

How to Register a Device with a Smart Account (Cloud Connect)

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Introduction

This article describes the process of registering a device with a Smart account via Cloud Connect.

Prerequisites

Requirements

Before you start, ensure that you have the following:

- [Active Cisco.com account](#)
- Smart account user, or Smart account administrator, or Virtual account user, or Virtual account administrator role (To request access to a Smart account or Virtual account, refer to [How to Request Access to an Existing Smart Account](#).)
- Access to the device

Components Used

The information in this document was created from Catalyst 9300 with IOS version 16.12.05b in a specific lab environment. If your network is live, ensure that you understand the potential impact of any command.

Registering a Device with a Smart Account (Cloud Connect)

Step 1:

Go to [Cisco Software Central](#) and log in with your Cisco.com account.



Cisco Software Central

Access everything you need to activate and manage your Cisco Smart Licenses.

Download and manage

Smart Software Manager

Track and manage your licenses. Convert traditional licenses to Smart Licenses.

[Manage licenses >](#)

Download and Upgrade

Download new software or updates to your current software.

[Access downloads >](#)

Traditional Licenses

Generate and manage PAK-based and other device licenses, including demo licenses.

[Access LRP >](#)

Manage Smart Account

Update your profile information and manage users.

EA Workspace

Generate and manage licenses purchased through a Cisco Enterprise Agreement.

Manage Entitlements

eDelivery, version upgrade, and more management functionality is now available in our new portal.

Step 2:

In the **Smart Software Manager** section, click **Manage licenses**.



Cisco Software Central

Access everything you need to activate and manage your Cisco Smart Licenses.

Download and manage

Smart Software Manager

Track and manage your licenses. Convert traditional licenses to Smart Licenses.

[Manage licenses >](#)

Download and Upgrade

Download new software or updates to your current software.

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Traditional Licenses

Generate and manage PAK-based and other device licenses, including demo licenses.

[Access LRP >](#)

[Manage Smart Account](#)

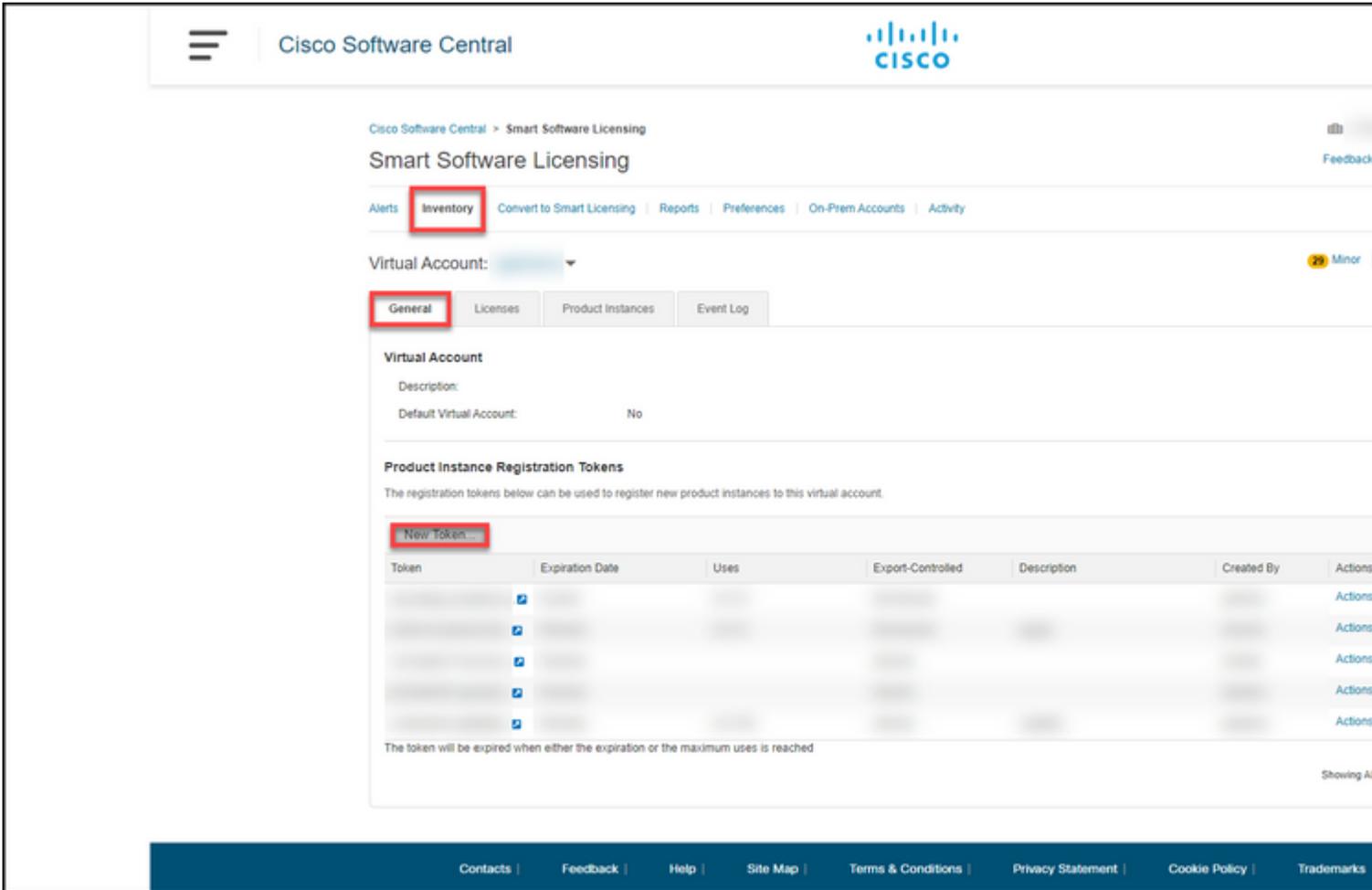
[FA Workspace](#)

[Manage Entitlements](#)

Step 3:

On the **Inventory** tab, select your Virtual account, and then on the **General** tab click the **New Token** button.

Step result: The system displays the **Create Registration Token** dialog box.



Step 4:

In the **Create Registration Token** dialog box, in the **Expire After** field, enter the amount of days after which the registration token expires. Click **Create Token**.

Step result: The system displays a notification message which confirms that you successfully created a token for your Virtual account.

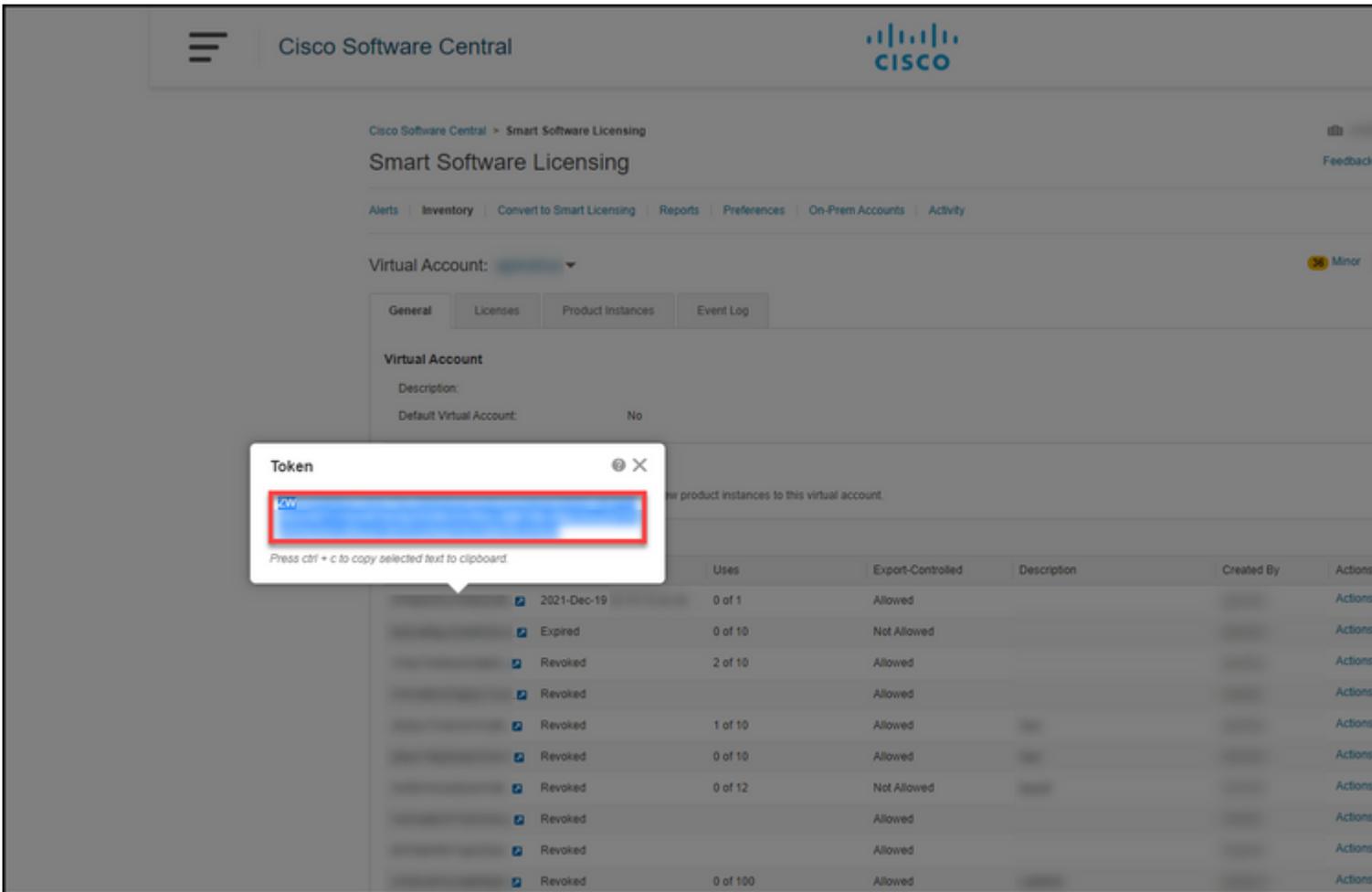
The screenshot shows the Cisco Software Central interface for Smart Software Licensing. A modal dialog box titled "Create Registration Token" is open, overlaying the main content. The dialog contains the following fields and options:

- Virtual Account: [Text input field]
- Description: [Text input field]
- Expire After: **30** Days (The number "30" is highlighted with a red box. Below it, text reads "Between 1 - 365, 30 days recommended".)
- Max. Number of Uses: 10 (Text input field)
- A checkbox labeled "Allow export-controlled functionality on the products registered with this token" is checked.
- A "Create Token" button is located at the bottom right of the dialog.

The background interface shows the "Smart Software Licensing" page with tabs for "General", "Licenses", and "Product Instances". The "Product Instance Registration Tokens" table is visible below the dialog, with columns for Token, Expiration Date, Uses, Export-Controlled, Description, Created by, and Actions. A "New Token..." button is also present.

Step 5:

On the **General** tab, in the **Product Instance Registration Token** table, locate the token that you want to manage. Left-click the North East arrow icon next to the token. The system displays the **Token** dialog box. Press **Ctrl + C** to copy the selected text to clipboard, and then close the dialog box.



Step 6:

Log in to the internetwork operating system (IOS) of the device with the login and password by using one of the clients or console.

Step result: You enter the user EXEC mode of the IOS.

```
- PuTTY
login as:
Keyboard-interactive authentication prompts from server:
| Password:
| End of keyboard-interactive prompts from server

switch >
```

Step 7:

In the user EXEC mode, enter the **enable** command, and then type the password to access the privileged EXEC mode.

Step result: You enter the privileged EXEC mode.

```
- PuTTY
login as:
Keyboard-interactive authentication prompts from server:
| Password:
| End of keyboard-interactive prompts from server

switch >enable
Password:
switch #
```

Step 8:

In the privileged EXEC mode, enter the **show license summary** command.

Step result: The system displays the registration status as *unregistered*.

```
- PuTTY
login as:
Keyboard-interactive authentication prompts from server:
| Password:
| End of keyboard-interactive prompts from server

switch #show license summary
Smart Licensing is ENABLED
Registration:
Status: UNREGISTERED
Export-Controlled Functionality: NOT ALLOWED

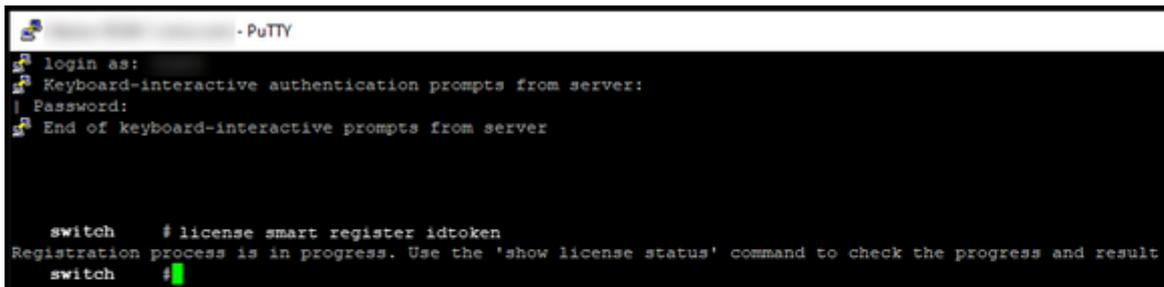
License Authorization:
Status: EVAL EXPIRED

License Usage:
License Entitlement tag Count Status
-----
(C9300-24 Network Advan...) 1 EVAL EXPIRED
(C9300-24 DNA Advantage) 1 EVAL EXPIRED
```

Step 9:

Still in the privileged EXEC mode, enter the **license smart register idtoken {token that you copied to clipboard in Step 5}** command.

Step result: The system initiates the registration process.



The screenshot shows a terminal window titled "- PuTTY". The output is as follows:

```
login as:
Keyboard-interactive authentication prompts from server:
| Password:
| End of keyboard-interactive prompts from server

switch # license smart register idtoken
Registration process is in progress. Use the 'show license status' command to check the progress and result
switch #
```

Step 10:

In the privileged EXEC mode, enter the **show license summary** command.

Step result: The system now displays the registration status as *registered*.

```
- PuTTY
login as:
Keyboard-interactive authentication prompts from server:
Password:
End of Keyboard-interactive prompts from server

switch #show license summary
Smart Licensing is ENABLED

Registration:
Status: UNREGISTERED
Export-Controlled Functionality: NOT ALLOWED

License Authorization:
Status: EVAL EXPIRED

License Usage:
License      Entitlement tag      Count Status
-----
(C9300-24 Network Advan...)  1 EVAL EXPIRED
(C9300-24 DNA Advantage)    1 EVAL EXPIRED

switch #
Registration process is in progress. Use the 'show license status' command to check the progress and result
switch #show license status
Smart Licensing is ENABLED

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: OUT OF COMPLIANCE on
Last Communication Attempt: SUCCEEDED on
Next Communication Attempt:
Communication Deadline:

Export Authorization Key:
Features Authorized:
<none>

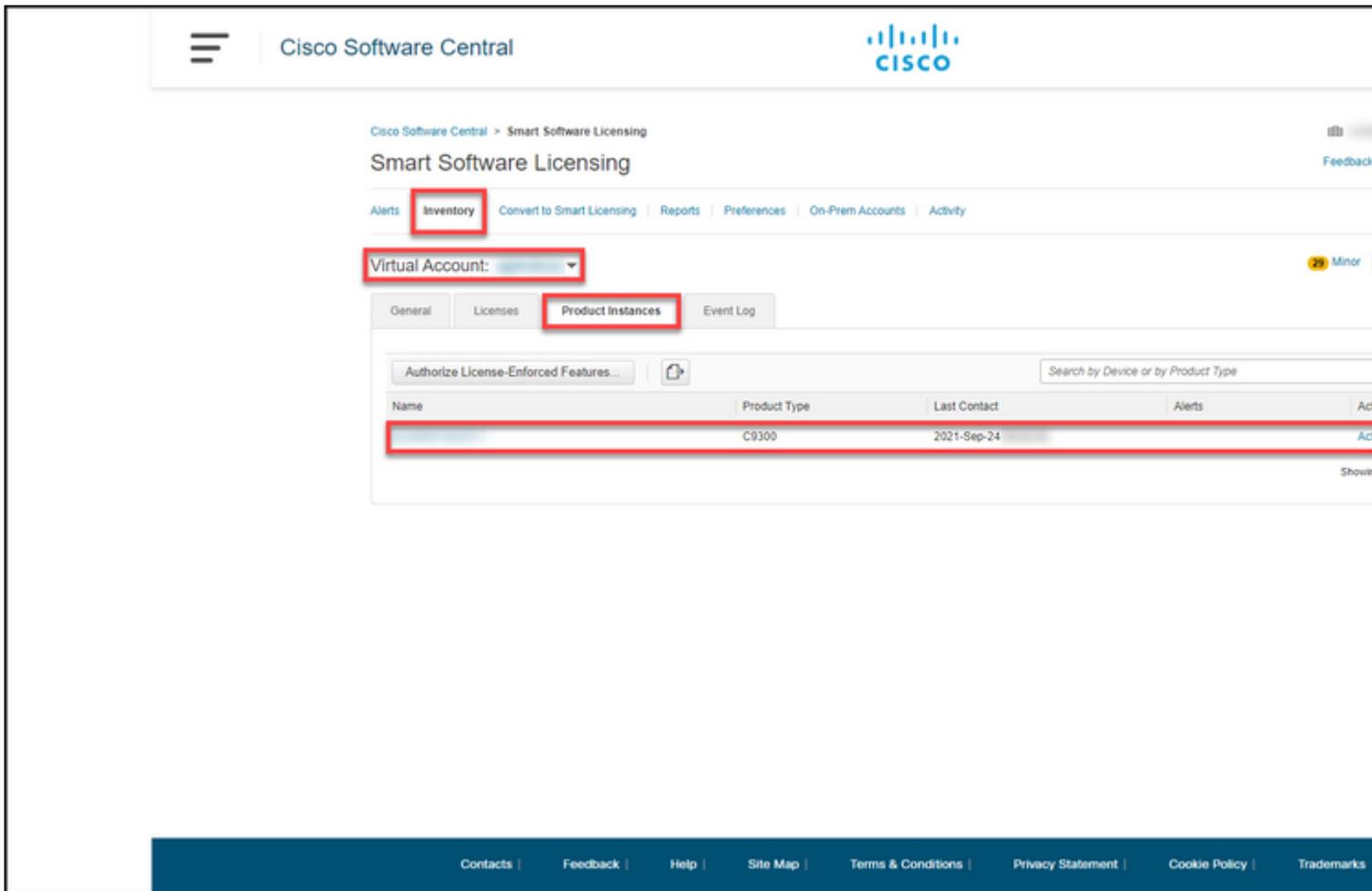
switch #
```

Verify

Use this section to confirm that you successfully registered your device with a Smart account.

Verification Step: On the **Inventory** tab, select your Virtual account, click **Product Instances**, search by device or product type, and then press **Enter**.

Step result: The system displays the product instance of the device you registered.



Troubleshooting

If you experience an issue during the process of registering your device with a Smart account, open a case in [Support Case Manager \(SCM\)](#).

Related Information

[How to Remove a Product Instance \(Cloud Connect\)](#)