



Smart Licensing Deployment Guide

Smart Licensing Introduction	2
Quick Start Diagram	2
Smart Licensing Deployment Modes	3
Components Used	3
Smart Account Creation	4
Ordering on Cisco Commerce Workspacet	4
Cisco Smart Software Manager	4
Feature Configuration Step-by-Step	8
Registration and Activation	10
Smart Software Satellite and Transport Gateway Mode (Optional)	14
Smart Licensing HA Support	17
CLI Reference	17
Reference	18

Revised: May 3, 2024

Smart Licensing Introduction

Cisco Smart Software Licensing will make it easier to buy, deploy, track, and renew Cisco software by removing today's entitlement barriers and providing information about your software install base. This is a major change to Cisco's software strategy, moving away from a PAK-based model to a new approach that enables flexibility and advanced consumer-based models.

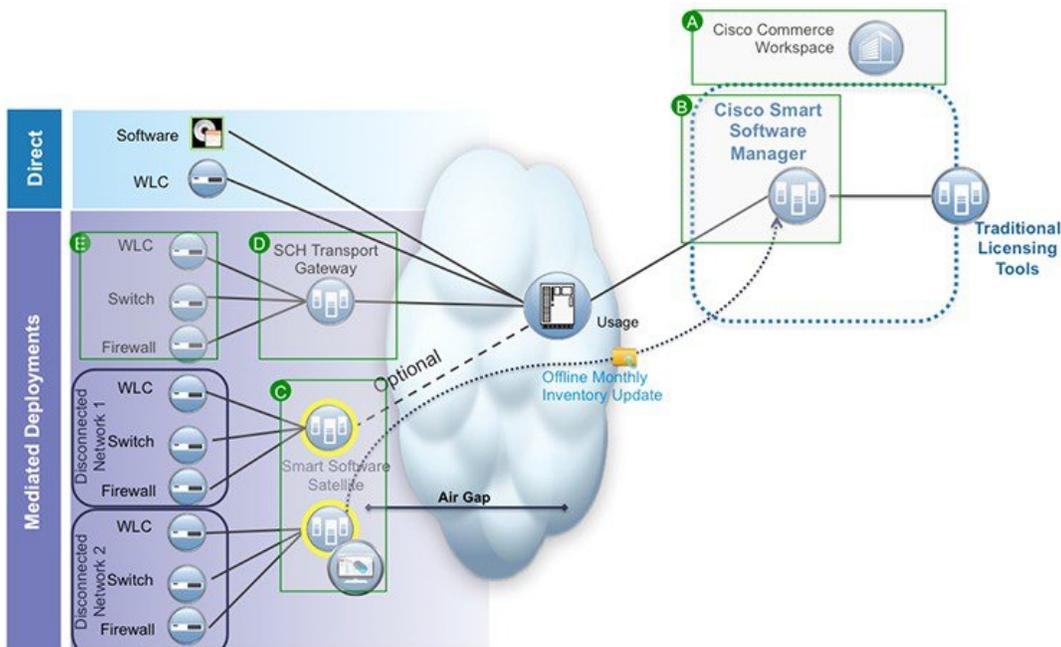
- Visibility into devices and software that you have purchased and deployed
- Automatic license activation
- Product simplicity with standard software offers, licensing platform, and policies
- Possibility of decreased operational costs

You, your chosen partners, and Cisco can view your hardware, software entitlements, and eventually services in the Cisco Smart Software Manager interface.

All Smart Software Licensed products, upon configuration and activation with a single token, will self-register, removing the need to go to a website and register product after product with PAKs. Instead of using PAKs or license files, Smart Software Licensing establishes a pool of software licenses or entitlements that can be used across your entire company in a flexible and automated manner. Pooling is particularly helpful with RMAs because it eliminates the need to re-host licenses. You may self manage license deployment throughout your company easily and quickly in the Cisco Smart Software Manager.

Through standard product offers, a standard license platform, and flexible contracts you will have a simplified, more productive experience with Cisco software.

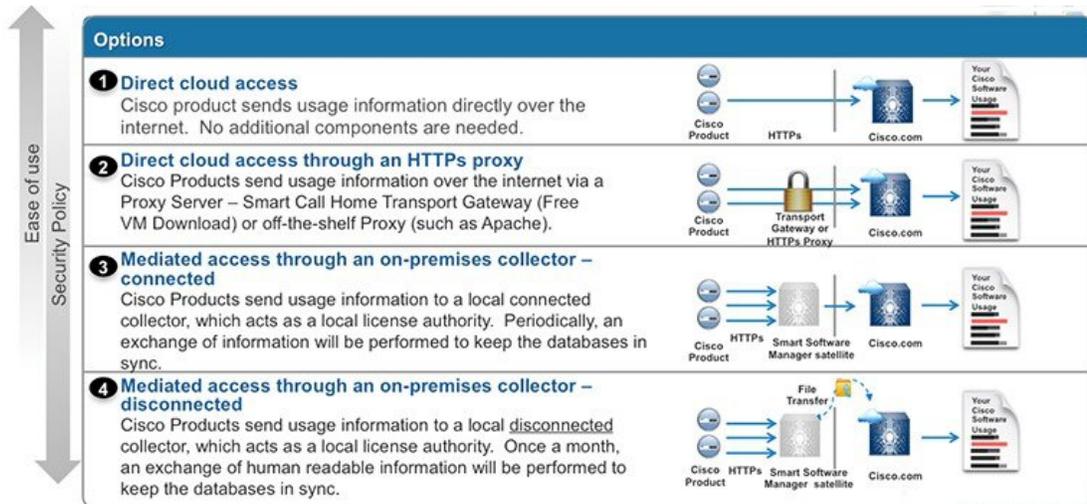
Quick Start Diagram



Smart Licensing Deployment Modes

Security is a concern for many customers. The options below are listed in an order from easiest to use to most secure.

- The first option is to transfer usage over the Internet to the Cloud server directly from the devices to the cloud via HTTPs.
- The second option is to transfer files directly over the Internet to the Cloud server through an HTTPs proxy, either Smart Call Home Transport Gateway or off the shelf HTTPs proxy such as Apache.
- The third option uses a customer internal collection device called the “Cisco Smart Software Satellite.” The Satellite periodically transmits the information into the cloud using periodic network synchronization. In this instance the only customer system or database transferring information to the cloud is the Satellite. The customer can control what is included in the collector database, which lends itself to higher security.
- The fourth option is to use the Satellite, but to transfer the collected files using manual synchronization at least once a month. In this model the system is not directly connected to the Cloud and an air gap exists between the customers network and the Cisco Cloud.



Components Used

- Cisco 5520, 8540 Series Wireless LAN Controller or virtual Wireless LAN Controller
- 802.11n/ac Access Points
- Cisco Catalyst Switch
- Client computer (example. laptop) that is Windows or Mac, with an available wired Ethernet port
- Wireless clients (tablets, smartphones, and so on.)

Smart Account Creation

A Customer Smart Account provides the repository for Smart enabled products and enables Users to manage Cisco Licenses. Once they are deposited, Users can activate licenses, monitor license usage and track Cisco purchases. Your Smart Account can be managed by the Customer directly or a Channel Partner or authorized party. All Customers will need to create a Customer Smart Account to fully utilize the license management features of their smart enabled products. The creation of your Customer Smart Account is a one-time setup activity using the link [Training Resources for Customers, Partners, Distributors, B2B](#)

After the Customer Smart Account Request has been submitted and the Account Domain Identifier has been approved (if edited), the Creator will receive an email notification informing them that they will need to complete the Customer Smart Account setup in Cisco Software Central (CSC).

Simplifying the Cisco Software Experience
Cisco's Software Transformation is moving towards a simplified end-to-end software experience. Below, are the training materials to help Customers and Partners learn about the upcoming enhancements to the software experience. Please use this page for your software training needs.

Use the drop down menu below to filter through self-paced training materials and quick reference guides on various software capabilities.

English | Chinese 简体中文 | Japanese 日本語 | Korean 한국어 | Portuguese Português | Spanish Español

See more information on: Smart Accounts

1-Tier Partner | Distributor(2-Tier Partner) | B2B | **End Customer**

Request Customer Smart Account

To create a Customer Smart Account you can request account and complete the setup for your company, or you can request a Smart Account on behalf of another person. This is a quick reference guide on how to request Customer Smart Account. All Customers need a Customer Smart Account, so Partners may initiate the Smart Account request on your behalf. In that case, you will only need to complete the Smart Account Setup.

[Quick Reference Guide | Request and Setup Demo](#) | [Initiate Request and Nominate Creator Demo](#)

Complete Customer Smart Account Setup

Quick reference guide on how to complete set up of a Customer Smart Account.

[Quick Reference Guide | Complete Setup Demo](#)

Search Operations Exchange

Find

All Types

Additional Resources on Software Tool Capabilities

- [Current List of Smart Licensing Enabled SKU's](#)
- [Smart Account Overview and System Access](#)
- [Register for Live Smart Account & Smart Licensing Training Today!](#)
- [Archive Release page](#)

Get Support

[Smart Accounts](#)

[General Software](#)

Social Resources

Ordering on Cisco Commerce Workspacet

The process of ordering a vWLC, 5520 and 8540 Series Wireless LAN Controller on CCW remains the same. Licenses on existing and newly purchased vWLC, 5520 and 8540 WLCs can be migrated to Smart Accounts by following the instructions in the **License Migration** Section: http://www.cisco.com/c/en/us/td/docs/wireless/technology/mesh/8-2/b_Smart_Licensing_Deployment_Guide.html#task_A7D4748711EC4E4784D18D878FC4F39D

Cisco Smart Software Manager

Cisco Smart Software Manager enables you to manage all of your Cisco Smart software licenses from one centralized website. With Cisco Smart Software Manager, you organize and view your licenses in groups called virtual accounts. You use Cisco Smart Software Manager to transfer the licenses between virtual accounts as needed.

You can access CSSM from the Cisco Software Central homepage at <https://software.cisco.com/#> under the Smart Licensing section. Cisco Smart Software Manager is divided into two main sections: a **Navigation** pane on the top and the main **Work** pane.

The screenshot shows the Cisco Smart Software Manager interface. At the top, there is a navigation pane with the following items: Alerts, Inventory, Reports, Email Notification, Satellites, and Activity. Below this, the Virtual Account section is displayed, showing the account name 'Account SL Drambuie' and a dropdown menu. Underneath, there are tabs for General, Licenses, Product Instances, and Event Log. The main content area is divided into two sections: 'Virtual Account' and 'Product Instance Registration Tokens'. The 'Virtual Account' section shows the description 'SL test' and 'Default Virtual Account: No'. The 'Product Instance Registration Tokens' section includes a 'New Token...' button and a table of tokens.

Token	Expiration Date	Description	Export-Controlled	Created By	Actions
ZGQ2ODVIZWQIZGE2ZC00N	2015-Dec-26 00:33:19 (in 27 days)	AWS token for testing FTD	Allowed	ydotan	Actions
MGQSNzA0ZTxiMDA5OS00N	2015-Dec-22 02:33:48 (in 23 days)		Allowed	erlevin	Actions
ZWiZYTVhmJctMwY5NC00ZG	2016-Nov-09 20:33:43 (in 346 days)	for zhong dt testing	Allowed	smartlicuser1	Actions
NTRk7DAz7mYfNmYzNv00N2	2015-Dec-03 23:21:11 (in 5 days)	Ott-Test	Allowed	smartlicuser1	Actions

You can use the **Navigation** pane to do the following tasks:

- Choose virtual accounts from the list of all virtual accounts that are accessible by the user.

Virtual Account: Account SL Drambuie

Virtual Account	Red Circle Count	Yellow Circle Count
Account SL Dra...	7	5
Aparajita	1	1
ASA	2	1
ASAv_PLR	1	0
ASAv_PLR2	0	0
Asies-new	0	0
Asies-WNBU	2	1
ASR1K	0	72
ASR1k_Dheeraj	0	6
ASR1k_Pavan	0	1
ASR1K_REG_SL	1	15
ASR1K_Satellite	64	1
ASR900	1	10
ASR901	1	24

- Run reports against your virtual accounts.

Smart Software Manager

[Feedback](#) [Support](#) [Help](#)

[Alerts](#) | [Inventory](#) | **[Reports](#)** | [Email Notification](#) | [Satellites](#) | [Activity](#)

Reports

Name	Description
Licenses	Includes a summary of current license counts and usage over selected virtual accounts.
Product Instances	Includes count and listing of current product instances for selected virtual accounts.

- Modify your email notification settings.

Email Notification

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.
- Satellite Synchronization Overdue - Satellite has not synchronized within the expected time period.
- Satellite Unregistered and Removed - Satellite failed to synchronize in 90 days and has been removed.

- Manage Major and Minor Alerts.

Smart Software Manager

Alerts

1765 Major | **1915** Minor

Sev	Message	Source	Action Due	Actions
✖	Insufficient Licenses - The Virtual Account "ATTAug10" has a shortage of "CSR 1KV IP BASE 10G" licenses. 2 licenses are required t...	ATTAug10	Now	Actions ▾
✖	Insufficient Licenses - The Virtual Account "CRDC_SH_1" has a shortage of "ASR 1000 FoundationSuitesK9 Entitlement" licenses. 1 ...	CRDC_SH_1	Now	Actions ▾
✖	Insufficient Licenses - The Virtual Account "Account SL Drambuie" has a shortage of "CSR 1KV SECURITY 10M" licenses. 1 license L...	Account SL Drambuie	Now	Actions ▾
✖	Insufficient Licenses - The Virtual Account "NCS6k_DT1" has a shortage of "S-NC6-HQOS-RTU-10" licenses. 2 licenses are required ...	NCS6k_DT1	Now	Actions ▾
✖	Insufficient Licenses - The Virtual Account "NCS6k_DT1" has a shortage of "S-NC6-OAM-RTU-10" licenses. 2 licenses are required to...	NCS6k_DT1	Now	Actions ▾

- View overall account activity, license transactions and event log.

Activity

License Transactions		Event Log				
Transaction Date	License SKU	License	License Expiration	Count	Virtual Account	Transaction Type
2015-Nov-27 16:11:33	SL-A901-T	ASR 901 1588BC TIMIN...	2016-Jan-26 16:11:33 (DEMO)	2	ASR901	Manual Entry
2015-Nov-27 16:08:57	SL-A901-A	ASR 901 ADVANCED M...	2016-Jan-26 16:08:57 (DEMO)	2	ASR901	Manual Entry
2015-Nov-27 16:07:31	FLS-A901-4T	ASR 901 GIGE4 CU	2016-Jan-26 16:07:31 (DEMO)	2	ASR901	Manual Entry
2015-Nov-27 16:07:23	SL-A901-I	ASR 901 IP SECNATPAT	2016-Jan-26 16:07:23 (DEMO)	2	ASR901	Manual Entry
2015-Nov-27 16:06:58	SL-A901-B	ASR 901 IP BASE	2016-Jan-26 16:06:58 (DEMO)	2	ASR901	Manual Entry
2015-Nov-27 16:04:28	FLS-A901-4S	ASR 901 GIGE4 SFP	2016-Jan-26 16:04:28 (DEMO)	2	ASR901	Manual Entry

The following web browsers are supported for Cisco Smart Software Manager:

- Chrome 36.0 and later versions
- Firefox 30.0 and later versions
- Safari 5.1.7
- Internet Explorer 10.0 and later versions



Note Javascript 1.5 or a later version must be enabled in your browser.

Feature Configuration Step-by-Step

Smart Account Creation

Procedure

- Step 1** Create your Smart Account and virtual accounts as needed at Cisco Software Central (CSC) <https://software.cisco.com/software/company/smartaccounts/home#accountcreation-account> using the reference link <http://www.cisco.com/c/en/us/buy/smart-accounts.html>
- Step 2** On this page select **End Customer** and refer to the **Quick Reference Guide**

License Migration

After the licenses have been purchased, the customer should contact the Cisco Global Licensing Operations team by email, using the template as shown, with appropriate information to request the migration of their vWLC, 5520, and 8540 license entitlements to the customer's smart portal. Note that this migration may take up to 72 hours. The customer should continue using right-to-use (RTU) licensing until the license migration is complete.

Email template:

To: Licensing@cisco.com

Subject: Smart License Migration for Wireless Controllers

Email Text:

Cisco.com ID: #####

Request: Migrate the following wireless controller licenses to smart licensing.

Smart account domain ID (domain in the form of "xyz.com"): #####

- Smart virtual account name: #####

Serial numbers of the devices on which the licenses were purchased (for non-adder licenses): #####

Number of adder licenses and SKUs that were purchased: #####

PO/SO number: #####

- Virtual accounts are subaccounts that a customer can create inside their company's smart account to virtually separate different entities within organization. Virtual account creation is optional. More information regarding virtual accounts can be found in the General Smart Licensing Question and Answers at: <http://www.cisco.com/c/en/us/buy/smart-accounts/software-licensing.html>

Requesting Demo Licenses

Procedure

The process of obtaining demo licenses is done through TAC. TAC requests Smart Account and Virtual account information from the customer and add demo licenses into the Smart account on behalf of the customer

Configure and Use Smart Licensing

Procedure

-
- | | |
|---------------|--|
| Step 1 | Enable Smart Licensing on the WLC. |
| Step 2 | Call-home profile configuration (optional) |
| Step 3 | Device registration and entitlements. |
-

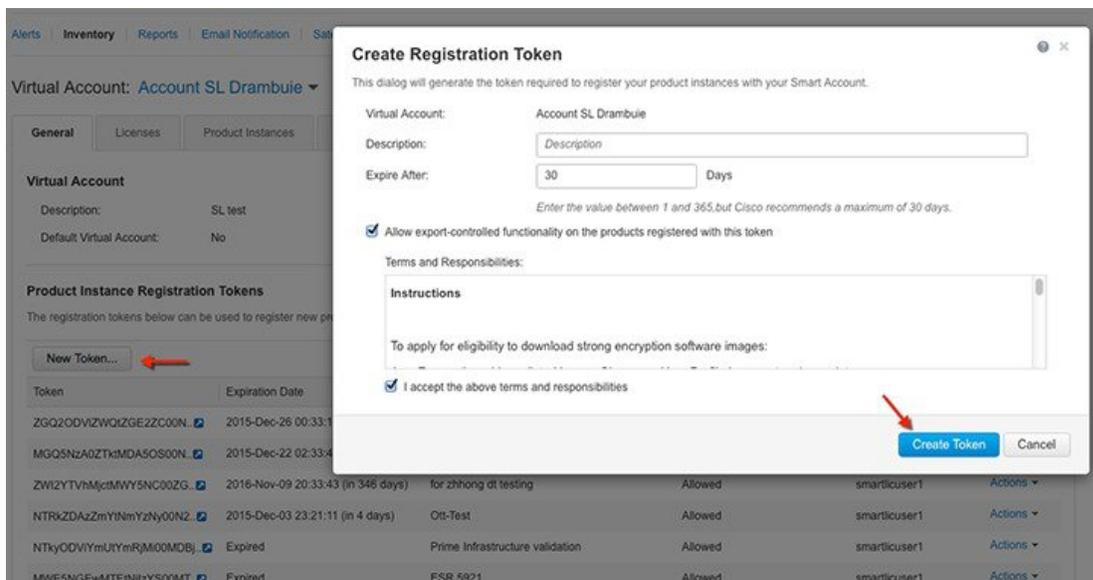
Registration and Activation

Token Creation

Token is required to register the product. Registration tokens are stored in the Product Instance Registration Token Table that is associated with your smart account. Once the product is registered, the registration token is no longer necessary and can be revoked and removed from the table. Registration tokens can be valid from 1 to 365 days.

Procedure

Step 1 In the General tab of virtual account, click **New Token**.



Step 2 In the Create Registration Token dialog box, enter a description and the number of days that you want the token to be valid for. Select the checkbox for export-controlled functionality and accept the terms and responsibilities.

Step 3 Click **Create Token** to create token.

Step 4 Once the token is created click Copy to copy the newly created token.

Enable Smart Licensing and Register Device

Procedure

Step 1 To activate Smart Licensing on the WLC go to **Management > Software Activation > License Type**.

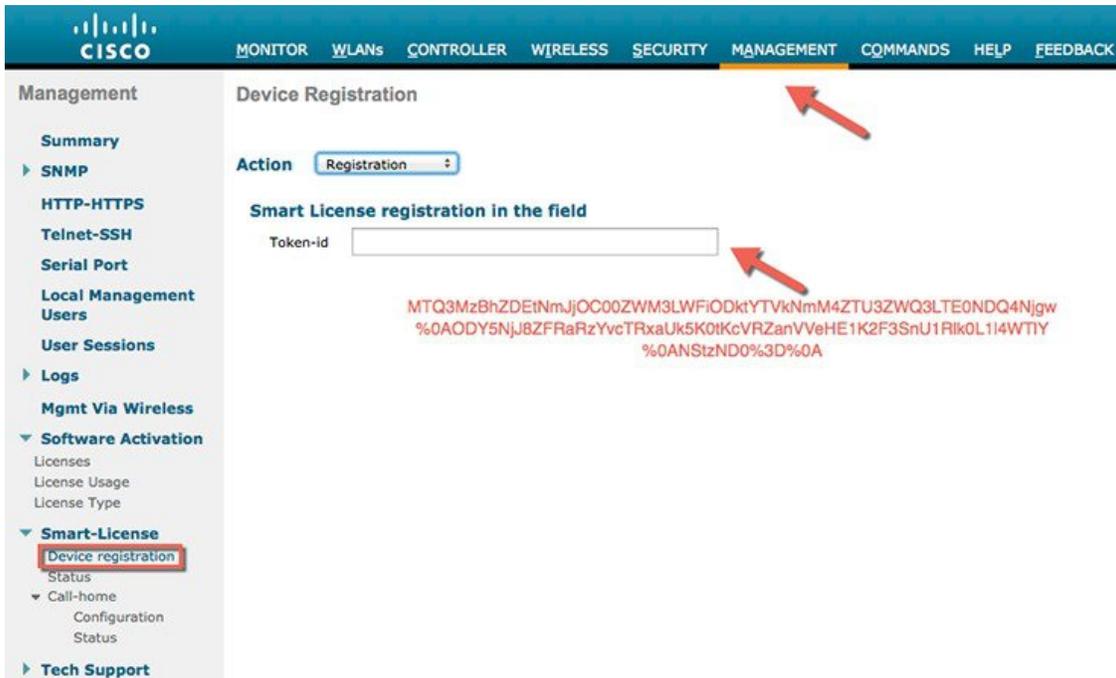
Step 2 Select Licensing Type as **Smart-Licensing** from the drop-down menu. Enter the DNS server IP address that will be used to resolve the Smart License and Smart call-home URLs in the call-home profile. Click **Apply**.



Restart the controller under **Commands > Restart**

Note The following steps are for the Direct Cloud Access deployment mode. For other deployment modes please refer to the section Smart Software Satellite and Transport Gateway Mode and then return to step 3 below to complete registration.

Step 3 Go to **Management > Smart-License > Device registration**. Select action as **Registration**. Register the device by entering the copied token ID.



Step 4 Verify the status of Registration and Authorization under **Management > Smart-License > Status**.

The screenshot shows the Cisco CSSM portal interface. At the top, there is a navigation bar with tabs: MONITOR, WLANs, CONTROLLER, WIRELESS, SECURITY, MANAGEMENT, COMMANDS, HELP, and FEED. The 'MANAGEMENT' tab is highlighted. On the left, there is a sidebar menu with categories: Management, Summary, SNMP, HTTP-HTTPS, Telnet-SSH, Serial Port, Local Management Users, User Sessions, Logs, Mgmt Via Wireless, Software Activation, Smart-License (expanded), and Tech Support. Under 'Smart-License', the 'Status' link is highlighted with a red arrow. The main content area is titled 'Status' and shows 'Smart-Licensing Parameters' with a dropdown menu set to 'Status'. The main content area displays the following information:

```
Smart Licensing is ENABLED
Registration:
Status: REGISTERED
Smart Account: Wireless Controller
Virtual Account: APSOOD
Export-Controlled Functionality: Not Allowed
Initial Registration: SUCCEEDED on Sep 24 16:19:54 2015 UTC
Last Renewal Attempt: None
Next Renewal Attempt: Mar 22 16:21:31 2016 UTC
Registration Expires: Sep 23 16:17:52 2016 UTC
License Authorization:
Status: AUTHORIZED on Sep 24 16:21:12 2015 UTC
Last Communication Attempt: SUCCEEDED on Sep 24 16:21:12 2015 UTC
Next Communication Attempt: Oct 24 16:21:31 2015 UTC
Communication Deadline: Dec 23 16:18:15 2015 UTC
```

In the CSSM portal the device will show up under the **Product Instances** tab on the corresponding virtual account that the device was registered with.

Step 5 Once APs join the WLC, entitlements are requested once in 24 hours and the status of entitlements can be viewed under **Management > Smart-license > Status**.

Management

Summary

▶ SNMP

HTTP-HTTPS

Telnet-SSH

Serial Port

Local Management
Users

User Sessions

▶ Logs

Mgmt Via Wireless

▼ Software Activation

Licenses
License Usage
License Type

▼ Smart-License

Device registration
Status
▼ Call-home
Configuration
Status

▶ Tech Support

Status

Smart-Licensing Parameters

License Authorization:
Status: AUTHORIZED on Sep 03 10:28:59 2015 UTC

WLC-AP-Join-Tag (WLC-AP-Join-Tag):
Description: This entitlement tag was created via Alpha Extension application
Count: 2
Version: Test-version1
Status: AUTHORIZED

The screenshot shows the Cisco WLC Management interface. The top navigation bar includes: MONITOR, WLANs, CONTROLLER, WIRELESS, SECURITY, MANAGEMENT (highlighted), COMMANDS, and HELP. The left sidebar shows the Management menu with options like Summary, SNMP, HTTP-HTTPS, Telnet-SSH, Serial Port, Local Management Users, User Sessions, Logs, Mgmt Via Wireless, Software Activation, Licenses, License Usage, License Type, Smart-License (with sub-items: Device registration, Status, Call-home, Configuration, Status), and Tech Support.

The main content area is titled 'Status' and shows 'Smart-Licensing Parameters' with a 'Summary' dropdown menu. The content is as follows:

```

Smart Licensing is ENABLED

Registration:
Status: REGISTERED
Smart Account: WLCNG
Virtual Account: Default
Export-Controlled Functionality: Allowed
Last Renewal Attempt: None
Next Renewal Attempt: Mar 01 07:26:55 2016 UTC

License Authorization:
Status: AUTHORIZED
Last Communication Attempt: SUCCEEDED
Next Communication Attempt: Oct 03 10:29:59 2015 UTC

License Usage:
License      Entitlement tag      Count Status
-----
WLC-AP-Join-Tag  (WLC-AP-Join-Tag)    2 AUTHORIZED
  
```

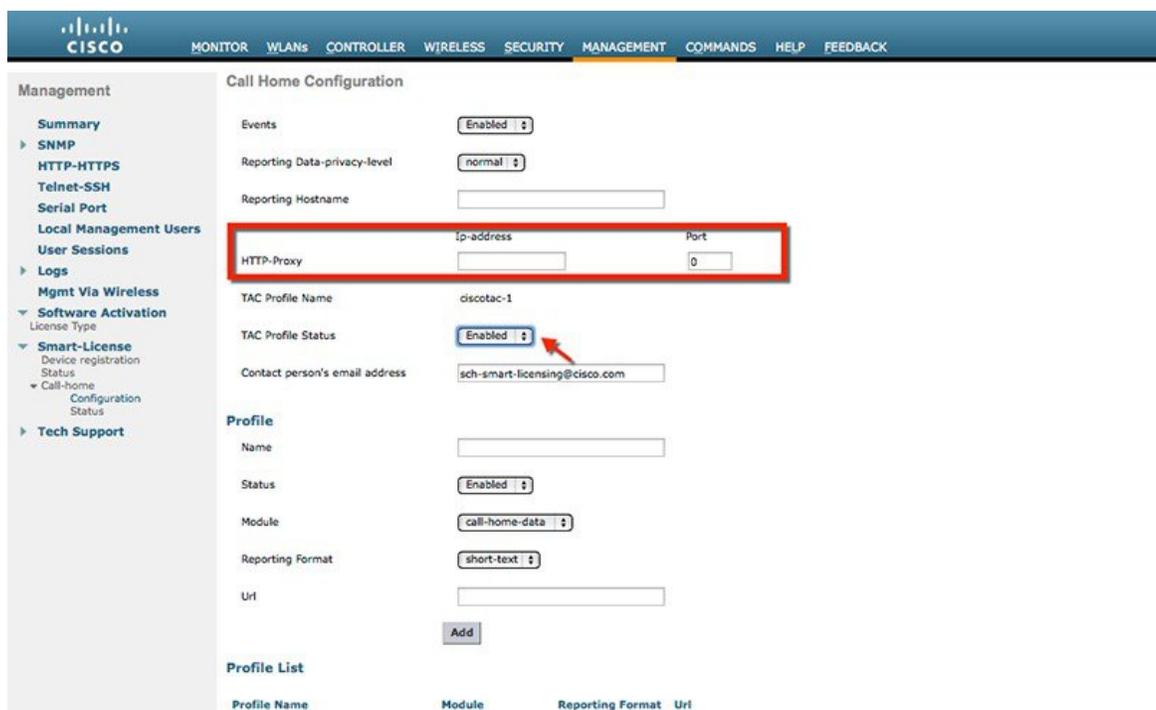
Smart Software Satellite and Transport Gateway Mode (Optional)

Direct Cloud Access through HTTPs proxy or Transport Gateway

In this deployment mode Cisco Products send usage information over the Internet via a Proxy Server - Smart Call Home Transport Gateway (Free VM Download) or off-the-shelf Proxy (such as Apache). To download, install and setup the Transport Gateway, please refer to http://www.cisco.com/c/dam/en/us/td/docs/switches/lan/smart_call_home/user_guides/SCH_Ch4.pdf

On the WLC setup the proxy/Transport Gateway as follows :

1. On the Wireless LAN Controller configure HTTP-proxy IP address and Port under **Management > Call-home > Configuration** as shown:
2. Make sure the default TAC Profile is **Enabled**.
3. Click **Apply**
4. Call-home profile configuration can be verified under **Management > Smart-license > Call-home > Status**



Mediated Access through on-premise Smart Software Satellite (connected or dis-connected mode)

Cisco Smart Software Manager satellite is a component of Cisco Smart Licensing and works in conjunction with [Cisco Smart Software Manager \(SSM\)](#) . It helps customers intelligently manage product licenses, providing near real-time visibility and reporting of Cisco licenses they purchase and consume.

For security sensitive customers who do not want to manage their install base using a direct Internet connection, the Smart Software Manager satellite is installed on the customer premises, and provides a subset of Cisco SSM functionality. Once you download and deploy the satellite application, you can perform the following functions locally and securely without sending data to Cisco SSM using the Internet:

- Activate or register a license
- Get visibility to your company's licenses
- Transfer licenses between company entities

Minimum System Requirements (Customer Provided):

- 50-200 GB hard disk
- 8 GB Memory
- 4 vCPUs

The free installation package is available in a number of formats:

- OVA, installable on ESXi 5.0+ server

- ISO bare metal
- Hyper-V for Microsoft Server 2012 virtualized host KVM for Ubuntu and CentOS

To download, install and setup the Smart Software Satellite, please refer to <http://www.cisco.com/c/en/us/buy/smart-accounts/software-manager-satellite.html>

On the WLC setup the satellite as follows:

1. On the Wireless LAN Controller configure a new call-home profile by specifying the name, status, module, reporting format and URL of the satellite that has been setup. Click **Add**



Note

- Controller supports only standard HTTP (TCP 80) and HTTPS (TCP 443) for device registration against SSM.
- In case any other port is used in the provided URL, registration will fail as controller will fail to generate registration request.

2. Make sure the default TAC Profile is **Disabled**.
3. Click **Apply**
4. Call-home profile configuration can be verified under **Management > Smart-license > Call-home > Status**

The screenshot shows the Cisco WLC Management interface. The top navigation bar includes: MONITOR, WLANs, CONTROLLER, WIRELESS, SECURITY, MANAGEMENT (highlighted), COMMANDS, HELP, FEEDBACK. The left sidebar shows the Management menu with options like Summary, SNMP, HTTP-HTTPS, Telnet-SSH, Serial Port, Local Management Users, User Sessions, Logs, Mgmt Via Wireless, Software Activation, License Type, Smart-License (with sub-options: Device registration, Status, Call-home, Configuration, Status), and Tech Support.

The main content area is titled "Call Home Configuration". It contains several fields:

- Events: Enabled
- Reporting Data-privacy-level: normal
- Reporting Hostname: (empty text box)
- HTTP-Proxy: (empty text box) and Port: 0
- TAC Profile Name: ciscotac-1
- TAC Profile Status: Disabled (indicated by a red arrow)
- Contact person's email address: sch-smart-licensing@cisco.com

Below this is the "Profile" configuration section, which is highlighted with a red box:

- Name: Satellite-1
- Status: Enabled
- Module: sm-license-data
- Reporting Format: xml
- Url: (empty text box)

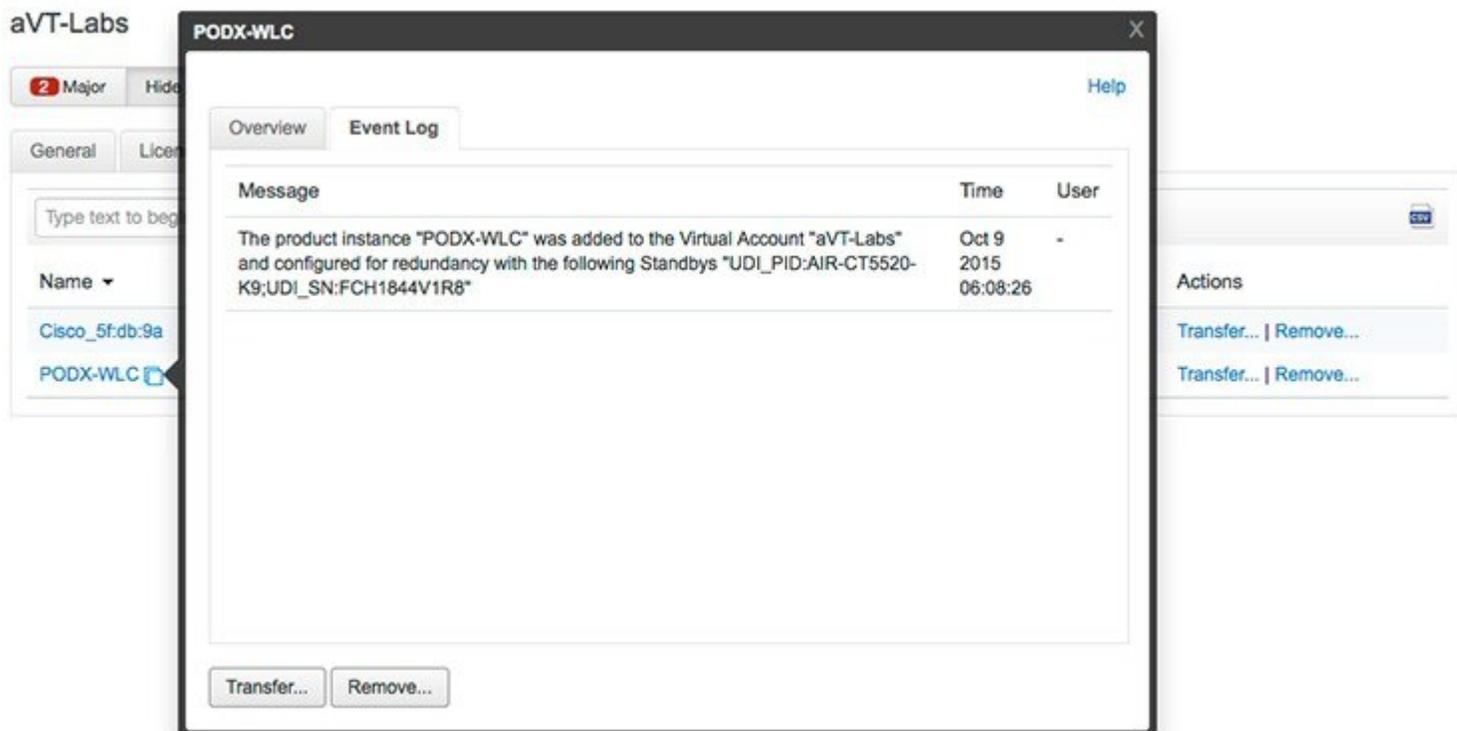
At the bottom of the Profile section is an "Add" button, also indicated by a red arrow. Below that is a "Profile List" table with columns: Profile Name, Module, Reporting Format, and Url.

Smart Licensing HA Support

Smart Licensing is fully supported with the N+1 stateless as well as SSO mode of High Availability.

In the case of SSO, the active controller performs a group registration using the token ID for itself and the Hot Standby Controller. As a result, when a switch over occurs, the Smart Licensing backend is ready for the standby WLC to continue its duties where the active WLC had stopped, satisfying the HA requirements.

A pair of HA controllers can be identified on the CSSM portal by the 'group' icon next to the WLC as shown:



In the case of box RMA, the customer is required to manually remove the WLC from the CSSM web page so that associated entitlements are released back to the pool of licenses on the Customer Smart Account.

CLI Reference

config licensing smart-license	Configures Smart Licensing on WLC
license smart register <token-id>	Register WLC with Smart Licensing
license smart deregister	De-registers the device for smart license
config licensing smart-license dns-server <ip-address>	Configure DNS server IP address for DNS resolution of URLs in call-home profile

show license	<p>all Displays Details Of A Given License.</p> <p>debug-stats Displays Platform Debug Stats of Smart License.</p> <p>statistics Displays Smart Licensing Statistics</p> <p>status Displays License Status.</p> <p>summary Displays Brief Summary Of All License(s).</p> <p>tech-support Displays tech-support details of Licensing.</p> <p>udi Displays UDI Values For Licenses.</p> <p>usage Displays License That Are In-Use.</p>
config call-home	<p>profile Creates a call-home profile</p> <p>reporting Configures the privacy level for data reporting</p> <p>http-proxy Configures the http proxy for reporting</p> <p>events Configures call-home events</p> <p>contact-email-addr Configures call-home contact email address</p> <p>tac-profile Configures call-home tac profile</p>
show call-home summary	Displays configuration on call-home module
show call-home config-local	Displays call-home configuration on WLC
debug license	<p>core Configures Debugging of Licensing Core</p> <p>errors Configures Debugging of Licensing errors</p> <p>events Configures Debugging of Licensing events</p> <p>info Configures Debugging of Licensing info</p>

Reference

Cisco Smart Licensing

http://www.cisco.com/c/en/us/products/abt_sw.html

Cisco Smart Software Manager Satellite

<http://www.cisco.com/go/smartsatellite>

Cisco Smart Software Manager

<http://www.cisco.com/c/en/us/buy/smart-accounts.html>

Cisco Smart Accounts

<http://www.cisco.com/c/en/us/buy/smart-accounts.html>

Cisco Privacy and Security Compliance

http://www.cisco.com/web/about/doing_business/legal/privacy_compliance/index.html

Cisco Transport Gateway

User Guide:http://www.cisco.com/c/dam/en/us/td/docs/switches/lan/smart_call_home/user_guides/SCH_Ch4.pdf

Troubleshooting Guide:http://www.cisco.com/c/dam/en/us/td/docs/switches/lan/smart_call_ho%20me/user_guides/SCH_Ch5.pdf



Americas Headquarters
Cisco Systems, Inc.
San Jose, CA 95134-1706
USA

Asia Pacific Headquarters
CiscoSystems(USA)Pte.Ltd.
Singapore

Europe Headquarters
CiscoSystemsInternationalBV
Amsterdam,TheNetherlands

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at www.cisco.com/go/offices.