

將Video Communications Server群集轉換為Expressway群集

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簡介

本文檔介紹將Video Communications Server (VCS)集群轉換為Expressway集群。

必要條件

需求

思科建議您瞭解以下主題：

- Cisco Expressway
- Video Communications Server (VCS)群集

採用元件

本文中的資訊係根據以下軟體和硬體版本：

- VCS群集

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路運作中，請確保您瞭解任何指令可能造成的影響。

設定

* 本節中分享了步驟和片段：

移轉摘要

1.) 繼續進行轉換之前，請確定從Web GUI備份所有VCS節點，包括憑證備份。

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

1.1.) 以根使用者身份登入到winscp。

1.2.) /tandberg/persistent/certs/備份certs資料夾

2.) 使用ssh (作為admin) 登入到VCS節點。

2.1.) 運行命令- Xconfiguration

2.2.) 將輸出儲存在記事本中。

3.) 在VCS概述中，點選「運行服務設定」：

3.1.) 點選該選項後，您將進入服務選擇，以便選擇使用Expressway。

3.2.) 選擇Expressway、C或E。

4.) 選擇expressway後，請選擇在伺服器上運行的服務。

5.) 按一下「Continue」(繼續)。

5.1.) 在下一頁上，再次按一下Continue。

注意：不需要選項鍵。

5.2.) 在下一頁上，完成配置並按一下Finish。

*共用程式碼片段以供參考的步驟：

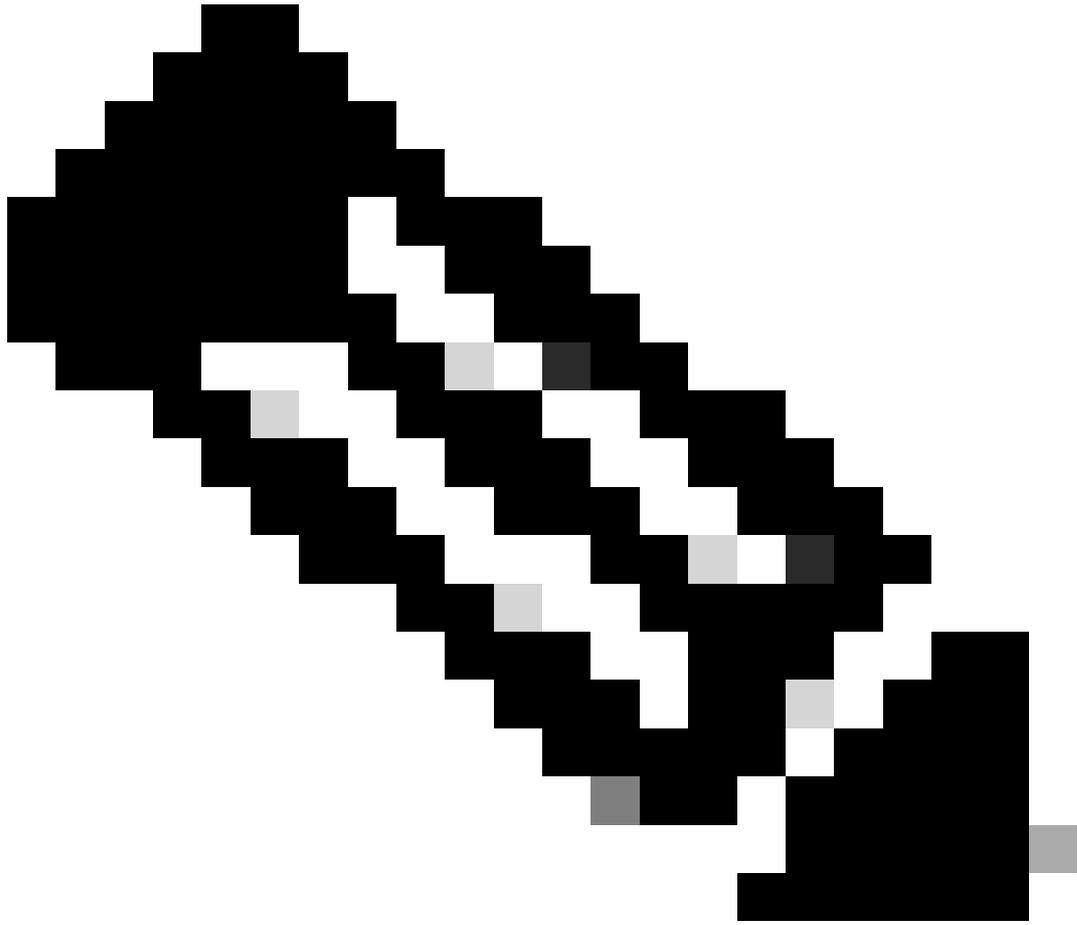
轉換前：

The screenshot shows a web interface for configuring a cluster. The title is "Clustering". Under the "Configuration" tab, the following settings are visible:

- Cluster name (FQDN for Provisioning): expc-cluster.acanotaclab.com
- Configuration primary: 1
- TLS verification mode: Enforce
- Cluster IP version: IPv4
- Peer 1 address: expc1.acanotaclab.com
- Peer 2 address: expc2.acanotaclab.com
- Peer 3 address: (empty)
- Peer 4 address: (empty)

On the right side, there are status indicators:

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



注意：在Overview頁上，2500 Free Registrations on VCS，許可證型別為遍歷和非遍歷。

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

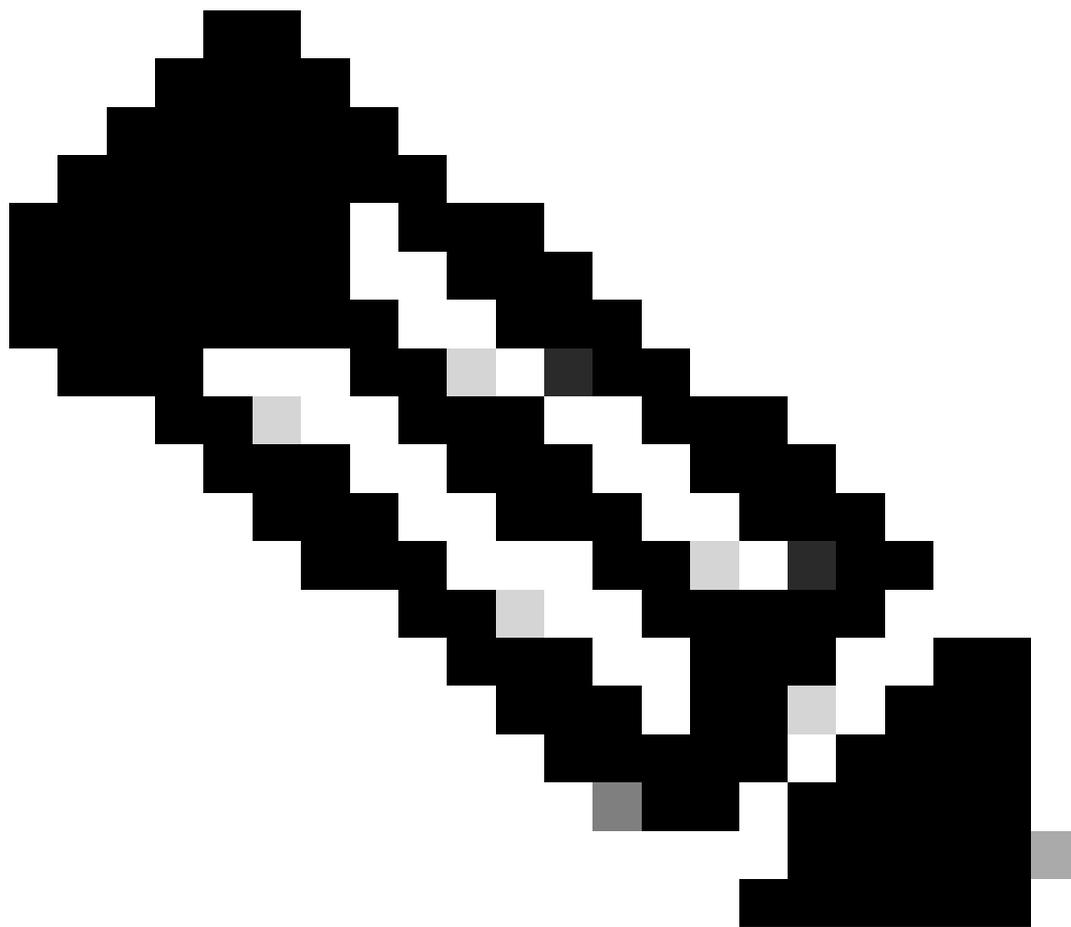
IPv4 address LAN 1: 192.168.10.22

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「選項金鑰」選項，而在Expressway上，您也有「智慧許可」選項。



註：從x14.2開始，Expressway系列上的「選項金鑰」選項已刪除；僅支援智慧許可。

← → ↻ 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

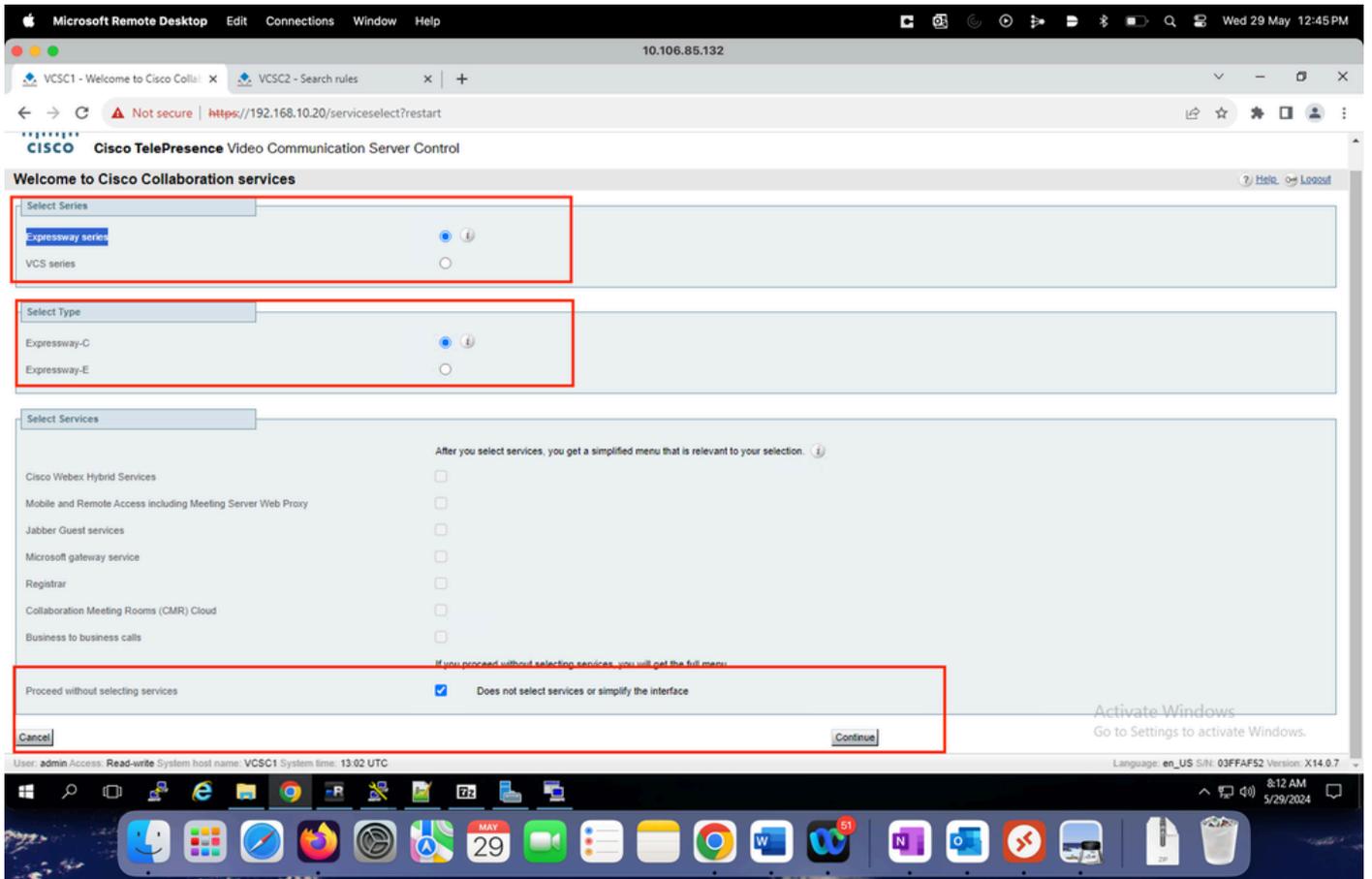
- [Test whether a pattern match or transform has the expected result](#)
- [Perform a test search for an alias](#)

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

移轉

具有參照片段的轉換步驟：

- 1.) 轉到「Status」下的「Overview」頁，然後按一下Run service setup。
- 2.) 選擇Expressway伺服器 and 伺服器型別，然後相應地選擇C或E
並選擇Proceed。不要選擇服務。
- 3.) 按一下「Continue」（繼續）。



4.) 在下一頁上，應用所獲得的許可證金鑰。否則，您可以跳過Add keys選項並按一下Continue。許可金鑰可以在以後增加。

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.) 在下一頁中，驗證並確認核心配置。

6.) 按一下完成：

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	

需要重新啟動以使更改生效：

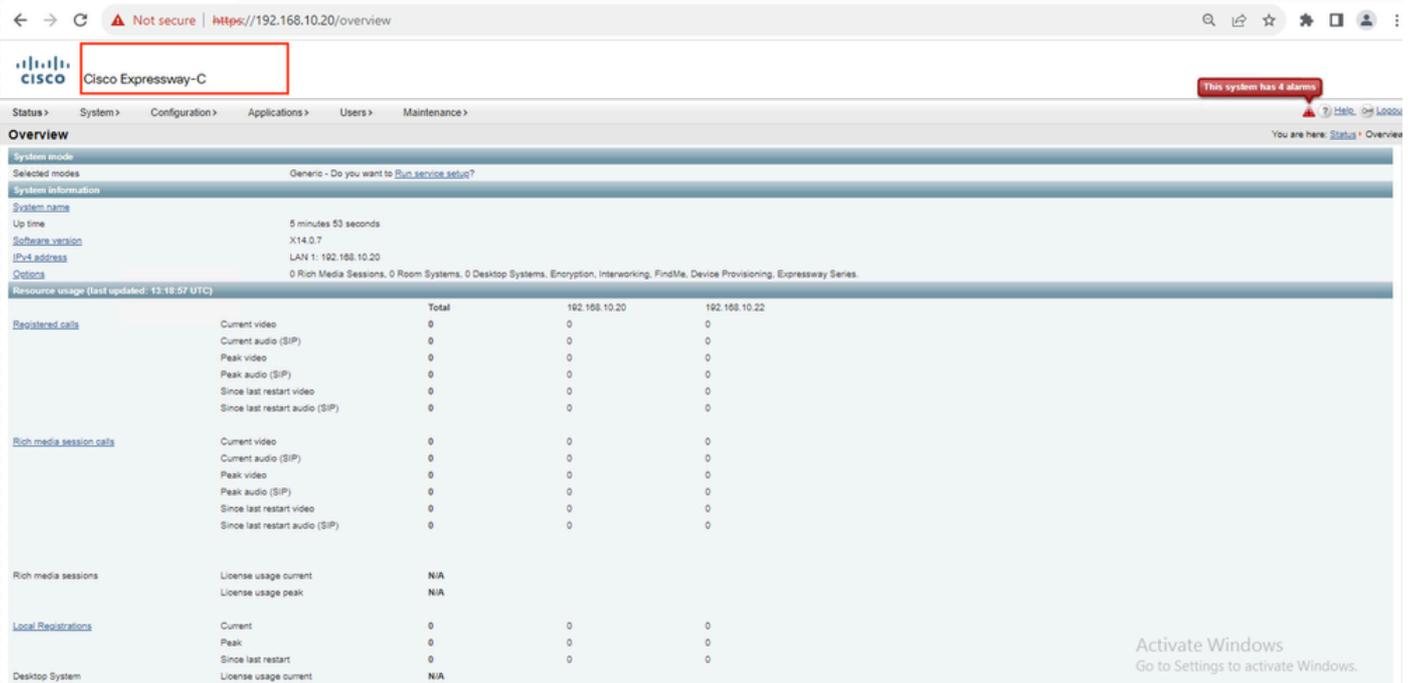
Restart options

 **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	



主要節點已遷移至Expressway :



對等節點仍是VCS伺服器，但未發現任何問題：

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

 **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
Non-traversal calls	Current	0	0	0
	Peak	0	0	0
	Since last restart	0	0	0
	License usage current	0%		
	License usage peak	0%		
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		

7.) 在對等節點上重複以上步驟以遷移到Expressway。

轉換後，兩個節點上未發現任何問題：

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.acanotclab.com' as '10.104.215.216')

許可證型別已更改：



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		

轉換程式已完成。

常見問題

問：轉換是否會影響群集？

A：否

問：主節點的轉換是否會自動將其他節點轉換為Expressway？

答：不，需要在每個節點上單獨完成。

問：對許可證有何影響？

答：許可證已更改。

遷移前需考慮的要點

- 遍歷/非遍歷許可證更改為RMS許可證
- 您在VCS上獲得2500個免費註冊，而Expressway上未提供此服務

- 註冊許可證已更改為案頭/會議室許可證，需要單獨獲取。請與思科銷售團隊聯絡
- Expressway系列不支援x14.2版本之後的傳統許可證：
- 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

相關資訊

VCS已經停止支援：

- 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

關於此翻譯

思科已使用電腦和人工技術翻譯本文件，讓全世界的使用者能夠以自己的語言理解支援內容。請注意，即使是最佳機器翻譯，也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準確度概不負責，並建議一律查看原始英文文件（提供連結）。