failed Products are still pending removal. The Licenses will be returned to your Inventory when the failed product is returned.

You need to remove and return the Product Instance first, and then proceed with the Rehost (or contact Support).



The screenshot shows the Cisco Software Central interface. A red box highlights an error message titled "Previous Product Return Pending". The message text reads: "The licenses on this product cannot be moved to another product because there are no replacement licenses available in your inventory, and too many other failed products are still pending removal. The licenses will be returned to your inventory when the failed product is returned. If you need assistance, please [open a support case](#)". There is an "OK" button at the bottom right of the message box. In the background, the "Product Instances" tab is active, showing a table with two records. The second record has a status of "Failed - Pending Removal".

Name	Product Type	Last Contact	Alerts	Actions
UDI_PID:CSR1000V; UDI_SN:90VTV90CS5M;	CSR1KV	2019-Jan-22 18:25:16 (Reserved Licenses)		Actions
UDI_PID:CSR1000V; UDI_SN:9Z2LNVGOLNH;	CSR1KV	2019-Jan-22 18:24:04 (Reserved Licenses)	Failed - Pending Removal	Actions

Specific License Reservation in SSM

Rehost a Product Instance Reserving Licenses in SSM: Event Log

- 1 In the **Event log**, you will see an entry for the Rehost event.

The screenshot displays the Cisco Software Central interface for Smart Software Licensing. The page title is "Smart Software Licensing" and the virtual account is "California". The "Event Log" tab is selected, showing a list of events. A red box highlights the event: "The product instance 'UDI_PID:PIDSABCBFIEA_16DEC3; UDI_SN:CSR_KT2; UDI_VID:CSR_KT2;' in the Virtual Account 'California' reserved the following licenses: 25 'ent_unrestricted' license(s)(25 perpetual), 20 'CSR 1KV MEMORY 4G' license(s)(20 perpetual), and 20 'SKU_unres_DHI' license(s)(20 perpetual). User Notes: 'Replacement'". A red arrow points from this event to a "Message" dialog box that contains the same text. A red circle with the number "1" is placed over the event in the table.

Cisco Software Central > Smart Software Licensing

Smart Software Licensing

Alerts | Inventory | Convert to Smart Licensing | Reports | Preferences | On-Prem Accounts | A

Virtual Account: California

General | Licenses | Product Instances | **Event Log**

Message

The product instance "UDI_PID:PIDSABCBFIEA_16DEC3; UDI_SN:CSR_KT2; UDI_VID:CSR_KT2;" in the Virtual Account "California" reserved the following licenses: 25 "ent_unrestricted" license(s)(25 perpetual), 20 "CSR 1KV MEMORY 4G" license(s)(20 perpetual), and 20 "SKU_unres_DHI" license(s)(20 perpetual). User Notes: "Replacement"

Press ctrl + c to copy selected text to clipboard.

Search by License or Product

Message	Time	User
The product instance "Test-2" was removed from Smart Software Manager.	2019-Jan-22 23:42:14	-
The product instance "Test-2" connected and was added to the Virtual Account "California".	2019-Jan-22 23:42:14	-
The product instance "UDI_PID:PIDSABCBFIEA_16DEC3; UDI_SN:CSR_KT2; UDI_VID:CSR_KT2;" in the Virtual Account "...	2019-Jan-17 16:55:28	Cisco Support
The product instance "Test-2" connected and was added to the Virtual Account "California".	2019-Jan-17 16:51:23	-

Specific License Reservation – License Hierarchy

Specific License Reservation in SSM

License Hierarchy

Currently Smart Software Manager supports License Hierarchy when a Product Instance is directly connected to CSSM. This allows for a lower tier license to borrow from its upper tier licenses (based on the hierarchy defined in backend systems) when there is a shortage of lower tier licenses.

The same license hierarchy will now be supported in the Specific License Reservation workflow which will allow for a lower tier license to reserve licenses by borrowing licenses from upper tier licenses in its hierarchy.

SCENARIO 1 [We will not walk through this example as it is the simplest scenario. Our focus over the next few slides will be Scenario 2 and Scenario 3]

Lower tier license has a linear hierarchy, and has one parent and grandparent from which it can borrow licenses to reserve.

1. The lower tier “Child” can reserve by borrowing from its “Parent” and then “Grandparent” based on the hierarchy defined in the backend.

SCENARIO 2

Lower tier license does not have a linear hierarchy and has multiple “Parents” from which it can borrow licenses to reserve.

1. The lower tier “Child” can reserve by borrowing from its “Parents” based on the sequence of the “Parents” defined the backend. If it still needs to reserve more, it can borrow from its “Grandparent” (if any).

SCENARIO 3

Upper Tier “Parent” Licenses has two children, Child 1 and Child 2. When trying to reserve Child 1 and Child 2, the borrowing/lending will work as follows:

1. For a Device, if Child 1 reserves by borrowing from Parent and then Child 2 wants to reserve as well, then it will not use its own available quantity or borrow from its parent, up to the quantity of Child 1 which is borrowed from Parent. Once that quantity is reached, the additional quantity of Child 2 needed to be reserved will be used from its own available quantity or borrowed from its Parent.

Specific License Reservation in SSM

SLR License Hierarchy – Initiating License Reservations

The **License Hierarchy in SLR workflow** is initiated and updated in the same way as any other License Reservation Workflow.

- 1 On the main **Inventory** page, go to the **Licenses** tab. You will see the **License Reservation** button on the **Licenses** tab only if you have specific license reservation enabled for your Smart Account.

Click the **License Reservation** button to start Specific License Reservation.

The screenshot shows the Cisco SSM interface for a Virtual Account named 'SLR Demo'. The 'Licenses' tab is selected. In the 'Available Actions' section, the 'License Reservation...' button is highlighted with a red box and a red circle containing the number '1'. Below this is a table of licenses with columns for License, Billing, Purchased, In Use, Balance, Alerts, and Actions.

License	Billing	Purchased	In Use	Balance	Alerts	Actions
ACI ADVANTAGE	Prepaid	100	0	+ 100		Actions
ACI ESSEN	Prepaid	100	0	+ 100		Actions
DCNM	Prepaid	100	0	+ 100		Actions
FAB	Prepaid	100	0	+ 100		Actions
LAN	Prepaid	100	0	+ 100		Actions
NETWORK	Prepaid	100	0	+ 100		Actions
NXOS ADVAN	Prepaid	100	0	+ 100		Actions
NXOS ESSEN	Prepaid	100	0	+ 100		Actions

As-is functionality.

Specific License Reservation in SSM

SLR License Hierarchy – Initiating License Reservations

The **Smart License Reservation** wizard appears.

- 1 In **Step 1: Enter Request Code** page, you can either browse and upload or enter the **Reservation Request Code**.
- 2 Once done, click the **Next** button.

Smart License Reservation

STEP 1 Enter Request Code STEP 2 Select Licenses STEP 3 Review and confirm STEP 4 Authorization Code

Once you have generated the code:

- 1) Enter the Reservation Request Code below
- 2) Select the licenses to be reserved
- 3) Generate a Reservation Authorization Code
- 4) Enter the Reservation Authorization Code on the product instance to activate the features

* Reservation Request Code:

CC-ZDevice_Richa:SQWQEASQAWEW12-CDWxZPXNo-b0

Browse Upload

To learn how to enter this code, see the configuration guide for the product being licensed

Cancel Next

As-is functionality.

Specific License Reservation in SSM

SLR License Hierarchy – Scenario 2

- 1 In **Step 2, Select Licenses**, click on **Reserve a Specific License**.
- 2 A **License Hierarchy** is shown in **Step 2**: upper tier licenses can be substituted to fulfill requests for lower tier licenses that are not available in the Inventory (insufficient quantity). Therefore, you can reserve lower tier license using the available quantity of the surplus of the upper tier licenses. This example follows **Scenario 2: Multiple “Parents”** logic: NXOS ESSEN has two upper tier licenses that it can ‘borrow’ from.

STEP 1 ✓ Enter Request Code

STEP 2 Select Licenses

STEP 3 Review and confirm

STEP 4 Authorization Code

Licenses to Reserve

1 In order to continue, ensure that you have a surplus of the licenses you want to reserve in the Virtual Account.

Reserve a specific license

License	Expires	Purchased	Available	Reserve
Level 1 Supports substitution				
ACI ADVANTAGE	2020-02-01	100	100	0
<i>NXOS_ENTITLEMENTS_DESC</i>				
Level 2				
NXOS ADVAN	2020-02-01	100	200	0
<i>NXOS_ENTITLEMENTS_DESC</i>				
ACI ESSEN	2020-02-01	100	200	0
<i>NXOS_ENTITLEMENTS_DESC</i>				
Level 3				
NXOS ESSEN	2020-02-01	100	400	0
<i>NXOS_ENTITLEMENTS_DESC</i>				

2

New functionality.

“Supports substitution” will be displayed if a license hierarchy is defined for any of the licenses that are available to be reserved.

Cancel Next

Specific License Reservation in SSM

SLR License Hierarchy – Scenario 2: Multiple Parents

You can see the **Purchased** quantity and the **Available** quantity of a license.

- 1 Since the lower tier license can borrow licenses from an upper tier (Parent) license, this is reflected in the Available column: Level 2 licenses (ACI Essentials and NXOS Advantage) have Purchased qty 100, but Available qty 200, because they have the ability to borrow from Level 1 license (ACI Advantage). Level 3 license (NXOS Essentials) has Purchased qty 100, but Available qty 400, because it can borrow from Level 2, followed by Level 1 licenses.

STEP 1 ✓ Enter Request Code

STEP 2 Select Licenses

STEP 3 Review and confirm

STEP 4 Authorization Code

New functionality.

ACI Advantage only has the same “Available” qty as its “Purchased”. This is because it does not have an upper tier (Parent) license from which to borrow.

Licenses to Reserve

In order to continue, ensure that you have a surplus of the licenses you want to reserve in the Virtual Account.

Reserve a specific license

License	Expires	Purchased	Available	Reserve
Level 1 Supports substitution				
ACI ADVANTAGE	2020-02-01	100	100	0
<i>NXOS_ENTITLEMENTS_DESC</i>				
Level 2				
NXOS ADVAN	2020-02-01	100	200	0
<i>NXOS_ENTITLEMENTS_DESC</i>				
ACI ESSEN	2020-02-01	100	200	0
<i>NXOS_ENTITLEMENTS_DESC</i>				
Level 3				
NXOS ESSEN	2020-02-01	100	400	0
<i>NXOS_ENTITLEMENTS_DESC</i>				

Cancel Next

Specific License Reservation in SSM

SLR License Hierarchy – Scenario 1: Multiple Parents

- 1 Continuing this example, Level 3 license (NXOS Essentials) will borrow 50 licenses from higher level, ie from Level 2 license (NXOS Advantage). NXOS Advantage is borrowed from first, as the system is following a pre-defined sequencing set up.
- 2 As a result, the Available qty of the Level 2 Licenses (NXOS Advantage) will be decreased by 50 licenses.

Smart License Reservation

STEP 1 ✓ Enter Request Code | STEP 2 Select Licenses | STEP 3 Review and confirm | STEP 4 Authorization Code

New functionality.

For tiered licenses, higher level licenses can be substituted for lower level licenses that are not available. The lowest level available will be substituted first. When multiple licenses are in a level, a lower level license can borrow any of them that are available.

License	Expires	Purchased	Available	Reserve
Level 1 Supports substitution				
ACI ADVANTAGE <small>NXOS_ENTITLEMENTS_DESC</small>	2020-02-01	100	100	<input type="text" value="0"/>
Level 2				
NXOS ADVAN <small>NXOS_ENTITLEMENTS_DESC</small>	2020-02-01	100	150	<input type="text" value="0"/>
ACI ESSEN <small>NXOS_ENTITLEMENTS_DESC</small>	2020-02-01	100	200	<input type="text" value="0"/>
Level 3				
NXOS ESSEN <small>NXOS_ENTITLEMENTS_DESC</small>	2020-02-01	100	250	<input type="text" value="150"/> <small>From higher level: 50</small>
Level 4				
LAN <small>NXOS_ENTITLEMENTS_DESC</small>	2020-02-01	100	350	<input type="text" value="0"/>

As licenses are borrowed, the “Available” column will adjust to reflect new values

Specific License Reservation in SSM

SLR License Hierarchy – License Substitution

- 1 Once you have selected the licenses to be reserved, click **Next**.

Smart License Reservation

STEP 1 ✓ Enter Request Code

STEP 2 **Select Licenses**

STEP 3 Review and confirm

STEP 4 Authorization Code

As-is functionality.

For tiered licenses, higher level licenses can be substituted for lower level licenses that are not available. The lowest level available will be substituted first. When multiple licenses are in a level, a lower level license can borrow any of them that are available.

License	Expires	Purchased	Available	Reserve
Level 1 Supports substitution				
ACI ADVANTAGE <small>NXOS_ENTITLEMENTS_DESC</small>	2020-02-01	100	100	<input type="text" value="0"/>
Level 2				
NXOS ADVAN <small>NXOS_ENTITLEMENTS_DESC</small>	2020-02-01	100	150	<input type="text" value="0"/>
ACI ESSEN <small>NXOS_ENTITLEMENTS_DESC</small>	2020-02-01	100	200	<input type="text" value="0"/>
Level 3				
NXOS ESSEN <small>NXOS_ENTITLEMENTS_DESC</small>	2020-02-01	100	250	<input type="text" value="150"/> <small>From higher level: 50</small>
Level 4				
LAN <small>NXOS_ENTITLEMENTS_DESC</small>	2020-02-01	100	350	<input type="text" value="0"/>

Cancel **Next**

Specific License Reservation in SSM

SLR License Hierarchy – License Substitution

- 1 In **Step 3, Review and Confirm**, you can review and confirm your selection.
- 2 Then, click **Generate Authorization Code** button.

STEP 1 ✓ Enter Request Code

STEP 2 ✓ Select Licenses

STEP 3 Review and confirm

STEP 4 Authorization Code

Product Instance Details

Product Type: NXOSSW

UDI PID: Device_Richa

UDI Serial Number: SQWQEASQAWEW12

Licenses to Reserve

License	Expires	Reserved
Level 3		
NXOS ESSEN NXOS_ENTITLEMENTS_DESC	2020-02-01	150

Cancel Back **Generate Authorization Code**

As-is functionality.

Specific License Reservation in SSM

SLR License Hierarchy – License Substitution

- 1 In **Step 4: Authorize Code** page appears. You can review and confirm your selection.
- 2 You can copy the **Authorization Code** to your clipboard or you can download it as a file.

STEP 1 ✓ Enter Request Code

STEP 2 ✓ Select Licenses

STEP 3 ✓ Review and confirm

STEP 4 **Authorization Code**

✓ The Reservation Authorization Code below has been generated for this product instance. Enter this code into the Smart Licensing settings for the product, to enable the licensed features.

Product Instance Details

Product Type: NXOSSW

UDI PID: Device_Richa

UDI Serial Number: SQWQEASQAWEW12

Authorization Code:

```
<specificPLR><authorizationCode><flag>A</flag><version>C</version><pild>05ae2ef4-0d9e-428a-868e-bca8c8e64cd3</pild><timestamp>1565023865051</timestamp><entitlements><entitlement><tag>regid.2019-05.com.cisco.NXOS_ENTITLEMENT,NXOSSESSEN_76cf76b2-f4cc-408c-bc5e-79bf99e1888b</tag><count>150</count><startDate>2019-Aug-05 UTC</startDate><endDate>2020-Feb-01 UTC</endDate><licenseType>TERM</licenseType><displayName>NXOS ESSEN</displayName><tagDescription>NXOS_ENTITLEMENTS_DESC</tagDescription><subscriptionID></subscriptionID></entitlement></entitlements></authorizationCode><signature>MEYCIQDow7F3ZsAE6jh5e4mqbdXrM89n5KBaqEn0EHZBDNrcnAlhALY5yF3Zfsg6IVmk8NdgccQnC8CP35jEuNI/MFHxf/oz</signature></specificPLR>
```

To learn how to enter this code, see the configuration guide for the product being licensed

Download as File Copy to Clipboard Close

When the *Registration Authorization Code* is registered for a particular *Product Instance* then that *Product Instance* does not need to sync back to the *Cisco SSM* and share the license usage information with *Cisco SSM*.

You do need to enter this *Authorization Code* back in the *Product Instance* for the handshake to complete.

Specific License Reservation in SSM

SLR License Hierarchy – License Substitution

- 1 After completing the License Reservation, go back to the **Licenses tab** (in the same Virtual Account).
- 2 You will see a summary: NXOS Essentials borrowed 50 licenses from one of the two available upper tier licenses placed in the same Virtual Account (SLR Demo). 150 licenses are reserved for NXOS Essentials and the Balance for NXOS Advantage is decreased by 50 licenses (+50 instead of +100).

Virtual Account: SLR Demo

General **Licenses** Product Instances Event Log

Available Actions Manage License Tags License Reservation... Show License Transactions Search by License

By Name By Tag

Advanced Search

License	Billing	Purchased	In Use	Balance	Alerts	Actions
ACI ADVANTAGE	Prepaid	100	0	+ 100		Actions
ACI ESSEN	Prepaid	100	0	+ 100		Actions
DCNM	Prepaid	100	0	+ 100		Actions
FAB	Prepaid	100	0	+ 100		Actions
LAN	Prepaid	100	0	+ 100		Actions
NETWORK	Prepaid	100	0	+ 100		Actions
NXOS ADVAN	Prepaid	100 -50	0	+ 50		Actions
NXOS ESSEN	Prepaid	100 +50	150 (150 Reserved)	0		Actions

Showing All 8 Records

Specific License Reservation in SSM

SLR License Hierarchy – Scenario 3: Multiple Children to one Parent

In **Step 1, Select Licenses**, you can **update the License Reservation**.

Let's review the logic when multiple lower tier (Children) need to reserve licenses (Scenario 2) on a Product Instance.

- 1 In the previous example, Level 3 license, NXOS Essentials, borrowed 50 licenses from it's upper tier (Parent) NXOS Advantage. NXOS Essentials is "Child 1"

Now, another Level 3 license, FAB, "Child 2" of the same parent (NXOS Advantage) also needs 50 licenses

- 2 Click **Next**

The screenshot shows the 'Select Licenses' step of the SSM workflow. The table below represents the license hierarchy and reservation data shown in the interface:

Level	License Name	Start Date	Available	Reserved	Reservation Value
Level 4					
	LAN	2020-02-01	100	350	0
	TELE	-	0	250	0
	DCNM	2020-02-01	100	350	0
	NETWORK	2020-02-01	100	350	0
Level 2					
	NXOS ADVAN	2020-02-01	100	100	0
Level 3					
	FAB	2020-02-01	100	200	50

The 'Next' button is highlighted with a red box and a circled '2', indicating the action to be taken. A red box and circled '1' also highlight the reservation value '50' for the FAB license.

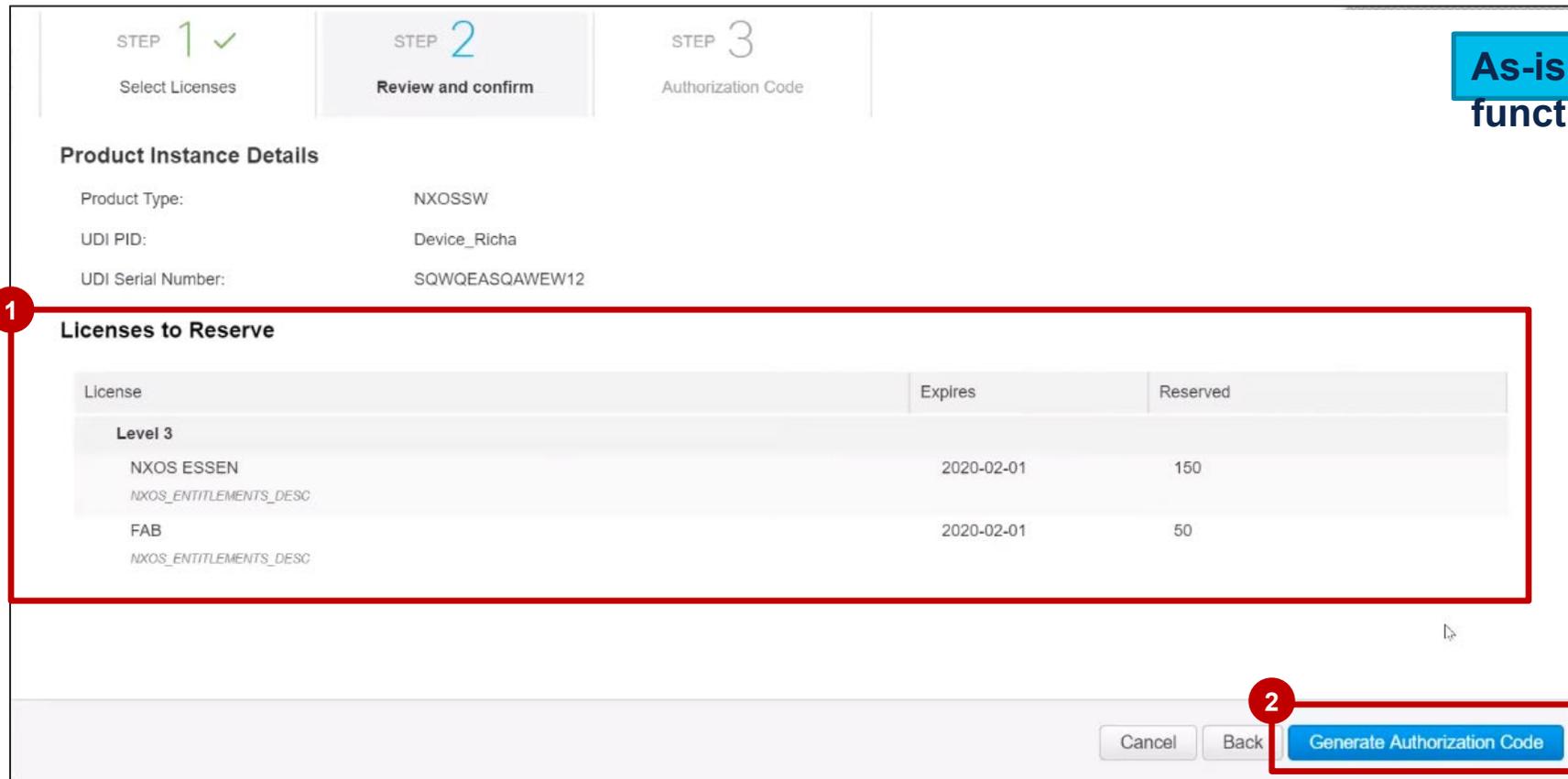
New functionality.

After clicking "Next", the rest of the workflow will function as it does today

Specific License Reservation in SSM

SLR License Hierarchy

- 1 In **Step 2, Reserve and Confirm**, you can view how many licenses will be reserved.
- 2 Click **Generate Authorization Code**.



STEP 1 ✓
Select Licenses

STEP 2
Review and confirm

STEP 3
Authorization Code

Product Instance Details

Product Type: NXOSSW
UDI PID: Device_Richa
UDI Serial Number: SQWQEASQAWEW12

Licenses to Reserve

License	Expires	Reserved
Level 3		
NXOS ESSEN <i>NXOS_ENTITLEMENTS_DESC</i>	2020-02-01	150
FAB <i>NXOS_ENTITLEMENTS_DESC</i>	2020-02-01	50

Cancel Back **Generate Authorization Code**

As-is functionality.

Specific License Reservation in SSM

SLR License Hierarchy

- 1 The **Step 3, Authorization Code**, the Authorization Code is generated for the selected product instance.
- 2 Click the **Close** button to go back to the Product Instance tab.

As-is functionality.

STEP 1 ✓ Select Licenses

STEP 2 ✓ Review and confirm

STEP 3 Authorization Code

✓ The Reservation Authorization Code below has been generated for this product instance. Several steps remain:

1. This code must be entered into the Product Instance's Smart Licensing settings to complete the reservation.
2. When the code has been entered, a Reservation Confirmation Code will be generated.
3. To release licenses in transition, enter confirmation code generated by device into CSSM.

1 Authorization Code:

```
<specificPLR><authorizationCode><flag>A</flag><version>C</version><plid>05ae2ef4-0d9e-428a-868e-bca8c8e64cd3</plid><timestamp>1565024038709</timestamp><entitlements><entitlement><tag>regid.2019-05.com.cisco.NXOS_ENTITLEMENT,NXOSESSEN_76cf76b2-f4cc-408c-bc5e-79bf99e1888b</tag><count>150</count><startDate>2019-Aug-05 UTC</startDate><endDate>2020-Feb-01 UTC</endDate><licenseType>TERM</licenseType><displayName>NXOS ESSEN</displayName><tagDescription>NXOS_ENTITLEMENTS_DESC</tagDescription><subscriptionID></subscriptionID></entitlement><entitlement><tag>regid.2019-05.com.cisco.NXOS_ENTITLEMENT,FAB_d9f7616c-52df-4330-9f04-e7ad31955916</tag><count>50</count><startDate>2019-Aug-05 UTC</startDate><endDate>2020-Feb-01 UTC</endDate><licenseType>TERM</licenseType><displayName>FAB</displayName><tagDescription>NXOS_ENTITLEMENTS_DESC</tagDescription><subscriptionID></subscriptionID></entitlement></entitlements>
```

To learn how to enter this code, see the configuration guide for the product being licensed

2 Close

You will have to copy/paste the Authorization Code into the device (Product Instance), to generate a Confirmation Code and then enter the Confirmation Code in SSM. If you have increased the quantity of entitlements to be reserved, you are not mandated to enter a Confirmation Code in SSM immediately. This is because SSM considers the reservation as soon as the authorization code is generated.

Updated reserved licenses will be displayed in real time in SSM. Only in case the update results in reduction of licenses reserved, the reduced quantity will be in transition till the Confirmation Code is entered back in SSM.

Specific License Reservation in SSM

SLR License Hierarchy

- 1 After completing the License Reservation Update, which follows all other License Reservation Workflows, go back to the **Licenses tab** (in the same Virtual Account).
- 2 FAB borrowed 50 licenses from the upper tier licenses that were placed in the same Virtual Account (SLR Demo). Although 50 licenses are reserved (in use), FAB's "balance" remains 100 and does not drop. This is because the extra licenses are borrowed from NXOS Advantage via NXOS Essentials, "Child 1" (where the updated Reservation is for the same device as the initial Reservation).
- 3 Notice the values for NXOS Advantage and NXOS Essentials remain the same. This is because the licenses NXOS Essentials "Child 1" borrowed from NXOS Advantage "Parent" can be shared with FAB "Child 2", since it is for the same device.

Virtual Account: SLR Demo Hide Alerts

General **Licenses** Product Instances Event Log

Available Actions Manage License Tags License Reservation... Show License Transactions

By Name By Tag

Advanced Search

License	Billing	Purchased	In Use	Balance	Alerts	Actions
ACI ADVANTAGE	Prepaid	100	0	+ 100		Actions
ACI ESSEN	Prepaid	100	0	+ 100		Actions
DCNM	Prepaid	100	0	+ 100		Actions
FAB	Prepaid	100	50 (50 Reserved)	+ 100		Actions
LAN	Prepaid	100	0	+ 100		Actions
NETWORK	Prepaid	100	0	+ 100		Actions
NXOS ADVAN	Prepaid	100 -50	0	+ 50		Actions
NXOS ESSEN	Prepaid	100 +50	150 (150 Reserved)	0		Actions

New functionality.

Transfer of Reserved Entitlements (in case of License Hierarchy/License Substitution)

Specific License Reservation in SSM

SLR License Hierarchy – Transfer of Reserved Entitlements

If you transfer a Product Instance reserving licenses (where upper tier licenses can lend to lower tier licenses, if you wish to reserve more than what you have Available). It is important to note, these "borrowed" entitlements will not be transferred together with the Product Instance.

- 1 From the **Product Instances** tab, go to the Product Instance and **click Transfer**.

The screenshot displays the Cisco Software Central interface for Smart Software Licensing. The breadcrumb trail is "Cisco Software Central > Smart Software Licensing". The main heading is "Smart Software Licensing" with links for "Feedback", "Support", and "Help". A navigation bar includes "Alerts", "Inventory", "Convert to Smart Licensing", "Reports", "Preferences", "On-Prem Accounts", and "Activity". The "Virtual Account" is set to "SLR Demo". The "Product Instances" tab is selected and highlighted with a red box. Below the tabs, there is a "Transfer..." button and a search bar labeled "Search by Name, Product Type". A table lists product instances with columns for Name, Product Type, Last Contact, Alerts, and Actions. One instance is shown: "UDI_PID:Device_Richa; UDI_SN:SQWQEASQAWEW12; NXOSSW" with a last contact of "2019-Aug-05 16:53:59 (Reserved Licenses)". The "Actions" column for this instance has a dropdown menu open, with the "Transfer..." option highlighted by a red box and a red circle with the number "1". A blue callout box in the top right corner of the interface says "As-is functionality." The footer contains links for "Contacts", "Feedback", "Help", "Site Map", "Terms & Conditions", "Privacy Statement", "Cookie Policy", and "Tra".

Specific License Reservation in SSM

SLR License Hierarchy – Transfer of Reserved Entitlements

- 1 To confirm the Product Instance transfer with the reserved licenses, **click Transfer**.

When you are transferring a product instance, which is reserving licenses, and a lower tier license has borrowed from upper tier license (Parent), then once the transfer happens to the Destination Virtual Account: One of two situations can occur.

1. The reserved license moves along with the Product Instance to the Destination Virtual Account (As-Is).
2. The upper Tier (Parent) license is not moved along with the Product Instance and if the Destination Virtual Account does not have sufficient quantity of the Parent, then it may go out of compliance (New).

- 2 If this scenario happens, you will see a warning message immediately after clicking **Transfer**.

The screenshot shows the Cisco Software Central interface. A 'Transfer Product Instance' dialog box is open, displaying a 'License Shortage' warning. The warning message reads: 'The virtual Account "SLRTransferP1" does not have sufficient licenses to cover the usage required by the product instance being transferred. If you continue, you will have to transfer the licenses listed below to remain in compliance. 120 NXOS ESSEN'. Below the warning, there is a table of licenses:

License	Quantity
NXOS ESSEN	120
FAB	50

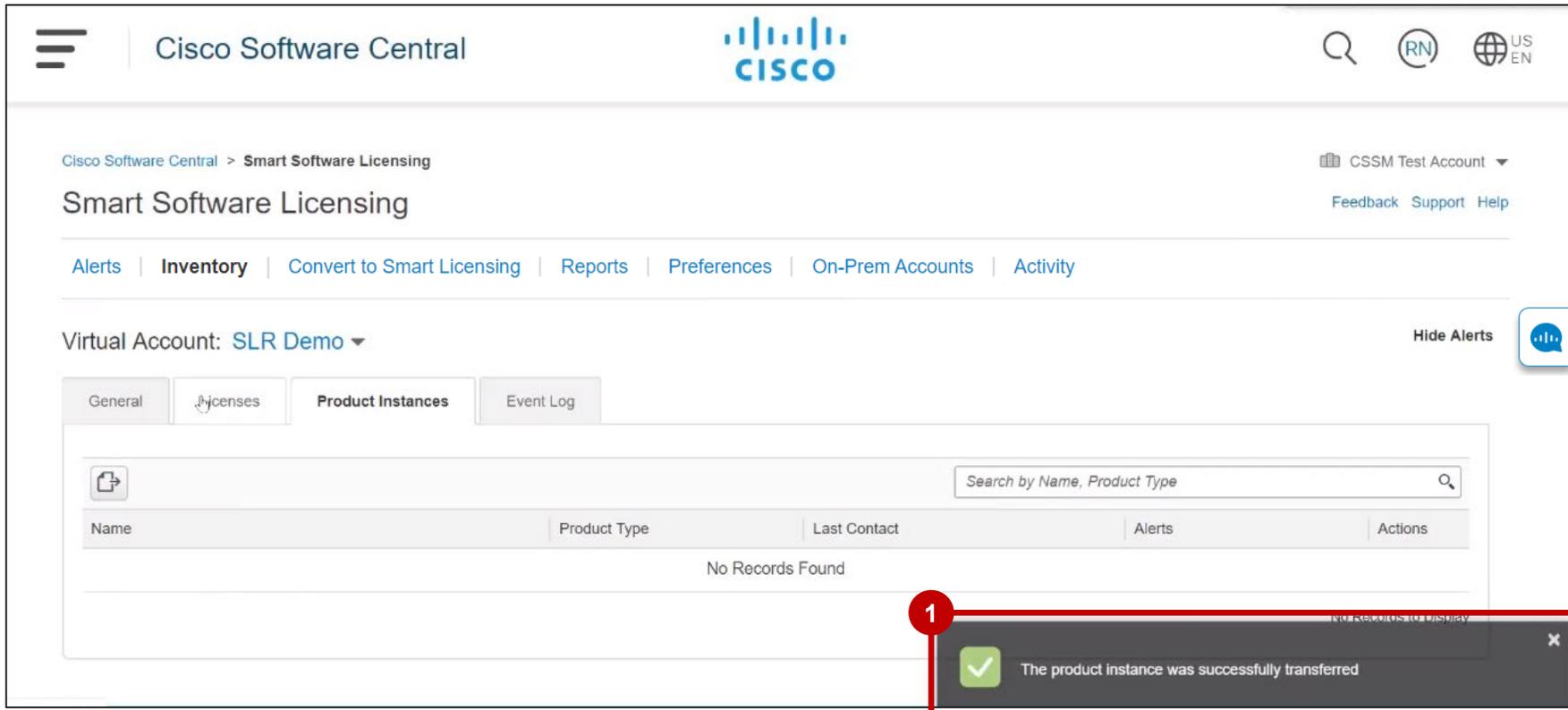
The 'Transfer' button is highlighted with a red circle and a '1'. The 'Continue' and 'Cancel' buttons are also visible.

The virtual Account 'SLRTransferP1' does not have sufficient licenses to cover the usage required by the product instance being transferred. If you continue, you will have to transfer the licenses listed below to remain in compliance.

Specific License Reservation in SSM

SLR License Hierarchy – Transfer of Reserved Entitlements

- 1 You will receive a confirmation message: The Product Instance was successfully transferred.



The screenshot displays the Cisco Software Central interface for Smart Software Licensing. The page title is "Smart Software Licensing" and the virtual account is "SLR Demo". The "Product Instances" tab is selected, showing a table with columns for Name, Product Type, Last Contact, Alerts, and Actions. The table currently displays "No Records Found". A confirmation message is visible in the bottom right corner, stating "The product instance was successfully transferred".

Cisco Software Central

Smart Software Licensing

Virtual Account: SLR Demo

General Licenses **Product Instances** Event Log

Search by Name, Product Type

Name	Product Type	Last Contact	Alerts	Actions
No Records Found				

1 The product instance was successfully transferred

Specific License Reservation in SSM

SLR License Hierarchy – Transfer of Reserved Entitlements

- 1 The "borrowed" license is not transferred to the destination Virtual Account, therefore the balance may be negative, and you may see an alert (the Virtual Account may go out of compliance).

Smart Software Licensing

Alerts | Inventory | Convert to Smart Licensing | Reports | Preferences | On-Prem Accounts | Activity

Virtual Account: Transfer License

General | Licenses | Product Instances | Event Log

Available Actions | Manage License Tags | License Reservation... | Show License Transactions | Search by License

License	Billing	Purchased	In Use	Balance	Alerts	Actions
FAB	Prepaid	50	50 (50 Reserved)	0		Actions
NXOS ESSEN	Prepaid	100	150 (150 Reserved)	-50	2 Alerts	Actions
SDWAN Umbrella Provision Cloud Essentials	Prepaid	1	0	+1		Actions
SDWAN Umbrella Provision Cloud Premier	Prepaid	1	0	+1		Actions

This shows the destination Virtual Account after the Product Instance is transferred.
NOTE: the upper tier license is now out of compliance in the Destination Virtual Account

Additional Resources

Customer Support

Submitting Cases

Software Licensing Support:

If you have support questions about Software Licensing, open a case via [Support Case Manager \(SCM\)](#).

To learn more on how to open a case in SCM, click [here](#).

Product Support: Technical Assistance Center (TAC)

For Technical Support questions, please contact Cisco TAC: [Worldwide Support Contacts](#)



Version History (September 2019)

Slide #	Details	Release
9, 10, 11, 13, 19, 20, 21, 24, 27, 30, 37, 43, 47, 48, 49, 55, 56, 63, 64, 69, 70, 72, 76, 78, 81, 83, 86, 100, 102, 103	Satellites tab renamed to On-Prem Accounts (updated screenshots)	September 27th

Version History (December 2019)

Slide #	Details	Release
9, 10, 13, 19, 21, 24, 30, 37, 43, 44, 47, 48, 49, 55, 64, 69, 72, 80, 81, 82, 100, 101, 102, 103	Screenshot updates due to the new layout of the Virtual Chat Assistant	December 13th

Version History (May 2020)

Slide #	Details	Release
10, 11, 53, 57, 65, 105	Modified Support slide and other slides to include Support Case Manager	May 2020

Version History (June 2020)

Slide #	Details	Release
All slides	PPT format update/refresh	June 2020
6, 16	Updates related to license reservation and export control check.	June 2020
11,12,14	Updated information on SLR Button enabled for new and Existing smart accounts.	October 2020