

Configure Specific License Reservation (SLR) in FMC

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Introduction

This document describes the steps for configuring Specific License Reservation (SLR) in FMC.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Firepower Threat Defense
- Firepower Management Center

Components Used


- Firepower Management Center Virtual 7.4.1
- Firepower Threat Defense Virtual 7.2.5



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.

Prepare FMC for SLR

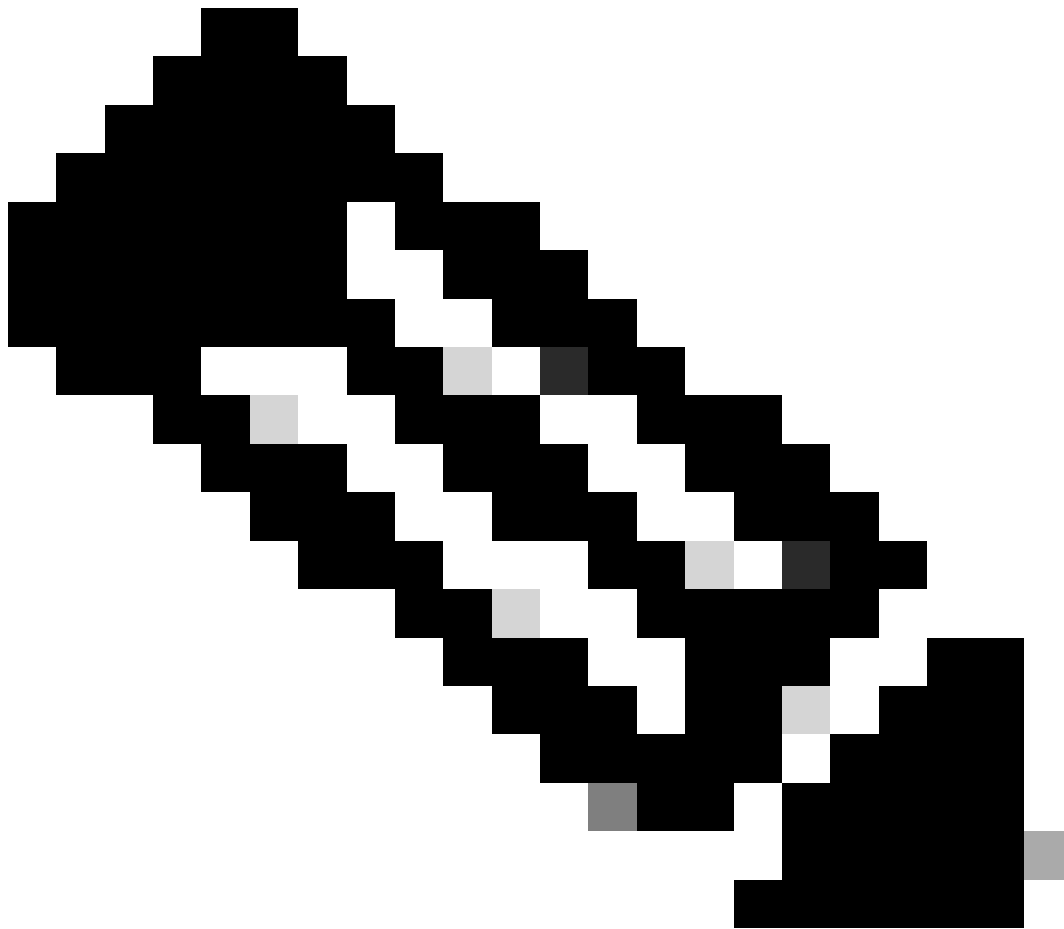
- If you are currently using regular Smart Licensing, de-register the FMC before you implement

Specific License Reservation.

Smart License Status Cisco Smart Software Manager 

Usage Authorization:	 Authorized (Last Synchronized On Jul 17 2024)
Product Registration:	 Registered (Last Renewed On Jul 17 2024)
Assigned Virtual Account:	FPRCDN
Export-Controlled Features:	Enabled

De-register Firewall Management Center from Cisco Smart Software Manager



Note: All Smart Licenses that are currently deployed to the FMC must be returned to the pool of available licenses in your account, and you can re-use them when you implement Specific License Reservation. This operation does not impact the traffic processed by FTD.

- Specific License Reservation uses the same licenses as regular Smart Licensing.
- (Recommended) If you deploy the FMC pair in a high availability configuration, note that you must:

- Configure high availability before you assign licenses. If you already assigned licenses to devices on the secondary FMC, be sure to unassign them.
 - Ensure to unassign license on the primary and secondary FMC before proceeding with specific license reservation.

Verify Smart Account Readiness to Deploy Specific License Reservation

Step 1	Sign in to the Smart Software Manager: https://software.cisco.com/#SmartLicensing-Inventory
Step 2	If applicable, select the correct account from the top right corner of the page.
Step 3	If necessary, click Inventory.
Step 4	Click Licenses.
Step 5	Verify that: <ul style="list-style-type: none"> • There is a License Reservation button. • There are enough platform and feature licenses for the devices and features you must deploy, including FMC entitlements for your devices, if applicable.
Step 6	If any of these items is missing or incorrect, contact your account representative to resolve the problem.




Warning: Do not continue with this process until any problems are corrected.

Configure

Enable Specific Licensing on FMC via CLI

- Log into the FMC CLI **admin** account. Enter the expert command to access the Linux shell.
- Execute the command to access the Specific License Reservation options: **sudo manage_slr.pl**

```
> expert
admin@fmc:~$ sudo manage_slr.pl
Password:  Administrator Password
```

```
***** Configuration Utility *****
```

- 1 Show SLR Status
- 2 Enable SLR
- 3 Disable SLR
- 4 License requirement report
- 0 Exit

```
*****
```

```
Enter choice: █
```


- Enable Specific License Reservation by selecting option **2**. Select option **1** to verify SLR status.

```
***** Configuration Utility *****
```

- 1 Show SLR Status
- 2 Enable SLR
- 3 Disable SLR
- 4 License requirement report
- 0 Exit

```
*****
```

```
Enter choice: 1
```

```
SLR is enabled on FMC 
```

- Select option **0** to exit the manage_slr utility. Type **exit** to exit the Linux shell.
- Refresh the FMC Web Page, Verify that you can access the Specific License Reservation page in the FMC web interface by navigating to **System > Licenses > Specific Licenses**.

Configuration

Users

Domains

Product Upgrades

Content Updates

Licenses

Specific Licenses

Classic Licenses

Health

Monitor

Policy

Events

Exclude

Monitor Alerts

Monitoring

Audit

Syslog

Statistics

Tools

Backup/Restore

Scheduling

Import/Export

Data Purge

Enter the Specific License Reservation Authorization Code into the FMC

- Generate the reservation request code by navigating to **System > Licenses > Specific Licenses**. Click **Generate** and make a note of the **Reservation Request Code**.

Specific License Reservation

Specific License Reservation or SLR allows us to reserve and install licenses in a network that has no path to inbound or outbound internet traffic at all

- 1 Generate a request code
- 2 Create or login into your [Cisco Smart Software Manager](#) account to generate an authorization code against the request code you have just created
- 3 Upload the authorization code file (.txt) and Install
 No file chosen

Specific License Reservation

Specific License Reservation or SLR allows us to reserve and install licenses in a network that has no path to inbound or outbound internet traffic at all

1 Generate a request code

CD-PFS-VMW-SW-K9,S3,U402d4a28-44e0-11e

2 Create or login into your [Cisco Smart Software Manager](#) account to generate an authorization code against the request code you have just created

3 Upload the authorization code file (.txt) and Install

No file chosen

- Generate the reservation authorization code. Go to the [Smart Software Manager](#).
- Navigate to **Inventory > Licenses > License Reservation**, Enter the code that you generated from the FMC into the **Reservation Request Code** box. Click **Next**.

Smart License Reservation

STEP 1 Enter Request Code

STEP 2 Select Licenses

STEP 3 Review and Confirm

STEP 4 Authorization Code

You can reserve licenses for product instances that cannot connect to the Internet for security reasons. You will begin by generating a Reservation Request Code from the product instance. To learn how to generate this code, see the configuration guide for the product being licensed.

Once you have generated the code:

- 1) Enter the Reservation Request Code below
- 2) Select the licenses to be reserved
- 3) Generate a Reservation Authorization Code
- 4) Enter the Reservation Authorization Code on the product instance to activate the features

* Reservation Request Code:

- Select **Reserve a specific license**. Scroll down and enter the number of each platform and feature license needed for your deployment under **Quantity To Reserve**. Click **Next**.

Smart License Reservation



STEP 1 ✓ Enter Request Code	STEP 2 Select Licenses	STEP 3 Review and Confirm	STEP 4 Authorization Code
--------------------------------	---------------------------	------------------------------	------------------------------

FPR4150 Threat Defense URL Filtering <small>FPR4150 Threat Defense URL Filtering</small>	2025-Aug-05	10	10	0
FTDv Base 16 Gbps <small>Cisco Firepower Threat Defense Virtual Base License, 16 Gbps</small>	2024-Nov-19	50	48	2
FTDv Malware 16 Gbps <small>Cisco Firepower Threat Defense Virtual Malware License, 16 Gbps</small>	2024-Nov-19	50	48	2
FTDv Threat Protection 16 Gbps <small>Cisco Firepower Threat Defense Virtual Threat Protection License, 16 Gbps</small>	2024-Nov-19	50	48	2
FTDv URL Filtering 16 Gbps <small>Cisco Firepower Threat Defense Virtual URL Filtering License, 16 Gbps</small>	2024-Nov-19	50	48	2
Firepower MCv Device License <small>Firepower MCv Device License</small>	2025-Jan-07	5185	5184	1
Firepower MCv-300 Device License <small>Cisco Firepower Management Center for 300 devices</small>	2025-Feb-23	15000	15000	0
Firepower Threat Defense Base Features <small>Firepower Threat Defense Base Features</small>	- never -	0	unlimited	0

Cancel Next

- Click **Generate Authorization Code**. Download the Authorization Code in preparation for entering it into the FMC.

Smart License Reservation



STEP 1 ✓ Enter Request Code	STEP 2 ✓ Select Licenses	STEP 3 ✓ Review and Confirm	STEP 4 Authorization Code
--------------------------------	-----------------------------	--------------------------------	------------------------------

UDI PID: FS-VMW-SW-K9
UDI Serial Number: 3
UUID: d4cd32d6-da7f-11ee-840e-b88231b3fd47

Authorization Code:

```
<specificPLR><authorizationCode><flag>A</flag><version>D</version><piid>6b06fba5-c272-4afa-852e-de92b548a3ab</piid><timestamp>1721257985935</timestamp><entitlements><entitlement><tag>regid.2015-02.com.cisco.FPRMCv-DEV,1.0_ddc8a630-4857-4590-823d-c9a38bb6681c</tag><count>2</count><startDate>2022-Apr-14 UTC</startDate><endDate>2025-Jan-07 UTC</endDate><licenseType>TERM</licenseType><displayName>Firepower MCv Device License</displayName><tagDescription>Firepower MCv Device License</tagDescription><subscriptionID></subscriptionID></entitlement><entitlement><tag>regid.2015-05.com.cisco.FPRTD-BASE,1.0_561236dd-931d-4642-a391-54fa937a9947</tag><count>2</count><startDate></startDate><endDate></endDate><licenseType>PERPETUAL</licenseType><displayName>Firepower Threat Defense Base Features</displayName><tagDescription>Firepower Threat Defense Base Features</tagDescription><subscriptionID></subscriptionID></entitlement><entitlement><tag>regid.2015-02.com.cisco.FTDv-
```

To learn how to enter this code, see the configuration guide for the product being licensed

Download as File Copy to Clipboard Close

- Enter the authorization code in the FMC. In the FMC, click **Browse** to upload the text file with the authorization code that you generated from the Smart Software Manager.
- Click **Install**.




3 Upload the authorization code file (.txt) and Install

Choose File AuthorizationCode_SN_3(5).txt

Install

- Verify that the **Specific License Reservation** page shows the **Usage Authorization** status as authorized.

Specified License Reservation Status

Usage Authorization:		Authorized (Last Synchronized On Jul 18 2024)
Product Registration:		Registered (Last Renewed On Jul 18 2024)
Export-Controlled Features:		Enabled
Product Instance:		<input type="text" value="402d4a28-44e0-11ef-b394-4712f25a82da"/>
Confirmation Code *:		<input type="text" value="67f1c6eb"/>

* This confirmation code is generated against your last authorization code


- Click the **Reserved License** tab to verify the licenses selected while generating the **Authorization Code**.

Assign Specific Licenses to Managed Devices

- Choose **System > Licenses > Specific Licenses**. Click **Edit Licenses**.
- Assign licenses to devices as needed, click **Apply**.

Edit Licenses


Malware Defense
IPS
URL
Carrier
Secure Client Premier
Secure Client Advantage
Secure Client VPN Only


Devices without license 

FTD-Test

ftd.breakstuff.com

Devices with license (2)

FTD-Test 

ftd.breakstuff.com 

- Click the **Assigned Licenses** tab and verify that your licenses are correctly installed on each device.

License Type/Device Name	License Status	Device Type	Domain	Group
Firewall Management Center Virtual (2)	In-Compliance			
Essentials (2)	In-Compliance			
Malware Defense (2)	In-Compliance			
IPS (2)	In-Compliance			
URL (2)	In-Compliance			
Center (0)				
Secure Client Premier (0)				
Secure Client Advantage (0)				
Secure Client VPN Only (0)				

Manage Specific License Reservation

- In the FMC, obtain the unique product instance identifier of this FMC, navigate to **System > Licenses > Specific Licenses**.
- Make a note of the **Product Instance** value.

Specified License Reservation Status

Usage Authorization:	✓	Authorized (Last Synchronized On Jul 18 2024)
Product Registration:	✓	Registered (Last Renewed On Jul 18 2024)
Export-Controlled Features:		Enabled
Product Instance:	ⓘ	402d4a28-44e0-11ef-b394-4712f25a82da
Confirmation Code *:		297a78fc

* This confirmation code is generated against your last authorization code

- In the Smart Software Manager, identify the FMC to update. Go to the [Smart Software Manager](#).
- Navigate to **Inventory > Product Instances**, Look for a product instance that has **FP** in the **Type** column and a generic SKU (not a hostname) in the **Name** column.

Virtual Account: [FPRCDN](#)

91 Major | 385 Minor | Hide Alerts

General		Licenses	Product Instances	Event Log
Authorize License-Enforced Features...				FP
Name	Product Type	Last Contact	Alerts	Actions
UDI_PID:FPR-1140; UDI_SN:JMX2324G19P;	FP	2024-Apr-01 17:36:09	Failed to Renew	Actions
UDI_PID:FPR-1140; UDI_SN:JMX2324G19Q;	FP	2024-Apr-25 19:02:18	Failed to Connect	Actions
UDI_PID:FPR-2110; UDI_SN:JMX2538X1M1;	FP	2024-Jan-04 21:08:36	Failed to Renew	Actions
UDI_PID:FPR-2130; UDI_SN:JMX2139Y0K5;	FP	2024-Jul-18 11:41:39		Actions
UDI_PID:FS-VMW-SW-K9; UDI_SN:3;	FP	2024-Jul-18 17:35:39 (Reserved Licenses)		Actions
UDI_PID:NGFWv; UDI_SN:9A6NGBM4MQ3;	FP	2024-Apr-01 19:56:37	Failed to Renew	Actions
UDI_PID:NGFWv; UDI_SN:9A9G12GAFES;	FP	2024-Jul-18 12:40:33		Actions
UDI_PID:NGFWv; UDI_SN:9AVJWWJ8EJK;	FP	2024-Feb-06 11:16:11	Failed to Renew	Actions
vFMC-bhaston.cisco.com	FP	2024-Jan-22 19:21:03	Failed to Renew	Actions
Vik-FMC	FP	2024-Jul-04 08:39:02		Actions

100 | Showing Page 1 of 1 (92 Records)

- Click the **Name**. On the page that shows the correct UUID, choose **Actions > Update Reserved Licenses**.

License Usage

These licenses are reserved on this product instance [Update reservation](#)

License	Billing	Expires	Required
Firepower MCV Device License	Prepaid	2025-Jan-07	1

Showing 1 Record

- Update the reserved licenses as needed, click **Generate Authorization Code** and download the Authorization Code in preparation for entering it into the FMC.
- Leave the **Update Reservation** page open. You can return to it later in this procedure.
- Update the Specific Licenses in the FMC. Choose **System > Licenses > Specific Licenses**, click **Edit SLR** and browse to upload the newly generated authorization code.

Specified License Reservation Status



Usage Authorization: ✔ Authorized (Last Synchronized On Jul 18 2024)

Edit Authorizarion Code

Upload the authorization code file (.txt) and Install

Choose File No file chosen

Close

Install

- After successful installation of the authorization code, make a note of the **Confirmation Code**.
- Enter the confirmation code in the Smart Software Manager on the **Update Reservation** page that is intentionally left open.

Update License Reservation

STEP 1 ✓
Select Licenses

✓ The Reservation Authorization Code

1. This code must be entered into the
2. When the code has been entered,
3. To release licenses in transition, e

Authorization Code:

```
<specificPLR><authorizationCode><flag>  
timestamp<entitlements><entitlement><  
startDate><endDate>2025-Jan-07 UTC</en  
date><licenseType>TERM</licenseType>  
License</tagDescription><subscriptionID></entitlement><entitlement><tag>regid.2015-11.com.cisco.FPR4150TD-AMP.1.0_4408ba5c-bef5-4e79-81a5-77dedabb872</  
tag><count>1</count><startDate>2022-Nov-10 UTC</startDate><endDate>2025-Aug-05 UTC</endDate><licenseType>TERM</licenseType><displayName>FPR4150 Threat Defense Malware  
Protection</displayName><tagDescription>FPR4150 Threat Defense Malware Protection</tagDescription><subscriptionID></subscriptionID></
```

To learn how to enter this code, see the configuration guide for the product being licensed

Download as File Copy to Clipboard **Enter Confirmation Code** Close

- In the FMC, verify that your licenses are reserved as you expect them.

Deactivate and Return the Specific License Reservation

If you no longer need a specific license, you must return it to your Smart Account. If you want to register your Smart Licensing account, you must disable the Specific License Reservation.

This procedure releases all license entitlements associated with the FMC back to your virtual account. After you de-register, no updates or changes on licensed features are allowed.



Warning: If you do not follow all of the steps in this procedure, the license remains in an in-use state and cannot be re-used.

- In the FMC Web interface, select **System > Licenses > Specific Licenses**.

Specified License Reservation Status



Return SLR

Usage Authorization:	✓ Authorized (Last Synchronized On Jul 18 2024)
Product Registration:	✓ Registered (Last Renewed On Jul 18 2024)
Export-Controlled Features:	Enabled
Product Instance:	<input type="text" value="402d4a28-44e0-11ef-b394-4712f25a82da"/>
Confirmation Code *:	<input type="text" value="d3262fe7"/>

* This confirmation code is generated against your last authorization code

- Make a note of the **Return Code**.

Specific License Reservation

Specific License Reservation or SLR allows us to reserve and install licenses in a network that has no path to inbound or outbound internet traffic at all

- 1 Generate a request code
- 2 Create or login into your [Cisco Smart Software Manager](#) account to generate an authorization code against the request code you have just created
- 3 Upload the authorization code file (.txt) and Install

No file chosen
- 4 Cisco Smart Software Manager and use the Return Code to release your licenses.

CJ5oPL-kovwbd-bZnS3u-Tp95qB-G3UTXn-mPni

←

- In the Smart Software Manager, identify the FMC to update, Go to the [Smart Software Manager](#).
- Navigate to **Inventory > Product Instances**, Look for a product instance that has **FP** in the **Type** column and a generic SKU (not a hostname) in the **Name** column.
- On the page that shows the correct UUID, choose **Actions > Remove**.

General Licenses **Product Instances** Event Log

Authorize License-Enforced Features...

Name	Product Type	Last Contact	Alerts	Actions
UDI_PID:FPR-1140; UDI_SN:JMX2324G19P;	FP	2024-Apr-01 17:36:09	Failed to Renew	Actions
UDI_PID:FPR-1140; UDI_SN:JMX2324G19Q;	FP	2024-Apr-25 19:02:18	Failed to Connect	Actions
UDI_PID:FPR-2110; UDI_SN:JMX2538X1M1;	FP	2024-Jan-04 21:08:36	Failed to Renew	Actions
UDI_PID:FPR-2130; UDI_SN:JMX2139Y0K5;	FP	2024-Jul-18 11:41:39		Actions
UDI_PID:FS-VMW-SW-K9; UDI_SN:3;	FP	2024-Jul-18 18:17:57 (Reserved Licenses)		Actions
UDI_PID:NGFWv; UDI_SN:9A6NGBM4MQ3;	FP	2024-Apr-01 19:56:37	Failed to	Transfer...
UDI_PID:NGFWv; UDI_SN:9A9G12GAFES;	FP	2024-Jul-18 12:40:33		Update Reserved Licenses...
UDI_PID:NGFWv; UDI_SN:9AVJWWJ8EJK;	FP	2024-Feb-06 11:16:11	Failed to	Enter Confirmation Code...
vFMC-bheston.cisco.com	FP	2024-Jan-22 19:21:03	Failed to	Remove...
Vik-FMC	FP	2024-Jul-04 08:39:02	Failed to	Rehost Licenses from a Failed Product...

100 Showing Page 1 of 1 (92 Records)

- Enter the reservation return code that you generated from the FMC into the **Remove Product Instance** dialog box.



Remove Reservation

To remove a Product Instance that has reserved licenses and make those licenses once again available to other Product Instances, enter in the Reservation Return Code generated by the Product Instance. If you cannot generate a Reservation Return Code, contact [Cisco Support](#)

* **Reservation Return Code:**

```
CJ5oPL-kovwbd-bZnS3u-Tp95qB-G3UTXn-  
mPnteX-w6SYd1-QcSGPq-pfA|
```


Remove Reservation

Cancel

- The specific reserved licenses are returned to the available pool in your Smart Account and this FMC is removed from the Smart Software Manager Product Instances list.

Disable the Specific License in the FMC Linux Shell

- Log into the FMC CLI **admin** account, Enter the expert command to access the Linux shell.
- Execute the command to access the Specific License Reservation options: **sudo manage_slr.pl**

```
> expert  
admin@fmc:~$ sudo manage_slr.pl  
Password:  Administrator Password
```

```
***** Configuration Utility *****
```

- 1 Show SLR Status
- 2 Enable SLR
- 3 Disable SLR
- 4 License requirement report
- 0 Exit

```
*****
```

Enter choice:

- Disable Specific License Reservation by selecting option **3**. Select option **0** to exit.

```
***** Configuration Utility *****
```

- 1 Show SLR Status
- 2 Enable SLR
- 3 Disable SLR
- 4 License requirement report
- 0 Exit

```
*****
```

Enter choice: 3

Successfully Disabled SLR

- Enter **exit** to exit the Linux shell.
- Enter **exit** to exit the command line interface.

Related Information

- [Cisco Secure Firewall Management Center Feature Licenses](#)