

如何将Catalyst 3850系列从RTU迁移到智能模式

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简介

本文介绍通过设备led转换(DLC)将Catalyst 3850系列从传统使用权(RTU)许可证迁移到智能模式的过程。DLC是一种功能，当新设备（产品实例）在思科智能软件管理器(CSSM)中注册时，它允许您将其升级到智能许可证。设备上的所有许可证将自动从传统或永久RTU转换为智能许可证，无需执行任何手动转换。DLC仅在支持DLC的设备的最新软件版本上可用。要识别支持DLC的设备，请参阅[Smartsheet](#)。

警告：您只能对每台设备执行一次DLC。此过程仅支持将传统许可证转换为智能许可证。一旦您转换了智能许可证，您将无法将其转换回传统许可证 — 除非您在CSSM中取消注册设备并删除所有智能许可证。

先决条件

要求

开始之前，请确保您拥有以下数据：

- [有效Cisco.com帐户](#)
- 智能帐户管理员用户角色(要请求智能帐户管理员角色，请参阅[如何请求对现有智能帐户的访问权](#)。)
- 访问设备

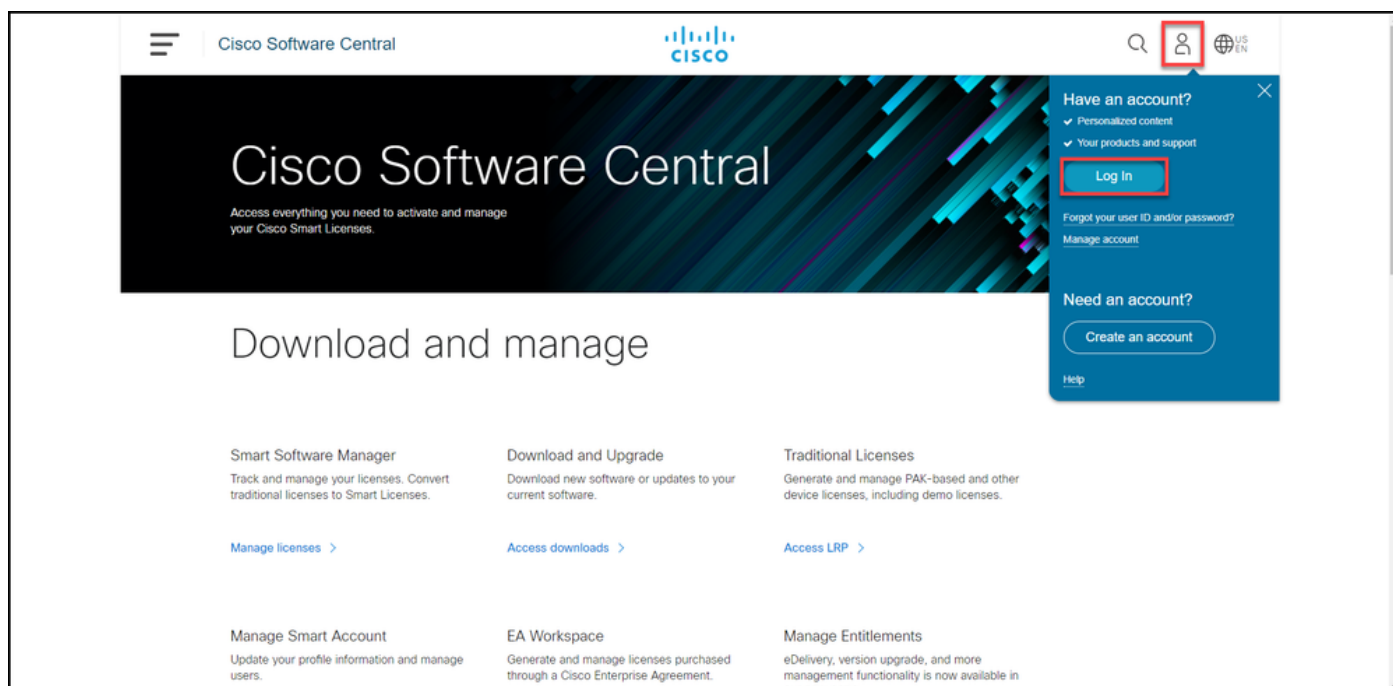
使用的组件

本文档中的信息是在特定实验环境中使用IOS版本16.12.05b从Catalyst 3850创建的。如果您的网络处于活动状态，请确保您了解所有命令的潜在影响。

将Catalyst 3850系列从RTU迁移到智能模式

步骤 1：

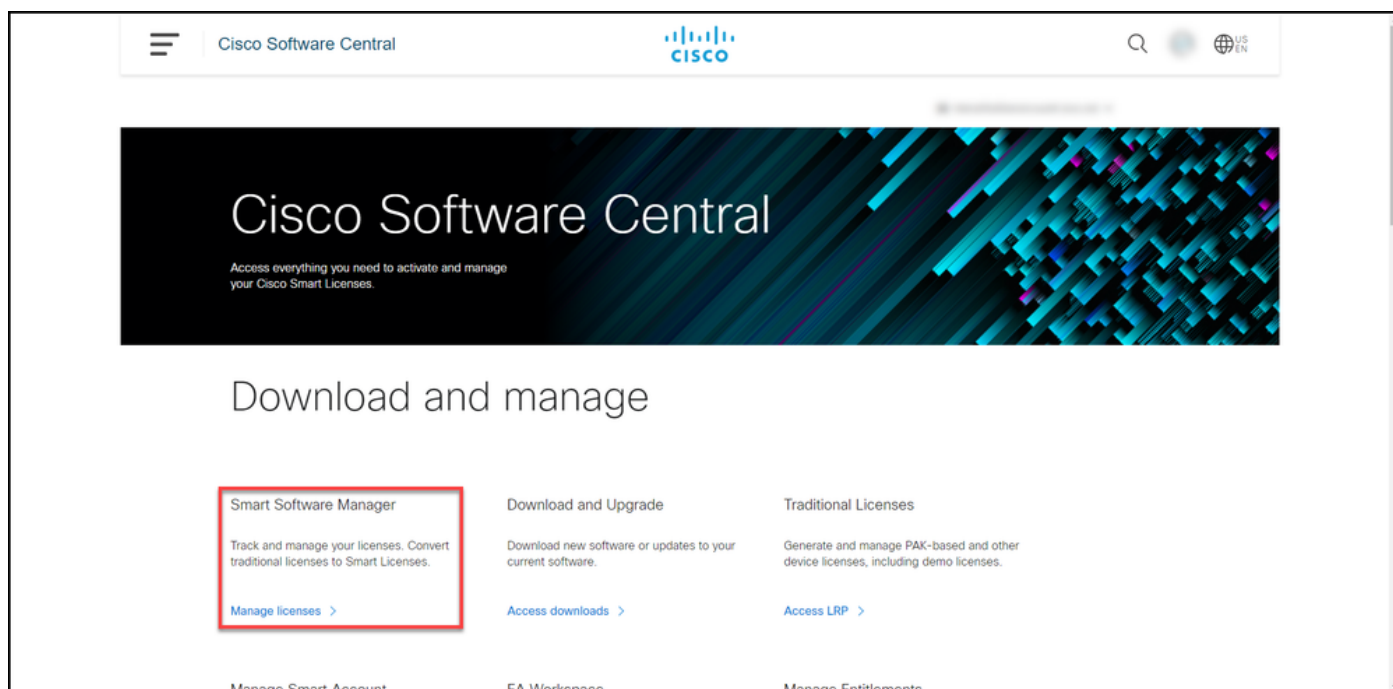
转到 [思科软件中心](#) 并使用您的Cisco.com帐户登录。



步骤 2：

在“智能软件管理器”部分，单击管理许可证。

步骤结果:您将进入思科智能软件管理器(CSSM)。



步骤 3：

在 **转换为智能许可**，选择**转换设置**，然后在“设备LED转换到智能许可”部分，通过选择以下选项之一启用DLC:

a.在所有虚拟帐户上启用

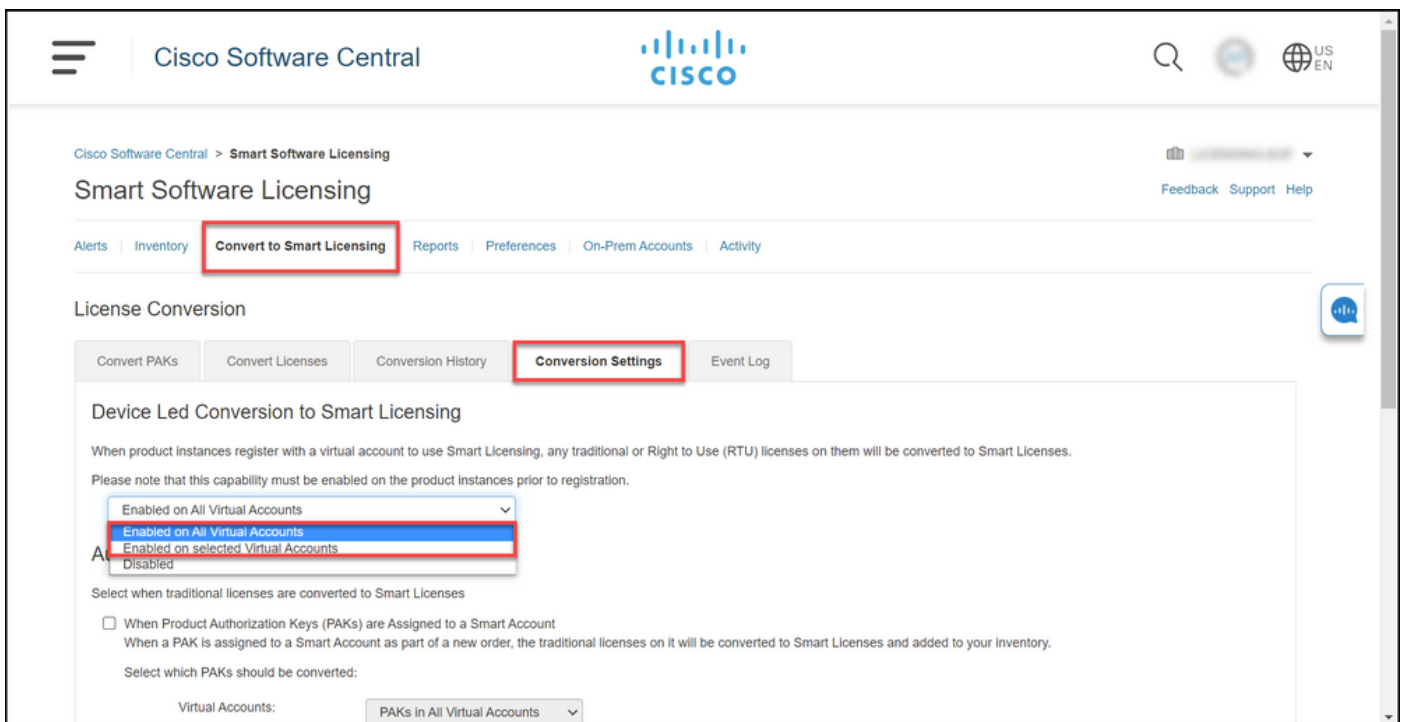
Click **Save**.

在**选择虚拟帐户 — 转换为智能许可**对话框中，从**虚拟帐户**列表框中，选择要为其启用DLC的虚拟帐户，然后单击箭头将所选虚拟帐户转移到选定虚拟帐户框中。Click OK.然后单击“转换设置”选项卡上的。请参见图 1。

b.在所选虚拟帐户上启用

注意：要从“选定虚拟帐户”列表框中删除虚拟帐户，请选择要删除的虚拟帐户，然后单击箭头将转移到“可用虚拟帐户”列表框。

注意：在开始转换之前，需要启用许可证转换。未能启用许可证转换将导致CSSM显示许可证不足错误。



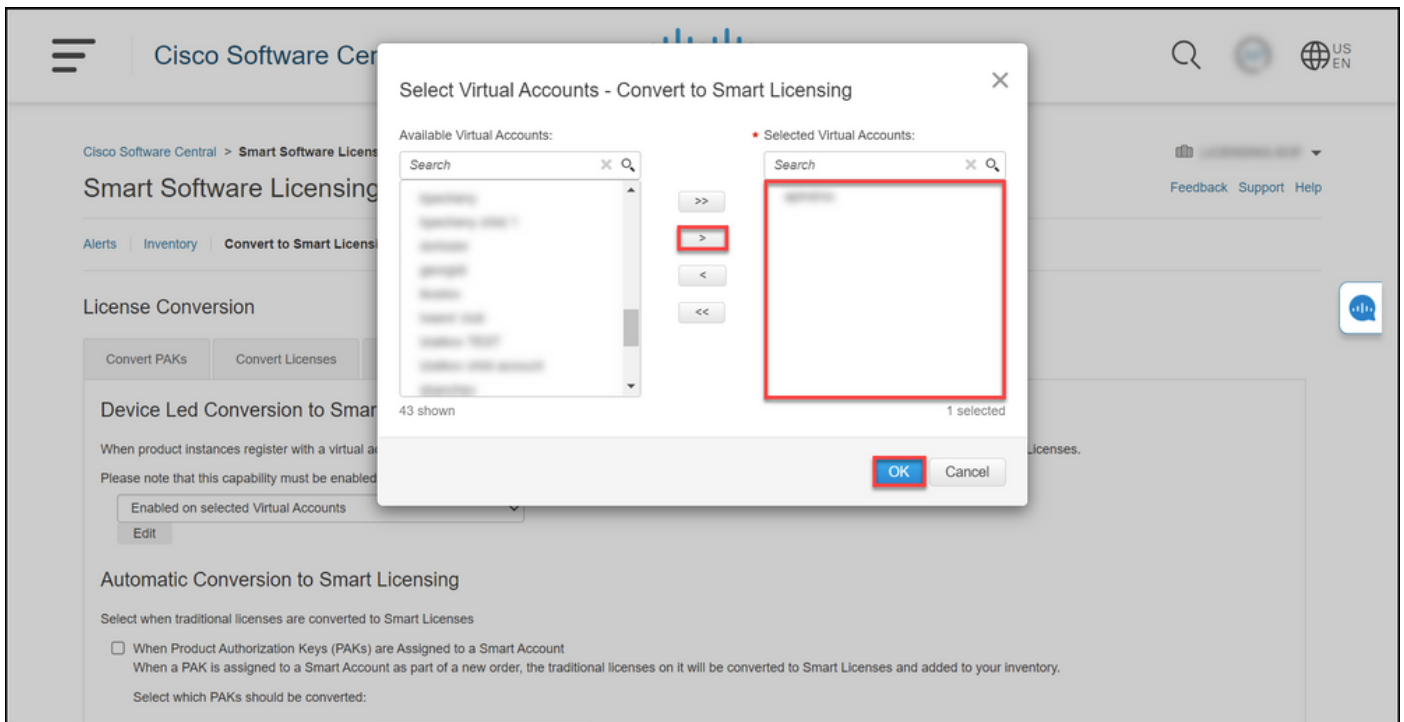


图1 — 为“在选定虚拟帐户上启用”选项选择虚拟帐户

(可选) 步骤4:

在CSSM中，单击**Preferences**，在“**Notifications**”部分中，确保选中**Receive a daily summary containing the events selected below**复选框。要在成功执行DLC后接收电子邮件通知，请从“**信息事件**”部分选择“**新许可证**”复选框。要在许可证未转换时接收电子邮件通知，请从“**警报事件**”部分选择“**许可证未转换**”复选框。单击**保存**。

Cisco Software Central

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](#)

Notifications

Daily Event Summary

Receive a daily email summary containing the events selected below

Email Address:

Alert Events:

- Insufficient Licenses - Usage in account exceeds available licenses
- Licenses Expiring - Warning that term-limited licenses will be expiring. Sent 90, 60, 30, 14, 7, 3 and 1 day prior to expiration.
- Licenses Expired - Term-limited licenses have expired. Only displayed if Licenses Expiring warning have not been dismissed.
- Product Instance Failed to Connect - Product has not successfully connected during its renewal period
- Product Instance Failed to Renew - Product did not successfully connect within its maximum allowed renewal period.
- On-Prem Synchronization Overdue - On-Prem has not synchronized within the expected time period.
- On-Prem Unregistered and Removed - On-Prem failed to synchronize in 90 days and has been removed.
- Licenses Not Converted - One or more traditional licenses were not automatically converted to Smart during Product Instance Registration.

Informational Events:

- New Licenses - An order has been processed and new licenses have been added to the account
- New Product Instance - A new product instance has successfully registered with the account
- Licenses Reserved - A product instance has reserved licenses in the account

Status Notification

Receive an email when a On-Prem synchronization file has finished processing by Smart Software Manager

Virtual Assistant

Ask if I need help when I am inactive

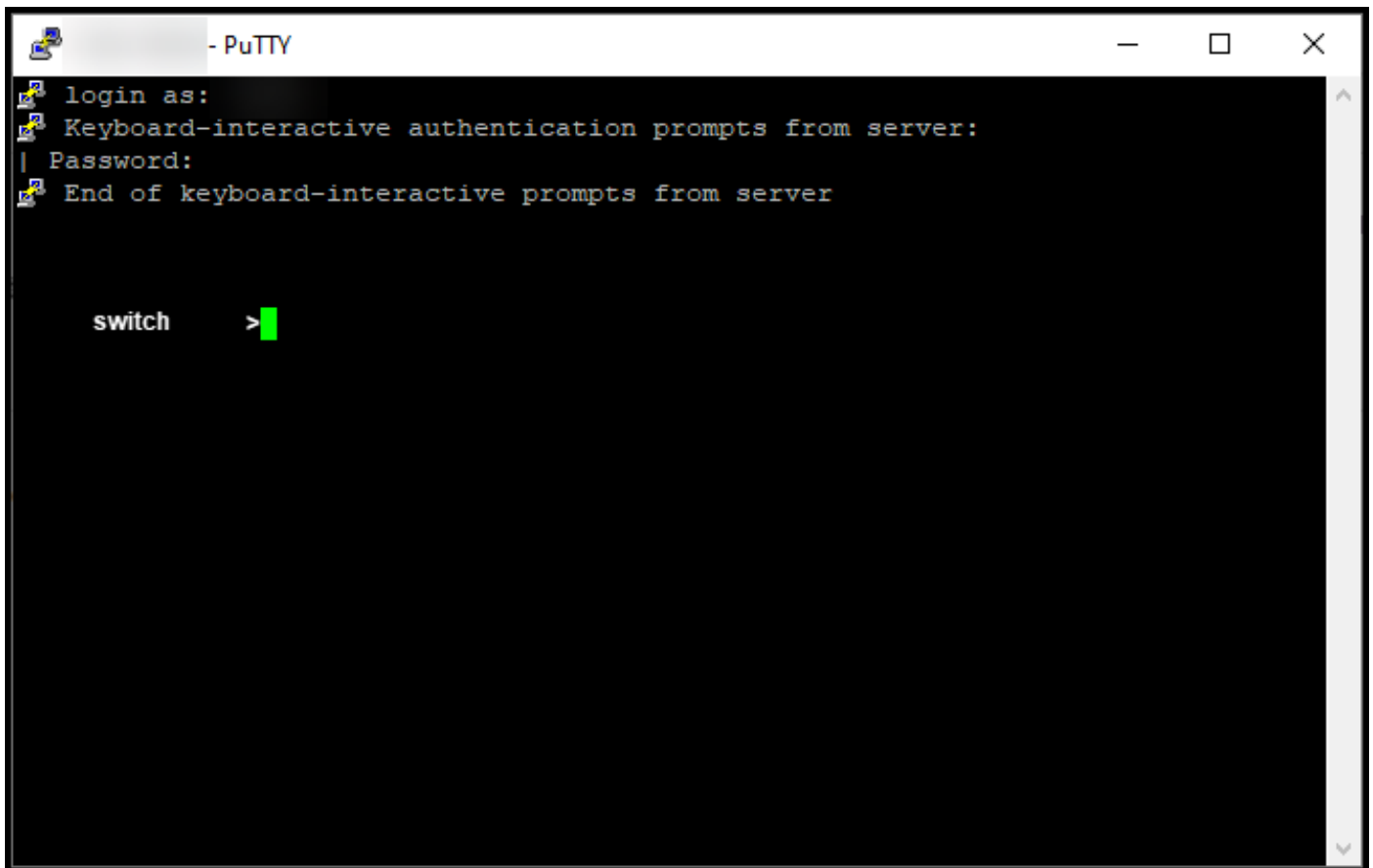
步骤 5 :

使用智能帐户注册设备。要向智能帐户注册设备，请参阅[如何向智能帐户注册设备（云连接）](#)。

步骤 6 :

使用客户端或控制台之一，使用登录名和密码登录设备的IOS。

步骤结果:进入IOS的用户EXEC模式。

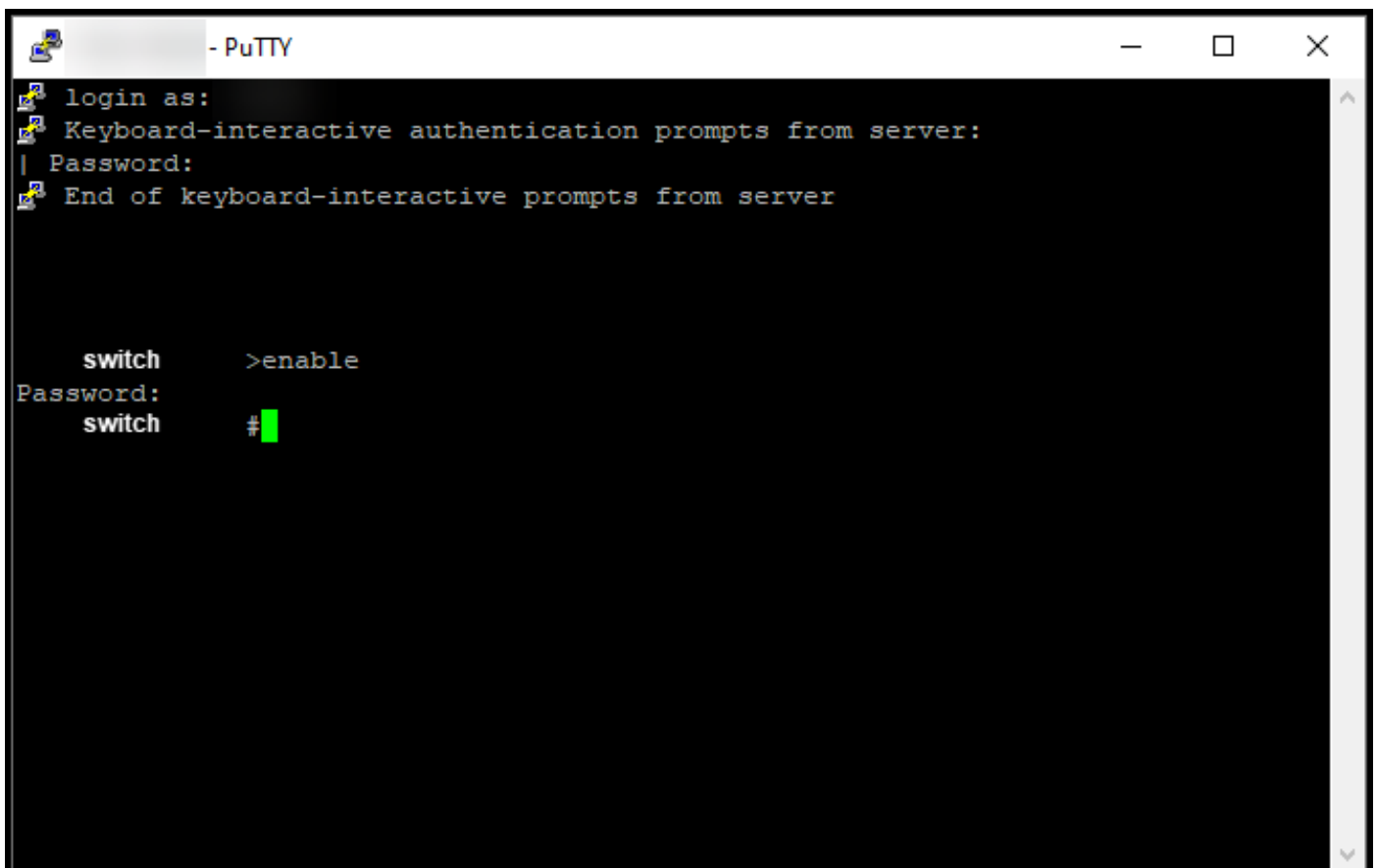


```
login as:  
Keyboard-interactive authentication prompts from server:  
| Password:  
End of keyboard-interactive prompts from server  
  
switch >
```

步骤 7 :

在命令行中键入**enable**命令，然后输入口令以访问特权EXEC模式。

步骤结果:进入特权执行模式。

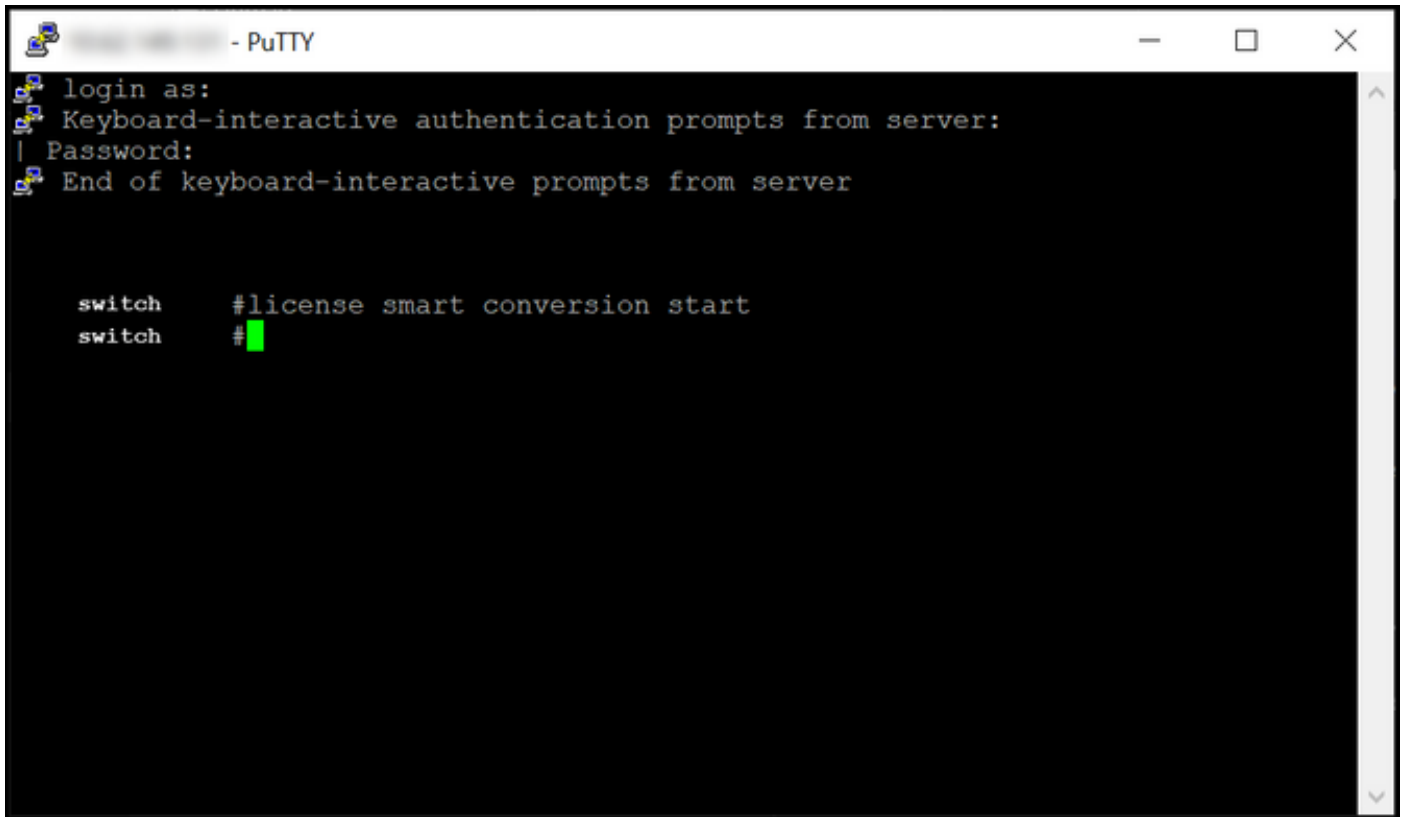


```
login as:  
Keyboard-interactive authentication prompts from server:  
| Password:  
End of keyboard-interactive prompts from server  
  
switch >enable  
Password:  
switch #
```

步骤 8:

在特权EXEC模式下，输入license smart conversion start命令启动DLC。

步骤结果:系统将许可证迁移到CSSM。



```
login as:
Keyboard-interactive authentication prompts from server:
| Password:
End of keyboard-interactive prompts from server

switch      #license smart conversion start
switch      #
```

验证

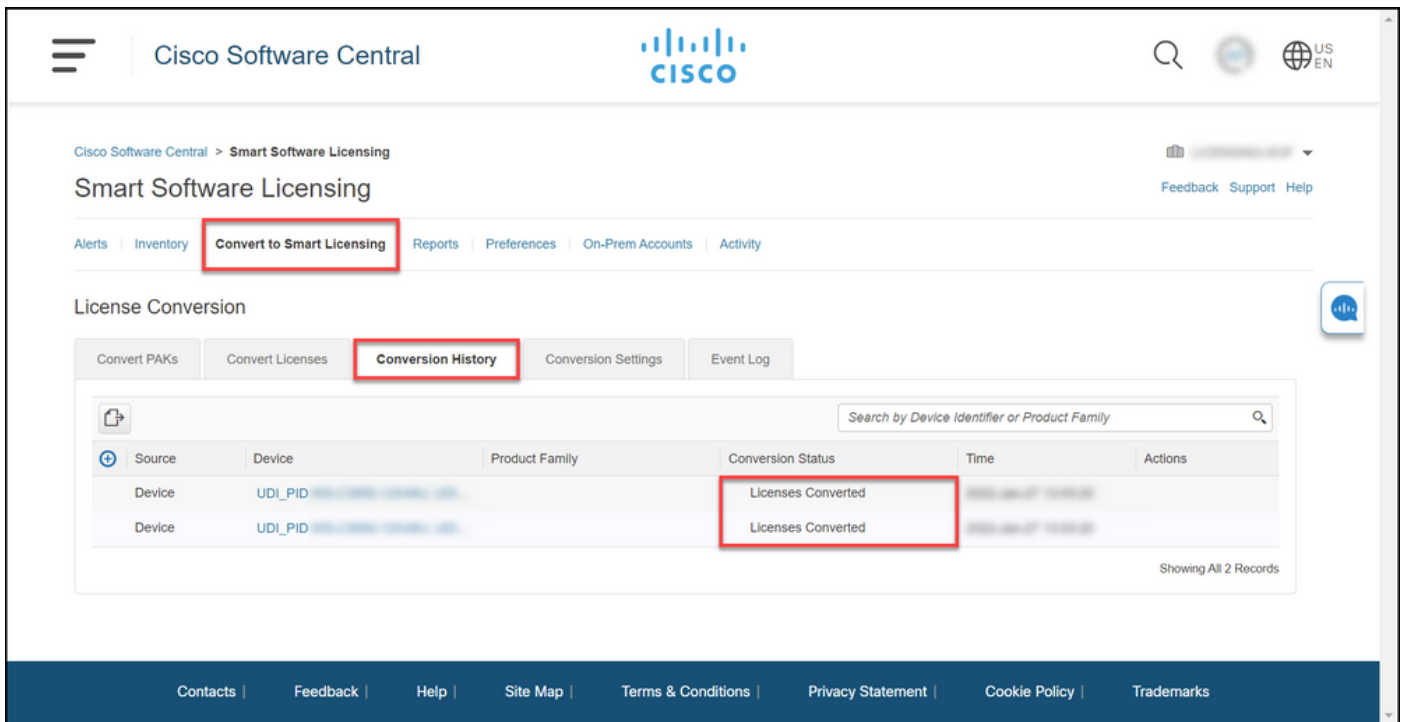
使用此部分确认您已将Catalyst 3850系列从RTU正确迁移到智能模式。

选项 1 :

验证步骤:在思科智能软件管理器(CSSM)中，单击转换为智能许可，然后单击转换历史。在“转换状态”列中检查设备的状态。

步骤结果:系统将“转换状态”(Conversion Status)显示为“已转换的许可证”(Licenses Converted)。

提示：如果转换历史记录较长，则可通过输入设备标识符或产品系列在搜索栏中搜索设备。



选项 2 :

验证步骤:在思科智能软件管理器(CSSM)中，单击清单，选择虚拟帐户，然后单击许可证。

步骤结果:系统会在表中显示已转换的许可证。

提示 :如果您有许可证的长列表，可以在搜索栏中搜索您的许可证。

Cisco Software Central

Smart Software Licensing

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

Virtual Account: [dropdown]

General **Licenses** Product Instances Event Log

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

License	Billing	Purchased	In Use	Substitution	Balance	Alerts	Actions
<input type="checkbox"/> C3850_48_Ipserv	Prepaid	2	2	-	0		Actions
<input type="checkbox"/> Source: DLC Device Conversion SN: [redacted]			1	Expires: -never-			
<input type="checkbox"/> Source: DLC Device Conversion SN: [redacted]			1	Expires: -never-			
<input checked="" type="checkbox"/> Cisco FMC 2K Series Strong Encryption (3DES/AES)	Prepaid	1	0	-	+1		Actions
<input checked="" type="checkbox"/> UC Manager Basic License	Prepaid	1	0	-	+1		Actions
<input checked="" type="checkbox"/> UC Manager Enhanced License	Prepaid	2	0	-	+2		Actions
<input checked="" type="checkbox"/> UC Manager Enhanced Plus License	Prepaid	1	0	-	+1		Actions
<input checked="" type="checkbox"/> UC Manager Essential License	Prepaid	1	0	-	+1		Actions
<input checked="" type="checkbox"/> UC Manager Telepresence Room License	Prepaid	1	0	-	+1		Actions

Showing All 7 Records

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选项 3 :

验证步骤:在设备的IOS中，进入特权EXEC模式，然后输入**show license status**命令。

步骤结果:系统将许可证转换的状态显示为**成功**。

```
switch #show license status
Smart Licensing is ENABLED

Utility:
  Status: DISABLED

Data Privacy:
  Sending Hostname: yes
  Callhome hostname privacy: DISABLED
  Smart Licensing hostname privacy: DISABLED
  Version privacy: DISABLED

Transport:
  Type: Callhome

Registration:
  Status: REGISTERED
  Smart Account:
  Virtual Account:
  Export-Controlled Functionality: ALLOWED
  Initial Registration: SUCCEEDED on
  Last Renewal Attempt: None
  Next Renewal Attempt:
  Registration Expires:

License Authorization:
  Status: AUTHORIZED on
  Last Communication Attempt: SUCCEEDED on
  Next Communication Attempt:
  Communication Deadline:

License Conversion:
  Automatic Conversion Enabled: False
  Active: PID:
  Status: Successful on
  Standby: PID:
  Status: Successful on

Export Authorization Key:
  Features Authorized:
  <none>

switch #
```

故障排除

如果在将Catalyst 3850系列从RTU迁移到智能模式的过程中遇到问题，请参阅工作助手。如果在排除故障后仍无法解决问题，请在支持案例管理器(SCM)[中打开一个案例](#)。