Configure Firepower Chassis Manager Registration to a Smart Software Manager On-Prem

Contents

Introduction

Prerequisites

- Requirements
- Components Used

Background Information

Procedure

Verify

Related Information

Introduction

This document describes step-by-step instructions to register a Firepower Chassis Manager (FCM) on Firepower 4100/9300 platforms to a SSM On-Prem.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Firepower Chassis Manager onFirepower 4100/9300 series
- Smart Software Manager (SSM) On-Prem
- Smart licensing model for Firepower products

Components Used

The information in this document is based on these software/hardware versions:

- Firepower Chassis Manager 2.7(1.92)
- Smart Software Manager On-Prem 7

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Background Information

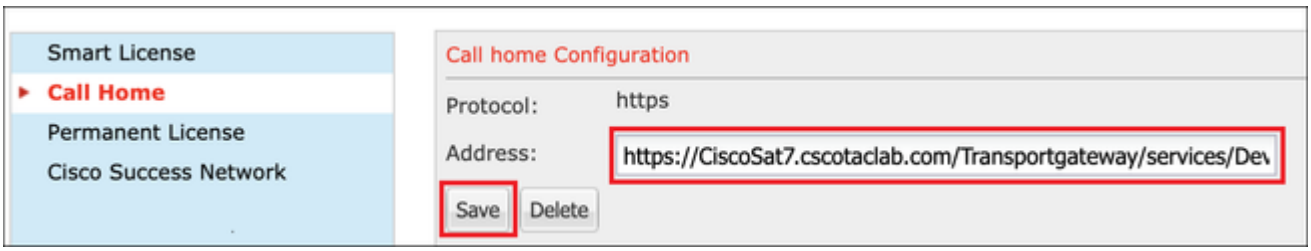
Cisco Smart Software Manager On-Prem (formerly known as Cisco Smart Software Manager satellite) is a component of Cisco Smart Licensing that works in conjunction with Cisco Smart Software Manager. It offers near real-time visibility and reporting of the Cisco licenses you purchase and consume, while giving security-sensitive organizations a way to access a subset of Cisco SSM functionality without using a direct internet connection to manage their install base.

Procedure

Once you have Smart Software Manager On-Prem registered to your smart account, use these steps to register it on the FCM.

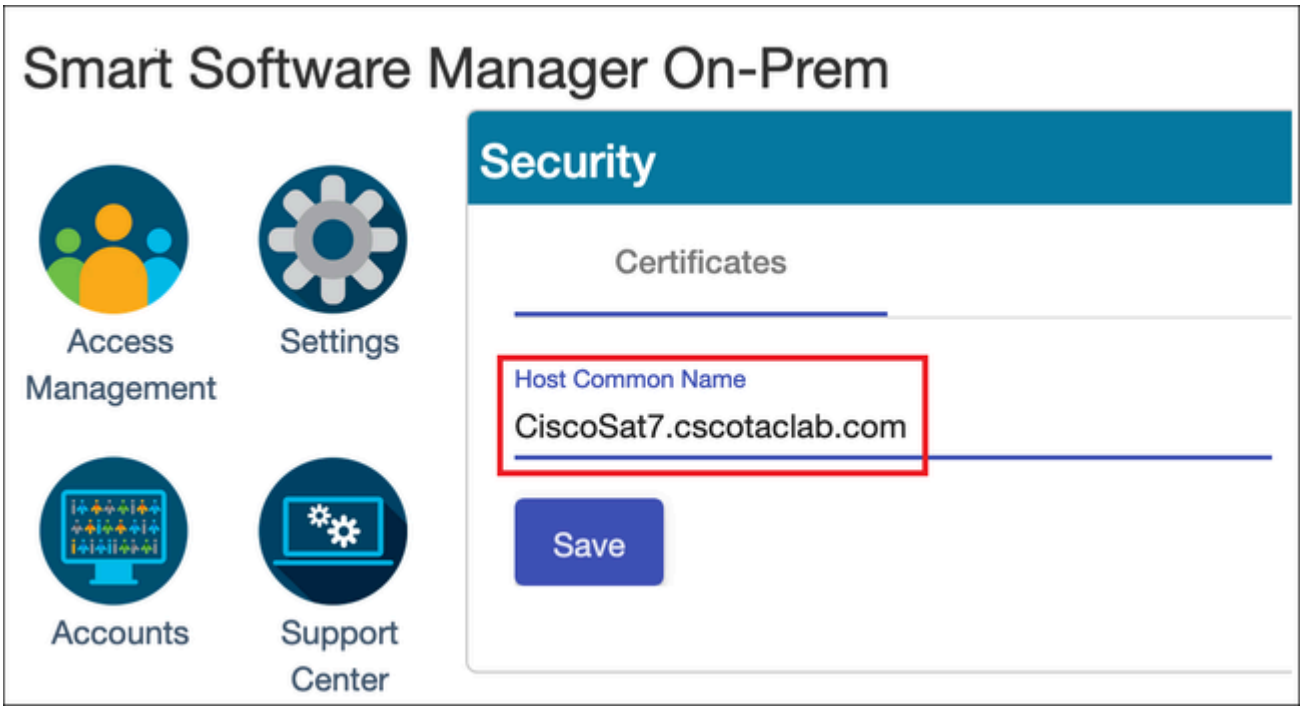
Step 1. On the FCM, navigate to **System > Licensing > Call Home**, edit and save the call home settings using the address:

https://[FQDN of On-Prem server]/Transportgateway/services/DeviceRequestHandler



The Fully Qualified Domain Name (FQDN) of On-Prem server must match the **Host Common Name** configured on the SSM.

To check the configured Host Common Name on the SSM On-Prem 7, log into the **SSM Administration** workspace and navigate to **Security** tab.



Tip: SSM Host Common Name can be also verified using OpenSSL tool command **openssl s_client -connect** [OnPrem server IP]**:443**

<#root>

```
MCPrT:~ user$

openssl s_client -connect



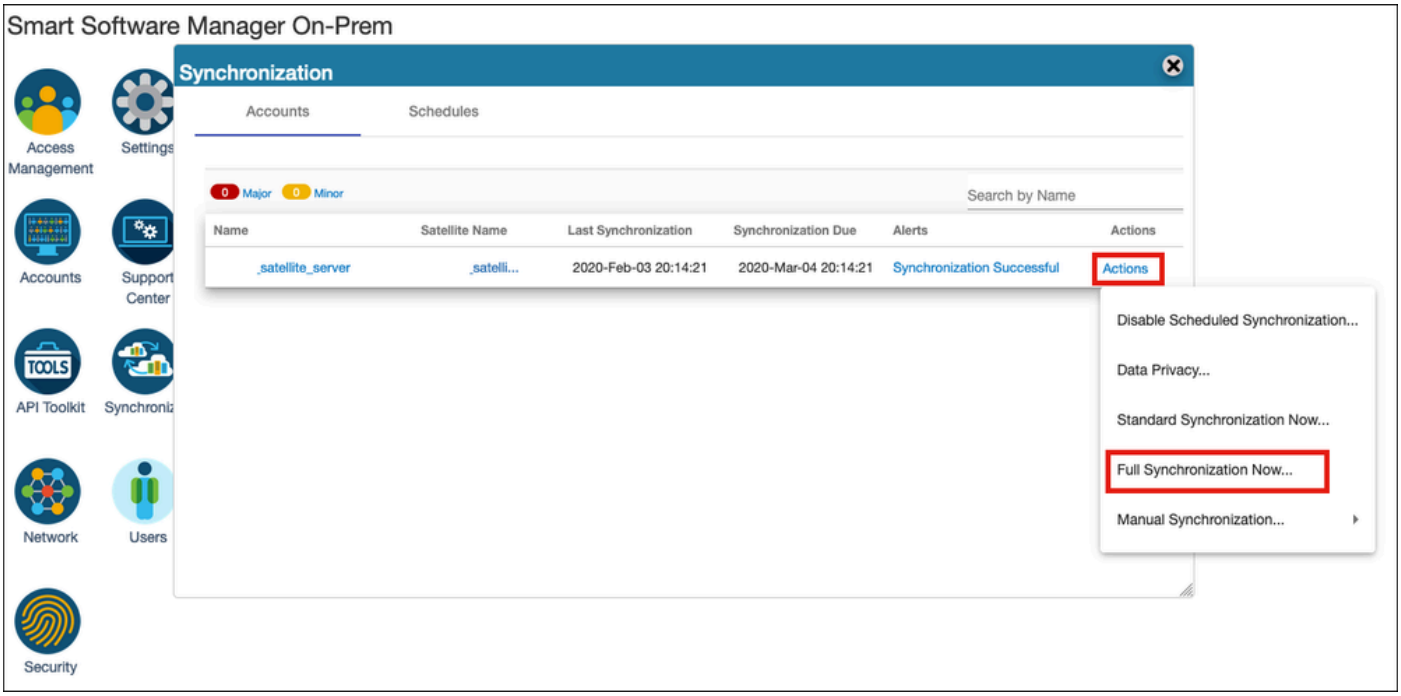
10.48.23.171:443

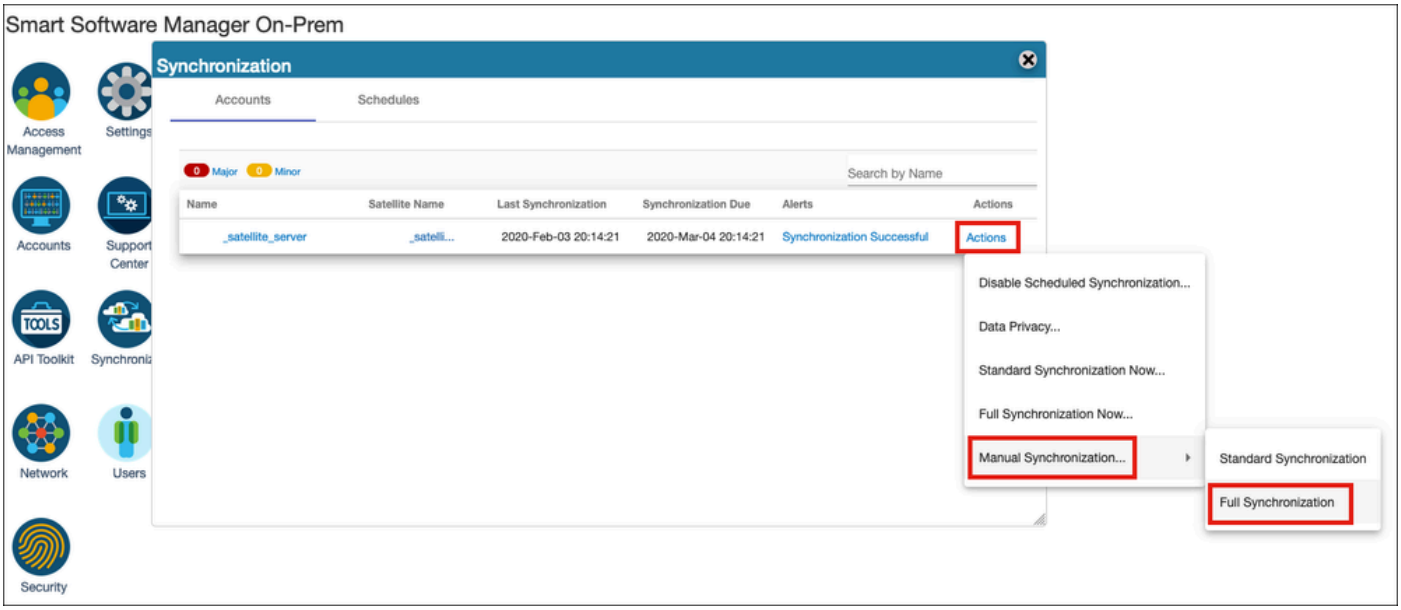

CONNECTED(00000003)
depth=2 O = Cisco, CN = Cisco Licensing Root CA
verify error:num=19:self signed certificate in certificate chain
verify return:0
---
Certificate chain
 0 s:/CN=

CiscoSat7.cscotaclab.com


/OU=TC/C=US/O=Cisco
   i:/C=US/O=Cisco/CN=TG SSL CA
 1 s:/C=US/O=Cisco/CN=TG SSL CA
   i:/O=Cisco/CN=Cisco Licensing Root CA
 2 s:/O=Cisco/CN=Cisco Licensing Root CA
   i:/O=Cisco/CN=Cisco Licensing Root CA
---
[...]
```

Note: In case of Host Common Name change via SSM GUI, synchronize SSM with the OnPrem Account on the Cisco Licensing page using one of the 2 synchronization options:
1. On-Demand Online: assumes there is an Internet connection and is done via Full Synchronization Now..
2. On-Demand Manual: is done via Manual Synchronization > Full Synchronization





Ensure that FQDN is resolved by the DNS server configured on the FCM.

Tip: SSM rechability can be checked on the FCM CLI from the local-mgmt level.

<#root>

```
FPR4110#

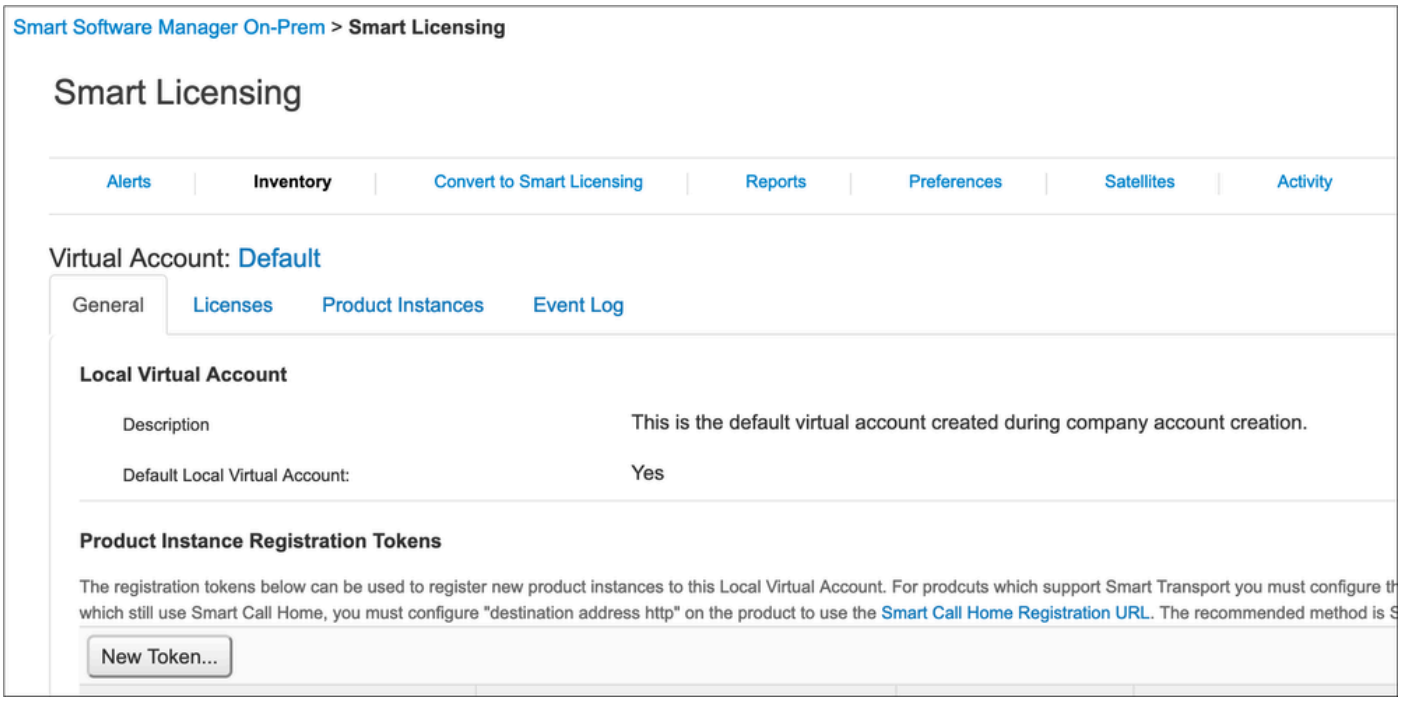
connect local-mgmt

FPR4110(local-mgmt)#

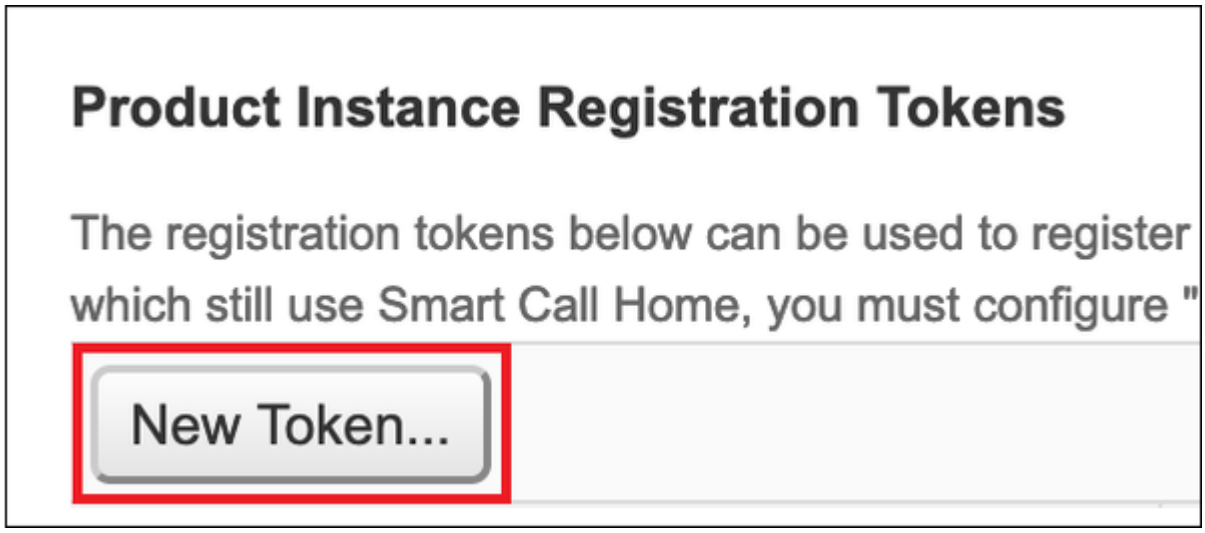
ping CiscoSat7.cscotaclab.com

PING CiscoSat7.cscotaclab.com (10.48.23.171) from 10.62.148.38 eth0: 56(84) bytes of data.
64 bytes from 10.48.23.171: icmp_seq=1 ttl=53 time=47.9 ms
64 bytes from 10.48.23.171: icmp_seq=2 ttl=53 time=47.9 ms
```

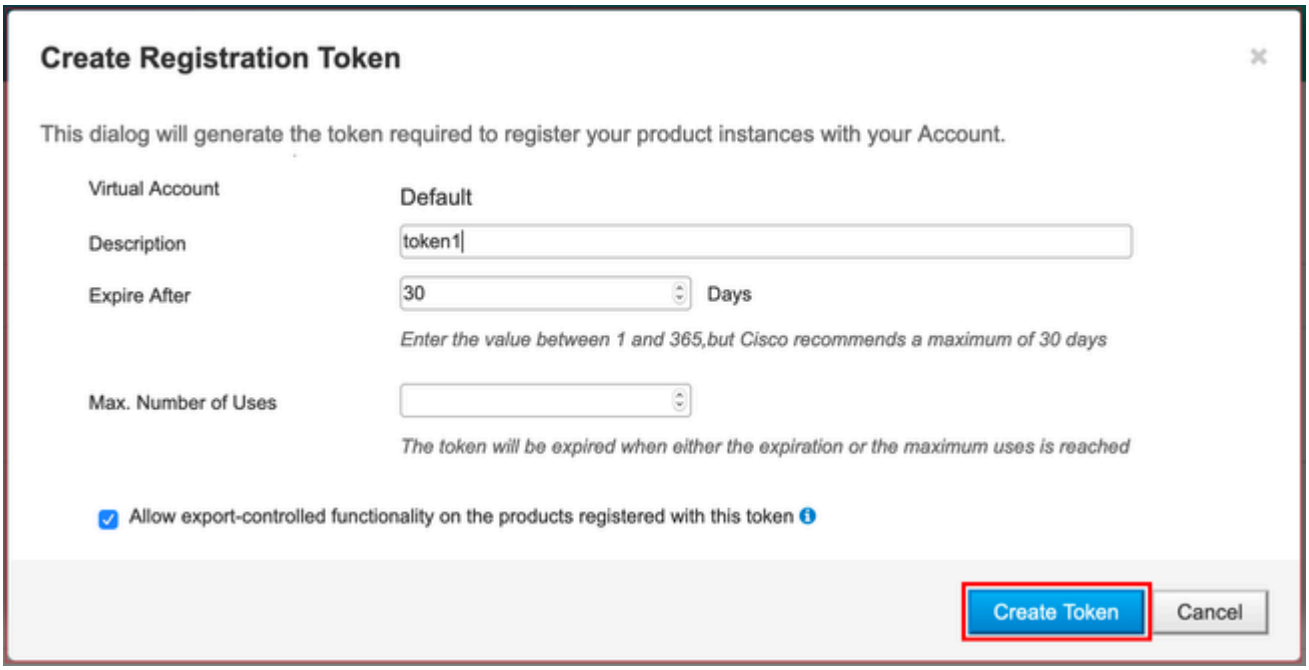
Step 2. Log in to the **SSM On-Prem 7 Licensing** workspace and navigate to **Smart Licensing** > **Inventory** > **General**.



Step 3. Select **New Token** to generate a token.

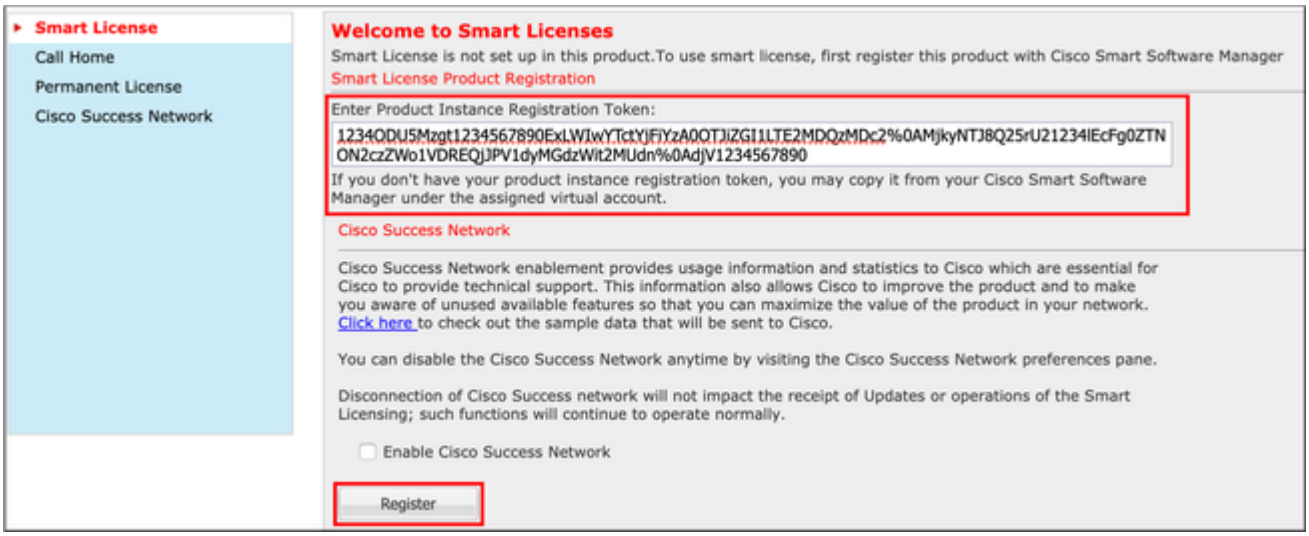


Step 4. Enter **description**, **expiration time** for a token and select **Create Token**.



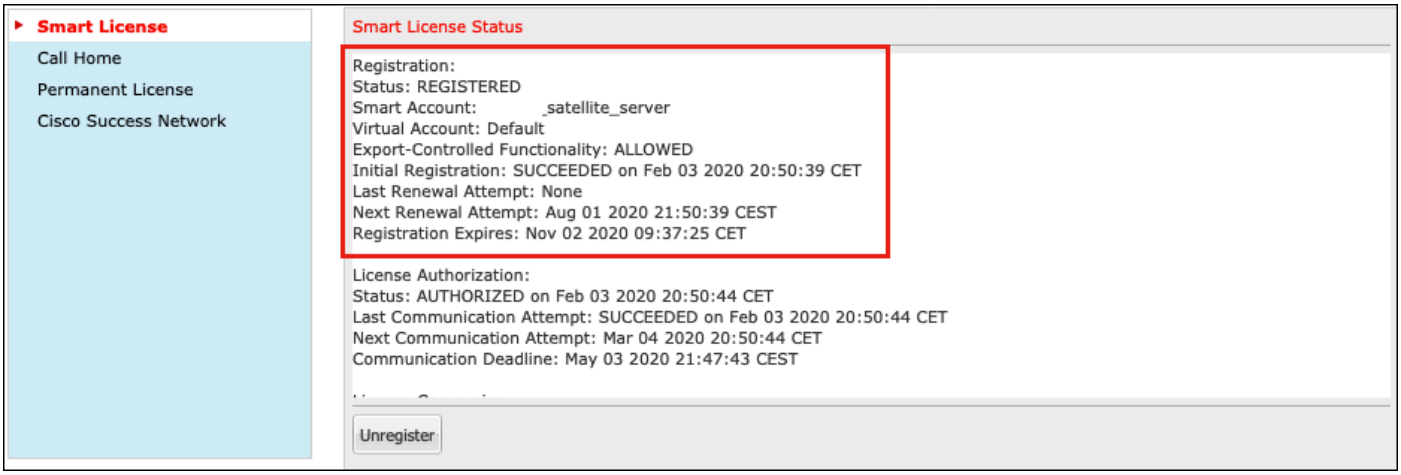
Step 5. Copy the token to the clipboard.

Step 6. Navigate to FCM **System > Licensing > Smart License**, paste the **token** and select **Register**.



Verify

The license status can be confirmed when you navigate to **System > Licensing > Smart License** or run the command **show license techsupport** on the FCM CLI:



<#root>

FPR4110#

show license techsupport

Smart Licensing Tech Support info

Smart Licensing Status
======================

Smart Licensing is ENABLED

Registration:

```
  Status: REGISTERED
  Smart Account: _satellite_server


  Virtual Account: Default
  Export-Controlled Functionality: ALLOWED
  Initial Registration: SUCCEEDED on Feb 03 2020 20:50:39 CET
  Last Renewal Attempt: None
  Next Renewal Attempt: Aug 01 2020 21:50:39 CEST
  Registration Expires: Nov 02 2020 09:37:25 CET

License Authorization:
  Status: AUTHORIZED on Feb 03 2020 20:50:44 CET
  Last Communication Attempt: SUCCEEDED on Feb 03 2020 20:50:44 CET
  Next Communication Attempt: Mar 04 2020 20:50:44 CET
  Communication Deadline: May 03 2020 21:47:43 CEST
[...]
```

Related Information

- Smart Licensing Overview
- Firepower 4100/9300 FXOS Firepower Chassis Manager Configuration Guide
- Smart Software Manager On-Prem User Guide