

通過Web介面和CLI安裝VCS發行金鑰的配置示例

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簡介

本檔案介紹透過Web介面和指令行介面(CLI)將版本金鑰安裝到Cisco Video Communication Server(VCS)。

必要條件

需求

思科建議您瞭解以下主題：

VCS安裝

已成功安裝VCS並應用了可通過Web介面和/或CLI訪問的有效IP地址。

已申請並已收到適用於VCS序列號的有效發行金鑰。

通過Web介面或CLI通過root (通過CLI) 和admin帳戶訪問VCS。

已從Cisco.com下載VCS軟體升級映像。

附註： 安裝指南可從以下網址獲得：<http://www.cisco.com/c/en/us/support/unified-communications/telepresence-video-communication-server-vcs/products-installation-guides-list.html>

採用元件

本檔案中的資訊是根據以下軟體版本：

VCS版本x8.6.1和x8.7.3

VCS Control x7.X和x8.X版本

VCS Expressway x7.X和x8.X版本

PuTTY(終端模擬軟體)

— 或者，您可以使用支援SSH的任何終端模擬軟體，如Secure CRT、TeraTerm等。

PSCP(PuTTY安全複製協定客戶端)

— 您可以使用支援SCP的任何客戶端。

具有版本金鑰或升級金鑰的許可電子郵件。

Web瀏覽器。在本示例中，使用Firefox時，Internet Explorer和Chrome應該同樣工作正常。

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。如果您的網路正在作用，請確保您已瞭解任何指令可能造成的影響。

設定

Web介面發行金鑰安裝示例

此處有兩個選項：

選項1，您可以**設置發行金鑰**。

選項2，您可以在**升級過程中新增發行金鑰**。

兩個選項均起作用，我們將首先顯示**set**選項，然後顯示**upgrade**選項。

附註：這兩個選項都需要重新啟動VCS。

附註：這兩個選項使用相同的許可電子郵件示例。

選項1，顯示**set**選項。此Web介面示例影片對本文檔進行了補充。

第1步：安裝VCS後，使用您的PAK和序列號申請您的發行金鑰，您將收到思科許可團隊發來的許可電子郵件，其中可能包含或不包含發行金鑰和選項金鑰。在示例電子郵件中，您可以看到用於此文檔的發行金鑰。

附註：PAK的範例不在本檔案的範圍之內。

電子郵件範例

You have received this email because your email address was provided to Cisco Systems during the Serial Number Lookup process for software license activation key/file. Please read this email carefully and forward it with any attachments to the proper system administrator if you are not the correct person.

```
System Serial Number      : 0B616767
Hardware Serial Number    : 0B616767
MAC Address               : 000000000000
Service Contract          : -
SC End Date               : -

Software Part Name        : L-VCS-FINDME:
Tandberg Item No         : L-VCS-FINDME:VCS - Enable User Policy feature
Shipped Version           : -
Shipped Version Key       : 116341U00-1-1C328745
Shipped Image URL         : -
Upgrade To                : -
Upgrade To Key            : 7513492028475672
Upgrade To Image URL      : -
```



Sample Release
Key

```
Options
Cisco Option Name        :LIC-VCS-300:
Tandberg Option Name     :116341X300:VCS - add 300 non-traversal calls
Option Key               :116341X300-1-7D03B558
```

```
Options
Cisco Option Name        :LIC-VCS-DEVPROV:
Tandberg Option Name     :116341P00:VCS - Enable Device Provisioning
Option Key               :116341P00-1-1FEB68A1
```

```
Options
Cisco Option Name        :LIC-VCS-GW:
Tandberg Option Name     :116341G00:VCS - Enable GW feature
Option Key               :116341G00-1-96554215
```

第2步：使用Web瀏覽器訪問VCS的Web介面。使用admin帳戶登入，您將進入VCS狀態螢幕。

附註：本文檔中有些數字故意模糊。



Overview

Note: Login brings you to the Status Screen

System information

| | |
|------------------|--|
| System name | VCS-C |
| Up time | 22 days 32 minutes 11 seconds |
| Software version | X8.6.1 |
| IPv4 address |101 |
| Options | 500 Non Traversal Calls, 150 Traversal Calls, 2500 Registrations, Encryption, Interworking, FindMe, Device Provisioning, Microsoft Interoperability. |

Resource usage (last updated: 17:07:52 EDT)

| | | |
|----------------------------|--------------------------------|----|
| <u>Non-traversal calls</u> | Current | 0 |
| | Peak | 0 |
| | Since last restart | 0 |
| | License usage current | 0% |
| | License usage peak | 0% |
| <u>Traversal calls</u> | Current video | 0 |
| | Current audio (SIP) | 0 |
| | Peak video | 0 |
| | Peak audio (SIP) | 0 |
| | Since last restart video | 0 |
| | Since last restart audio (SIP) | 0 |
| | License usage current | 0% |
| | License usage peak | 0% |
| <u>Registrations</u> | Current | 0 |
| | Peak | 0 |
| | Since last restart | 0 |
| | License usage current | 0% |
| | License usage peak | 0% |

步驟3:導航到適當的螢幕，以安裝您的發行金鑰。將滑鼠懸停在維護頁籤上。



Click on Maintenance

Overview

You are here: Status > Overview

| System information | | |
|--------------------|--|--|
| System name | VCS-C | |
| Up time | 22 days 32 minutes 11 seconds | |
| Software version | X8.6.1 | |
| IPv4 address | .101 | |
| Options | 500 Non Traversal Calls, 150 Traversal Calls, 2500 Registrations, Encryption, Interworking, FindMe, Device Provisioning, Microsoft Interoperability. | |

| Resource usage (last updated: 17:07:52 EDT) | | |
|---|----|--|
| Non-traversal calls | | |
| Current | 0 | |
| Peak | 0 | |
| Since last restart | 0 | |
| License usage current | 0% | |
| License usage peak | 0% | |
| Traversal calls | | |
| Current video | 0 | |
| Current audio (SIP) | 0 | |
| Peak video | 0 | |
| Peak audio (SIP) | 0 | |
| Since last restart video | 0 | |
| Since last restart audio (SIP) | 0 | |
| License usage current | 0% | |
| License usage peak | 0% | |
| Registrations | | |
| Current | 0 | |
| Peak | 0 | |
| Since last restart | 0 | |
| License usage current | 0% | |
| License usage peak | 0% | |

第4步：彈出選單後，按一下Option Keys:



Overview

You are here: Status > Overview

| System information | | |
|--------------------|--|--|
| System name | VCS-C | |
| Up time | 22 days 32 minutes 11 seconds | |
| Software version | X8.6.1 | |
| IPv4 address | .101 | |
| Options | 500 Non Traversal Calls, 150 Traversal Calls, 2500 Registrations, Encryption, Interworking, FindMe, Device Provisioning, Microsoft Interoperability. | |

| Resource usage (last updated: 17:10:32 EDT) | | |
|---|----|--|
| Non-traversal calls | | |
| Current | 0 | |
| Peak | 0 | |
| Since last restart | 0 | |
| License usage current | 0% | |
| License usage peak | 0% | |

- Upgrade
- Logging
- Option keys
- Tools
- Security certificates
- Backup and restore
- Diagnostics
- Maintenance mode
- Language
- Restart options

Click on Option Keys

第5步：觀察Release key部分，如果這是新安裝，則顯示空白的release key欄位。使用當前版本金

鑰值預填充現有VCS安裝的**版本金鑰**欄位。在這種情況下，可使用**Upgrade**選項設定發行金鑰。

附註：版本金鑰在次要版本升級之間不會更改。發行金鑰僅在主要版本升級（如x7.X到x8.X）之間更改。

將您的發行金鑰複製貼上到**發行金鑰**欄位：

The screenshot shows the Cisco TelePresence Video Communication Server Control interface. At the top, there is a navigation bar with tabs for Status, System, Configuration, Applications, Users, and Maintenance. A red notification bubble indicates "This system has 5 alarms". Below the navigation bar, the "Option keys" section is visible, containing a table with the following data:

| Key | Description | Status | Validity period |
|---|-------------------------------|--------|-----------------|
| <input type="checkbox"/> 116341C00-1-1E7D8EDE | Microsoft Interoperability | Active | Unlimited |
| <input type="checkbox"/> 116341G00-1-98554215 | H323-SIP Interworking Gateway | Active | Unlimited |
| <input type="checkbox"/> 116341P00-1-1FEB68A1 | Device Provisioning | Active | Unlimited |
| <input type="checkbox"/> 116341U00-1-1C328745 | FindMe | Active | Unlimited |

Below the table are buttons for "Delete", "Select all", and "Unselect all". The "System information" section shows the serial number as 0B616767 and active options including 500 Non Traversal Calls, 150 Traversal Calls, 2500 Registrations, Encryption, Interworking, FindMe, Device Provisioning, and Microsoft Interoperability. The "Software option" section has an "Add option key" field. The "Release key" section has a "Release key" field, which is highlighted with a red box. A red callout box points to this field with the text: "Note the Release Key section and the blank field if this is a new VCS. This may have a value if the release key is already installed. Copy your newly acquired Release Key into this field." Below the "Release key" field is a "Set release key" button.

第6步：您可以看到貼上到**Release key**欄位的**發行密鑰**。



This system has 5 alarms

Option keys

You are here: Maintenance > Option k

| Key | Description | Status | Validity period |
|---|-------------------------------|--------|-----------------|
| <input type="checkbox"/> 116341C00-1-1E7D8EDE | Microsoft Interoperability | Active | Unlimited |
| <input type="checkbox"/> 116341G00-1-98554215 | H323-SIP Interworking Gateway | Active | Unlimited |
| <input type="checkbox"/> 116341P00-1-1FEB68A1 | Device Provisioning | Active | Unlimited |
| <input type="checkbox"/> 116341U00-1-1C328745 | FindMe | Active | Unlimited |

Delete Select all Unselect all

System information

Serial number: 0B616767

Active options: 500 Non Traversal Calls, 150 Traversal Calls, 2500 Registrations, Encryption, Interworking, FindMe, Device Provisioning, Microsoft Interoperability.

Software option

Add option key:

Here, I've pasted in the release key from our email example above.

Add option

Release key

Release key:

Set release key

Current licenses

第7步：現在按一下Set release key:



This system has 6 alarms

Option keys

You are here: Maintenance > Option I

| Key | Description | Status | Validity period |
|---|-------------------------------|--------|-----------------|
| <input type="checkbox"/> 116341C00-1-1E7D8EDE | Microsoft Interoperability | Active | Unlimited |
| <input type="checkbox"/> 116341G00-1-96554215 | H323-SIP Interworking Gateway | Active | Unlimited |
| <input type="checkbox"/> 116341P00-1-1FEB68A1 | Device Provisioning | Active | Unlimited |
| <input type="checkbox"/> 116341U00-1-1C328745 | FindMe | Active | Unlimited |

Delete Select all Unselect all

System information

Serial number: 0B616767
Active options: 500 Non Traversal Calls, 150 Traversal Calls, 2500 Registrations, Encryption, Interworking, FindMe, Device Provisioning, Microsoft Interoperability.

Software option

Add option key ⓘ

Add option

Release key

Release key: 7513492028475672 ⓘ

Set release key

Now I click Set release key

Current licenses

第8步：按一下頁面頂部顯示的提示中的restart超連結以重新啟動VCS:



Option keys

Saved The release key has been updated, however a restart is required for it to take effect.

| Key | Description | Status | Validity period |
|---|-------------------------------|--------|-----------------|
| <input type="checkbox"/> 116341C00-1-1E7D8EDE | Microsoft Interoperability | Active | Unlimited |
| <input type="checkbox"/> 116341G00-1-96554215 | H323-SIP Interworking Gateway | Active | Unlimited |
| <input type="checkbox"/> 116341P00-1-1FEB68A1 | Device Provisioning | Active | Unlimited |
| <input type="checkbox"/> 116341U00-1-1C328745 | FindMe | Active | Unlimited |

Delete Select all Unselect all

Notice how a message comes up saying I need to restart, click on restart and follow steps from there to reload the VCS. Once rebooted, the key will be installed.

System information

Serial number: 0B616767

Active options: 500 Non Traversal Calls, 150 Traversal Calls, 2500 Registrations, Encryption, Interworking, FindMe, Device Provisioning, Microsoft Interoperability.

Software option

Add option key:

Add option

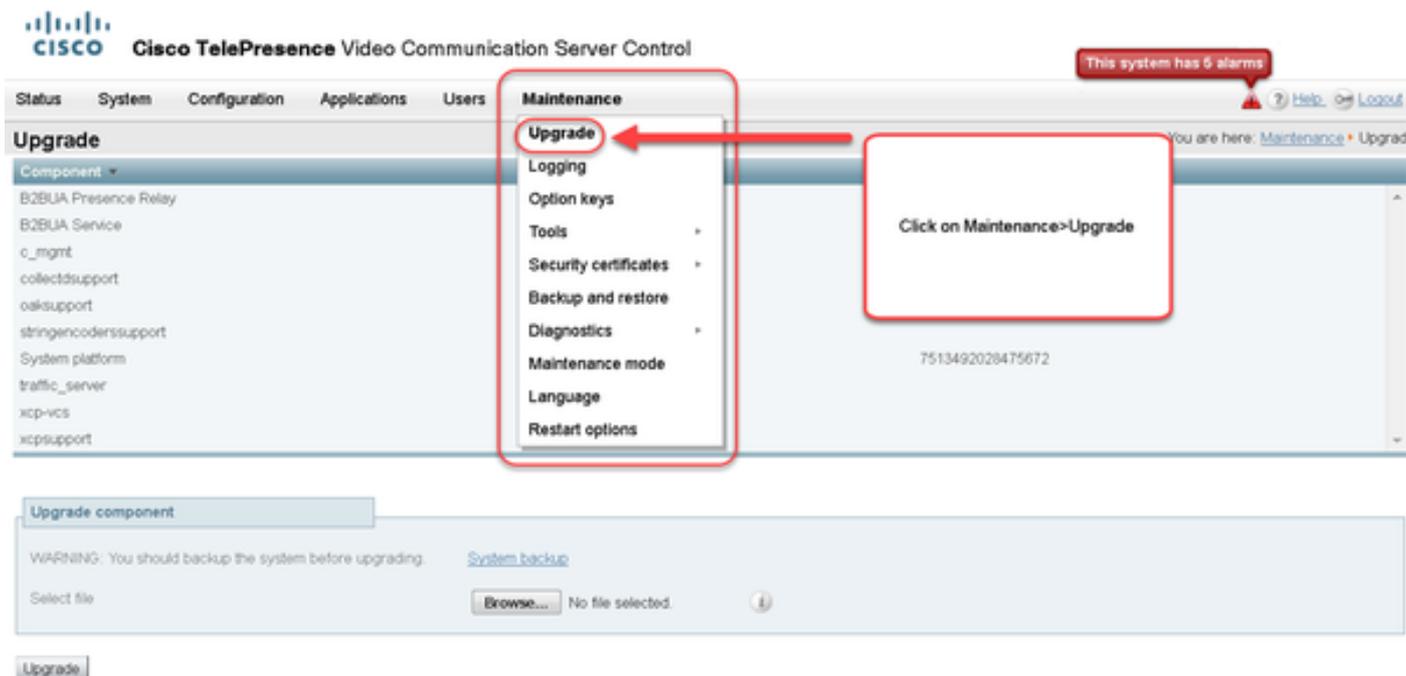
Release key

Release key: 7513492028475672

Set release key

選擇二：用於安裝發行金鑰的升級選項

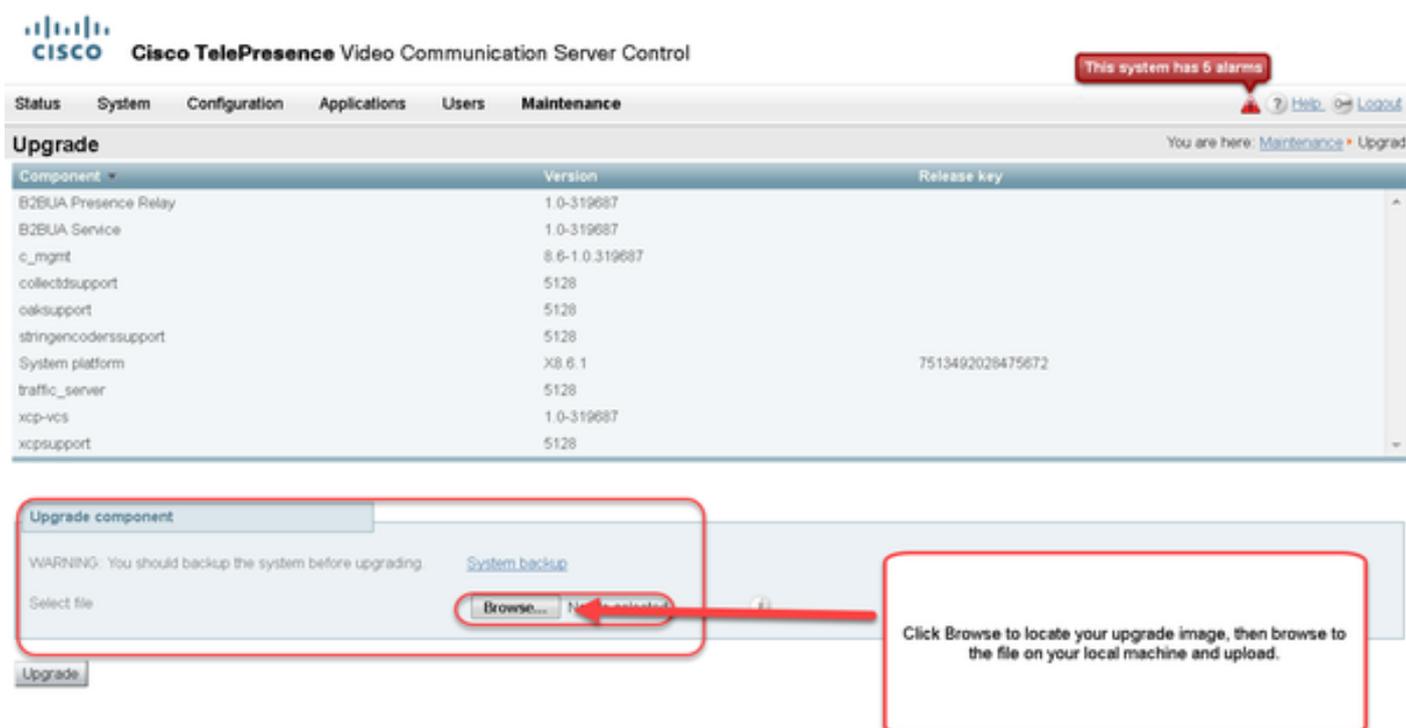
第1步：在Web介面上，按一下「Maintenance (維護)」，然後在選單彈出視窗中按一下「Upgrade」。



第2步：在Upgrade螢幕上，您會看到Upgrade Component部分。

附註：本文檔假定您已將VCS軟體升級映像下載到本地電腦。

按一下Browse以找到下載的VCS升級映像：



步驟3:出現提示時，在Release key欄位中輸入release key值。從電子郵件中複製並貼上，或者，如

果是次要升級（如本例中為x8.6.1到x8.7.3），則從同一螢幕複製並貼上它：

Upgrade

| Component | Version | Release key |
|-----------------------|----------------|------------------|
| B2BUA Presence Relay | 1.0-319687 | |
| B2BUA Service | 1.0-319687 | |
| c_mgmt | 8.6-1.0.319687 | |
| collectsupport | 5128 | |
| oaksupport | 5128 | |
| stringencoderssupport | 5128 | |
| System platform | X8.6.1 | 7513492028475672 |
| traffic_server | 5128 | |
| xcp-vcs | 1.0-319687 | |
| xcpsupport | 5128 | |

Upgrade component

WARNING: You should backup the system before upgrading. [System backup](#)

Select file: s42700x8_7_3.tar.gz

Release key:

Once the file is selected, you can paste your release key in the field noted to the left. You can copy the release key from your licensing email. Or, if you are just doing a minor upgrade like in this example from 8.6.1 to 8.7.3, you can copy and paste the release key already installed which is circled above in this example

第4步：按一下**Upgrade**按鈕。觀察後續進程，不要離開該進程，或者必須重新開始。將上傳映像，然後進行安裝。出現提示時，按一下**restart**。

Upgrade

| Component | Version | Release key |
|-----------------------|----------------|------------------|
| B2BUA Presence Relay | 1.0-319687 | |
| B2BUA Service | 1.0-319687 | |
| c_mgmt | 8.6-1.0.319687 | |
| collectsupport | 5128 | |
| oaksupport | 5128 | |
| stringencoderssupport | 5128 | |
| System platform | X8.6.1 | 7513492028475672 |
| traffic_server | 5128 | |
| xcp-vcs | 1.0-319687 | |
| xcpsupport | 5128 | |

Upgrade component

WARNING: You should backup the system before upgrading. [System backup](#)

Select file: s42700x8_7_3.tar.gz

Release key:

Information

The 16-character release key for the new software version. This is not required if you are upgrading to a dot release, for example from 1.0 to 1.1.

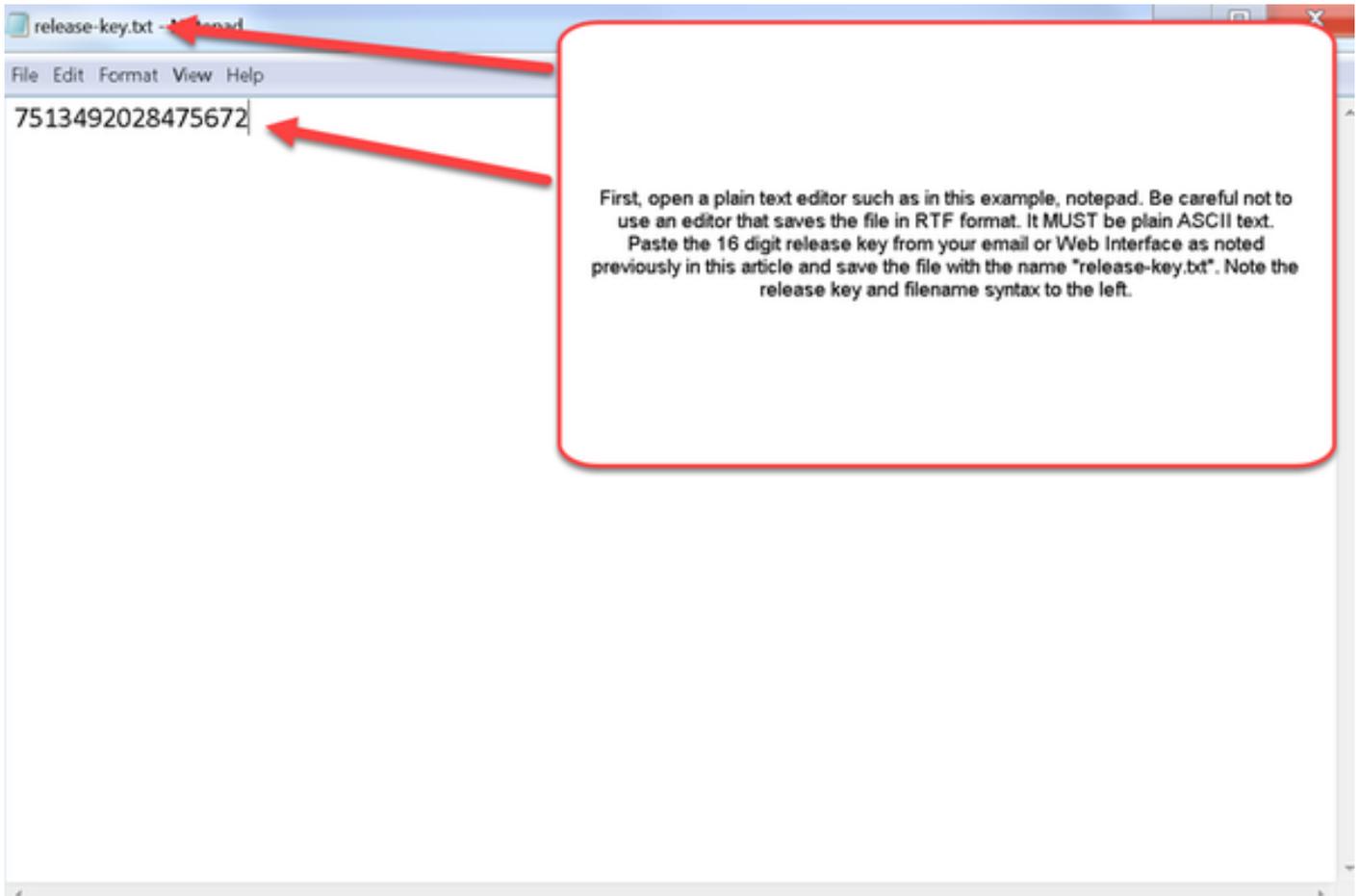
Once the release key is pasted, you can click upgrade and then follow the steps from there. Do not leave the screens or you will have to start over. The image will first upload, then it gets installed and finally you restart the VCS. Once it is restarted and comes back up, it should be on the new release and the release key can be verified exactly the same as with a fresh install.

在VCS重新啟動後，驗證該版本是否安裝正確。使用本檔案**驗證**一節中所述的兩種方法。

CLI發行金鑰安裝示例

通過CLI安裝發行金鑰。此過程包含兩部分，包括使用SCP客戶端（在本示例中為PSCP）和終端模擬軟體應用程式（如PuTTY）。

第1步：將發行金鑰複製到純文字檔案檔案ASCII中。確保在釋放鍵值之前或之後沒有空格。將發行金鑰複製到文本編輯器應用程式中，將檔案另存為release-key.txt:



第2步：將release-key.txt檔案和PSCP.exe放在電腦上的同一目錄中。在Windows中使用命令(CMD)提示導航到該目錄，並將發行金鑰複製到VCS上的臨時目錄。使用PSCP事務的根帳戶。出現提示時輸入根帳戶密碼。驗證100%所示的傳輸已完成。以下是範例：



Note in the first circle above, we are using a Windows CMD prompt where I've saved the release-key.txt file to my desktop. In the first line, I've navigated to my desktop with the CMD command "cd desktop" and then am copying the file over to the VCS using free ware putty PSCP. In the next circle, I am copying over the image to the VCS using PSCP. and the third circled item is showing the progress. Once complete, I will use putty SSH shell to restart the VCS.

步驟3:複製要升級到的映像，例如此處使用的8.7.3。使用PSCP複製此映像。確認狀態顯示為100%，軟體映像已完成複製到VCS，並且您準備好重新啟動VCS:

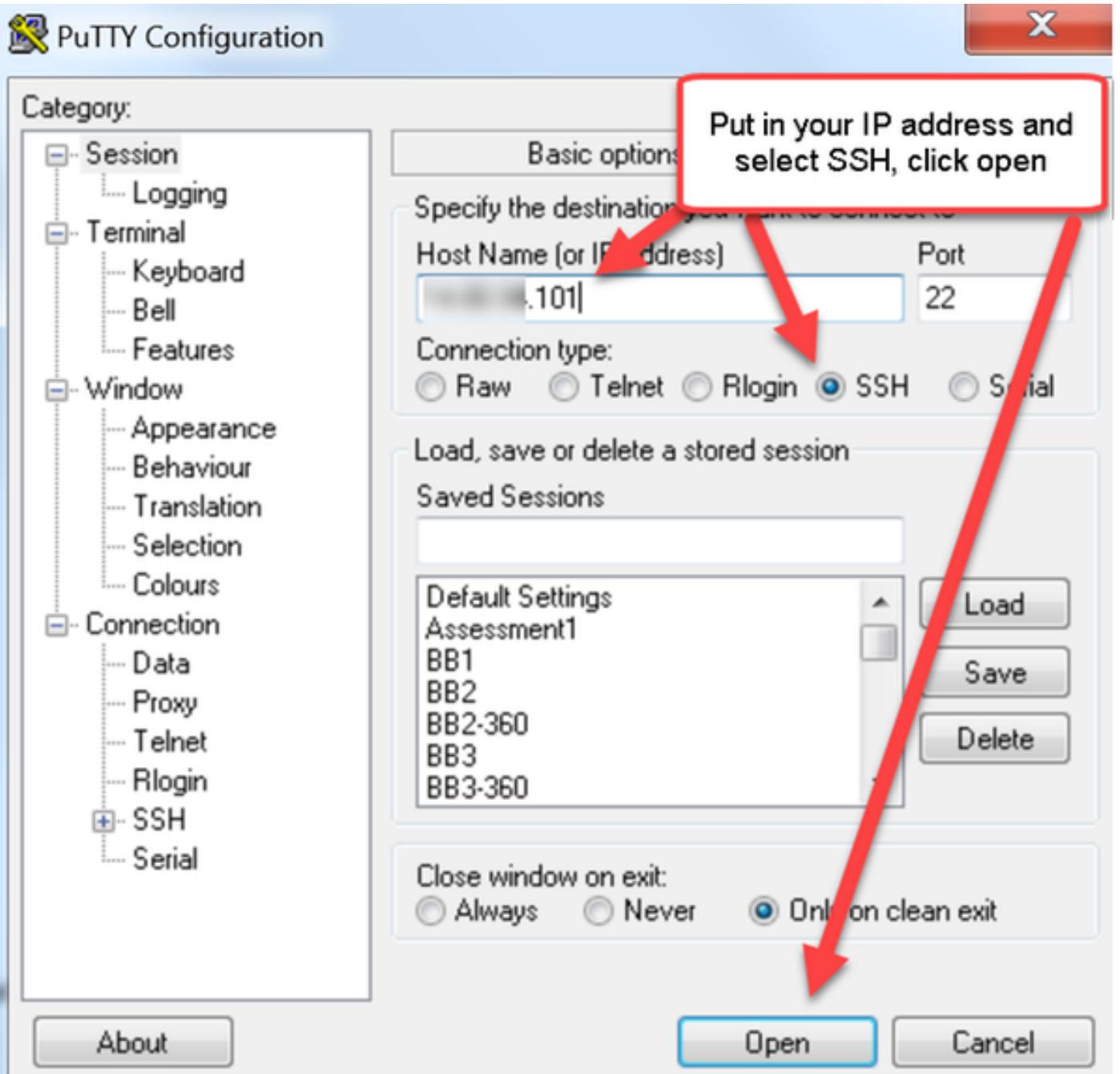
```
C:\Users\jawaii\Desktop>pscp release-key.txt root@ .101:/tmp/release-key
Using keyboard-interactive authentication.
Password:
release-key.txt | 0 kB | 0.0 kB/s | ETA: 00:00:00 | 100%

C:\Users\jawaii\Desktop>pscp s42700x8_7_3.tar.gz root@ .101:/tmp/tandberg
-image.tar.gz
Using keyboard-interactive authentication.
Password:
s42700x8_7_3.tar.gz 454854 kB | 584.6 kB/s | ETA: 00:00:00 | 100%

C:\Users\jawaii\Desktop>
```

Note, the installation is complete. Now we go to Putty and reboot the VCS via CLI from an SSH session. Alternatively, you can reboot the VCS from the Web Interface.

第4步：通過到VCS的SSH會話重新啟動VCS。開啟PuTTY並鍵入VCS的IP地址。按一下SSH開啟：



第5步：出現提示時，按一下**Open**並使用管理員帳戶登入VCS。出現提示時輸入管理員帳戶密碼。驗證您有正確的命令來重新啟動VCS。輸入命令，後跟空格和問號，確保命令正確。VCS確認xCommand Boot將重新啟動VCS。輸入命令xCommand Boot重新啟動VCS。



VCS閃爍，表示正在重新啟動且PuTTY會話關閉。此行為是正常的，因為VCS重新啟動時會終止連線。VCS重新引導大約需要5分鐘。完成後，按照本文檔的驗證部分所述，通過Web介面或CLI驗證發行金鑰是否正確安裝。

驗證

發行金鑰安裝的Web介面驗證

驗證網路介面中安裝的發行金鑰的方法有兩種：

選項1:如前所述，檢視Options Key頁面，然後檢查Release key欄位。

The screenshot shows the Cisco TelePresence Video Communication Server Control web interface. The main navigation bar includes Status, System, Configuration, Applications, Users, and Maintenance. A red notification bubble indicates "This system has 6 alarms". The "Option keys" section is active, displaying a table with the following data:

| Key | Description | Status | Validity period |
|---|-------------------------------|--------|-----------------|
| <input type="checkbox"/> 116341C00-1-1E7D8EDE | Microsoft Interoperability | Active | |
| <input type="checkbox"/> 116341G00-1-96554215 | H323-SIP Interworking Gateway | Active | |
| <input type="checkbox"/> 116341P00-1-1FEB68A1 | Device Provisioning | Active | |
| <input type="checkbox"/> 116341U00-1-1C328745 | FindMe | Active | |

Below the table are buttons for "Delete", "Select all", and "Unselect all". The "System information" section shows a serial number of 0B616767 and active options including 500 Non Traversal Calls, 150 Traversal Calls, 2500 Registrations, Encryption, Interworking, FindMe, Device Provisioning, and Microsoft Interoperability. The "Software option" section has an "Add option key" input field. The "Release key" section shows a "Release key" input field with the value 7513492028475672, which is highlighted by a red box and a red arrow pointing from a box labeled "Release Key is installed". A "Set release key" button is located below the input field.

選項2:檢查Upgrade頁面，如前所述：

This system has 6 alarms

Upgrade

| Component | Version | Release key |
|-----------------------|----------------|-------------|
| B2BUA Presence Relay | 1.0-319687 | |
| B2BUA Service | 1.0-319687 | |
| c_mgmt | 8.6-1.0.319687 | |
| collectdsupport | 5128 | |
| oaksupport | 5128 | |
| stringencoderssupport | 5128 | |
| System platform | X8.6.1 | |
| traffic_server | 5128 | |
| xcp-vcs | 1.0-319687 | |
| xcpsupport | 5128 | |

7513492028475672



You can see the Release Key on the Upgrade Screen too.

Upgrade component

WARNING: You should backup the system before upgrading. [System backup](#)

Select file No file selected

發行金鑰安裝的CLI介面驗證

通過到CLI的SSH會話驗證通過CLI介面安裝的發行金鑰。使用本文檔前面提到的admin帳戶登入。到達該位置後，發出xStatus SystemUnit Software命令。您觀察到升級成功，且已安裝版本金鑰：

```
login as! admin
Using keyboard-interactive authentication
Password:
5 alarms:
 * warning TMS Provisioning Extension services communication failure - The VC
S is unable to communicate with the TMS Provisioning Extension services. Phone b
ook service failures can also occur if TMS does not have any users provisioned a
gainst this cluster.
 * warning Insufficient media ports - There is an insufficient number of medi
a ports to support the number of licensed calls
 * warning Insecure password in use - The root user has the default password
set
 * warning Configuration warning - For phone book requests to work correctly,
authentication policy must be enabled on the Default Subzone and any other rele
vant subzone; authentication must also be enabled on the Default Zone if the end
points are not registered
 * warning Configuration warning - For provisioning to work correctly, authen
tication policy must be enabled on the Default Zone and any other relevant zone
that receives provisioning requests

Last login: Thu Nov 3 23:49:32 EDT 2016 from 10.10.10.135 on pts/0
TANDBERG Video Communication Server X8.7.3
SW Release date: 2016-04-14 10:10, build
OK

xastatus systemunit software
#a SystemUnit: /
Software:
Build: oak_v8.7.3 rc 2
Configurations:
AdvancedAccountSecurity: "False"
DeviceProvisioning: "True"
DualNetworkInterfaces: "False"
Encryption: "True"
EnhancedOCSCollaboration: "True"
Expressway: "False"
ExpresswaySeries: "False"
FindMe: "True"
Interworking: "True"
NonTraversalCalls: "500"
Registrations: "2500"
StarterPack: "False"
TraversalCalls: "150"
Name: "e42700"
ReleaseDate: "2016-04-14"
ReleaseKey: 7533492028475672
Version: "X8.7.3"
#a/end
OK
```

SSH into the VCS and login as admin and enter the admin password when prompted.

Note in this specific example, my VCS is upgraded now and my release key is installed.

疑難排解

在Cisco VCS上安裝版本金鑰時，您應該不會遇到任何問題。在VCS的Release key欄位中輸入選項金鑰，或在升級是故障的最常見原因時輸入選項金鑰。本文開頭提到的電子郵件示例除了版本金鑰之外還顯示選項。在Release Key (發行金鑰) 欄位中輸入選項鍵時出錯：

CISCO Cisco TelePresence Video Communication Server Control

This system has 5 alarms

Status System Configuration Applications Users Maintenance

Option keys

Saved: The release key has been updated, however a **release key** is required for it to take effect.

| Key | Description | Status | Validity | Information |
|----------------------|-------------------------------|--------|-----------|---|
| 116341000-1-1E7D8E0E | Microsoft Interoperability | Active | Unlimited | Specifies the option key of your software option. These are added to the system in order to add extra functionality, such as increasing the system's capacity. Contact your Cisco representative for further information. Range: 0 to 1024 characters |
| 116341000-1-96554215 | H323-SIP Interworking Gateway | Active | Unlimited | |
| 116341P00-1-1FEB68A1 | Device Provisioning | Active | Unlimited | |
| 116341U00-1-1C326745 | FindMe | Active | Unlimited | |

System information

Serial number: 0B6167C7

Active options: 500 Non Traversal Calls, 150 Traversal Calls, 2000 Registrations, Encryption, Interworking, FindMe, Device Provisioning, Microsoft Interoperability

Software option

Add option key

Add option

Release key

Release key: 116341000-1-1E7D

Set release key

Here, I have pasted into the release key field to the left, the Microsoft Interoperability Option Key noted above. The VCS will let me do this, I then click Set release key which the VCS also lets me do and it prompts me to restart at the top of the page.

VCS接受Release key (發行金鑰) 欄位中的任何值。使用輸入的錯誤值重新啟動VCS，您會收到錯誤「Invalid release key(無效發行金鑰)」：

CISCO Cisco TelePresence Video Communication Server Control

This system has 6 alarms

Status System Configuration Applications Users Maintenance

Overview

Invalid release key: Release key is missing: the system is in demonstration mode and has limited functionality, contact your Cisco support representative to buy your release key.

System information

System name: VCS-C

Up time: 8 minutes 8 seconds

Software version: X8.7.3

IPv4 address: 14.80.94.101

Options: 501 Non Traversal Calls, 150 Traversal Calls, 3 Registrations, Encryption, Interworking, FindMe, Device Provisioning, Microsoft Interoperability

Resource usage (last updated: 01:41:40 EDT)

| Resource | Current | Peak | Since last restart | License usage current | License usage peak |
|---------------------|--------------------------------|------|--------------------|-----------------------|--------------------|
| Non-traversal calls | Current | 0 | 0 | 0% | 0% |
| | Peak | 0 | 0 | | |
| | Since last restart | 0 | 0 | | |
| | License usage current | | | 0% | 0% |
| | License usage peak | | | | 0% |
| Traversal calls | Current video | 0 | 0 | | |
| | Current audio (SIP) | 0 | 0 | | |
| | Peak video | 0 | 0 | | |
| | Peak audio (SIP) | 0 | 0 | | |
| | Since last restart video | 0 | 0 | | |
| | Since last restart audio (SIP) | 0 | 0 | | |
| | License usage current | | | 0% | 0% |
| License usage peak | | | | 0% | |
| Registrations | Current | 0 | 0 | | |
| | Peak | 0 | 0 | | |
| | Since last restart | 0 | 0 | | |
| | License usage current | | | 0% | 0% |
| | License usage peak | | | | 0% |

Now I have an Invalid Release Key
To fix this, I simply follow the release key process noted in this document and install the RELEASE KEY and not an option key.

請按照本檔案中說明的方式安裝版本金鑰，以修正此情況。

針對任何其他型別的故障，請與Cisco TAC聯絡。