

在CSRv上配置永久许可证保留 — 离线许可证激活

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简介

本文档介绍如何使用永久许可证保留(PLR)离线方法激活CSRv许可。

先决条件

假设CSRv托管在虚拟环境中。

要求

Cisco 建议您了解以下主题：

- 控制台访问CSRv
- 智能帐户/虚拟帐户
- 购买必要的许可证或权限以添加许可证

使用的组件

本文档中的信息基于CSR1000v 17.3.3。

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。

背景信息

通常在公共云上或测试时，您需要测试需要1Mbps以上吞吐量的部署。CSR1000v的默认试用吞吐量以1Mbps的速率限制。

本文档还提供了复制授权代码的解决方法，在该授权代码中文件传输受到限制或不可用。

配置

步骤1. 决定许可

参考链接；

https://www.cisco.com/c/en/us/td/docs/routers/csr1000/software/configuration/b_CSR1000v_Configuration_Guide/b_CSR1000v_Configuration_Guide_chapter_01000.html#con_1055118，并导航至此链接“Cisco CSR 1000v Network Stack Licenses”中的表4。选择或购买所需的许可证。

在本指南中，您选择CSR-500M-AX。每个包和层之间的差异如下所示；

https://www.cisco.com/c/en/us/td/docs/routers/csr1000/software/configuration/b_CSR1000v_Configuration_Guide/b_CSR1000v_Configuration_Guide_chapter_01000.html#con_993810

基于包的许可证映射

CSR 1000v或Cisco ISRv许可证包 思科DNA许可证包

IP Base、安全 网络基础

APPX、AX 网络优势

基于吞吐量的许可证映射

吞吐量 层

10 Mbps 第0层(T0)

50 Mbps、100 Mbps 第1层(T1)

250 Mbps、500 Mbps、1 Gbps 第2层(T2)

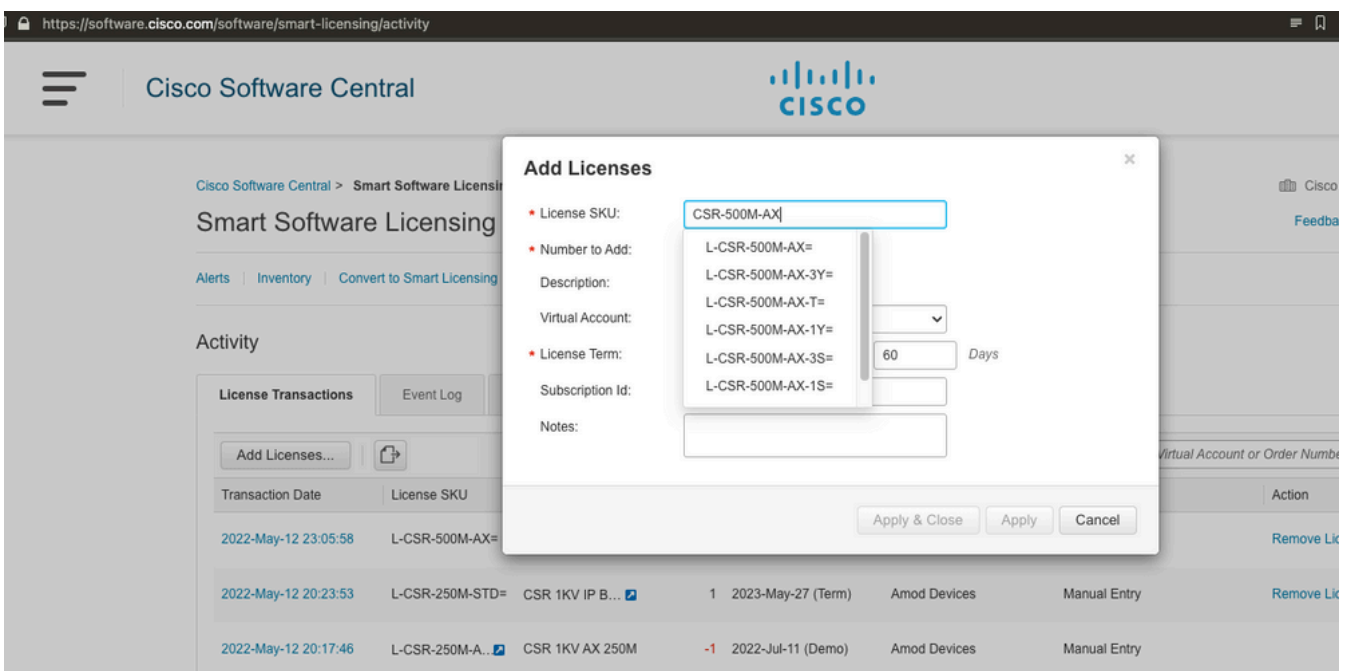
2.5 Gbps、5 Gbps、10 Gbps 第3层(T3)

步骤2. 将决定的许可证添加到智能帐户

导航至 <https://software.cisco.com/software/smart-licensing/activity>。

注意：此链接根据您的权限不可用，如果无法访问该链接，则会引发SR，TAC/客户团队将帮助您解决问题。

单击“Add Licenses”。搜索许可证SKU。



步骤3.启用智能预留并生成请求代码
登录CSRv并配置这些配置以启用智能预留。

```
Branch_WAN(config)#license smart enable Branch_WAN(config)#license smart reservation
```

生成请求代码。

Branch_WAN#license smart reservation request all Enter this request code in the Cisco Smart Software Manager portal: UDI: PID:CSR1000V,SN:91T54Q***3W Request code: CB-ZCSR1000V:91T54Q***W-AB5n***t-5E

步骤4.生成授权码

导航至 <https://software.cisco.com/software/smart-licensing/inventory>。选择适当的虚拟帐户，然后点击许可证保留。

The screenshot shows the Cisco Smart Software Licensing web interface. The breadcrumb navigation is 'Cisco Software Central > Smart Software Licensing'. The main heading is 'Smart Software Licensing'. Below the heading, there are tabs for 'Alerts', 'Inventory', 'Convert to Smart Licensing', 'Reports', 'Preferences', 'On-Prem Accounts', and 'Activity'. The 'Inventory' tab is selected. A dropdown menu shows 'Virtual Account: Amod Devices'. Below this, there are tabs for 'General', 'Licenses', 'Product Instances', and 'Event Log'. The 'Licenses' tab is selected. In the 'Licenses' section, there are buttons for 'Available Actions', 'Manage License Tags', and 'License Reservation...'. The 'License Reservation...' button is highlighted with a red box. To the right of this button is a checkbox for 'Show License Transactions' which is checked. Below the buttons is a table with columns: License, Billing, Purchased#, In Use, Substitution, Balance, Alerts, and Actions. The table contains three rows of license information.

License	Billing	Purchased#	In Use	Substitution	Balance	Alerts	Actions
CSR 1KV IP BASE 250M	Prepaid	1	1 (1 Reserved)	-	0		Actions
CSR 1KV AX 500M	Prepaid	20	0	-	+20		Actions
ASAv30 Standard - 2G	Prepaid	23	3	-	+20		Actions

按照向导操作。

The screenshot shows the 'Smart License Reservation' wizard. It has four steps: STEP 1: Enter Request Code, STEP 2: Select Licenses, STEP 3: Review and Confirm, and STEP 4: Authorization Code. Step 1 is currently active. Below the steps, there is a text block explaining the process: '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'. Below this text, there is a text input field containing the reservation request code: 'CB-ZCSR1000V:91T54Q***3W-AB5n***t-5E'. At the bottom of the wizard, there are buttons for 'Upload File', 'Browse', 'Upload', 'Cancel', and 'Next'.

Smart License Reservation

STEP 1 ✓ Enter Request Code

STEP 2 Select Licenses

STEP 3 Review and Confirm

STEP 4 Authorization Code

Product Instance Details

Product Type: CSR1KV
UDI PID: CSR1000V
UDI Serial Number: 91T54

Licenses to Reserve

In order to continue, ensure that you have a surplus of the licenses you want to reserve in the Virtual Account.

Reserve a specific license

License	Expires	Purchased	Available	Reserve
CSR 1KV AX 500M CSR 1KV AX 500M	2027-Apr-16	20	19	<input type="text" value="1"/>

Cancel Next

Smart License Reservation

STEP 1 ✓ Enter Request Code

STEP 2 ✓ Select Licenses

STEP 3 ✓ Review and Confirm

STEP 4 Authorization Code

✓ The Reservation Authorization Code below has been generated for this product instance. Enter this code into the Smart Licensing settings for the product, to enable the licensed features.

Product Instance Details

Product Type: CSR1KV
UDI PID: CSR1000V
UDI Serial Number: 91T54

Authorization Code:

```
<specificPLR><authorizationCode><flag>A</flag><version>C</version><pid>45062b</pid><timestamp>1652411011165</timestamp><entitlements><entitlement><tag>regid.2014-05.com.cisco.ax_500M,1.0_66e10795-1655-4d32-81c4-7d34821c7412</tag><count>1</count><startDate>2022-May-12 UTC</startDate><endDate>2027-Apr-16 UTC</endDate><licenseType>TERM</licenseType><displayName>CSR 1KV AX 500M</displayName><tagDescription>CSR 1KV AX 500M</tagDescription><subscriptionID></subscriptionID></entitlement></entitlements></authorizationCode><signature>MEYCIQCOjRogPG</signature><udi>P:CSR1000V,S:91T54QSDQ3W</udi></specificPLR>
```

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

Download as File Copy to Clipboard Close

记录此代码或将其下载为文件。

步骤5.安装授权代码。

将文件传输到CSRv，然后按照如下所示的命令激活CSRv，使其达到购买的吞吐量。

```
Branch_WAN#license smart reservation install file bootflash:auth.lic % use 'platform hardware throughput level MB' CLI to request throughput license Reservation install file successful Last Confirmation code UDI: PID:CSR1000V,SN:91T54***3W Confirmation code: 3c3**c2 Branch_WAN#将吞吐量更改为适当的购买许可证级别。
```

```
Branch_WAN(config)#platform hardware throughput level MB 500 Branch_WAN(config)# *May 13 03:28:47.159: %SMART_LIC-5-SLR_IN_COMPLIANCE: The entitlement regid.2014-05.com.cisco.ax_500M,1.0_66e10795-1655-4d32-81c4-7d34821c7412 in use on this device is authorized *May 13 03:28:47.162: %VXE_THROUGHPUT-6-LEVEL: Throughput level has been set to 500000 kbps
```

验证

验证您的许可证。

```
Branch_WAN#show license summary Smart Licensing is ENABLED License Reservation is ENABLED
Registration: Status: REGISTERED - SPECIFIC LICENSE RESERVATION Export-Controlled Functionality:
ALLOWED License Authorization: Status: AUTHORIZED - RESERVED License Usage: License Entitlement
Tag Count Status -----
prem_500M (ax_500M) 1 AUTHORIZED Branch_WAN#show platform hardware throughput level The current
throughput level is 500000 kb/s
```

解决方法

如果无法移动文件或完全粘贴授权代码，请使用此解决方法。思科终端有固定的宽限制，这可能导致授权码被截断。使用如下所示的解决方法。避免任何空格或新行。将授权代码拆分为四个会话，最多200个字符。

```
Branch_WAN#tclsh puts [open "bootflash:auth.lic" w+] { } tclquit Branch_WAN#more
bootflash:auth.lic
```