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<u>Smartsheet</u>。

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:

- <u>有效Cisco.com帐户</u>
- 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 <u>思科软件中心</u>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)。

Cis	sco Software Central	altalta cisco		
а ус	Cisco Softv ccess everything you need to activate and man pur Cisco Smart Licenses.	ware Central		
[Download and	I manage		
S Tr tr	mart Software Manager rack and manage your licenses. Convert aditional licenses to Smart Licenses.	Download and Upgrade Download new software or updates to your current software.	Traditional Licenses Generate and manage PAK-based and other device licenses, including demo licenses.	
N	Iapage Smart Account	EA Workspace	Manage Entitlements	

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

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的虚拟帧 ,然后单击箭头将所选虚拟帐户转移到选定虚拟帧 表框中。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 ,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。

Cisco Software Central	cisco				
Cisco Software Central > Smart Software Licensing		ŵ			
Smart Software Licensing		Feedback Support Help			
Alerts Inventory Convert to Smart Licensing Reports Preferen	ces On-Prem Accounts Activity				
License Conversion					
Convert PAKs Convert Licenses Conversion History	Conversion Settings Event Log	_			
Device Led Conversion to Smart Licensing					
When product instances register with a virtual account to use Smart Licensing	g, 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 price	or to registration.				
Enabled on All Virtual Accounts					
Enabled on All Virtual Accounts Enabled on selected Virtual Accounts					
Disabled					
Select when traditional licenses are converted to Smart Licenses					
When Product Authorization Keys (PAKs) are Assigned to a Smart Account 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.					
Select which PAKs should be converted:					
Virtual Accounts: PAKs in All Virtual Accounts	s 🗸				

Cisco Software Cer	als als	
	Select Virtual Accounts - Convert to Smart Licensing	
Cisco Software Central > Smart Software Licens Smart Software Licensing	Available Virtual Accounts: Search X Q Search X Q	Feedback Support Help
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License Conversion	<	
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When product instances register with a virtual at Please note that this capability must be enabled	-icenses	
Enabled on selected Virtual Accounts		
Edit Automatic Conversion to Smart L Select when traditional licenses are converted to 3 When Product Authorization Keys (PAKs) are When a PAK is assigned to a Smart Account Select which PAKs should be converted:	Censing mart Licenses 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.	

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	
Cisco Software Central > Smart Software Licensing	Eastback Support Help
Smart Software Licensing	Peeuback Support Help
Alerts Inventory Convert to Smart Licensing Reports Preferences On-Prem Accounts Activity	
License Configuration	
Show License Transaction Details in Enabled View Change Log Inventory Tab:	
Reserved License Preinstallation: Enabled on All Virtual Accounts 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	
Ask if i need neip when i am inactive	
Save Reset	
Contacts Feedback Help Site Map Terms & Conditions Privacy Statement Cookie Policy	Trademarks

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<u>如何向智能帐户注册设备(云连接)</u>。

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。



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。

2	- PuTTY	_	×
물 login 로 Keyboa Passwor 로 End of	as: rd-interactive authentication prompts from server: d: keyboard-interactive prompts from server		^
switch Password: switch	>enable #		
			>

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。



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。

Cisco Software Central	cisco		
Cisco Software Central > Smart Software Licensing Smart Software Licensing			Feedback Support Help
Alerts Inventory Convert to Smart Licensing Reports Prefere	nces On-Prem Accounts Activity		
License Conversion			
Convert PAKs Convert Licenses Conversion History	Conversion Settings Event Log		
₽		Search by Device Identifier or Product F	amily O
Source Device Product	ct Family Conversion Status	Time	Actions
Device UDI_PID	Licenses Conv	erted	
Device UDI_PID	Licenses Conv	erted	
			Showing All 2 Records
Contacts Feedback Help Site	Map Terms & Conditions Priva	acy Statement Cookie Policy	Trademarks

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。

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Alerts	Inventory Convert to Smart Licensing	Reports Preferences	On-Prem Accounts Activ	vity		Minor Hide Alerts	
A	Available Actions Manage L	icense Tags	Reservation	Show License Tr	ansactions Search by Licen:	By Name By Tag	
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0	Source: DLC Device Conversion SN:	Sku: NA Family: EDISON	1	Expires: -never-			ſ
€	Cisco FMC 2K Series Strong Encryption (3DES/AES)	Prepaid	1 0		+1	Actions 👻	
⊕	UC Manager Basic License	Prepaid	1 0		+ 1	Actions 👻	
Ð	UC Manager Enhanced License	Prepaid	2 0		+ 2	Actions 👻	
⊕	UC Manager Enhanced Plus License	Prepaid	1 0	-	+ 1	Actions 👻	
Ð	UC Manager Essential License	Prepaid	1 0		+ 1	Actions 👻	
€	UC Manager Telepresence Room License	Prepaid	1 0	•	+ 1	Actions - Showing All 7 Records	
	Contacts Feedback	Help Site Map	Terms & Conditio	ns Privacy Statemen	t Cookie Policy 	Trademarks	

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*。

PuTTY - PuTTY	-	×
<pre>switch #show license status Smart Licensing is ENABLED</pre>		^
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></none>		
switch #		\sim

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)<u>中打开一个案例</u>。