Configuring Cisco License Call Home

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The Cisco License Call Home feature provides a robust set of commands that communicate with the Cisco licensing infrastructure, makes connections and data transfers, and provides interactive prompts to help you install and maintain software licenses. This module describes the tasks and the commands used to activate software by using the Cisco License Call Home feature, license keys, and Cisco EXEC commands. When you activate software from a Cisco device, you can license software without the need for additional application software.

Finding Feature Information

Your software release may not support all the features documented in this module. For the latest feature information and caveats, see the release notes for your platform and software release. To find information about the features documented in this module, and to see a list of the releases in which each feature is supported, see the Feature Information Table at the end of this document.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to www.cisco.com/go/cfn. An account on Cisco.com is not required.

Prerequisites for Cisco License Call Home

- You must obtain the device certificate from the Cisco licensing infrastructure before starting.
- You must have a CCO user login account.

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Restrictions for Cisco License Call Home

- The device must have an Internet connection and use HTTPS to connect to the Cisco licensing infrastructure. To set up a secure HTTP connection, see the HTTP 1.1 Web Server and Client chapter in the *Cisco IOS Network Management Configuration Guide*.
- Only certain platforms support the Cisco License Call Home feature, and these devices must be running a Cisco IOS crypto K9 image. For information about platform support, see the "Feature Information for Cisco License Call Home" section.

Information About Cisco License Call Home

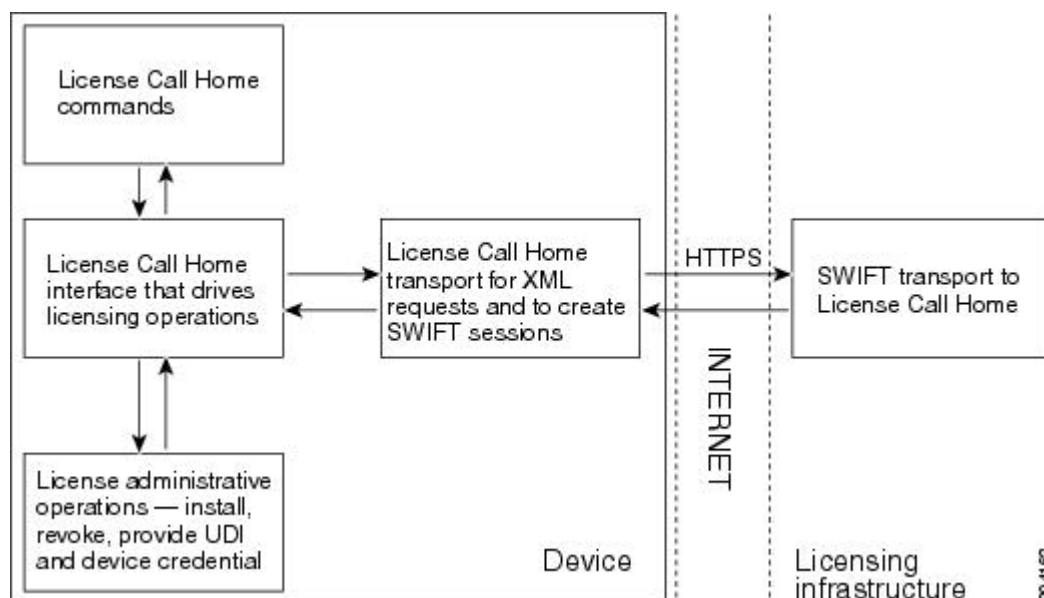- Cisco License Call Home Interface, page 2

Cisco License Call Home Interface

The Cisco License Call Home feature allows a Cisco device to communicate with the Cisco licensing infrastructure that provides license generation, fulfillment, and support. The Cisco License Call Home feature uses a secured Internet connection to retrieve licensing information. This feature provides a robust set of commands that makes connections, transfers data, and provides interactive prompts to help you install and maintain software licenses. Once you purchase a product authorization key (PAK), Cisco License Call Home commands enable you to easily perform these tasks:

- Install or upgrade a license.
- Transfer a license.
- Request that a license be resent.

The figure below shows how the Cisco License Call Home feature interfaces to the Cisco licensing backend system. The architecture shown in the figure below allows the use of the License Call Home EXEC commands to communicate with the Cisco licensing infrastructure and to perform administrative license operations.

Figure 1   Cisco License Call Home Interface

The Cisco License Call Home feature works as a client-server model with each transaction completed as a separate connection to the Cisco licensing infrastructure. The Cisco License Call Home feature displays prompts to obtain required information and then connects to the Cisco licensing back end to interact with the Cisco licensing infrastructure. A Cisco License Call Home EXEC command initiates a request, and the Cisco licensing infrastructure provides the response. The processes designed into the Cisco License Call Home architecture manage the transport of information that provides the URL required to connect to the Cisco licensing infrastructure over the Internet and to create a session.

How to Configure Cisco License Call Home

Installing Licenses or Upgrading Software by Using Cisco License Call Home

SUMMARY STEPS

1. Obtain the PAK.
2. **enable**
3. **show license call-home pak** *pak-id*
4. **license call-home install pak** *pak-id*
5. **show license feature**

DETAILED STEPS

	Command or Action	Purpose
Step 1	Obtain the PAK.	The PAK is provided to you when you order or purchase the right to use a feature set for a particular platform. The PAK serves as a receipt and is used as part of the process to obtain a license.
Step 2	**enable** **Example:** `Device> enable`	Enables privileged EXEC mode. • Enter your password if prompted.
Step 3	**show license call-home pak** *pak-id* **Example:** `Device# show license call-home pak 3XPXR9E7D30`	Displays the stock keeping unit (SKU) list and features available for the PAK provided.

	Command or Action	Purpose
Step 4	**license call-home install pak** *pak-id*	Installs a license by using the Cisco License Call Home feature.
		• Respond to the prompts in the command display.
	Example:	
	`Device# license call-home install pak` `3XPXR9E7D30`	
Step 5	**show license feature**	Displays the list of licensed features.
	Example:	
	`Device# show license feature`	

Rehosting a License by Using Cisco License Call Home

SUMMARY STEPS

1. **enable**
2. **license call-home revoke udi** *target-udi output-of-rehosted-license-url*
3. **show license detail**
4. **license install** *stored-location-url*

DETAILED STEPS

	Command or Action	Purpose
Step 1	**enable**	Enables privileged EXEC mode.
		• Enter your password if prompted.
	Example:	
	`Device> enable`	
Step 2	**license call-home revoke udi** *target-udi output-of-* *rehosted-license-url*	Revokes and transfers a license by using source and target UDIs. Sends the rehost ticket to the Cisco licensing infrastructure with the target unique device identifier (UDI), converts it to a license file, and stores it in the URL specified.
	Example:	• Select from multiple SKUs for rehosting when you are prompted, and supply information when required.
	`Device# license call-home revoke udi AS54XM-` `AC-RPS:JAE0948QT6R flash:licensetargetudi.xml`	
Step 3	**show license detail**	Verifies that the license has been transferred.
	Example:	
	`Device# show license detail`	

Command or Action	Purpose
Step 4 **license install** *stored-location-url*	(Optional) Installs the revoked license. • For details about installing and upgrading licenses, see the "Configuring the Cisco IOS Software Activation Feature" module.

Requesting a License Resend by Using Cisco License Call Home

SUMMARY STEPS

1. **enable**
2. **license call-home resend** *dest-lic-location*
3. **license install** *stored-location-url*

DETAILED STEPS

	Command or Action	Purpose
Step 1	**enable** **Example:** `Device> enable`	Enables privileged EXEC mode. • Enter your password if prompted.
Step 2	**license call-home resend** *dest-lic-location* **Example:** `Device# license call-home resend flash:licenseresend.lic`	Obtains all licenses this device owns and stores them in the specified location.
Step 3	**license install** *stored-location-url*	(Optional) Installs the revoked license. • For details about installing and upgrading licenses, see the "Configuring the Cisco IOS Software Activation Feature" module.

Configuration Examples for Cisco License Call Home

Example: Installing Licenses or Upgrading Software by Using Cisco License Call Home

The following example shows how to use the **license license call-home install pak** command to install a license by using the Cisco License Call Home feature. The command also displays prompts for mandatory information. The **show license feature** command is used to verify the installation.

```
Device# license call-home install pak 3XPXR9E7D30
CCO User name: User1
CCO password : ************
Pak Number        : 3XPXR9E7D30
Pak Fulfillment type: SINGLE
    1. SKU Name           : Gatekeeper
       SKU Type           : Product
       Description        : Gatekeeper
       Ordered Qty        : 1
       Available Qty      : 1
       Feature List       :
            Feature name:        gatekeeper Count: Uncounted
       Platform Supported : N/A
                            5400
                            5350
                            2800
                            3800
Do you want to install the above listed SKU(s)? [yes/no]: yes
Please enter the user's detail:
First Name : First-name
Last Name : Last-name
Title : Software Engineer
Company Name : Cisco Systems
Address1 : 510 McCarthy Blvd.
Address2  [Optional]:
City : Milpitas
State : CA
Province  [Optional]:
Zipcode : 95134
Country : USA
Phone : 408 526-4000
Fax  [Optional]:
Email : User1@cisco.com
Installing...Feature:gatekeeper...Successful

Device# show license feature
Feature name              Enforcement  Evaluation  Subscription   Enabled
gsmamrnb-codec-pack       yes          yes         no             no
Device#
```

Example: Rehosting a License by Using Cisco License Call Home

The following example shows how to use the **license call-home revoke udi** command to revoke and transfer a license by using source and target UDIs. The command also displays prompts for mandatory information. The **show license detail** command is used to verify that the license has been transferred.

```
Device# license call-home revoke udi AS54XM-AC-RPS:JAE0948QT6R flash:licensetargetudi.xml
CCO User name: User1
CCO password : ************
Retrieving the sku from swift ...........................
    1. SKU Name           : Gatekeeper
       SKU Type           : Product
       Description        :
       Ordered Qty        : 1
       Available Qty      : 1
       Feature List       :
            Feature name:        gatekeeper Count: Uncounted
       Platform Supported : N/A
```

```
                                    5400
                                    5350
                                    2800
                                    3800
        3. SKU Name           : Gatekeeper
           SKU Type           : Product
           Description        :
           Ordered Qty        : 1
           Available Qty      : 1
           Feature List       :
                Feature name:       gatekeeper Count: Uncounted
           Platform Supported : N/A
                                    5400
                                    5350
                                    2800
                                    3800
        4. SKU Name           : GSMAMRNB
           SKU Type           : Product
           Description        : Transfer this feature set
           Ordered Qty        : 1
           Available Qty      : 1
           Feature List       :
                Feature name: gsmamrnb-codec-pac Count: Uncounted
           Platform Supported : 5400
                                    5350
        5. All of the above
        Please select the sku number you want to revoke : 4
        Retrieving the permission ticket from swift .............
        Installing permission ticket and retrieving rehost ticket........Done


        Device# show license detail
        Index: 1     Feature: gsmamrnb-codec-pack   Version: 1.0
            License Type: Evaluation
            License State: Active, Not in Use, EULA accepted
                Evaluation total period: 8   weeks 4   days
                Evaluation period left: 8   weeks 4   days
            Lock type: Non Node locked
            Vendor info
            License Addition: Additive
            License Generation version 135266304
            License Priority: Low
            Store Index: 0
            Store Name: Evaluation License Storage
```

Example: Requesting a License Resend by Using Cisco License Call Home

The following examples shows how to use the **license call-home resend** command to obtain all licenses this device owns and store them in the specified location:

```
Device# license call-home resend flash:licenseresend.lic
CCO User name: User1
CCO password : ************
Email Address: User1@cisco.com
Getting Licenses from SWIFT ..........
Saving it to flash:licenseresend.lic.....Done
```

Additional References

Related Documents

Related Topic	Document Title
Cisco License Manager application	*User Guide for Cisco License Manager*
Software activation conceptual overview	"Cisco IOS Software Activation Conceptual Overview" module
Software activation commands	*Software Activation Command Reference*
Cisco IOS commands	Master Commands List, All Releases
Integrated Services Routers licensing	*Software Activation on Cisco Integrated Services Routers*

Technical Assistance

Description	Link
The Cisco Support and Documentation website provides online resources to download documentation, software, and tools. Use these resources to install and configure the software and to troubleshoot and resolve technical issues with Cisco products and technologies. Access to most tools on the Cisco Support and Documentation website requires a Cisco.com user ID and password.	http://www.cisco.com/cisco/web/support/index.html

Feature Information for Cisco License Call Home

The following table provides release information about the feature or features described in this module. This table lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to www.cisco.com/go/cfn. An account on Cisco.com is not required.

Table 1   *Feature Information for Cisco License Call Home*

Feature Name	Releases	Feature Information
Cisco License Call Home	12.4(15)XZ 12.4(20)T 15.1(1)SG Cisco IOS XE Release 3.3SG	The Cisco License Call Home feature provides a robust set of commands that communicate with the Cisco licensing infrastructure, makes connections and data transfers, and provides interactive prompts to help you install and maintain software licenses. In 12.4(15)XZ, this feature was introduced on the Cisco AS5300, AS5350, AS5350XM, AS5400, AS5400HPX, AS5400XM, 2800, 2851, 2821, 2811, 3800, 3825, and 3845 platforms. The following commands were introduced or modified by this feature: **license call-home install**, **license call-home resend**, **license call-home revoke**, **license call-home url**, **show license call-home**.