

如何將Catalyst 3850系列從RTU遷移到智慧模式

目錄

[簡介](#)

[必要條件](#)

[需求](#)

[採用元件](#)

[將Catalyst 3850系列從RTU遷移到智慧模式](#)

[驗證](#)

[選項1:](#)

[選項2:](#)

[選項3:](#)

[疑難排解](#)

簡介

本文描述通過裝置指示燈轉換(DLC)將Catalyst 3850系列從傳統使用權(RTU)許可證遷移到智慧模式的過程。DLC是一種功能，當新裝置（產品例項）在Cisco Smart Software Manager(CSSM)中註冊時，您可以將其升級為智慧許可證。裝置上的所有許可證將自動從經典或永久RTU轉換為智慧許可證，無需您執行任何手動轉換。DLC僅在最新版本的軟體中提供，用於支援DLC的裝置。要確定支援DLC的裝置，請參閱[Smartsheet](#)。

注意：您只能對每個裝置執行一次DLC。此過程僅支援將傳統許可證轉換為智慧許可證。轉換智慧許可證後，您將無法將其轉換回經典許可證 — 除非在CSSM中註銷裝置並刪除所有智慧許可證。

必要條件

需求

開始之前，請確保您擁有以下資料：

- [活動的Cisco.com帳戶](#)
- 智慧帳戶管理員使用者角色(要請求智慧帳戶管理員角色，請參閱[如何請求訪問現有智慧帳戶](#)。)
- 訪問裝置

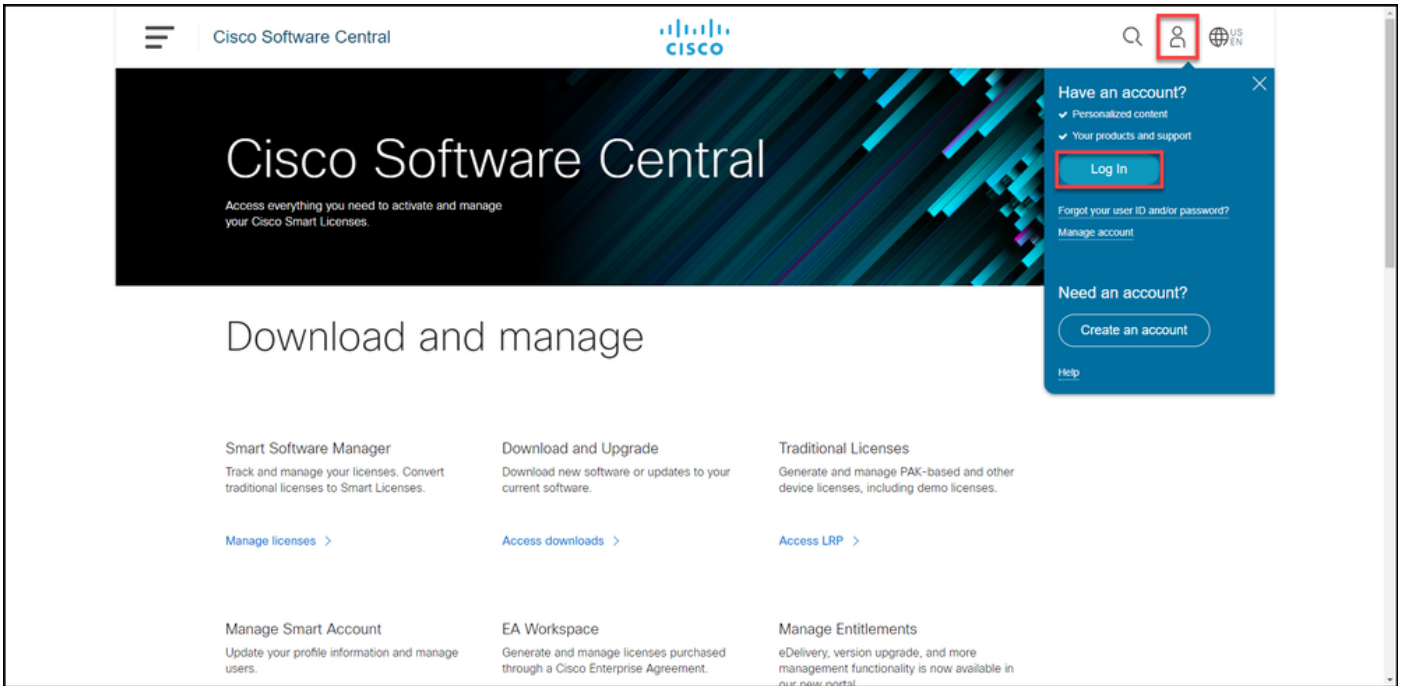
採用元件

本文中的資訊是根據特定實驗室環境使用IOS版本16.12.05b的Catalyst 3850建立的。如果您的網路運作中，請確保您瞭解任何指令可能造成的影響。

將Catalyst 3850系列從RTU遷移到智慧模式

步驟1:

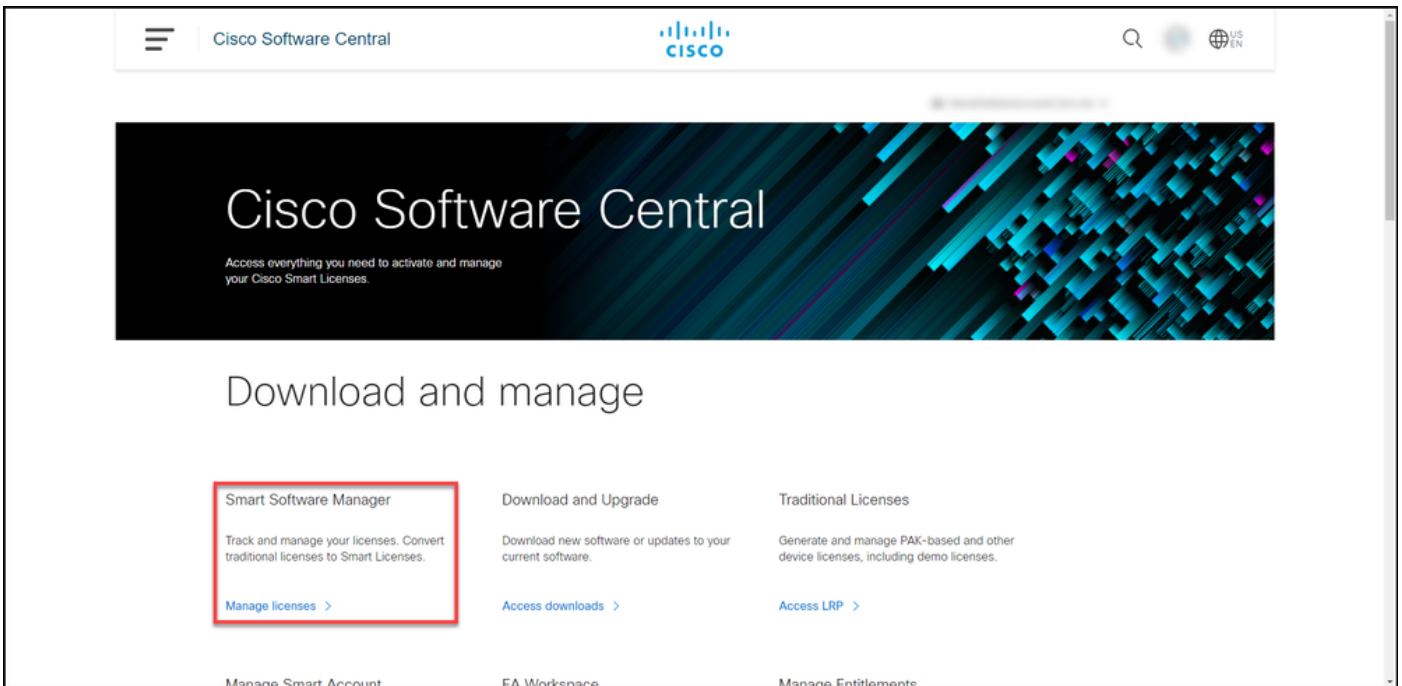
轉到 [Cisco Software Central](#) 並使用您的Cisco.com帳戶登入。



步驟2:

在Smart Software Manager部分，按一下Manage licenses。

步驟結果:您輸入思科智慧軟體管理員(CSSM)。



步驟3:

在 **轉換為智慧許可** 頁籤，選擇**Conversion Settings**，然後在**Device Led Conversion to Smart Licensing**部分，通過選擇以下選項之一啟用DLC:

a.在所有虛擬帳戶上啟用

按一下「**Save**」。

在**Select Virtual Accounts - Convert to Smart Lic**對話方塊中，從**Available Virtual Accounts**清單框選擇要為其啟用DLC的虛擬帳戶，然後按一下箭頭將的虛擬帳戶轉移到**Selected Virtual Accounts**清單框，按一下「OK」（確定）。然後按一下**Conversion Settings**頁籤上的**Save**。請參閱圖1。

b.對選定的虛擬帳戶啟用

附註：要從**Selected Virtual Accounts**清單框除虛擬帳戶，請選擇要刪除的虛擬帳戶，然後按一下箭頭將其轉移到**Available Virtual Accounts**清單框。

附註：在開始轉換之前，需要啟用許可證轉換。啟用許可證轉換失敗將導致CSSM顯示許可證不足錯誤。

The screenshot shows 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" (highlighted with a red box), "Reports", "Preferences", "On-Prem Accounts", and "Activity". Below this is the "License Conversion" section with tabs for "Convert PAKs", "Convert Licenses", "Conversion History", "Conversion Settings" (highlighted with a red box), and "Event Log". The "Device Led Conversion to Smart Licensing" section contains the following text: "When product instances register with a virtual account to use Smart Licensing, any traditional or Right to Use (RTU) licenses on them will be converted to Smart Licenses. Please note that this capability must be enabled on the product instances prior to registration." A dropdown menu is open, showing options: "Enabled on All Virtual Accounts" (selected), "Enabled on selected Virtual Accounts" (highlighted with a red box), and "Disabled". Below the dropdown, there is a checkbox for "When Product Authorization Keys (PAKs) are Assigned to a Smart Account" with the subtext "When a PAK is assigned to a Smart Account as part of a new order, the traditional licenses on it will be converted to Smart Licenses and added to your inventory." At the bottom, there is a section "Select which PAKs should be converted:" with a "Virtual Accounts:" label and a "PAKs In All Virtual Accounts" dropdown menu.

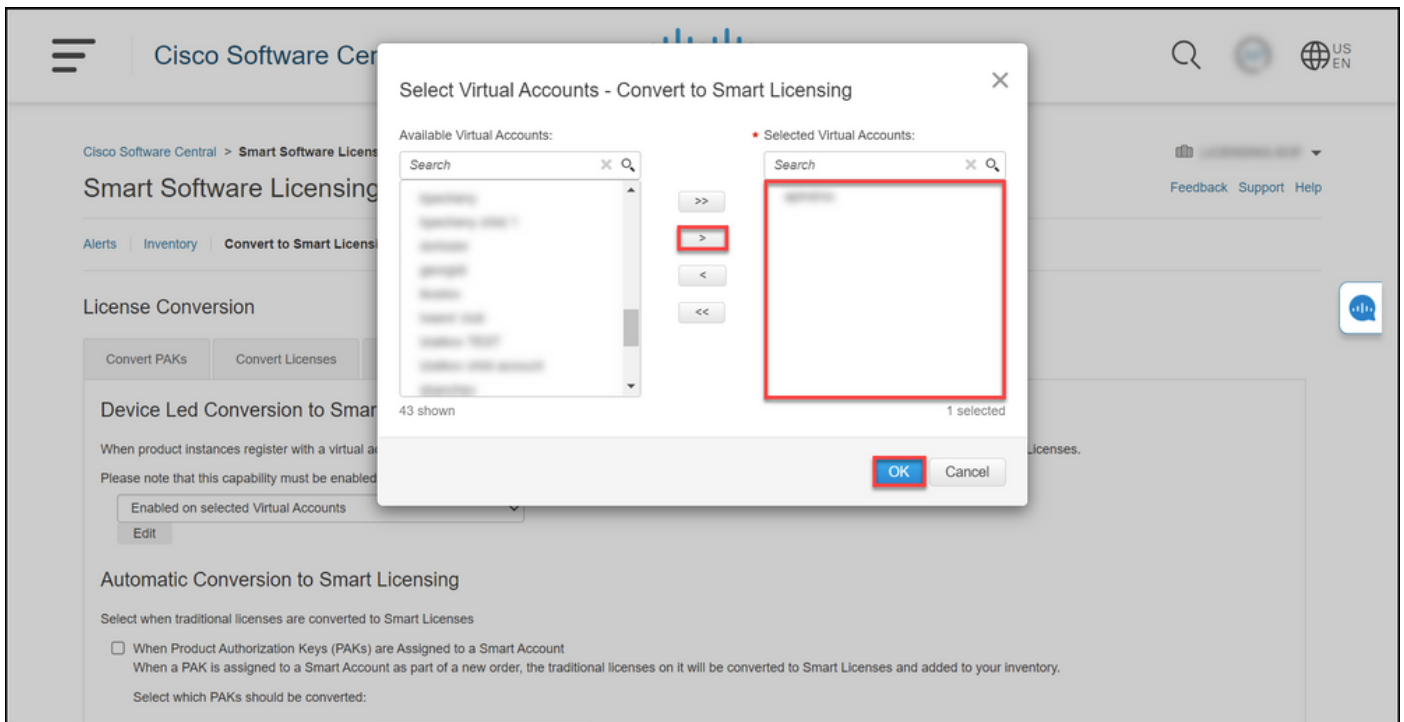


圖1 — 為「Enabled on selected Virtual Accounts (在選定的虛擬帳戶上啟用)」選項選擇虛擬帳戶

(可選) 步驟4:

在CSSM中，按一下**Preferences**，然後在**Notifications**部分中，確保選中**Receive a daily summary contains the events selected below**覈取方塊。要在DLC成功後接收電子郵件通知，請從**資訊事件**部分選中**New Licenses**覈取方塊。要在不轉換許可證的情況下接收電子郵件通知，請從「警報事件」部分選中「未轉換許可證」復選框。按一下**儲存**。

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

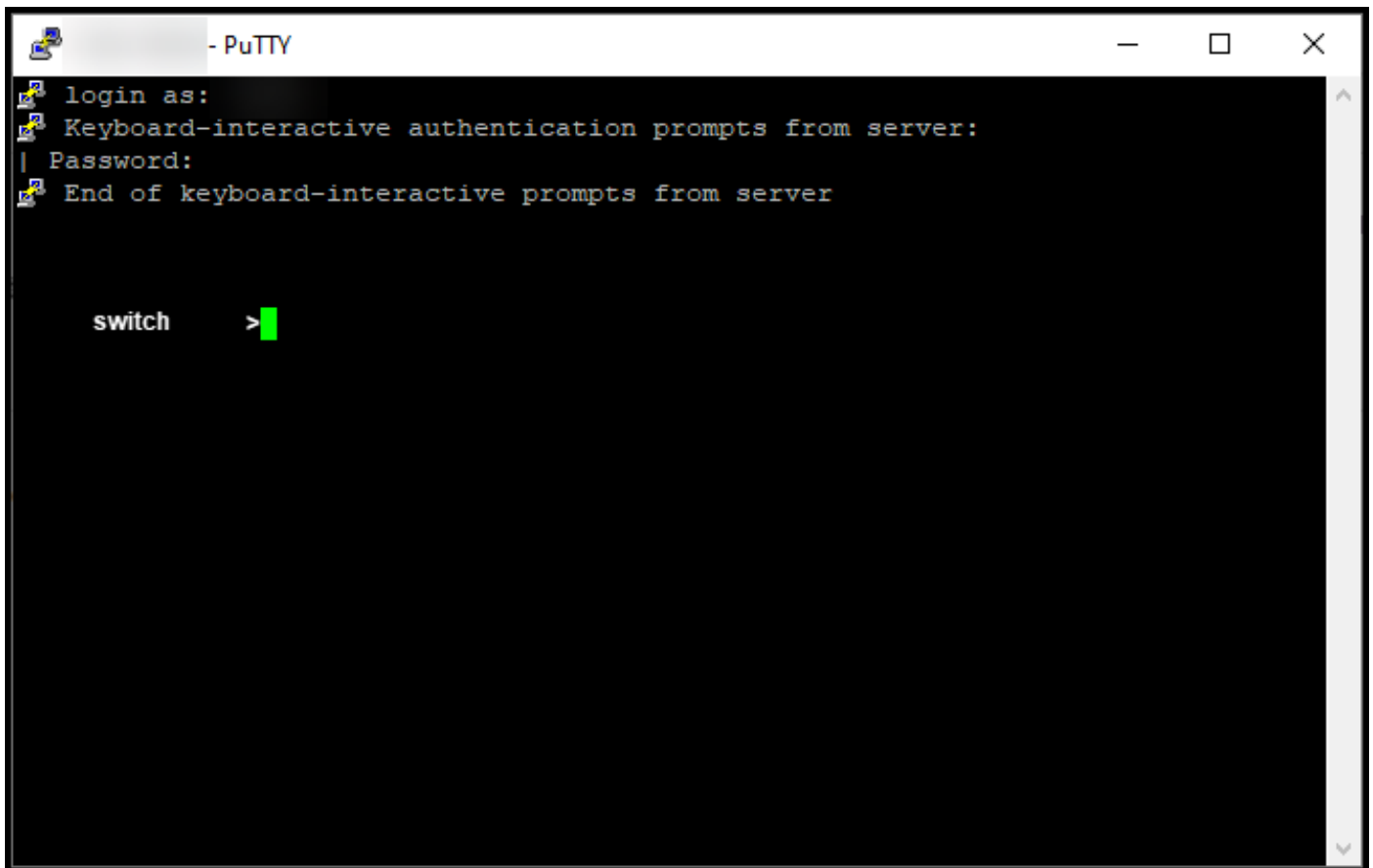
步驟5:

使用智慧帳戶註冊裝置。要在智慧帳戶中註冊裝置，請參閱[如何使用智慧帳戶註冊裝置\(Cloud Connect\)](#)。

步驟6:

使用客戶端或控制檯之一使用登入名和密碼登入裝置的IOS。

步驟結果:進入IOS的使用者執行模式。

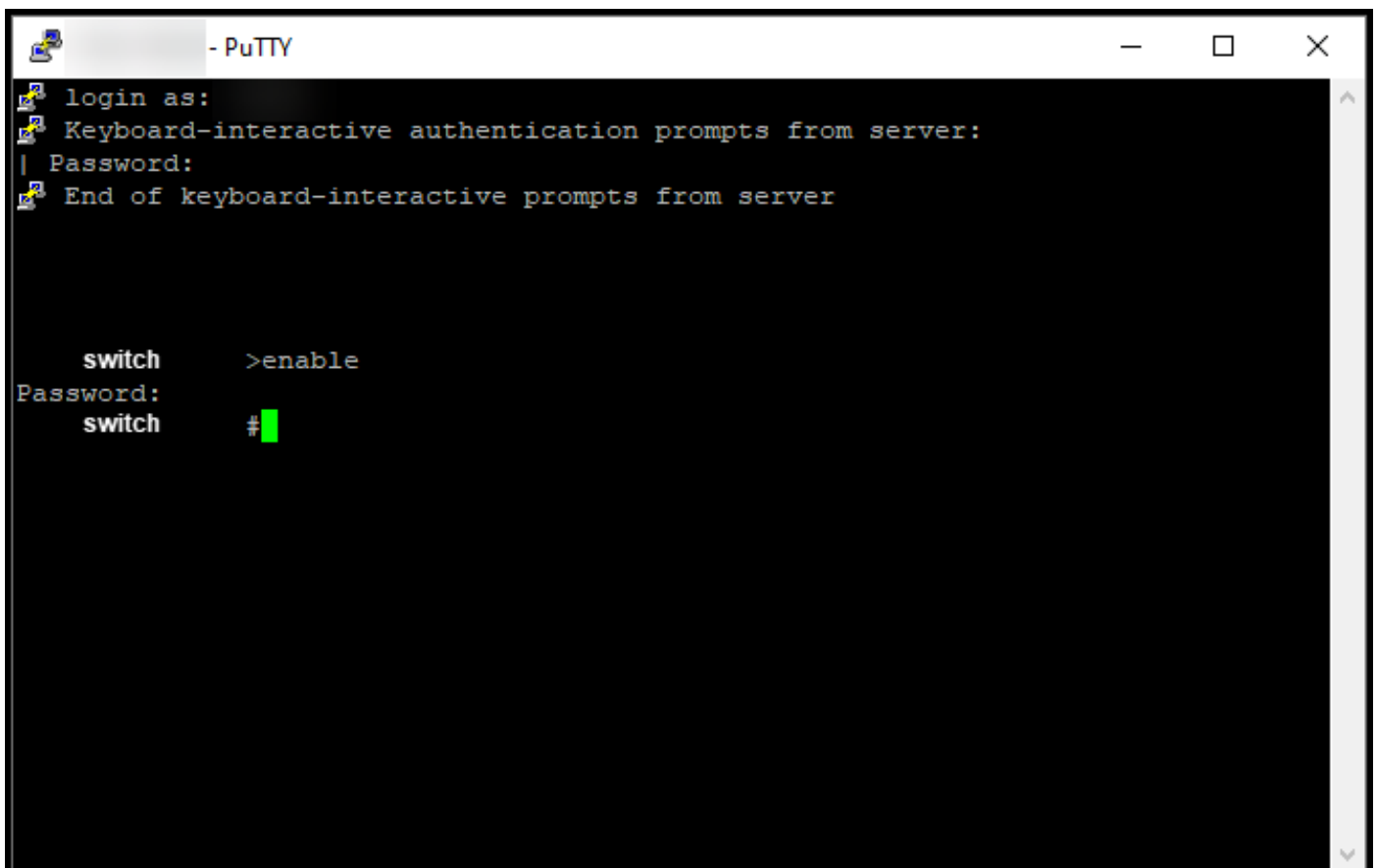


```
login as:  
Keyboard-interactive authentication prompts from server:  
| Password:  
End of keyboard-interactive prompts from server  
  
switch >
```

第7步:

在命令列中鍵入**enable**命令，然後輸入口令以訪問特權執行模式。

步驟結果:進入特權執行模式。

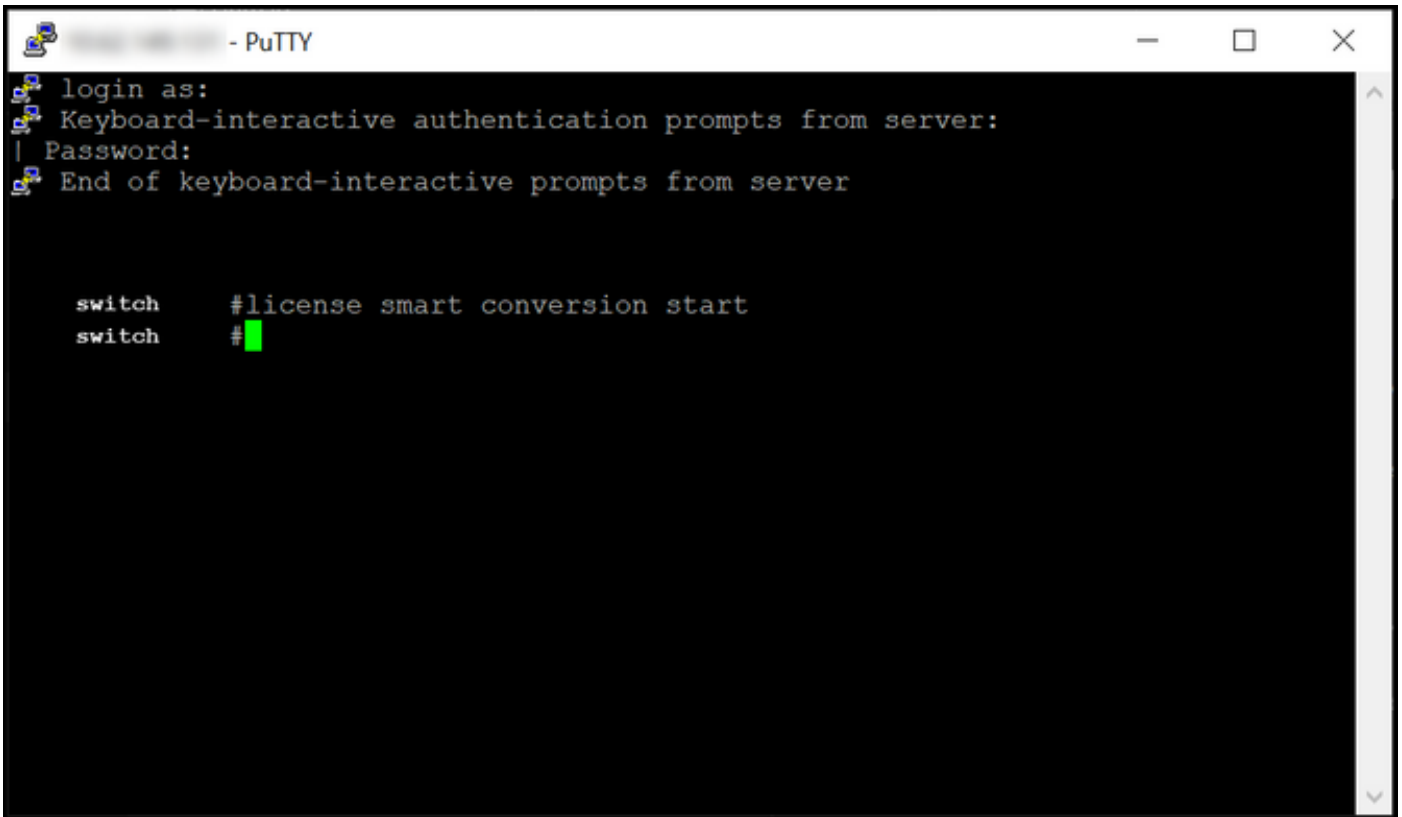


```
login as:  
Keyboard-interactive authentication prompts from server:  
| Password:  
End of keyboard-interactive prompts from server  
  
switch >enable  
Password:  
switch #
```

步驟8:

在特權EXEC模式下，通過輸入license smart conversion start命令啟動DLC。

步驟結果:系統將許可證遷移到CSSM。



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

switch      #license smart conversion start
switch      #
```

驗證

使用本節內容，確認您已正確將Catalyst 3850系列從RTU遷移至智慧模式。

選項1:

驗證步驟:在思科智慧軟體管理員(CSSM)中，按一下「Convert to Smart Licensing」，然後按一下「Conversion History」。在Conversion Status列中檢查裝置的狀態。

步驟結果:系統將Conversion Status的狀態顯示為*Licenses Converted*。

提示：如果您有較長的轉換歷史記錄，您可以在搜尋欄中輸入裝置識別符號或產品系列來搜尋您的裝置。

The screenshot shows the Cisco Software Central interface. At the top, there is a navigation bar with the Cisco logo and the text "Cisco Software Central". Below this, the page title is "Smart Software Licensing". A navigation menu includes "Alerts", "Inventory", "Convert to Smart Licensing" (highlighted with a red box), "Reports", "Preferences", "On-Prem Accounts", and "Activity".

The main content area is titled "License Conversion" and contains several tabs: "Convert PAKs", "Convert Licenses", "Conversion History" (highlighted with a red box), "Conversion Settings", and "Event Log". Below the tabs is a search bar with the placeholder text "Search by Device Identifier or Product Family".

The "Conversion History" tab displays a table with the following columns: "Source", "Device", "Product Family", "Conversion Status", "Time", and "Actions". The table contains two rows, both with "Device" as the source and "UDI_PID" as the device identifier. The "Conversion Status" for both rows is "Licenses Converted" (highlighted with a red box). The "Time" column shows two timestamps: "2023-07-27 10:00:00" and "2023-07-27 10:00:00".

At the bottom of the page, there is a footer with links for "Contacts", "Feedback", "Help", "Site Map", "Terms & Conditions", "Privacy Statement", "Cookie Policy", and "Trademarks".

選項2:

驗證步驟:在思科智慧軟體管理員(CSSM)中，按一下Inventory，選擇您的虛擬帳戶，然後按一下Licenses。

步驟結果:系統在表中顯示轉換的許可證。

提示：如果您有很長的許可證清單，可以在搜尋欄中搜尋您的許可證。

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] Sku: NA Family: EDISON			1	Expires: -never-			
<input type="checkbox"/> Source: DLC Device Conversion SN: [redacted] Sku: NA Family: EDISON			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

Contacts | Feedback | Help | Site Map | Terms & Conditions | Privacy Statement | Cookie Policy | Trademarks

選項3:

驗證步驟:在裝置的IOS中，輸入特權執行模式，然後輸入**show license status**命令。

步驟結果:系統將License Conversion的狀態顯示為**Successful**。

```
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 #
```

疑難排解

如果您在將Catalyst 3850系列從RTU遷移到智慧模式的過程中遇到問題，請參閱工作助手。如果在疑難排解後仍無法解決問題，請在支援案件管理員(SCM)中開啟案件。