

在FMC中配置特定许可证保留(SLR)

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简介

本文档介绍在FMC中配置特定许可证保留(SLR)的步骤。

先决条件

要求

Cisco 建议您了解以下主题：

- Firepower威胁防御
- Firepower 管理中心

使用的组件

- Firepower管理中心虚拟7.4.1
- Firepower威胁防御虚拟7.2.5

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您的网络处于活动状态，请确保您了解所有命令的潜在影响。

为SLR准备FMC

- 如果您当前使用的是常规智能许可，请在实施特定许可证预留之前取消注册FMC。

Smart License Status

Cisco Smart Software Manager 

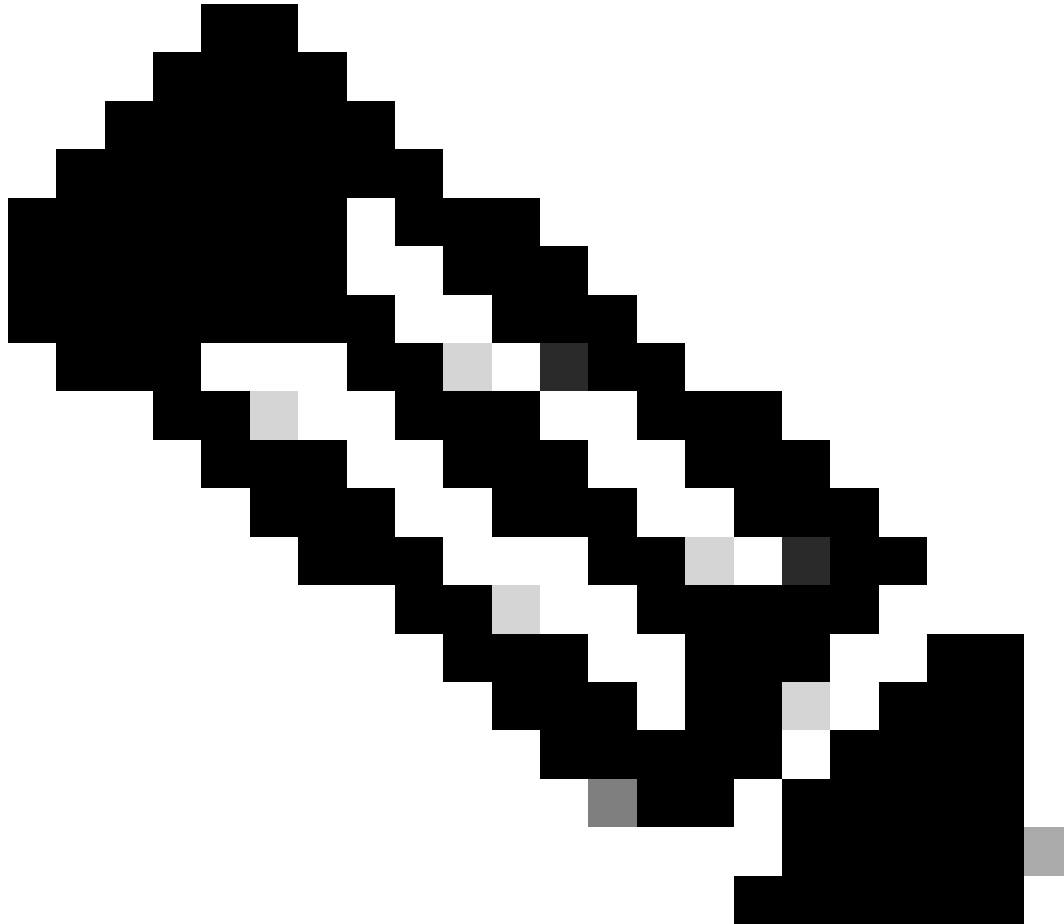
Usage Authorization:  Authorized (Last Synchronized On Jul 17 2024)

De-register Firewall Management Center from Cisco Smart Software Manager

Product Registration:  Registered (Last Renewed On Jul 17 2024)

Assigned Virtual Account: FPRCDN

Export-Controlled Features: Enabled



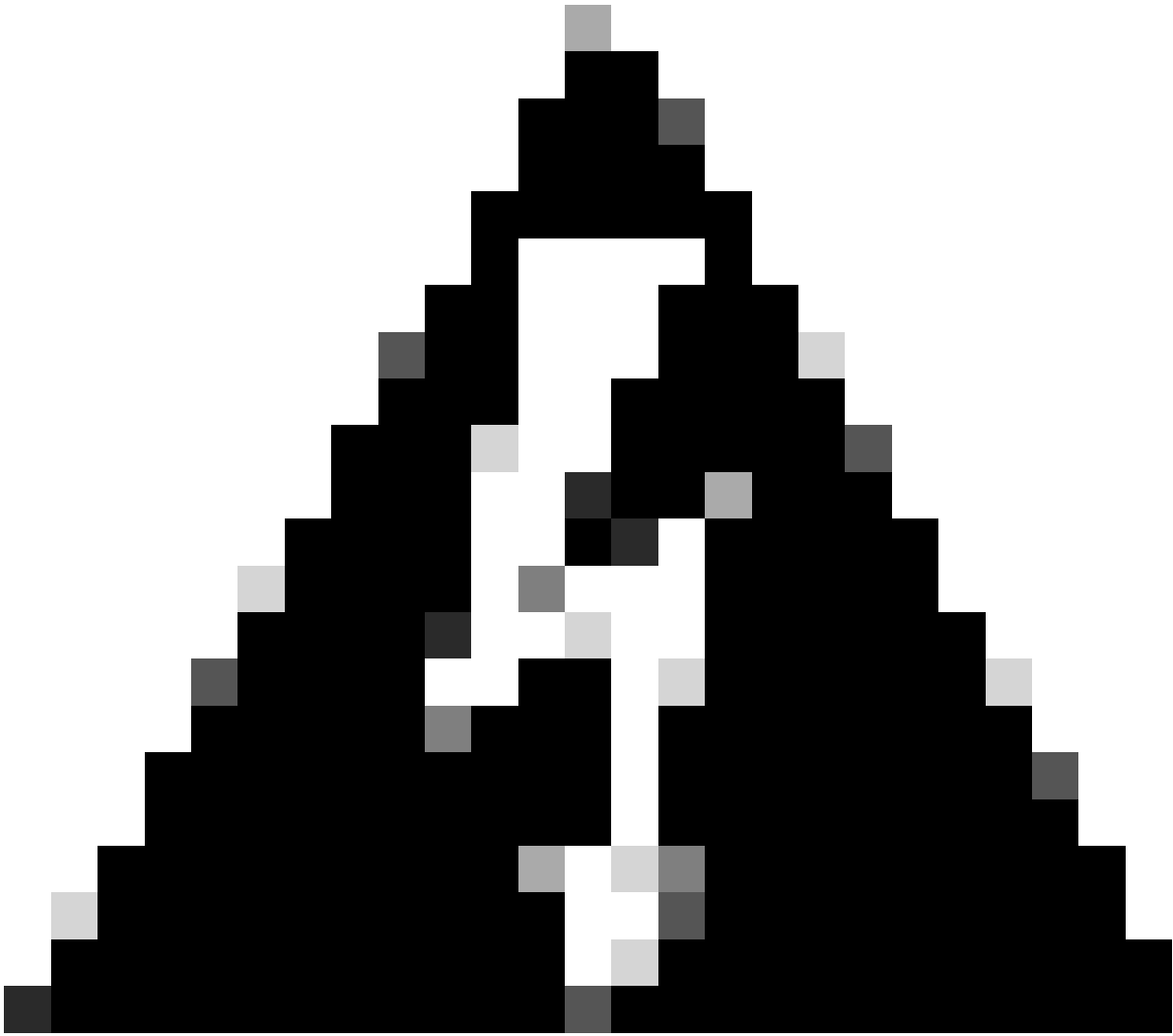
注意：当前部署到FMC的所有智能许可证必须返回到帐户中的可用许可证池，并且可以在实施特定许可证预留时重新使用它们。此操作不会影响FTD处理的流量。

- 特定许可证预留使用与常规智能许可相同的许可证。
- (建议) 如果在高可用性配置中部署FMCpair，请注意必须：
 - 在分配许可证之前配置高可用性。如果已向secondaryFMC上的设备分配许可证，请确保取消分配许可证。

- 。在继续特定许可证预留之前，请确保在主和辅助FMC上取消分配许可证。

验证智能帐户就绪性，以部署特定许可证预留

第 1 步	登录到智能软件管理器： https://software.cisco.com/#SmartLicensing-Inventory
步骤 2	如果适用，请从页面右上角选择正确的帐户。
步骤 3	如有必要，请点击Inventory。
步骤 4	点击许可证(Licenses)。
步骤 5	检验： <ul style="list-style-type: none">• 有aLicense Reservationbutton。• 对于您必须部署的设备和功能(包括设备的FMC权利，如果适用)，有充足的平台和功能许可证。
步骤 6	如果其中任何一项缺失或不正确，请与您的客户代表联系以解决问题。



警告：更正任何问题之前，不要继续此过程。

配置

通过CLI在FMC上启用特定许可

- 登录FMC CLI admin帐户。输入expert命令访问Linux Shell。
- 执行命令以访问特定许可证预留选项：`sudo manage_slr.pl`

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

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

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

```
*****
```

```
Enter choice: 
```

- 通过选择选项2启用特定许可证保留。选择选项1以验证SLR状态。

```
***** 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 
```

- 选择选项0以退出manage_slr实用程序。键入exit退出Linux shell。
- 刷新FMC网页，验证您是否可以访问FMC Web界面中的Specific License Reservation页面，方法是导航至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

在FMC中输入特定许可证预留授权码(Specific License Reservation Authorization Code)

- 导航到System > Licenses > Specific Licenses生成预留请求代码。单击Generate并记下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

Generate

Cancel 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

Choose File No file chosen

Install

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

- 生成预留授权码。转到[智能软件管理器](#)。
- 导航到资产>许可证>许可证预留，将您从FMC生成的代码输入到预留请求代码框中。单击 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:

- 选择Reserve a specific license。向下滚动，在Quantity To Reserve下输入部署所需的每个平台和功能许可证的数量。单击 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	<input type="text" value="0"/>
FTDv Base 16 Gbps <small>Cisco Firepower Threat Defense Virtual Base License, 16 Gbps</small>	2024-Nov-19	50	48	<input type="text" value="2"/>
FTDv Malware 16 Gbps <small>Cisco Firepower Threat Defense Virtual Malware License, 16 Gbps</small>	2024-Nov-19	50	48	<input type="text" value="2"/>
FTDv Threat Protection 16 Gbps <small>Cisco Firepower Threat Defense Virtual Threat Protection License, 16 Gbps</small>	2024-Nov-19	50	48	<input type="text" value="2"/>
FTDv URL Filtering 16 Gbps <small>Cisco Firepower Threat Defense Virtual URL Filtering License, 16 Gbps</small>	2024-Nov-19	50	48	<input type="text" value="2"/>
Firepower MCv Device License <small>Firepower MCv Device License</small>	2025-Jan-07	5185	5184	<input type="text" value="1"/>
Firepower MCv-300 Device License <small>Cisco Firepower Management Center for 300 devices</small>	2025-Feb-23	15000	15000	<input type="text" value="0"/>
Firepower Threat Defense Base Features <small>Firepower Threat Defense Base Features</small>	- never -	0	unlimited	<input type="text" value="0"/>

- 点击Generate Authorization Code。 下载授权码，准备将其输入到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

- 在FMC中输入授权码。在FMC中，点击浏览器以上传文本文件，其中包含从智能软件管理器生成的授权代码。
- 单击安装。




3

Upload the authorization code file (.txt) and Install

AuthorizationCode_SN_3(5).txt

- 验证Specific License Reservation页是否将Usage Authorization状态显示为已授权。

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


- 点击预留许可证选项卡，验证在生成授权码时选择的许可证。

为受管设备分配特定许可证



- 选择System > Licenses > Specific Licenses。单击Edit Licenses。
- 根据需要为设备分配许可证，然后单击Apply。

Edit Licenses

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

Devices without license 

Devices with license (2)

FTD-Test 
ftd.breakstuff.com 

- 单击Assigned Licenses选项卡并验证您的许可证已正确安装在每个设备上。

Assigned Licenses

Reserved Licenses

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			
Carrier (0)				
Secure Client Premier (0)				
Secure Client Advantage (0)				
Secure Client VPN Only (0)				

管理特定许可证预留

- 在FMC中，获取此FMC的唯一产品实例标识符，导航到系统> 许可证 > 特定许可证。
- 记下产品实例值。

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

- 在智能软件管理器中，确定要更新的FMC。转到[智能软件管理器](#)。
- 导航到资产>产品实例，在Typecolumn中查找hasFPin产品实例，在Namecolumn中查找通用SKU（不是主机名）。

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-bheston.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)

- 单击Name。在显示正确UUID的页面上，选择操作 > 更新预留许可证。

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

- 根据需要更新预留的许可证，点击生成授权码并下载授权码，准备将其输入到FMC。
- 保留Update Reservationpage处于打开状态。您可以稍后在此过程中返回到它。
- 更新FMC中的特定许可证。依次选择System > Licenses > Specific Licenses，点击Edit SLR并浏览，以上传新生成的授权代码。

Specified License Reservation Status



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

Edit Authorizarion Code

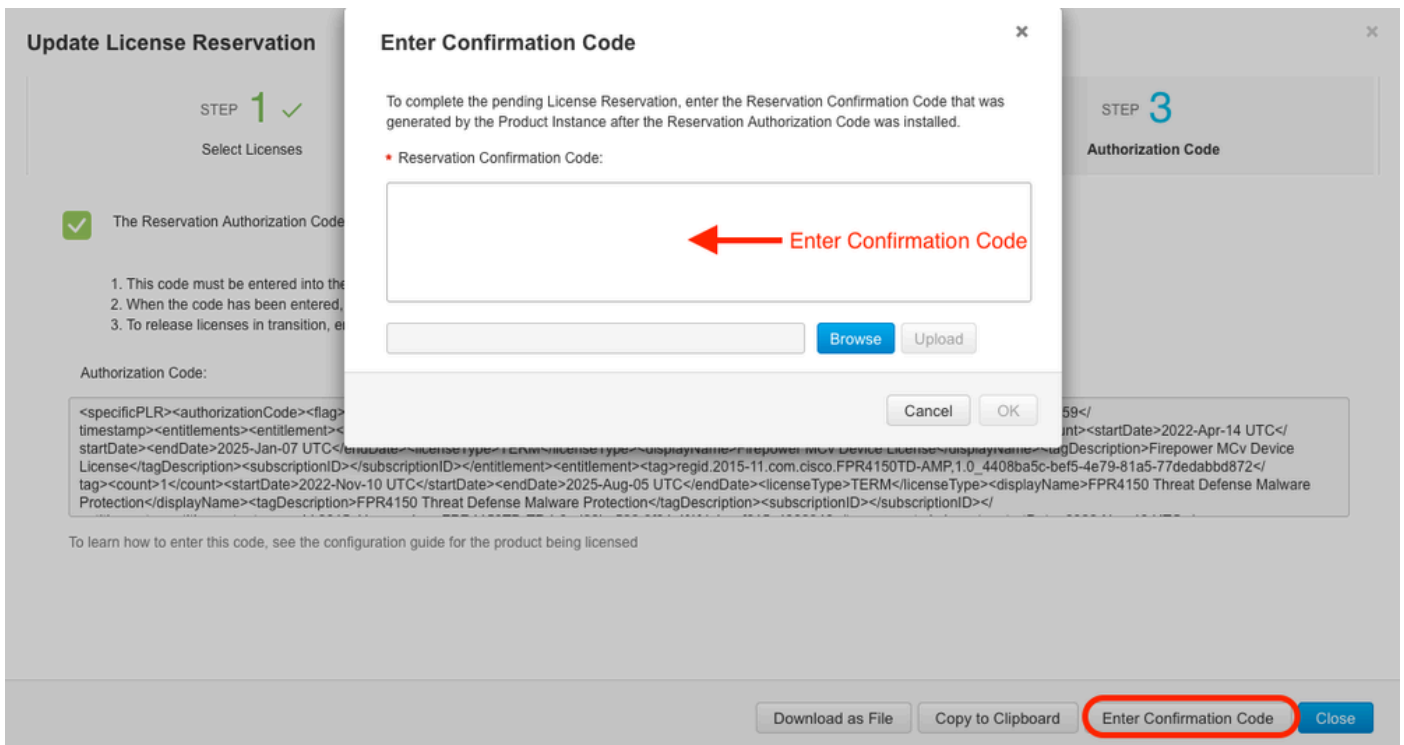
Upload the authorization code file (.txt) and Install

Choose File No file chosen

Close

Install

- 成功安装授权码后，记下确认码。
- 在智能软件管理器有意保持打开的更新保留页上输入确认代码。



- 在FMC中，验证许可证是否已按预期进行保留。

停用并返回特定许可证预留

如果不再需要特定许可证，必须将其返回至智能帐户。如果要注册智能许可帐户，必须禁用特定许可证预留。

此过程将与FMC关联的所有许可证授权释放回您的虚拟帐户。取消注册后，不允许对许可功能进行更新或更改。



警告：如果不执行此过程中的所有步骤，则许可证将保持使用状态且无法重复使用。

- 在FMC Web界面中，依次选择System > Licenses > Specific Licenses。

Specified License Reservation Status



Usage Authorization:	✓ Authorized (Last Synchronized On Jul 18 2024)	Return SLR
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

- 记下返回码。

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.
 ←

- 在智能软件管理器中，确定要更新的FMC，转至[智能软件管理器](#)。
- 导航到资产>产品实例，在Typecolumn中查找hasFPin产品实例，在Namecolumn中查找通用SKU（不是主机名）。
- 在显示正确UUID的页面上，选择操作 > 删除。

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		Rehost Licenses from a Failed Product...

- 将您从FMC生成的预留返回代码输入到删除产品实例对话框中。

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

- 特定预留许可证将返回到智能帐户中的可用池，并且此FMC将从智能软件管理器产品实例列表中删除。

在FMC Linux Shell中禁用特定许可证

- 登录FMC CLI admin帐户，输入expert命令以访问Linux Shell。
- 执行命令以访问特定许可证预留选项：sudo manage_slr.pl

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



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

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

*****

Enter choice: █
```

- 通过选择选项3禁用特定许可证预留。选择选项0以退出。

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

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

```
*****
```

```
Enter choice: 3
```

```
Successfully Disabled SLR
```

- 输入rexitto退出Linux shell。
- 输入rexitto退出命令行界面。

相关信息

- [Cisco Secure Firewall Management Center功能许可证](#)

关于此翻译

思科采用人工翻译与机器翻译相结合的方式将此文档翻译成不同语言，希望全球的用户都能通过各自的语言得到支持性的内容。

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