How to Migrate Catalyst 3850 Series from RTU to Smart Mode

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Introduction

The article describes the process of migrating Catalyst 3850 Series from traditional right-to-use (RTU) licenses to Smart mode by device led conversion (DLC). DLC is a capability that enables you to upgrade a new device (product instance) to Smart licenses when it is registered in Cisco Smart Software Manager (CSSM). All the licenses on the device will automatically be converted from Classic or Perpetual RTU to Smart licenses without you having to perform any manual conversion. DLC will only be available at latest release of software for devices that support DLC. To identify the devices that support DLC, refer to Smartsheet.

⚠ **Caution**: You can perform DLC only once for each device. This process only supports converting Classic to Smart Licenses. Once you convert the Smart licenses, you will not be able to convert them back to Classic – unless you deregister the device in CSSM and remove all the Smart licenses.

Prerequisites

Requirements

Before you start, ensure that you have the following data at your disposal:

- Active Cisco.com account
- Smart Account Administrator user role (To request Smart Account Administrator role, refer to How to Request Access to an Existing Smart Account.)
- Access to the device

Components Used

The information in this document was created from Catalyst 3850 with IOS version 16.12.05b in a specific lab environment. If your network is live, ensure that you understand the potential impact of any command.

Migrating Catalyst 3850 Series from RTU to Smart Mode

Step 1:

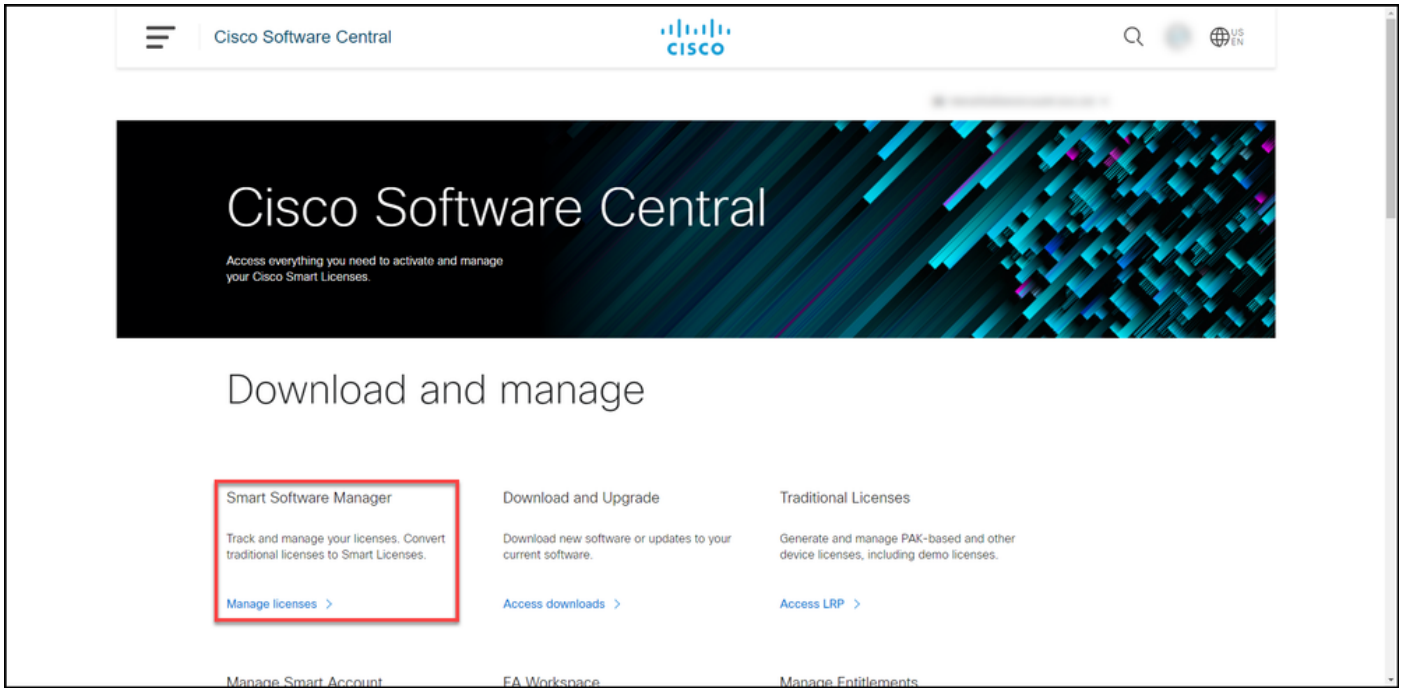
Go to Cisco Software Central and log in with your Cisco.com account.



Step 2:

In the**Smart Software Manager**section, click**Manage licenses**.

Step result: You enter **Cisco Smart Software Manager (CSSM)**.

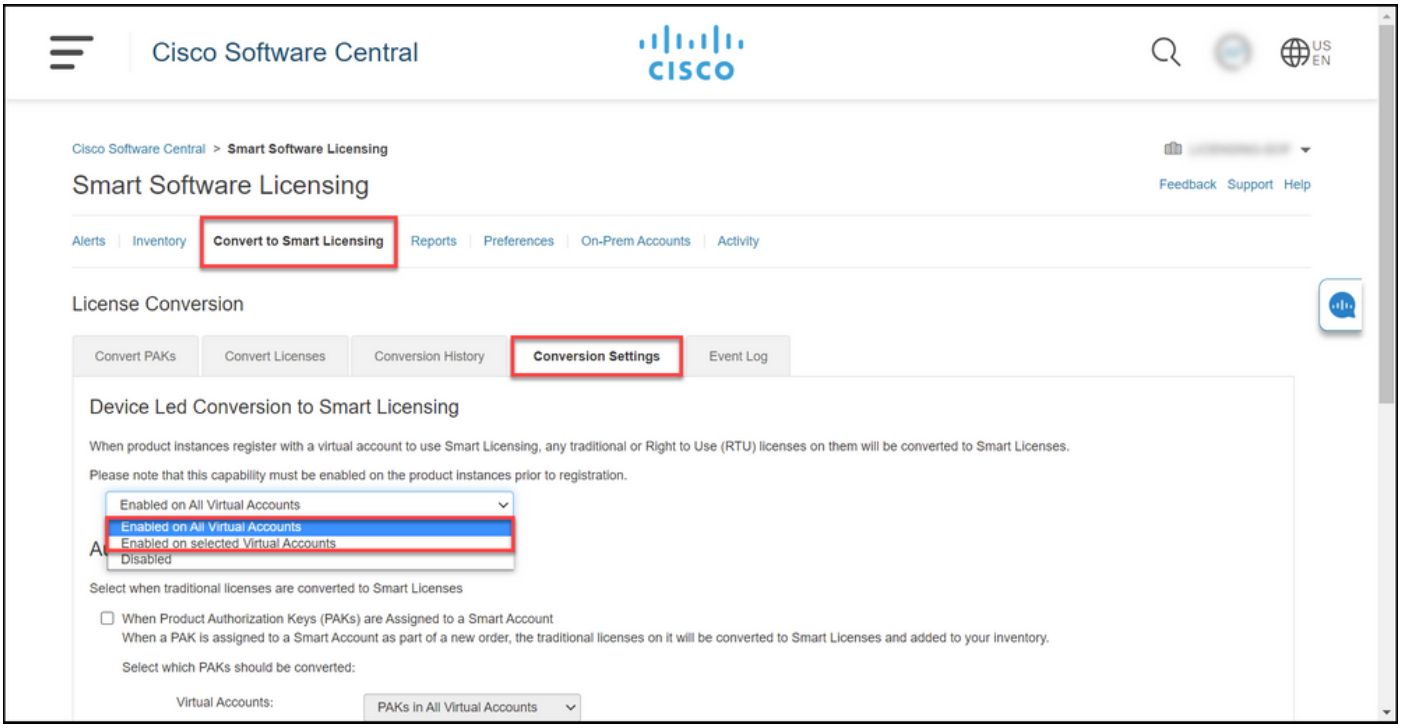


Step 3:

On the **Convert to Smart Licensing** tab, select **Conversion Settings**, and then in the **Device Led Conversion to Smart Licensing** section, enable DLC by selecting one of the following options:

a. Enabled on All Virtual Accounts	Click **Save**.
b. Enabled on Selected Virtual Accounts	In the **Select Virtual Accounts - Convert to Smart Licensing** dialog box, from the **Available Virtual Accounts** list box, select the Virtual account for which you want to enable DLC, and then click the arrow to transfer the selected Virtual account to the **Selected Virtual Accounts** list box. Click **OK**. Then click **Save** on the **Conversion Settings** tab. Refer to Figure 1. **Note**: To remove the Virtual account from the **Selected Virtual Accounts** list box, select the Virtual account that you want to remove, and then click the arrow to transfer it to the **Available Virtual Accounts** list box.

Note: You need to enable license conversion before you start the conversion. Failure to enable license conversion will result in CSSM displaying an insufficient licenses error.



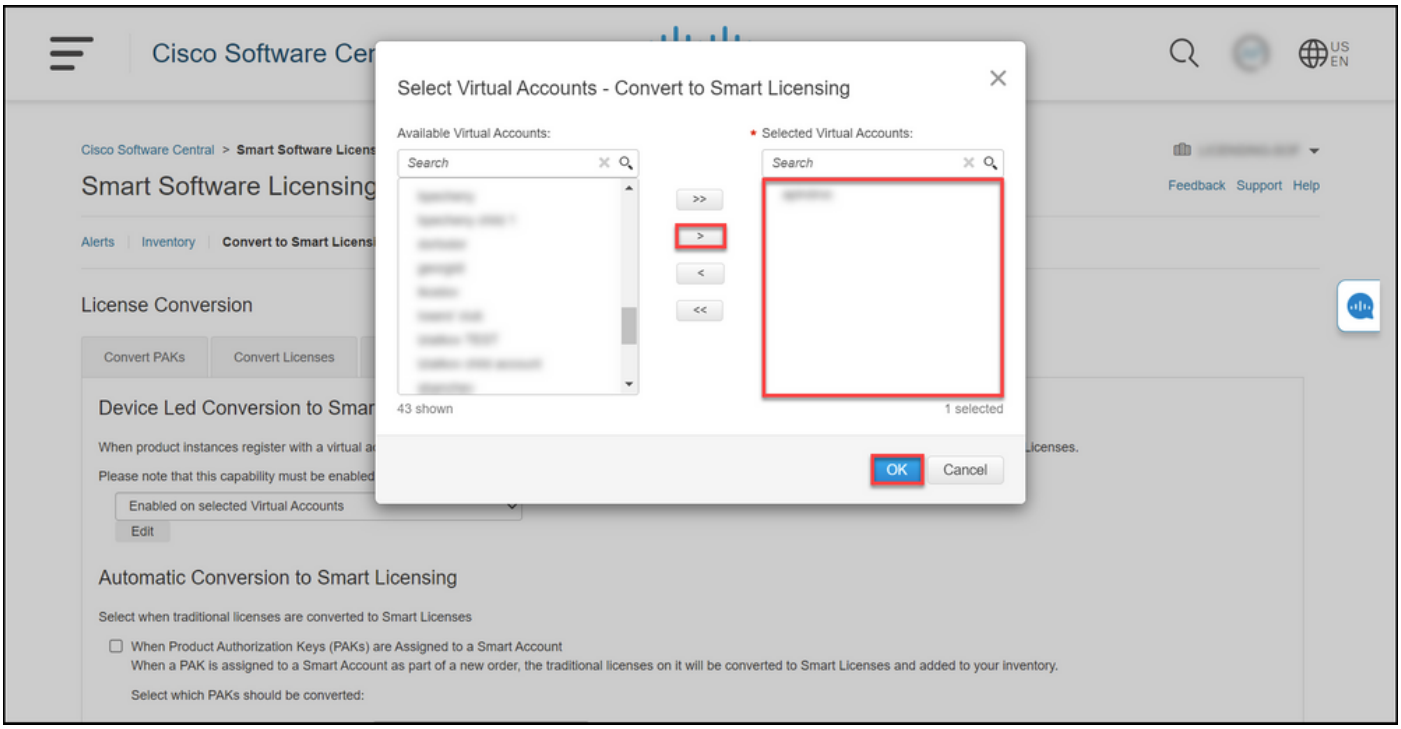
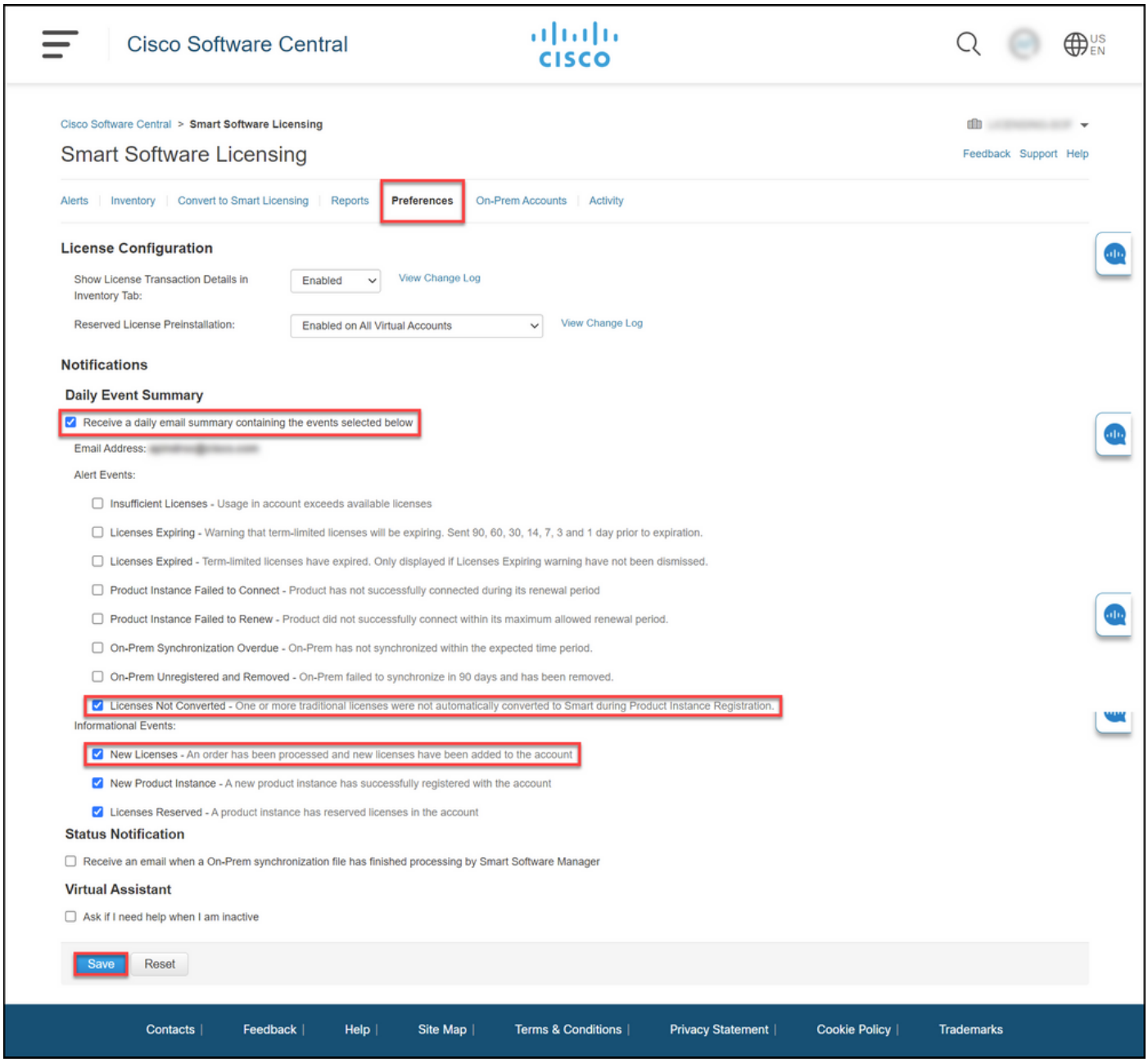


Figure 1 - Selection of Virtual accounts for the Enabled on selected Virtual Accounts option

(Optional) Step 4:

In CSSM, click **Preferences**, and in the **Notifications** section, ensure that you select the **Receive a daily summary containing the events selected below** check box. To receive email notifications after successful DLC, select the **New Licenses** check box from the **Informational Events** section. To receive email notifications if licenses are not converted, select the **Licenses Not Converted** check box from the **Alert Events** section. Click **Save**.

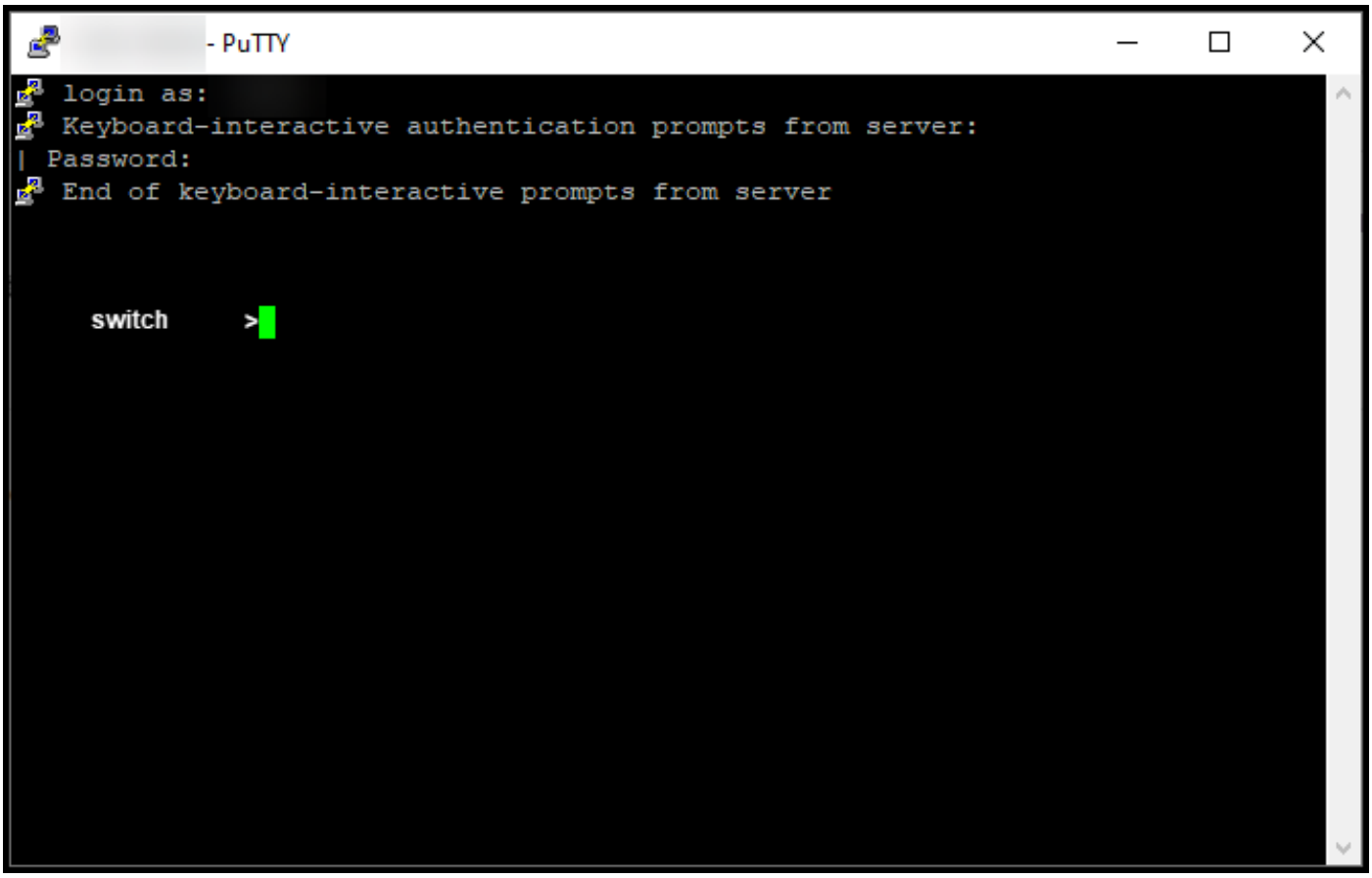


Step 5:
Register your device with a Smart account. To register your device with a Smart account, refer to How to Register a Device with a Smart Account (Cloud Connect).

Step 6:

Log in to the IOS of the device with the login and password by using one of the clients or console.

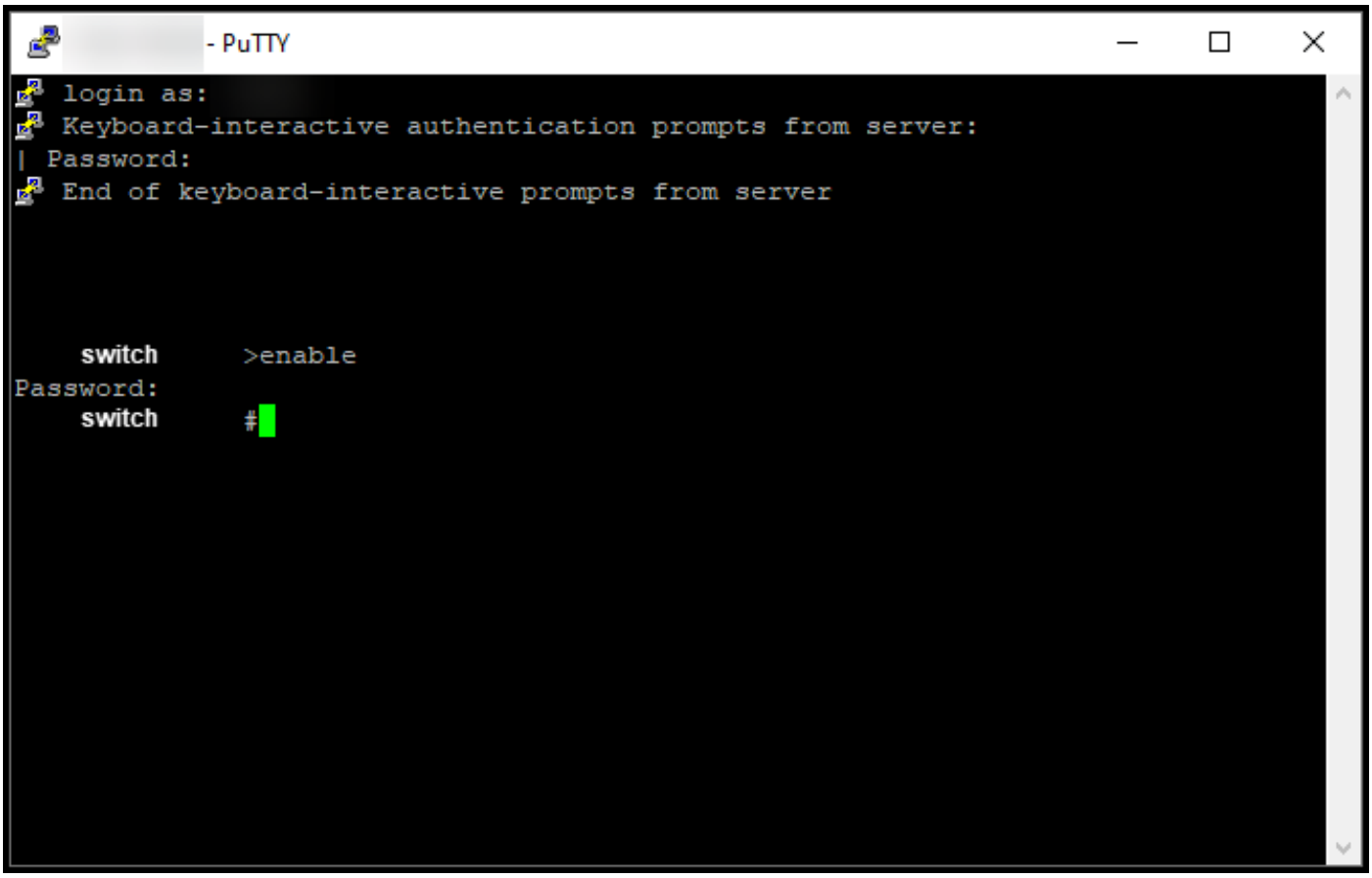
Step result: You enter the user EXEC mode of the IOS.



Step 7:

Type the **enable** command in the command line, and then enter the password to access the privileged EXEC mode.

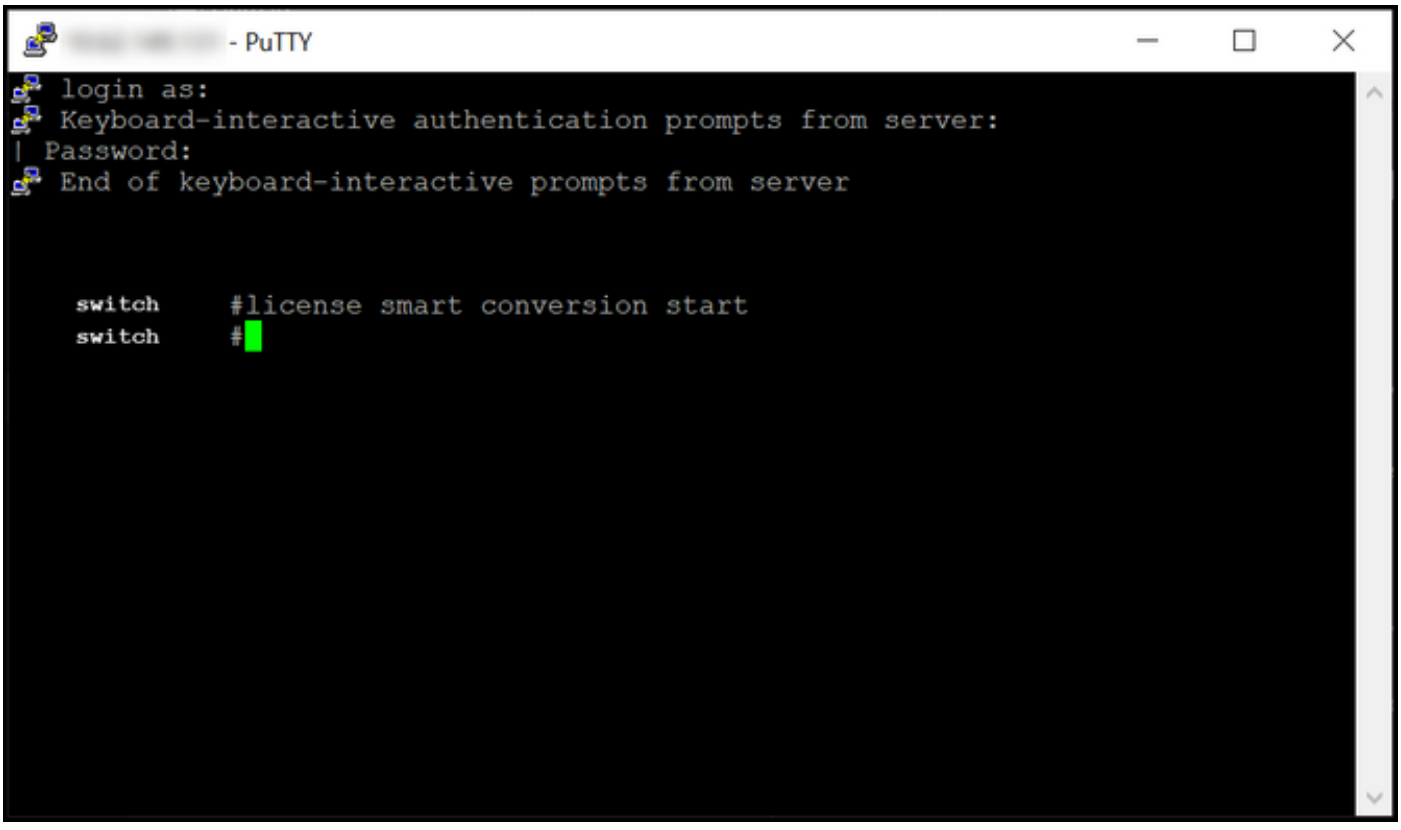
Step result: You enter the privileged EXEC mode.



Step 8:

In the priviledged EXEC mode, initiate DLC by entering the **license smart conversion start** command.

Step result: The system migrates the license to CSSM.



Verify

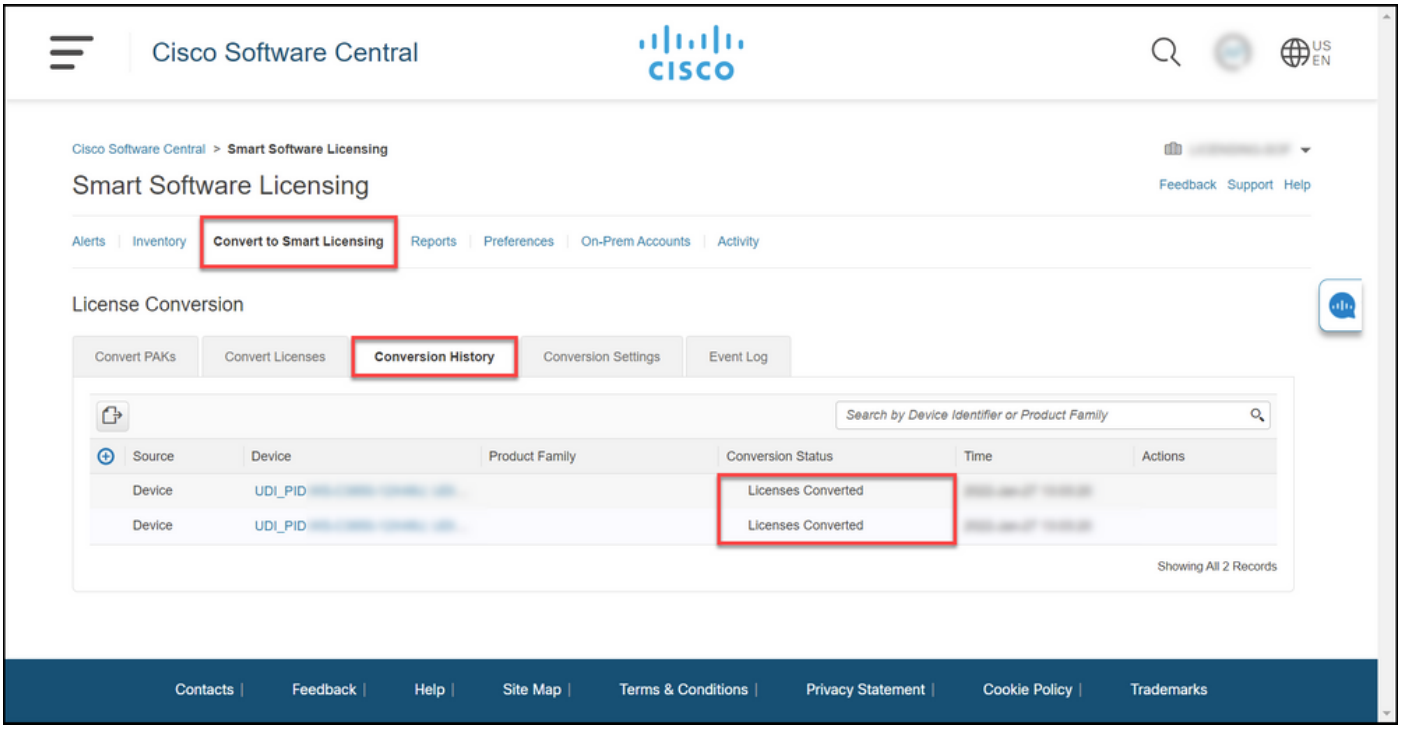
Use this section to confirm that you properly migrated Catalyst 3850 Series from RTU to Smart mode.

Option 1:

Verification Step: In **Cisco Smart Software Manager (CSSM)**, click **Convert to Smart Licensing**, and then click **Conversion History**. Check the status of your device in the **Conversion Status** column.

Step result: The system displays the status of **Conversion Status** as ***Licenses Converted***.

Tip: If you have a long conversion history, you can search for your device in the search bar by entering a device identifier or product family.

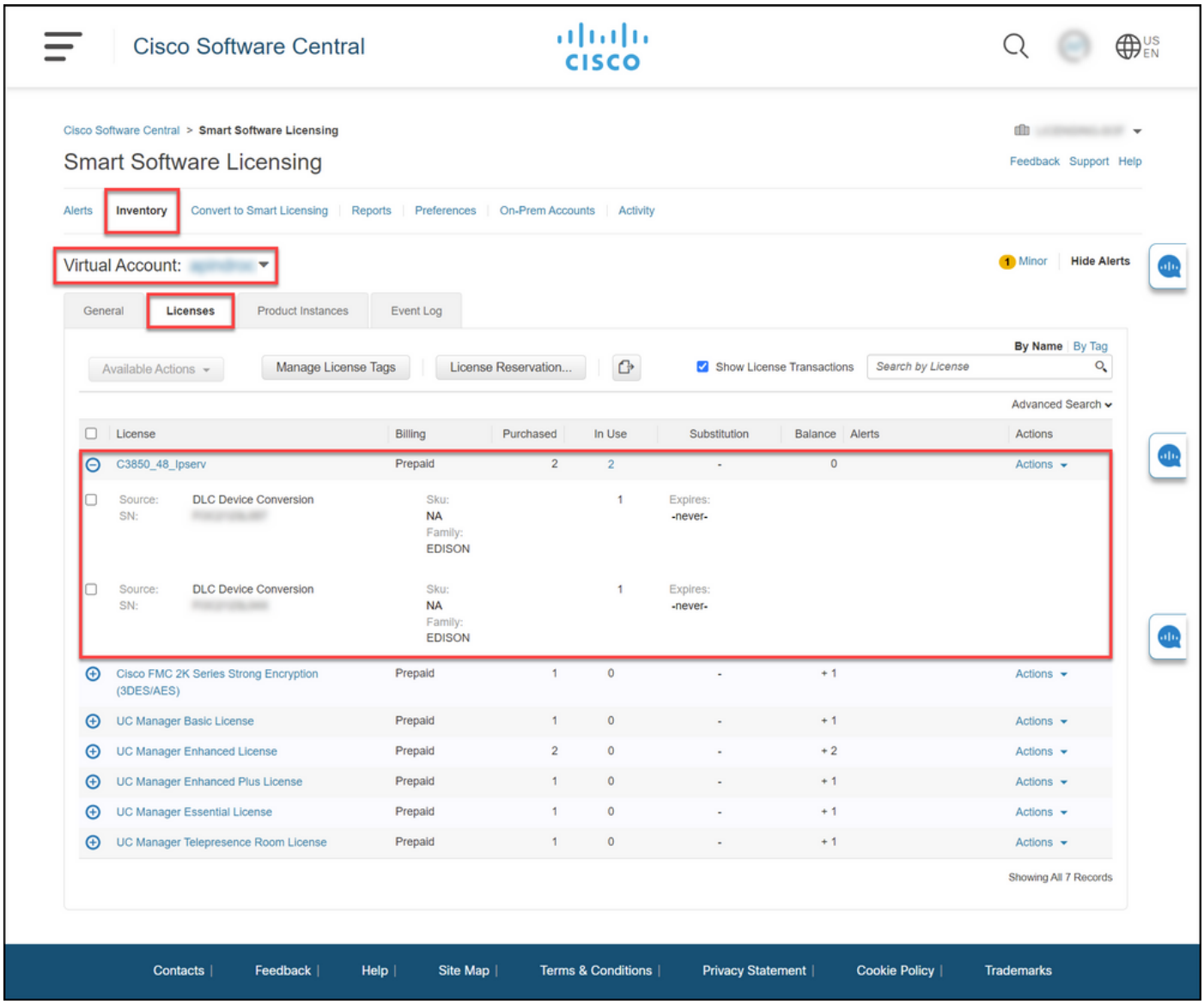


Option 2:

Verification Step: In **Cisco Smart Software Manager (CSSM)**, click **Inventory**, select your Virtual account, and then click **Licenses**.

Step result: The system displays your converted licenses in the table.

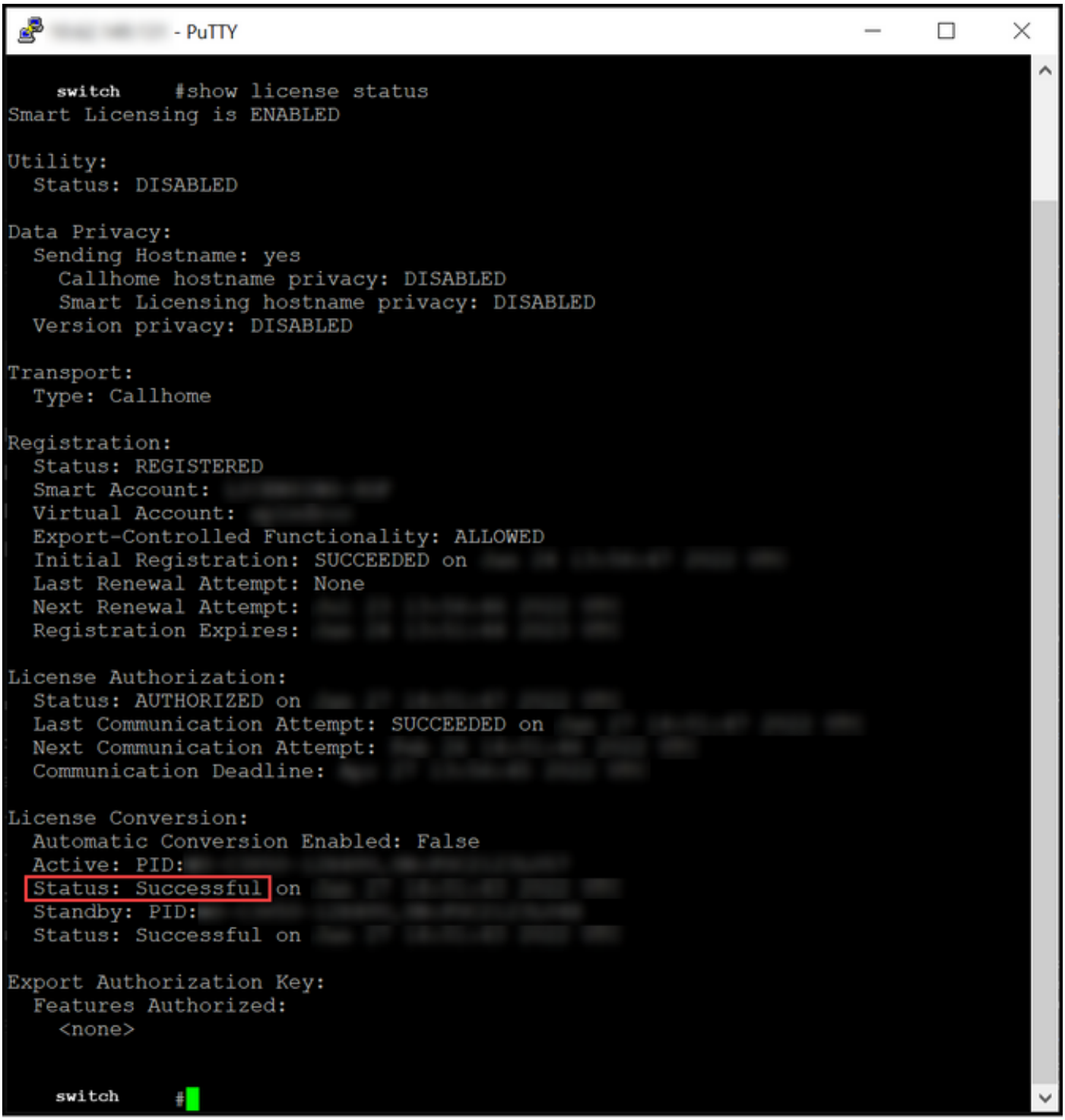
Tip: If you have a long list of licenses, you can search for your license in the search bar.



Option 3:

Verification Step: In the IOS of the device, enter the privileged EXEC mode, and then enter the **show license status** command.

Step result: The system displays the status of the **License Conversion** as ***Successful***.



Troubleshooting

If you experience an issue during the process of migrating Catalyst 3850 Series from RTU to Smart mode, refer to the job aid. If you are still not able to resolve the issue after troubleshooting, then open a case in[Support Case Manager (SCM)](#).