

Cisco Catalyst 9000许可证升级 — 离线方法

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简介

本文档介绍从评估许可证升级到DNA订用许可证(Essentials/Advantage/Premier)所需的步骤。

Cisco Catalyst 9000许可证升级 — 离线方法

当新交换机联机时，它将使用有效期为90天的评估网络许可证启动。在此期间，交换机需要与思科智能软件管理器(CSSM)通信。由于CSSM服务器基于思科的云，因此交换机需要互联网连接才能到达思科的云。

但是，某些客户的网络不允许这样做，例如金融和银行部门，或者某些客户的安全环境，这些客户无法访问Internet (AirGap环境)。

在这种情况下，客户和合作伙伴需要依靠离线方式安装DNA许可证。

本文档依赖DNA Center作为许可证管理器。DNA Center必须连接到Internet，以便收集客户通过其智能帐户/虚拟帐户购买的所有许可证的信息。一旦DNA Center获得此信息，就可以将其脱机，并且无需将DNA Center和交换机连接到Internet即可执行其余步骤。

1. DNA Center已连接到Internet，并与CSSM服务器通信，以收集有关客户许可证的信息。客户拥有53个许可证 (48个基本许可证和5个优势许可证)。



在DNA Center的“许可证管理”应用中，导航至“所有许可证”。您将获得由DNA Center管理的所有设备及其许可证状态的摘要。**Registration Status**和**Authorization Status**字段显示DNA许可证的状态

，无论设备运行在Eval模式还是DNA订阅模式下。您需要看到设备的Registered-SLR和Authorized状态，如图所示。

Device Name	Device Family	IP Address	Device Series	DNA License	DNA License Expiry	License Mode	Network License	Registration status	Authorization status	Reservation Status
Switch	Switches and Hubs	10.1.100.10	Cisco Catalyst 9200 Series Switches	Essentials	Mar 22, 2021 55 Days	SL	Essentials	Unregistered	Evaluation Mode	Request code generated
Switch	Switches and Hubs	10.1.100.11	Cisco Catalyst 9200 Series Switches	Essentials	NA	SL	Essentials	Registered - SLR	Authorized - Reserved	Installed

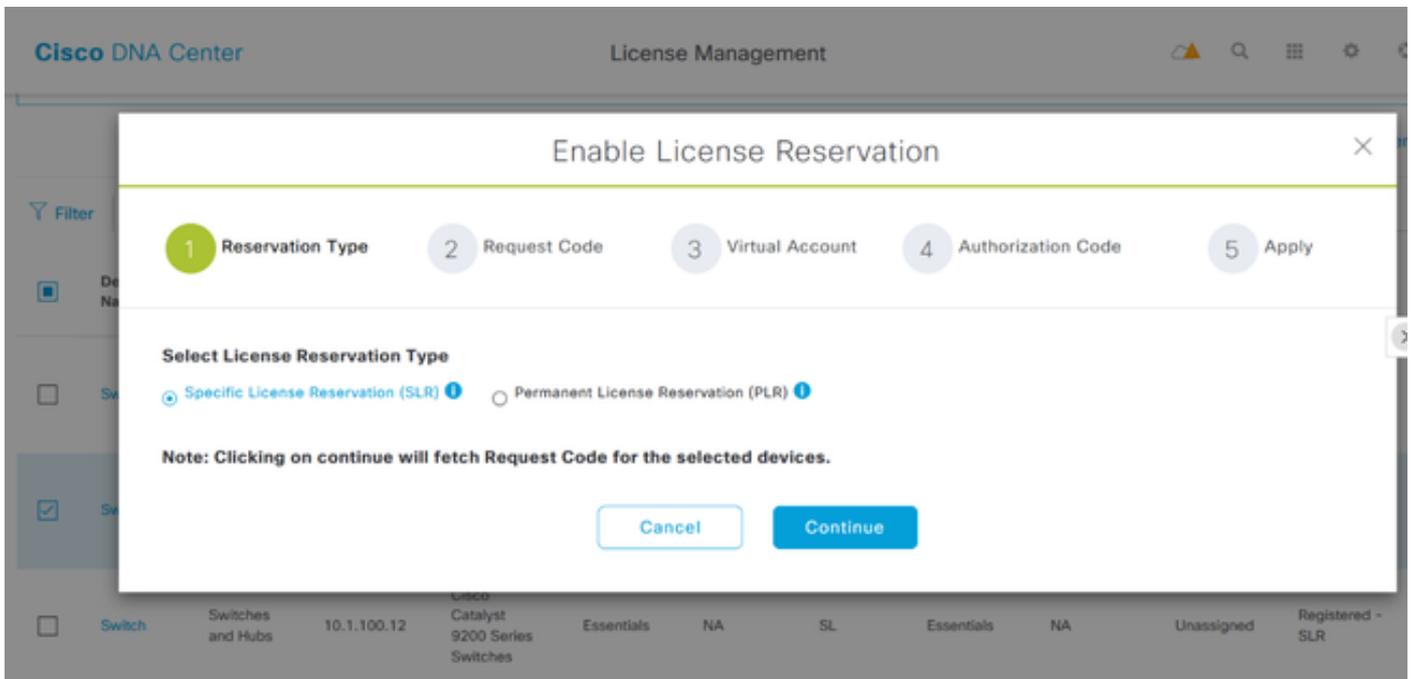
2.要使DNA Center管理交换机，交换机应位于DNA Center的资产列表中。如果它还没有出现，则通过1可以实现此目的。即插即用过程，通过DHCP完成。或2。手动配置交换机的IP地址，启用密码和本地用户名/密码。DNA Center在发现过程中使用此信息定位新配置的交换机。

3.一旦交换机出现在DNA中心清单中。导航到License Manager > All Licenses。选择需要添加DNA许可证的交换机或设备，如图所示。

Dev Name	Device Series	DNA License	DNA License Expiry	License Mode	Network License	Virtual Account	Site	Registration status
Switch	Cisco Catalyst 9200 Series Switches	Essentials	Mar 21, 2021 55 Days	SL	Essentials	NA	Unassigned	Unregistered
Switch	Cisco Catalyst 9200 Series Switches	Essentials	Mar 22, 2021 55 Days	SL	Essentials	NA	Unassigned	Reservation in Progress

4.然后定位至活动，选择管理许可证保留，然后选择启用许可证保留。选择Specific License Reservation，单击Continue以生成请求代码，如图所示。

Dev Name	Device Series	DNA License	DNA License Expiry	License Mode	Network License	Virtual Account	Site	Registration status
Switch	Cisco Catalyst 9200 Series Switches	Essentials	Mar 21, 2021 55 Days	SL	Essentials	NA	Unassigned	Unregistered
Switch	Cisco Catalyst 9200 Series Switches	Essentials	Mar 22, 2021 55 Days	SL	Essentials	NA	Unassigned	Reservation in Progress



5.在此阶段，DNA Center将登录交换机，并从交换机生成请求代码。生成请求代码后，单击**导出 CSV文件**。

6.使用思科智能软件管理器(CSSM)登录。您将看到客户购买的所有DNA许可证。下图显示了客户的智能帐户示例，如图所示。

Virtual Account: **DEFAULT** ▼

License	Billing	Purchased	In Use	Substitution	Balance	Alerts
<input type="checkbox"/> Aironet DNA Advantage Term Licenses	Prepaid	3	0	-	+ 3	
<input type="checkbox"/> AP Perpetual Networkstack Advantage	Prepaid	3	0	-	+ 3	
<input type="checkbox"/> C9200 DNA Essentials, 24-port Term licenses	Prepaid	85	1 (1 Reserved)	-	+ 84	
<input type="checkbox"/> C9200 Network Essentials, 24-port license	Prepaid	85	1 (1 Reserved)	-	+ 84	
<input type="checkbox"/> C9200L DNA Essentials, 24-port Term license	Prepaid	2	0	-	+ 2	
<input type="checkbox"/> C9200L DNA Essentials, 48-port Term license	Prepaid	2	0	-	+ 2	
<input type="checkbox"/> C9200L Network Essentials, 24-port license	Prepaid	2	0	-	+ 2	
<input type="checkbox"/> C9200L Network Essentials, 48-port license	Prepaid	2	0	-	+ 2	
<input type="checkbox"/> C9300 48P DNA Advantage	Prepaid	5	0	-	+ 5	
<input type="checkbox"/> C9300 48P Network Advantage	Prepaid	5	0	-	+ 5	

7.使用之前从DNA Center生成的**CSV文件**，从CSSM生成授权代码。此授权码允许在无法访问Internet的设备上使用永久DNA许可证。

General		Licenses	Product Instances	Event Log			
Available Actions ▾		Manage License Tags	License Reservation...				
Search by							
<input type="checkbox"/>	License	Billing	Purchased	In Use	Substitution	Balance	Alerts
<input type="checkbox"/>	Alronet DNA Advantage Term Licenses	Prepaid	3	0	-	+ 3	
<input type="checkbox"/>	AP Perpetual Networkstack Advantage	Prepaid	3	0	-	+ 3	
<input type="checkbox"/>	C9200 DNA Essentials, 24-port Term licenses	Prepaid	85	1 (1 Reserved)	-	+ 84	
<input type="checkbox"/>	C9200 Network Essentials, 24-port license	Prepaid	85	1 (1 Reserved)	-	+ 84	
<input type="checkbox"/>	C9200L DNA Essentials, 24-port Term license	Prepaid	2	0	-	+ 2	
<input type="checkbox"/>	C9200L DNA Essentials, 48-port Term license	Prepaid	2	0	-	+ 2	
<input type="checkbox"/>	C9200L Network Essentials, 24-port license	Prepaid	2	0	-	+ 2	
<input type="checkbox"/>	C9200L Network Essentials, 48-port license	Prepaid	2	0	-	+ 2	
<input type="checkbox"/>	C9300 48P DNA Advantage	Prepaid	5	0	-	+ 5	
<input type="checkbox"/>	C9300 48P Network Advantage	Prepaid	5	0	-	+ 5	

STEP 1 **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:

CB-ZC9200-24T--22

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

STEP 1 ✓ Enter Request Code

STEP 2 Select Licenses

STEP 3 Review and confirm

STEP 4 Authorization Code

Product Instance Details

Product Type: C9200
 UDI PID: C9200-24T
 UDI Serial Number: [REDACTED]

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
Level 2 Supports substitution				
C9200 Network Essentials, 24-port license <small>C9200 Network Essentials, 24-port license</small>	-never-	85	83	<input type="text" value="1"/>
C9200 DNA Essentials, 24-port Term licenses <small>C9200 DNA Essentials, 24-port Term licenses</small>	multiple terms	85	84	<input type="text" value="1"/>

Cancel Next

STEP 1 ✓ Enter Request Code

STEP 2 ✓ Select Licenses

STEP 3 Review and confirm

STEP 4 Authorization Code

Product Instance Details

Product Type: C9200
 UDI PID: C9200-24T
 UDI Serial Number: [REDACTED]

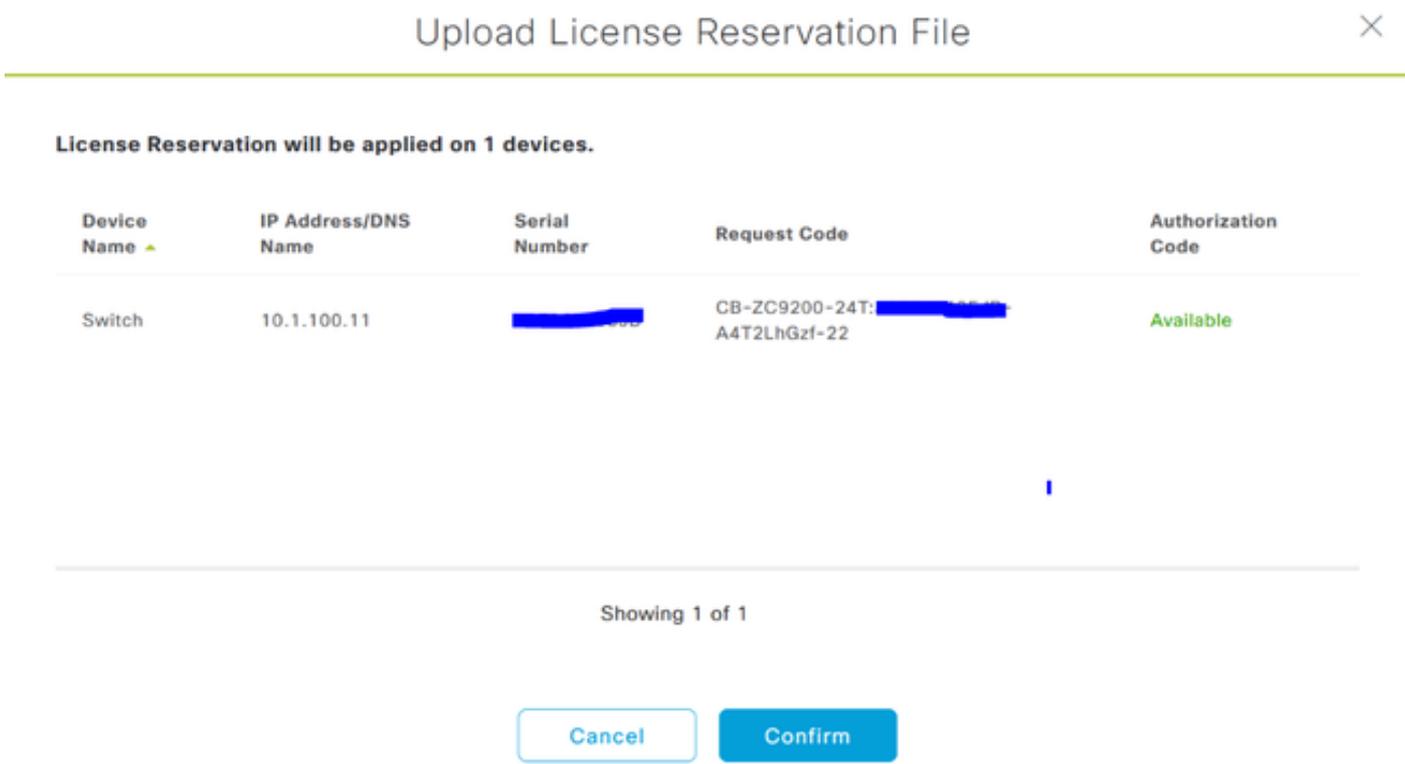
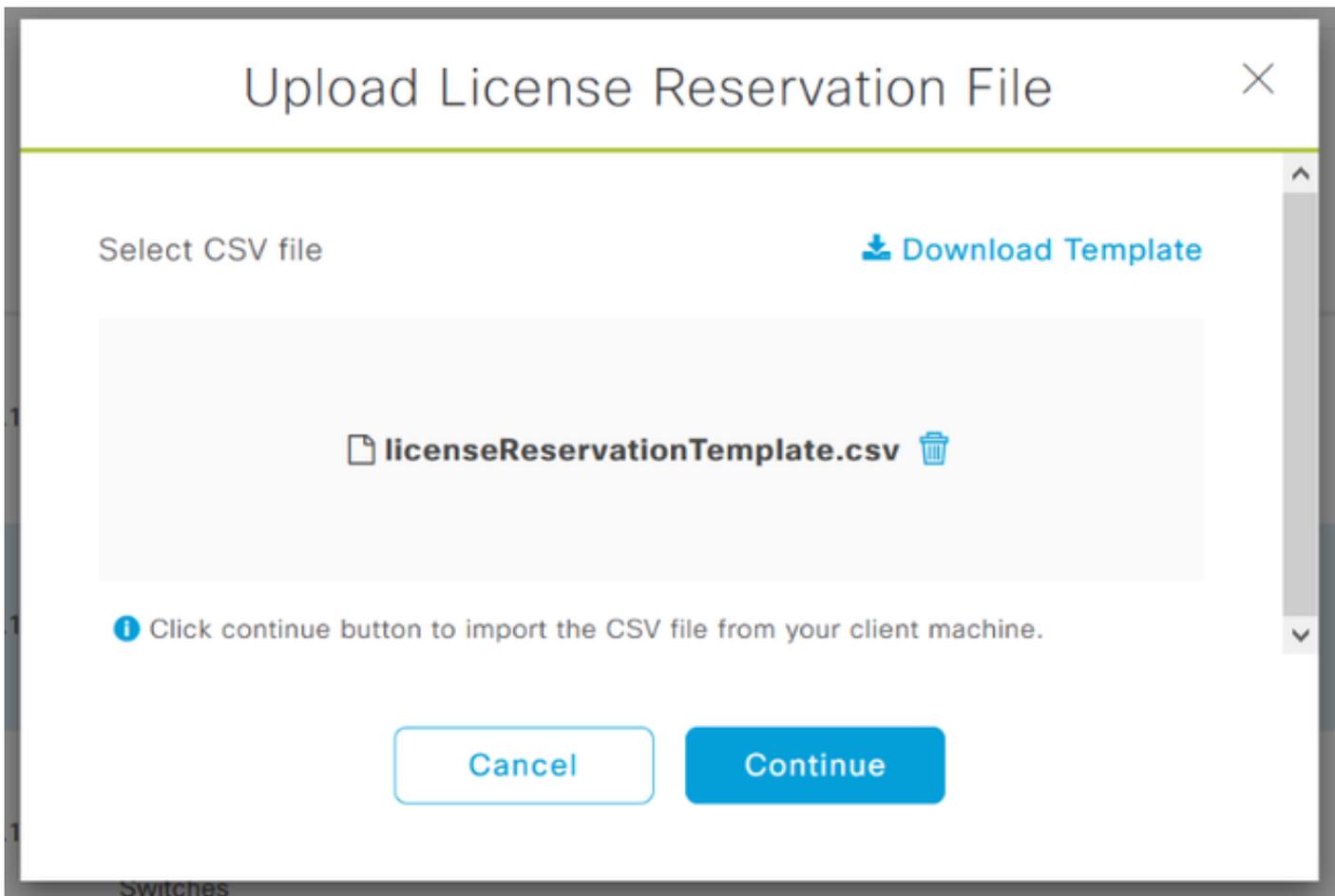
Licenses to Reserve

License	Expires	Quantity to Reserve
Level 2		
C9200 Network Essentials, 24-port license <small>C9200 Network Essentials, 24-port license</small>	-never-	1
C9200 DNA Essentials, 24-port Term licenses <small>C9200 DNA Essentials, 24-port Term licenses</small>	-	1

Cancel Back Generate Authorization Code

生成授权码后，可以将其下载为文件或复制到剪贴板。

10.CSV文件准备就绪后，点击**上传CSV**将授权代码上传到设备。这会将SLR许可证安装到设备，并且许可证将获得授权在设备上运行的DNA许可证，如图所示。





Saved

Initiated License reservation for 1 devices.

OK

您应该看到Registration Status (注册状态) 更改为Registered - SLR。

Cisco DNA Center License Management

Last updated: 1:09 pm Refresh Export Recent

Filter Actions Upload CSV Find

<input type="checkbox"/>	Device Name	Device Family	IP Address	Device Series	DNA License	DNA License Expiry	License Mode	Network License	Virtual Account	Site	Registration status
<input type="checkbox"/>	Switch	Switches and Hubs	10.1.100.10	Cisco Catalyst 9200 Series Switches	Essentials	Mar 21, 2021 88 Days	SL	Essentials	NA	Unassigned	Unregistered
<input type="checkbox"/>	Switch	Switches and Hubs	10.1.100.11	Cisco Catalyst 9200 Series Switches	Essentials	NA	SL	Essentials	NA	Unassigned	Registered - SLR
<input type="checkbox"/>	Switch	Switches and Hubs	10.1.100.12	Cisco Catalyst 9200 Series Switches	Essentials	NA	SL	Essentials	NA	Unassigned	Registered - SLR

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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