

将Video Communications Server群集转换为Expressway群集

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简介

本文档介绍视频通信服务器(VCS)集群到Expressway集群的转换。

先决条件

要求

Cisco 建议您了解以下主题：

- Cisco Expressway
- 视频通信服务器(VCS)集群

使用的组件

本文档中的信息基于以下软件和硬件版本：

- VCS集群

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。

配置

* 此部分分享了步骤和片段：

迁移摘要

1.) 在继续进行转换之前，请确保从Web GUI备份所有VCS节点，包括证书备份。

<https://video.cisco.com/detail/video/6036232606001>

1.1.) 以根用户身份登录到winscp。

1.2.) /tandberg/persistent/certs/获取certs文件夹的备份

2.) 使用ssh (以admin身份) 登录到VCS节点。

2.1.) 运行命令- Xconfiguration

2.2.) 将输出保存在记事本中。

3.) 在VCS概述中，点击“运行服务设置”：

3.1.) 点击该选项后，您将进入服务选择，以便选择使用Expressway。

3.2.) 选择Expressway、C或E。

4.) 选择expressway后，请选择在服务器上运行的服务。

5.) 单击 Continue。

5.1.) 在下一页上，再次单击Continue。

注意：不需要选项键。

5.2.) 在下一页上，完成配置并单击Finish。

*共享代码片段以供参考的步骤：

转换前：

The screenshot shows a configuration page titled "Clustering" with a "Configuration" tab selected. The page contains several input fields and status indicators:

- Cluster name (FQDN for Provisioning): ⓘ
- Configuration primary: ⓘ
- TLS verification mode: ⓘ
- Cluster IP version: ⓘ
- Peer 1 address: ⓘ
- Peer 2 address: ⓘ
- Peer 3 address: ⓘ
- Peer 4 address: ⓘ


On the right side, there are green status messages:

- ✓Certificate: Valid
- ✓Clustering: This system
- ✓Certificate: Valid
- ✓Clustering: Active as ExpC2 (Resolved 'expc2.acanotaclab.com' as '10.104.215.216')



注意：在“概述”(Overview)页面上，2500个VCS免费注册，许可证类型为遍历和非遍历。

Overview

 Note: This VCS is part of a cluster but is not the configuration primary. You should only change configuration that is specific to this peer (marked with †). Other configuration

System mode

Selected modes Generic - Do you want to [Run service setup?](#)

System information

[System name](#)

Up time 20 hours 50 minutes 21 seconds

[Software version](#) X14.0.7

[IPv4 address](#) LAN 1: 192.168.10.22

[Options](#) 0 Non Traversal Calls, 0 Traversal Calls, 2500 Registrations, Encryption, FindMe, Device Provisioning.

Resource usage (last updated: 12:55:15 UTC)

		Total	192.168.10.20	192.168.10.22
Non-traversal calls	Current	0	0	0
	Peak	0	0	0
	Since last restart	0	0	0
	License usage current	N/A		
	License usage peak	N/A		
Traversal calls	Current video	0	0	0
	Current audio (SIP)	0	0	0
	Peak video	0	0	0
	Peak audio (SIP)	0	0	0
	Since last restart video	0	0	0
	Since last restart audio (SIP)	0	0	0
	License usage current	N/A		
	License usage peak	N/A		
Local Registrations	Current	0	0	0

在VCS上，您只有“选项密钥”选项，而在Expressway上，您也拥有智能许可选项。



注意：从x14.2开始，Expressway系列上已删除“选项密钥”选项；仅支持智能许可。

← → ↻ Not secure | https://192.168.10.20/searchrules

CISCO Cisco TelePresence Video Communication Server Control

Status > System > Configuration > Applications > Users > **Maintenance**

Search rules

Priority	Rule name	Protocol	Source	Authentication
<input type="checkbox"/> 50	LocalZoneMatch	Any	Any	No
<input type="checkbox"/> 100	test	Any	Any	No

[New](#) [Delete](#) [Enable](#) [Disable](#) [Select all](#) [Unselect all](#)

Related tasks

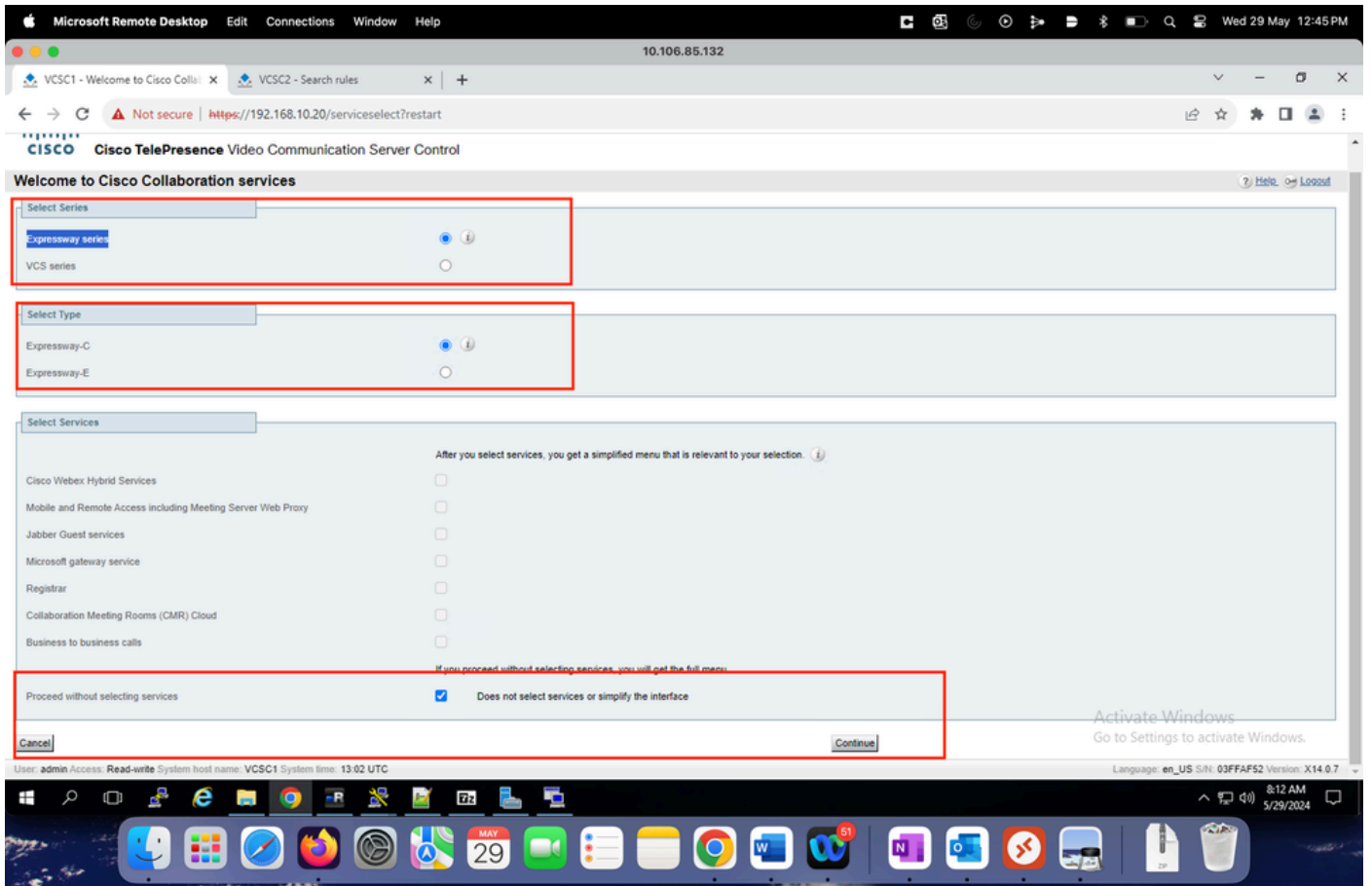
- [Test whether a pattern match or transform has the expected result](#)
- [Perform a test search for an alias](#)

Upgrade
Logging
Email Notifications
Option keys
Tools >
Security >
Backup and restore
Diagnostics >
Maintenance mode
Language
Restart options

迁移


带有参考片段的转换步骤：

- 1.) 转到“Status”下的“Overview”页，然后单击Run service setup。
- 2.) 选择Expressway服务器和服务器类型，相应地选择C或E
然后选择Proceed。请勿选择服务。
- 3.) 单击 Continue。



4.) 在下一页上，应用获取的许可证密钥。或者，您可以跳过Add keys选项并单击Continue。许可证密钥可以在以后添加。

Option keys

 You've licensed this system correctly for the services you selected. Click Continue to go to configuration

Licensing help

Serial number

03FFAF52

How to get licenses

You need this system's serial number to order keys. Go to the [Product License Registration Portal](#), and load your PAK (Product Authentication Identifiers (PIDs) that are named like the examples shown in the License status section further down this page. Select the PIDs that you need. When you've selected PIDs, click Assign to device and enter the serial number with the keys you need. Paste all the email text into this page so the system can read the keys for you. If you generate more than one key, you must paste all the keys into this page.

License status

Based on the services you have selected:

Optional

Description	License PID example	Status
Rich Media Sessions	LIC-EXP-RMS	Not loaded
Microsoft Interoperability	LIC-EXP-MSFT	Not loaded
H323-SIP Interworking Gateway	LIC-EXP-GW	Not loaded
FindMe	LIC-VCS-FINDME	Not loaded

Apply keys

Paste the text from your option keys email here

[Add keys](#)

[New paste area](#)

[Back](#) [Skip Service Setup Wizard](#)

[Continue](#)

5.) 在下一页中，验证并确认核心配置。

6.) 单击完成：

Confirm core configuration

IP	
IP protocol	↑ IPv4 ⓘ
IPv4 address	* ↑ 192.168.10.20 ⓘ
IPv4 subnet mask	* ↑ 255.255.128.0 ⓘ
IPv4 gateway	* ↑ 192.168.0.1 ⓘ
Configure IP on IP page instead	

Credentials	
Your current password	Password has been set
Root password	Password has been set


DNS	
System host name	* ↑ VCSC1 ⓘ
Domain name	* ↑ ssmlab.com ⓘ
Primary DNS address	192.168.10.25
Secondary DNS address	↑ ⓘ
Configure DNS servers on DNS page instead	

Time	
Primary NTP address	192.168.0.1
Configure NTP servers on Time page instead	

[Back](#) [Skip Service Setup Wizard](#) Finish

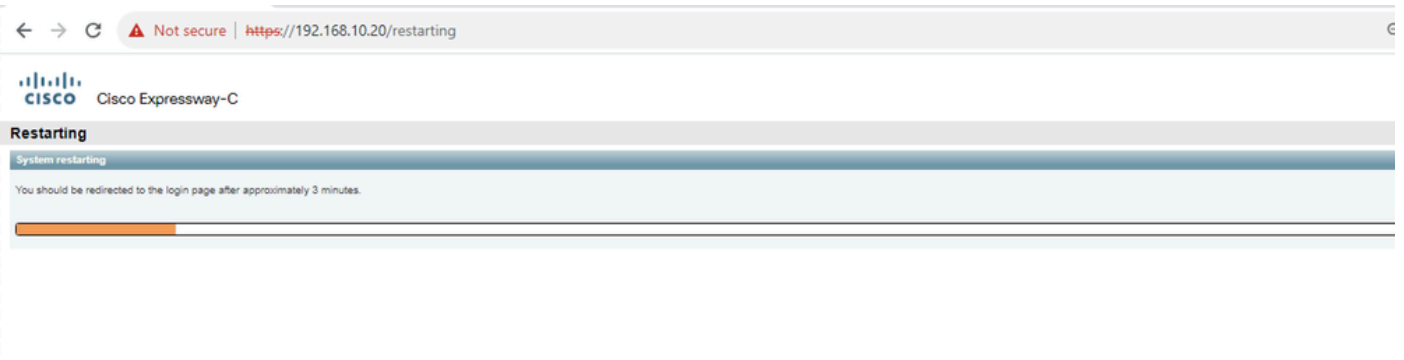
需要重新启动以使更改生效：

Restart options

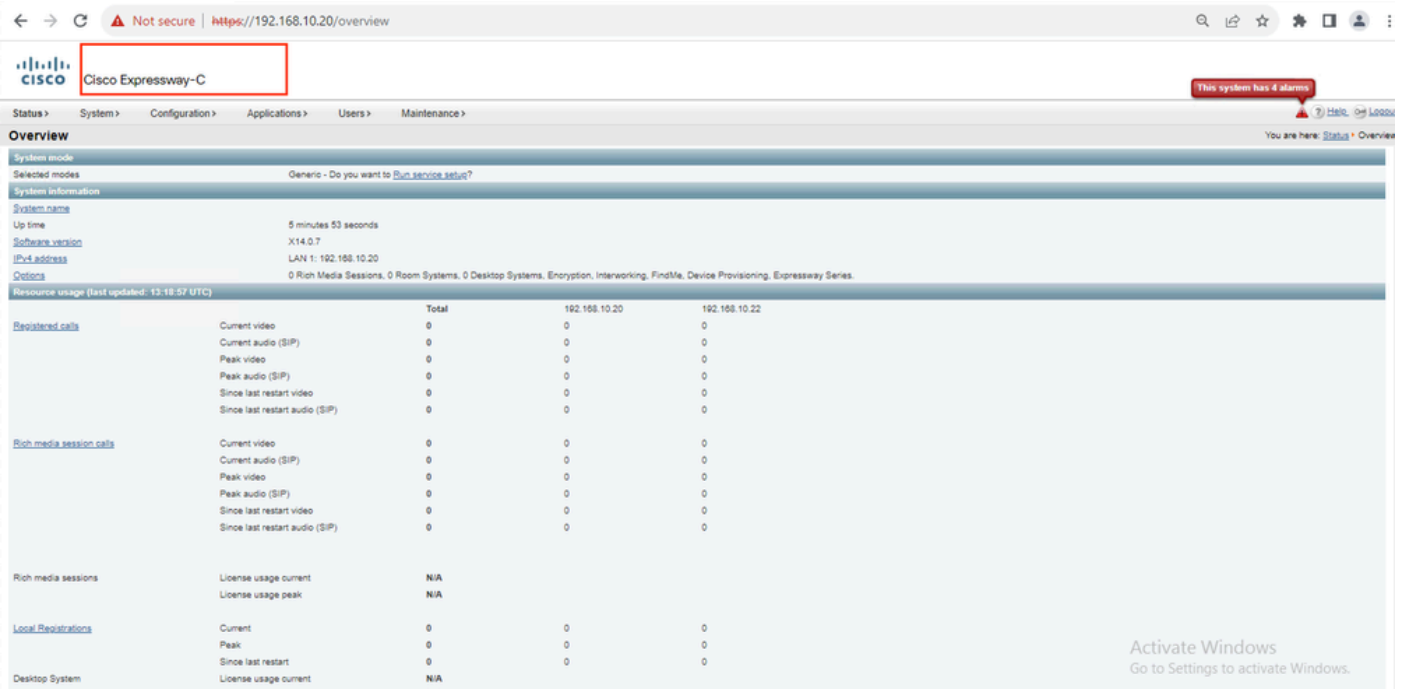
 **Note:** This Expressway is part of a cluster but is not the configuration primary. You should only change configuration that is specific to this peer (marked with †). Other co

System status	
Cluster status	This system is part of a cluster
Call status	There are 0 calls active
Registration status	There are 0 registrations active

Restart



主节点已迁移到Expressway :



对等节点仍然是VCS服务器，但是未发现任何问题：

← → ↻ ⚠ Not secure <https://192.168.10.22/overview>

CISCO Cisco TelePresence Video Communication Server Control

Status > System > Configuration > Applications > Users > Maintenance >

Overview

Note: This VCS is part of a cluster but is not the configuration primary. You should only change configuration that is specific to this peer (marked with †). Other

System mode
Selected modes: Generic - Do you want to [Run service setup?](#)

System information

System name
Up time: 21 hours 3 minutes 13 seconds
Software version: X14.0.7
IPv4 address: LAN 1: 192.168.10.22
Options: 0 Non Traversal Calls, 0 Traversal Calls, 2500 Registrations, Encryption, FindMe, Device Provisioning.

Resource usage (last updated: 13:18:43 UTC)

		Total	192.168.10.20	192.168.10.10
<u>Non-traversal calls</u>	Current	0	0	0
	Peak	0	0	0
	Since last restart	0	0	0
	License usage current	0%		
	License usage peak	0%		
<u>Traversal calls</u>	Current video	0	0	0
	Current audio (SIP)	0	0	0
	Peak video	0	0	0
	Peak audio (SIP)	0	0	0
	Since last restart video	0	0	0
	Since last restart audio (SIP)	0	0	0
	License usage current	N/A		

7.) 在对等节点上重复上述步骤以迁移到Expressway。

转换后，在两个节点上都未发现问题：

Clustering

Configuration

Cluster name (FQDN for Provisioning): ⓘ

Configuration primary: ⓘ

TLS verification mode: ⓘ

Cluster IP version: ⓘ

Peer 1 address: ⓘ

Peer 2 address: ⓘ

Peer 3 address: ⓘ

Peer 4 address: ⓘ

Certificate: Valid
 Clustering: This system
 Certificate: Valid
 Clustering: Active as ExpC2 (Resolved 'expc2.acanotadlab.com' as '10.104.215.216')

许可证类型已更改：



Status > System > Configuration > Applications > Users > Maintenance >

Overview

System information

[System name](#)
Up time: 15 minutes 51 seconds
[Software version](#): X14.0.7
[IPv4 address](#): LAN 1: 192.168.10.20
[Options](#): 0 Rich Media Sessions, 0 Room Systems, 0 Desktop Systems, Encryption, Interworking, FindMe, Device Provisioning, Expressway Series

Resource usage (last updated: 13:29:26 UTC)

	Total	192.168.10.20	192.168.10.22
Registered calls			
Current video	0	0	0
Current audio (SIP)	0	0	0
Peak video	0	0	0
Peak audio (SIP)	0	0	0
Since last restart video	0	0	0
Since last restart audio (SIP)	0	0	0
Rich media session calls			
Current video	0	0	0
Current audio (SIP)	0	0	0
Peak video	0	0	0
Peak audio (SIP)	0	0	0
Since last restart video	0	0	0
Since last restart audio (SIP)	0	0	0
Rich media sessions			
License usage current	N/A		
License usage peak	N/A		
Local Registrations			
Current	0	0	0
Peak	0	0	0
Since last restart	0	0	0
Desktop System			
License usage current	N/A		
License usage peak	N/A		
Room System			
License usage current	N/A		
License usage peak	N/A		

转换过程完成。

常见问题解答

问：转换是否影响集群？

A：否

问：主节点的转换是否会自动将其他节点转换为Expressway？

答：不是，需要在每个节点上单独完成此操作。

问：对许可证有何影响？

答：许可证已更改。

迁移前要考虑的要点

- 穿越/非穿越许可证更改为RMS许可证
- 您在Expressway上未提供的VCS上获得2500次免费注册

- 注册许可证已更改为“桌面/房间许可证”，需要单独获取。请与思科销售团队联系
- Expressway系列不支持版本x14.2之后的传统许可证：
- https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/expressway/admin_guide/X14-2/exwy_b_cisco-expressway-administrator-guide-x142/exwy_m_smart-licensing-x142.html

相关信息

VCS已停止支持：

- https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/expressway/release_note/X14-2-5/Expressway/exwy_b_cisco-expressway-release-note-x1425.html#reference_D8C52445C823D50F27C9DD95F9759E52

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