



Configuring Smart Licensing

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Prerequisites for Configuring Smart Licensing

You must have the following in [CSSM](#):

- Cisco Smart Account
- One or more Virtual Account
- User role with proper access rights
- You should have accepted the Smart Software Licensing Agreement on CSSM to register devices.
- Network reachability to <https://tools.cisco.com>.

Introduction to Smart Licensing

Cisco Smart Licensing is a flexible licensing model that provides you with an easier, faster, and more consistent way to purchase and manage software across the Cisco portfolio and across your organization. And it's secure – you control what users can access. With Smart Licensing you get:

- Easy Activation: Smart Licensing establishes a pool of software licenses that can be used across the entire organization—no more PAKs (Product Activation Keys).
- Unified Management: My Cisco Entitlements (MCE) provides a complete view into all of your Cisco products and services in an easy-to-use portal, so you always know what you have and what you are using.

- **License Flexibility:** Your software is not node-locked to your hardware, so you can easily use and transfer licenses as needed.

To use Smart Licensing, you must first set up a Smart Account on Cisco Software Central (software.cisco.com).

For a more detailed overview on Cisco Licensing, go to cisco.com/go/licensingguide.

Overview of CSSM

Cisco Smart Software Manager (CSSM) enables you to manage all your Cisco smart software licenses from one centralized portal. With CSSM, you can organize and view your licenses in groups called virtual accounts (collections of licenses and product instances).

You can access the CSSM on <https://software.cisco.com/#>, by clicking the **Smart Software Licensing** link under the **License** tab.



Note Use a Chrome 32.0, Firefox 25.0, or Safari 6.0.5 web browser to access CSSM. Also, ensure that Javascript 1.5 or a later version is enabled in your browser.

Use the CSSM to do the following tasks:

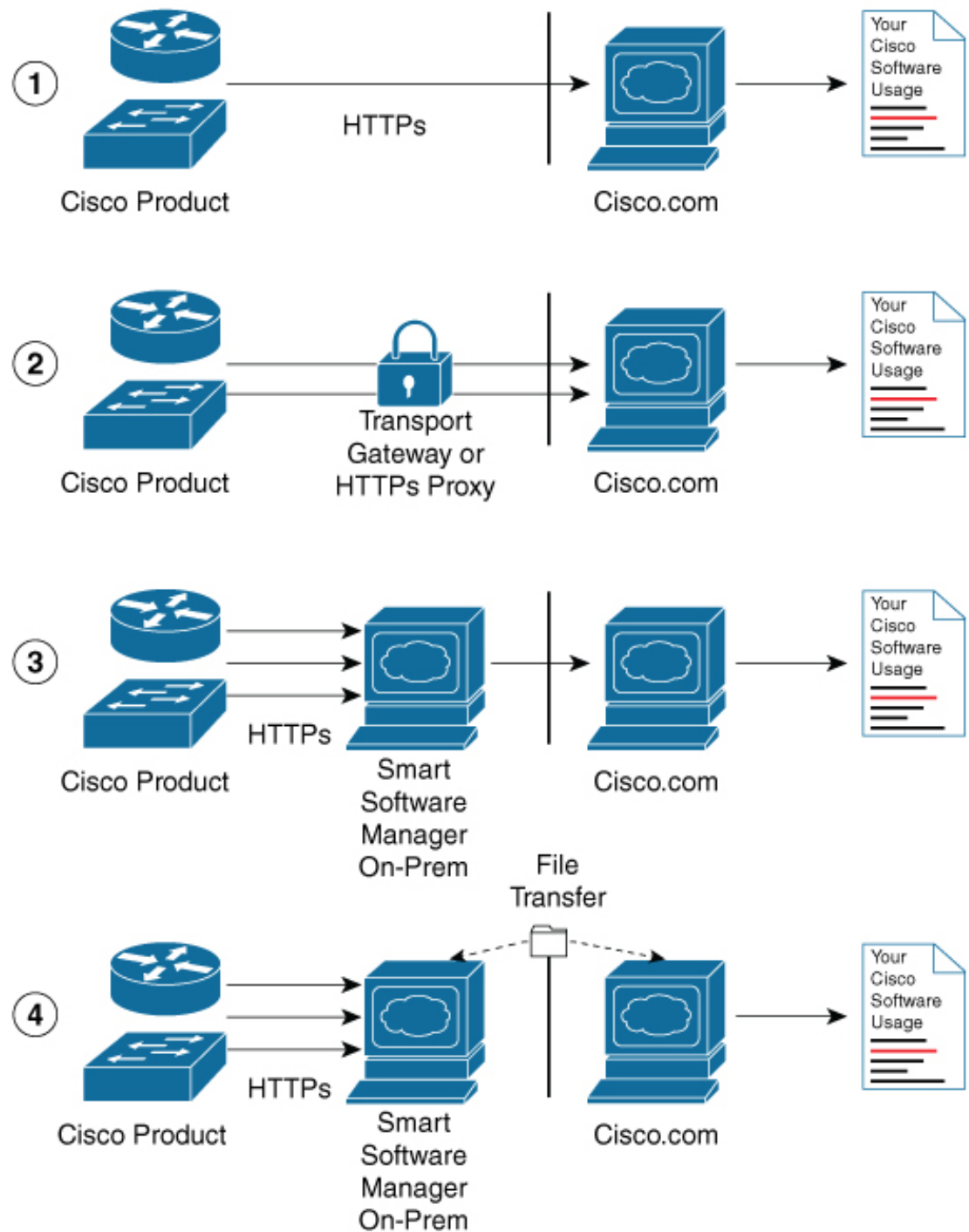
- Create, manage, or view virtual accounts.
- Create and manage Product Instance Registration Tokens.
- Transfer licenses between virtual accounts or view licenses.
- Transfer, remove, or view product instances.
- Run reports against your virtual accounts.
- Modify your email notification settings.
- View overall account information.

CSSM Help describes the procedures for carrying out these tasks.

Connecting to CSSM

The following illustration shows the various options available to connect to CSSM:

Figure 1: Connection Options



1. Direct cloud access: In this method, Cisco products send usage information directly over the internet to Cisco.com; no additional components are needed for the connection.

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2. Direct cloud access through an HTTPs proxy: In this method, Cisco products send usage information over the internet through a proxy server - either a Call Home Transport Gateway or an off-the-shelf proxy (such as Apache) to Cisco.com.
3. Mediated access through a connected on-premises collector: In this method, Cisco products send usage information to a locally-connected collector, which acts as a local license authority. Periodically, this information is exchanged to keep the databases synchronized.
4. Mediated access through a disconnected on-premises collector: In this method, Cisco products send usage information to a local disconnected collector, which acts as a local license authority. Exchange of human-readable information takes place occasionally (maybe once a month) to keep the databases synchronized.

Options 1 and 2 provide an easy connection option, and options 3 and 4 provide a secure environment connection option. Cisco Smart Software Manager On-Prem (formerly known as Cisco Smart Software Manager satellite) provides support for options 3 and 4.

Configuring a Connection to CSSM and Setting Up the License Level

The following sections provide information about how to set up a connection to CSSM and set up the license level.

Setting Up a Connection to CSSM

The following steps show how to set up a Layer 3 connection to CSSM to verify network reachability. Skip this section if you already have Layer 3 connectivity to CSSM.

Procedure

	Command or Action	Purpose
Step 1	enable Example: Device> enable	Enables privileged EXEC mode. Enter your password, if prompted.
Step 2	configure terminal Example: Device# configure terminal	Enters global configuration mode.
Step 3	{ip ipv6} name-server server-address 1 [server-address 2] [server-address 3] [server-address 4] [server-address 5] [server-address 6] Example: Device(config)# ip name-server 209.165.201.1 209.165.200.225 209.165.201.14 209.165.200.230	Configures Domain Name System (DNS).

	Command or Action	Purpose
Step 4	ip name-server vrf Mgmt-vrf server-address 1 [server-address 2] [server-address 3] [server-address 4] [server-address 5] [server-address 6] Example: <pre>Device(config)# ip name-server vrf Mgmt-vrf 209.165.201.1 209.165.200.225 209.165.201.14 209.165.200.230</pre>	(Optional) Configures DNS on the VRF interface. Note You should configure this command as an alternative to the ip name-server command.
Step 5	ip domain lookup source-interface interface-type interface-number Example: <pre>Device(config)# ip domain lookup source-interface Vlan100</pre>	(Optional) Configures the source interface for the DNS domain lookup.
Step 6	ip domain name example.com Example: <pre>Device(config)# ip domain name example.com</pre>	Configures the domain name.
Step 7	ip host tools.cisco.com ip-address Example: <pre>Device(config)# ip host tools.cisco.com 209.165.201.30</pre>	(Optional) Configures static hostname-to-address mappings in the DNS hostname cache if automatic DNS mapping is not available.
Step 8	interface vlan_id Example: <pre>Device(config)# interface Vlan100 Device(config-if)# ip address 192.0.2.10 255.255.255.0 Device(config-if)# exit</pre>	Configures a Layer 3 interface.
Step 9	ntp server ip-address [version number] [key key-id] [prefer] Example: <pre>Device(config)# ntp server 198.51.100.100 version 2 prefer</pre>	Forms a server association with the specified system. Note The ntp server command is mandatory to ensure that the device time is synchronized with CSSM.
Step 10	switchport access vlan vlan_id Example: <pre>Device(config)# interface GigabitEthernet1/0/1 Device(config-if)# switchport access vlan 100 Device(config-if)# switchport mode</pre>	(Optional) Enables the VLAN for which this access port carries traffic and sets the interface as a nontrunking nontagged single-VLAN Ethernet interface. Note This step is to be configured only if the switchport access mode is required.

	Command or Action	Purpose
	access Device (config-if) # exit Device (config) #	
Step 11	ip route <i>ip-address ip-mask subnet mask</i> Example: Device (config) # ip route 192.0.2.0 255.255.255.255 192.0.2.1	Configures a route on the device. Note You can configure either a static route or a dynamic route.
Step 12	license smart transport callhome Example: Device (config) # license smart transport callhome	Enables the transport mode as Call Home. Note The license smart transport callhome command is mandatory.
Step 13	ip http client source-interface <i>interface-type interface-number</i> Example: Device (config) # ip http client source-interface Vlan100	Configures a source interface for the HTTP client. Note The ip http client source-interface interface-type interface-number command is mandatory.
Step 14	exit Example: Device (config) # exit	(Optional) Exits global configuration mode and returns to privileged EXEC mode.
Step 15	copy running-config startup-config Example: Device# copy running-config startup-config	(Optional) Saves your entries in the configuration file.

Configuring the Call Home Service for Direct Cloud Access



Note By default, the CiscoTAC-1 profile is already set up on the device. Use the **show call-home profile all** command to check the profile status.

The Call Home service provides email-based and web-based notification of critical system events to CSSM. To configure and enable the Call Home service, perform this procedure:

Procedure

	Command or Action	Purpose
Step 1	enable	Enables privileged EXEC mode.

	Command or Action	Purpose
	Example: Device> enable	Enter your password, if prompted.
Step 2	configure terminal Example: Device# configure terminal	Enters global configuration mode.
Step 3	call-home Example: Device(config)# call-home	Enters Call Home configuration mode.
Step 4	no http secure server-identity-check Example: Device(config-call-home)# no http secure server-identity-check	Disables server identity check when HTTP connection is established.
Step 5	contact-email-address email-address Example: Device(config-call-home)# contact-email-addr username@example.com	Assigns customer's email address. You can enter up to 200 characters in email address format with no spaces.
Step 6	profile CiscoTAC-1 Example: Device(config-call-home)# profile CiscoTAC-1	By default, the CiscoTAC-1 profile is inactive. To use this profile with the Call Home service, you must enable the profile.
Step 7	destination transport-method http Example: Device(config-call-home-profile)# destination transport-method http	Enables the Call Home service via HTTP.
Step 8	destination address http url Example: Device(config-call-home-profile)# destination address http https://tools.cisco.com/its/service/other/services/DCEService	Connects to CSSM.
Step 9	active Example: Device(config-call-home-profile)# active	Enables the destination profile.
Step 10	no destination transport-method email Example: Device(config-call-home-profile)# no destination transport-method email	Disables the Call Home service via email.

	Command or Action	Purpose
Step 11	exit Example: Device (config-call-home-profile) # exit	Exits Call Home destination profile configuration mode and returns to Call Home configuration mode.
Step 12	exit Example: Device (config-call-home) # exit	Exits Call Home configuration mode and returns to global configuration mode.
Step 13	service call-home Example: Device (config) # service call-home	Enables the Call Home feature.
Step 14	exit Example: Device (config) # exit	Exits global configuration mode and returns to privileged EXEC mode.
Step 15	copy running-config startup-config Example: Device# copy running-config startup-config	(Optional) Saves your entries in the configuration file.

Configuring the Call Home Service for Direct Cloud Access through an HTTPs Proxy Server

The Call Home service can be configured through an HTTPs proxy server. This configuration requires no user authentication to connect to CSSM.



Note Authenticated HTTPs proxy configurations are not supported.

To configure and enable the Call Home service through an HTTPs proxy, perform this procedure:

Procedure

	Command or Action	Purpose
Step 1	enable Example: Device> enable	Enables privileged EXEC mode. Enter your password, if prompted.
Step 2	configure terminal Example: Device# configure terminal	Enters global configuration mode.

	Command or Action	Purpose
Step 3	call-home Example: Device(config)# call-home	Enters Call Home configuration mode.
Step 4	contact-email-address email-address Example: Device(config-call-home)# contact-email-addr sch-smart-licensing@cisco.com	Configures the default email address as sch-smart-licensing@cisco.com.
Step 5	http-proxy proxy-address proxy-port port-number Example: Device(config-call-home)# http-proxy 198.51.100.10 port 3128	Configures the proxy server information to the Call Home service.
Step 6	profile CiscoTAC-1 Example: Device(config-call-home)# profile CiscoTAC-1	By default, the CiscoTAC-1 profile is inactive. To use this profile with the Call Home service, you must enable the profile.
Step 7	destination transport-method http Example: Device(config-call-home-profile)# destination transport-method http	Enables the Call Home service via HTTP.
Step 8	no destination transport-method email Example: Device(config-call-home-profile)# no destination transport-method email	Disables the Call Home service via email.
Step 9	profile name Example: Device(config-call-home)# profile test1	Enters Call Home destination profile configuration mode for the specified destination profile name. If the specified destination profile does not exist, it is created.
Step 10	reporting smart-licensing-data Example: Device(config-call-home-profile)# reporting smart-licensing-data	Enables data sharing with the Call Home service via HTTP.
Step 11	destination transport-method http Example: Device(config-call-home-profile)# destination transport-method http	Enables the HTTP message transport method.

	Command or Action	Purpose
Step 12	destination address <i>http url</i> Example: Device (config-call-home-profile) # destination address <i>http</i> <i>https://tools.cisco.com/its/service/otbe/services/DIOService</i>	Connects to CSSM.
Step 13	active Example: Device (config-call-home-profile) # active	Enables the destination profile.
Step 14	exit Example: Device (config-call-home-profile) # exit	Exits Call Home destination profile configuration mode and returns to Call Home configuration mode.
Step 15	exit Example: Device (config-call-home) # exit	Exits Call Home configuration mode and returns to global configuration mode.
Step 16	service call-home Example: Device (config) # service call-home	Enables the Call Home feature.
Step 17	ip http client proxy-server <i>proxy-address</i> proxy-port <i>port-number</i> Example: Device (config) # ip http client proxy-server <i>198.51.100.10 port 3128</i>	Enables the Call Home feature.
Step 18	exit Example: Device (config) # exit	Exits global configuration mode and returns to privileged EXEC mode.
Step 19	copy running-config startup-config Example: Device# copy running-config startup-config	(Optional) Saves your entries in the configuration file.

Configuring the Call Home Service for Cisco Smart Software Manager On-Prem

For information about Cisco Smart Software Manager On-Prem (formerly known as Cisco Smart Software Manager satellite), see <https://www.cisco.com/c/en/us/buy/smart-accounts/software-manager-satellite.html>.

To configure the Call Home service for the Cisco Smart Software Manager On-Prem (formerly known as Cisco Smart Software Manager satellite), perform this procedure:

Procedure

	Command or Action	Purpose
Step 1	enable Example: Device> enable	Enables privileged EXEC mode. Enter your password if prompted.
Step 2	configure terminal Example: Device# configure terminal	Enters global configuration mode.
Step 3	call-home Example: Device(config)# call-home	Enters Call Home configuration mode.
Step 4	no http secure server-identity-check Example: Device(config-call-home)# no http secure server-identity-check	Disables server identity check when HTTP connection is established.
Step 5	profile name Example: Device(config-call-home)# profile test1	Enters Call Home destination profile configuration mode for the specified destination profile name. If the specified destination profile does not exist, it is created.
Step 6	reporting smart-licensing-data Example: Device(config-call-home-profile)# reporting smart-licensing-data	Enables data sharing with the Call Home service via HTTP.
Step 7	destination transport-method http Example: Device(config-call-home-profile)# destination transport-method http	Enables the HTTP message transport method.
Step 8	destination address http url Example: Device(config-call-home-profile)# destination address http https://20.16.201.15:43/transportdata/services/DeviceRequestHandler or Device(config-call-home-profile)# destination address http http://20.16.201.15:80/transportdata/services/DeviceRequestHandler	Configures the destination URL (CSSM) to which Call Home messages are sent. Note Ensure the IP address or the fully qualified domain name (FQDN) in the destination URL matches the IP address or the FQDN as configured for the Satellite Name on the Cisco Smart Software Manager On-Prem.

	Command or Action	Purpose
Step 9	destination preferred-msg-format {long-text short-text xml} Example: Device (config-call-home-profile) # destination preferred-msg-format xml	(Optional) Configures a preferred message format. The default is XML.
Step 10	active Example: Device (config-call-home-profile) # active	Enables the destination profile. By default, a profile is enabled when it is created.
Step 11	exit Example: Device (config-call-home-profile) # exit	Exits Call Home destination profile configuration mode and returns to Call Home configuration mode.
Step 12	exit Example: Device (config-call-home) # exit	Exits Call Home configuration mode and returns to global configuration mode.
Step 13	ip http client source-interface <i>interface-type interface-number</i> Example: Device (config) # ip http client source-interface Vlan100	Configures a source interface for the HTTP client. Note The ip http client source-interface <i>interface-type interface-number</i> command is mandatory for a vrf interface.
Step 14	crypto pki trustpoint <i>name</i> Example: Device (config) # crypto pki trustpoint SLA-TrustPoint	(Optional) Declares the trustpoint and a given name and enters ca-trustpoint configuration mode.
Step 15	revocation-check none Example: Device (ca-trustpoint) # revocation-check none	(Optional) Specifies that certificate checking is ignored.
Step 16	end Example: Device (ca-trustpoint) # end	(Optional) Exits ca-trustpoint configuration mode and returns to privileged EXEC mode.
Step 17	copy running-config startup-config Example: Device # copy running-config startup-config	(Optional) Saves your entries in the configuration file.

Configuring the License Level

This procedure is optional. You can use this procedure to :

- Downgrade or upgrade licenses.
- Enable or disable an evaluation or extension license
- Clear an upgrade license

The required license level(s) needs to be configured on the device before registering. The following are the license levels available for Cisco Catalyst 9000 Series Switches:

Base licenses

- Network Advantage

Add-on licenses—These can be subscribed for a fixed term of three, five, or seven years.

- DNA Advantage

To configure the license levels, follow this procedure:

Procedure

	Command or Action	Purpose
Step 1	enable Example: Device> enable	Enables privileged EXEC mode. Enter your password, if prompted.
Step 2	configure terminal Example: Device# configure terminal	Enters global configuration mode.
Step 3	license boot level <i>license_level</i> Example: Device(config)# license boot level network-advantage	Activates the licenses on the switch.
Step 4	exit Example: Device(config)# exit	Returns to the privileged EXEC mode.
Step 5	write memory Example: Device# write memory	Saves the license information on the switch.
Step 6	show version Example: Device# show version	Shows license-level information.

	Command or Action	Purpose
	<pre>Technology-package Current Type Next reboot Technology-package network-advantage Smart License network-advantage None Subscription Smart License None</pre>	
Step 7	reload Example: Device# reload	Reloads the device.

Registering a Device on CSSM

To register a device on CSSM, you must do the following tasks:

1. Generate a unique token from the CSSM.
2. Register the device with the generated token.

On successful registration, the device will receive an identity certificate. This certificate is saved on your device and automatically used for all future communications with Cisco. CSSM will attempt to renew the registration information every 30 days.

Additionally, license usage data is collected and a report is sent to you every month. If required, you can configure your Call Home settings to filter out sensitive information (like hostname, username and password) from the usage report.

Generating a New Token from CSSM

Tokens are generated to register new product instances to the virtual account.

Procedure

-
- Step 1** Log in to CSSM from <https://software.cisco.com/#>.
You must log in to the portal using the username and password provided by Cisco.
- Step 2** Click the **Inventory** tab.
- Step 3** From the **Virtual Account** drop-down list, choose the required virtual account.
- Step 4** Click the **General** tab.
- Step 5** Click **New Token**.

Cisco Software Central > Smart Software Licensing

English [Change] Hello Smart Account Name

Smart Software Licensing

Alerts | Inventory | License Conversion | Reports | Preferences | Satellites | Activity

Questions About Licensing? Try our Virtual Assistant

Virtual Account: Virtual Account 1

23 Major 9 Minor Hide Alerts

General Licenses Product Instances Event Log

Virtual Account

Description: Account 1

Default Virtual Account: No

Product Instance Registration Tokens

The registration tokens below can be used to register new product instances to this virtual account.

New Token...

Token	Expiration Date	Description	Export-Controlled	Created By	Actions
ZjgxNzdjYjctOWRhMC00M2IOL...	Expired	Token 1	Allowed	User 1	Actions
ZTg2MjBjMzUIN2U0N0NDdkL...	Expired		Allowed	User 1	Actions

The **Create Registration Token** window is displayed.

Step 6

In the **Description** field, enter the token description.

Step 7

In the **Expire After** field, enter the number of days the token must be active.

Step 8

(Optional) In the **Max. Number of Uses** field, enter the maximum number of uses allowed after which the token expires.

Create Registration Token

This will create a token that is used to register product instances, so that they can use licenses from this virtual account. Once it's created, go to the Smart Licensing configuration for your products and enter the token, to register them with this virtual account.

Virtual Account: Virtual Account 1

Description: Token 2

* Expire After: 30 Days

Between 1 - 365, 30 days recommended

Max. Number of Uses:

The token will be expired when either the expiration or the maximum uses is reached

☐ Allow export-controlled functionality on the products registered with this token

Create Token Cancel

Step 9

Check the **Allow export-controlled functionality on the products registered with this token** checkbox.

Enabling this checkbox ensures Cisco compliance with US and country-specific export policies and guidelines. For more information, see <https://www.cisco.com/c/en/us/about/legal/global-export-trade.html>.

Step 10

Click **Create Token** to create a token.

Step 11

After the token is created, click **Copy** to copy the newly created token.

Create Registration Token

This will create a token that is used to register product instances, so that they can use licenses from this virtual account. Once it's created, go to the Smart Licensing configuration for your products and enter the token, to register them with this virtual account.

Virtual Account: Virtual Account 1

Description : Token 2

* Expire After: 30 Days
Between 1 - 365, 30 days recommended

Max. Number of Uses:

The token will be expired when either the expiration or the maximum uses is reached

☒ Allow export-controlled functionality on the products registered with this token

Create Token Cancel

Registering a Device with the New Token

To register a device with the new token, perform this procedure:

Procedure

	Command or Action	Purpose
Step 1	enable Example: Device> enable	Enables privileged EXEC mode. Enter your password, if prompted.
Step 2	license smart register idtoken <i>token_ID</i> Example: Device# license smart register idtoken \$T4ytrwZpSLk8UvE5hZJ0d1wR80b1Rw0%30%	Registers the device with the back-end server using the token generated from CSSM.
Step 3	write memory Example: Device# write memory	Saves the license information on the device.

Verifying the License Status After Registration

To verify the status of a license after registration, use the **show license all** command.

Canceling a Device's Registration in CSSM

When your device is taken off the inventory, shipped elsewhere for redeployment, or returned to Cisco for replacement using the return merchandise authorization (RMA) process, you can use the **deregister** command to cancel the registration of your device.

To cancel device registration, follow this procedure:

Before you begin

Layer 3 connection to CSSM must be available to successfully deregister the device.

Procedure

	Command or Action	Purpose
Step 1	enable Example: Device> enable	Enables privileged EXEC mode. Enter your password, if prompted.
Step 2	license smart deregister Example: Device# license smart deregister	Cancels the device's registration, and sends the device into evaluation mode. All smart licensing entitlements and certificates on the corresponding platform are removed. The device product instance stored on CSSM is also removed.

Monitoring Smart Licensing Configuration

Use the following commands in privileged EXEC mode to monitor smart licensing configuration.

Table 1: Commands to Monitor Smart Licensing Configuration

Command	Purpose
show license status	<p>Displays the compliance status of smart licensing. The following is the list of possible statuses:</p> <ul style="list-style-type: none"> • Enabled: Indicates that smart licensing is enabled. • Waiting: Indicates the initial state after your device has made a license entitlement request. The device establishes communication with Cisco and successfully registers itself with the CSSM. • Registered: Indicates that your device is able to communicate with the CSSM, and is authorized to initiate requests for license entitlements. • Authorized: Indicates that your device is in Compliance status and is authorized to use the requested type and count of licenses. The Authorization status has a lifetime of 90 days. At the end of 30 days, the device will send a new entitlement authorization request to the CSSM to renew the authorization. • Out Of Compliance: Indicates that one or more of your licenses are out of compliance. You must buy additional licenses. • Eval Mode: You must register the device with the CSSM within 90 days (of device usage). Otherwise, your device's evaluation period will expire. • Evaluation Period Expired: At the end of 90 days, if your device has not registered, the device enters Evaluation Expired mode.
show license all	Displays all the entitlements in use. Additionally, it shows the associated licensing certificates, compliance status, UDI, and other details.
show tech-support license	Displays the detailed debug output.
show license usage	Displays the license usage information.

Command	Purpose
show license summary	Displays the summary of all the active licenses.

Configuration Examples for Smart Licensing

The following sections provide various Smart Licensing configuration examples.

Example: Viewing the Call Home Profile

Example

To display the Call Home profile, use the **show call-home profile all** command:

```
Device> enable
Device# show call-home profile all
Profile Name: CiscoTAC-1
  Profile status: ACTIVE
  Profile mode: Full Reporting
  Reporting Data: Smart Call Home, Smart Licensing
  Preferred Message Format: xml
  Message Size Limit: 3145728 Bytes
  Transport Method: http
  HTTP address(es): https://tools.cisco.com/its/service/oddce/services/DDCEService
  Other address(es): default

Periodic configuration info message is scheduled every 1 day of the month at 09:15

Periodic inventory info message is scheduled every 1 day of the month at 09:00

Alert-group          Severity
-----
crash                debug
diagnostic           minor
environment           warning
inventory            normal

Syslog-Pattern       Severity
-----
APF-.-WLC_.*         warning
.*                   major
```

Example: Registering a Device

Example

To register a device, use the **license smart register idtoken** command:

```
Device> enable
Device# license smart register idtoken
```

Tl4UytrNXBzbEs1ck8veUtWaG5abnZJOFdDa1FwbVRa%0Ab1RMbz0%3D%0A
 Device# write memory

Additional References

Related Documents

Related Topic	Document Title
Cisco Smart Software Manager Help	Smart Software Manager Help
Cisco Smart Software Manager On-Prem	Cisco Smart Software Manager On-Prem

Technical Assistance

Description	Link
<p>The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies.</p> <p>To receive security and technical information about your products, you can subscribe to various services, such as the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and Really Simple Syndication (RSS) Feeds.</p> <p>Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.</p>	http://www.cisco.com/support

Feature History for Smart Licensing

This table provides release and related information for features explained in this module.

These features are available on all releases subsequent to the one they were introduced in, unless noted otherwise.

Release	Feature	Feature Information
Cisco IOS XE Gibraltar 16.11.1	Smart Licensing	<p>A cloud-based, software license management solution that allows you to manage and track the status of your license, hardware, and software usage trends.</p> <p>Smart Licensing is the default and the only available method to manage licenses.</p>

Use Cisco Feature Navigator to find information about platform and software image support. To access Cisco Feature Navigator, go to <http://www.cisco.com/go/cfn>