



Smart Licensing



Note

Smart Licensing is not supported in Cisco Prime Access Registrar version 9.0 and hence Smart PIDs will not be available for this release.

Smart Licensing is a cloud-based approach to licensing. Cisco Smart Software Licensing helps you to procure, deploy, and manage licenses easily where devices self-register and report license consumption, removing the need for product activation keys (PAKs). It pools license entitlements in a single account and allows you to move licenses freely through the network, wherever you need them.

- 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.

A Smart Software Licensed product, 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 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 easily and quickly in the Cisco Smart Software Manager (CSSM).

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

Cisco Smart Software Manager (CSSM)

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

CSSM can be accessed from the Cisco Software Central homepage at software.cisco.com under the Smart Licensing section.

Smart Licensing Deployment Modes

Smart Licensing comes in following modes and you may choose an appropriate mode based on your security requirements.

- Transfer usage over the Internet to the Cloud server directly from the devices to the cloud via HTTPs.
- 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.
- Use 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.
- 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.

Smart Licensing Configuration

Following steps are involved in Smart Licensing:

1. [Creating a Smart Account](#)
2. [Ordering Cisco Prime Access Registrar Licenses](#)
3. [Registering Prime Access Registrar with CSSM](#)

Creating a Smart Account

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 [Training Resources for Customers, Partners, Distributors, B2B](#).

You can 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>

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 the CSC.

Ordering Cisco Prime Access Registrar Licenses

The process of purchasing Prime Access Registrar licenses remains the same. Existing and newly-purchased licenses can be migrated to Smart Accounts. For enabling Smart Licensing in Prime Access Registrar and migrating traditional licenses to smart licenses follow the instructions mentioned in the [Cisco Prime Access Registrar 9.0 Installation Guide](#).

Adding Licenses to Smart Account

After the licenses have been purchased, you must contact the Cisco Global Licensing Operations team by email, using the template as shown below, with appropriate information to request the migration of your license entitlements to the customer's smart portal. Note that this migration may take up to 72 hours. You must 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: <xyz>

Request: Migrate the following Prime Access Registrar licenses to smart licensing.

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

Smart virtual account name: <xyz>

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

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

PO/SO number:<xyz>

Virtual accounts are sub accounts that you can create inside your 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: <https://www.cisco.com/c/en/us/buy/smart-accounts/software-licensing.html>

Registering Prime Access Registrar with CSSM

A token is required to register the Prime Access Registrar 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.

You can create a registration token in the CSSM. Follow the instructions as explained in <https://www.cisco.com/c/en/us/buy/smart-accounts/software-manager.html>.

You must register the token created in Smart Account with Prime Access Registrar as explained below:

1. Register ID from smart account:

This is done by default with:

```
http://173.37.145.8/its/service/odcce/services/DDCEService
```

Use the following command to register the license using a token ID that was generated in the CSSM system:

```
license smart register <ID token>
```

Example

```
[root@ar-lnx-vm017 bin]# ./aregcmd -L
Cisco Prime Access Registrar 9.0.0.0 Configuration Utility
Copyright (C) 1995-2017 by Cisco Systems, Inc. All rights reserved.
Cluster:
User: admin
Passphrase:
Logging in to localhost
Enter a new passphrase:
Warning: Passphrase length should be atleast 8 characters
Confirm new passphrase:

[ //localhost ]
  LicenseInfo = PAR-TPS 9.0(100TPS:)
  Radius/
  Administrators/

Server 'Radius' is Running, its health is 10 out of 10

--> license smart register idtoken
YTZiN2JiYTMtNjNlNy00NwY3LWI3YTQtYjQ0OWZlNmU1MTgzLTE1MTU5MTQ0%0ANDkwOTF8VHlKR0ZRZEFPUWJKUmR
OZVJ0RFdjbjJFVlhINW5HT2pJU1RvaWlu%0AVEx2ND0%3D%0A
```

**Note**

If you switch from satellite account to smart account, you need to give the call home destination URL of smart account for registration.

2. Register ID from smart satellite account using callhome URL as shown in the example below:

```
--> callhome destination address http
http://<Call home URL>
```

Use the following command to register the license using a token ID that was generated in the CSSM system:

```
license smart register <ID token>
```

Example

```
[root@ar-lnx-vm017 bin]# ./aregcmd -L
Cisco Prime Access Registrar 9.0.0.0 Configuration Utility
Copyright (C) 1995-2017 by Cisco Systems, Inc. All rights reserved.
Cluster:
User: admin
Passphrase:
Logging in to localhost
Enter a new passphrase:
Warning: Passphrase length should be atleast 8 characters
Confirm new passphrase:

[ //localhost ]
  LicenseInfo = PAR-TPS 9.0(100TPS:)
  Radius/
  Administrators/

Server 'Radius' is Running, its health is 10 out of 10
```

```
--> callhome destination address http  
http://10.197.95.174/Transportgateway/services/DeviceRequestHandler
```

```
--> license smart register idtoken  
YTZiN2JiYTMtNjNlNy00NWY3LWI3YTQtYjQ0OWZlNmU1MTgzLTE1MTU5MTQ0%0ANDkwOTF8VH1KR0ZRZEFWUJKUmR  
OZVJ0RFdjbJFV1hINW5HT2pJU1RvaWlu%0AVEx2ND0%3D%0A
```

