

# 通过Web界面和CLI配置示例安装VCS版本密钥

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## 简介

本文档介绍如何通过Web界面和命令行界面(CLI)将版本密钥安装到Cisco Video Communication Server(VCS)。

## 先决条件

### 要求

Cisco 建议您了解以下主题：

VCS安装

已成功安装VCS并应用了可通过Web界面和或CLI访问的有效IP地址。

已申请并收到对VCS序列号有效的版本密钥。

通过Web界面或CLI，可以同时使用根（通过CLI）和管理员帐户访问VCS。

已从Cisco.com下载VCS软件升级映像。

**注意：**安装指南位于：<http://www.cisco.com/c/en/us/support/unified-communications/telepresence-video-communication-server-vcs/products-installation-guides-list.html>

### 使用的组件

本文档中的信息基于以下软件版本：

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** ( 终端仿真软件 )

— 或者，您可以使用任何支持SSH的终端仿真软件，如Secure CRT、TeraTerm等。

**PSCP** ( PuTTY安全复制协议客户端 )

— 您可以使用支持SCP的任何客户端。

使用版本密钥或升级密钥许可电子邮件。

Web 浏览器.在本例中，使用Firefox，Internet Explorer和Chrome应同样良好。

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。如果您使用的是真实网络，请确保您已经了解所有命令的潜在影响。

## 配置

### Web界面版本密钥安装示例

您有两种选择：

选项1，您可以设置释放键。

选项2，您可以在升级过程中添加版本密钥。

任一选项都有效，我们将先显示set选项，然后显示upgrade选项。

**注意：**两个选项都需要VCS重新启动。

**注意：**两个选项使用相同的许可电子邮件示例。

选项1显示set选项。本Web界面示例视频补充了本文档。

步骤 1：安装VCS后，使用PAK和序列号获取序列号并应用您的版本密钥，您会收到思科许可团队发来的许可证电子邮件，其中可能包含或不包含版本密钥和选项密钥。在示例电子邮件中，您可以看到用于本文档的版本密钥。

**注意：**PAK示例不在本文档的范围内。

### 电子邮件示例

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
```

步骤 2：使用Web浏览器访问VCS的Web界面。使用管理员帐户登录，您将进入VCS Status屏幕。

**注意：**有些数字在本文档中故意模糊。



Overview

Note: Login brings you to the Status Screen

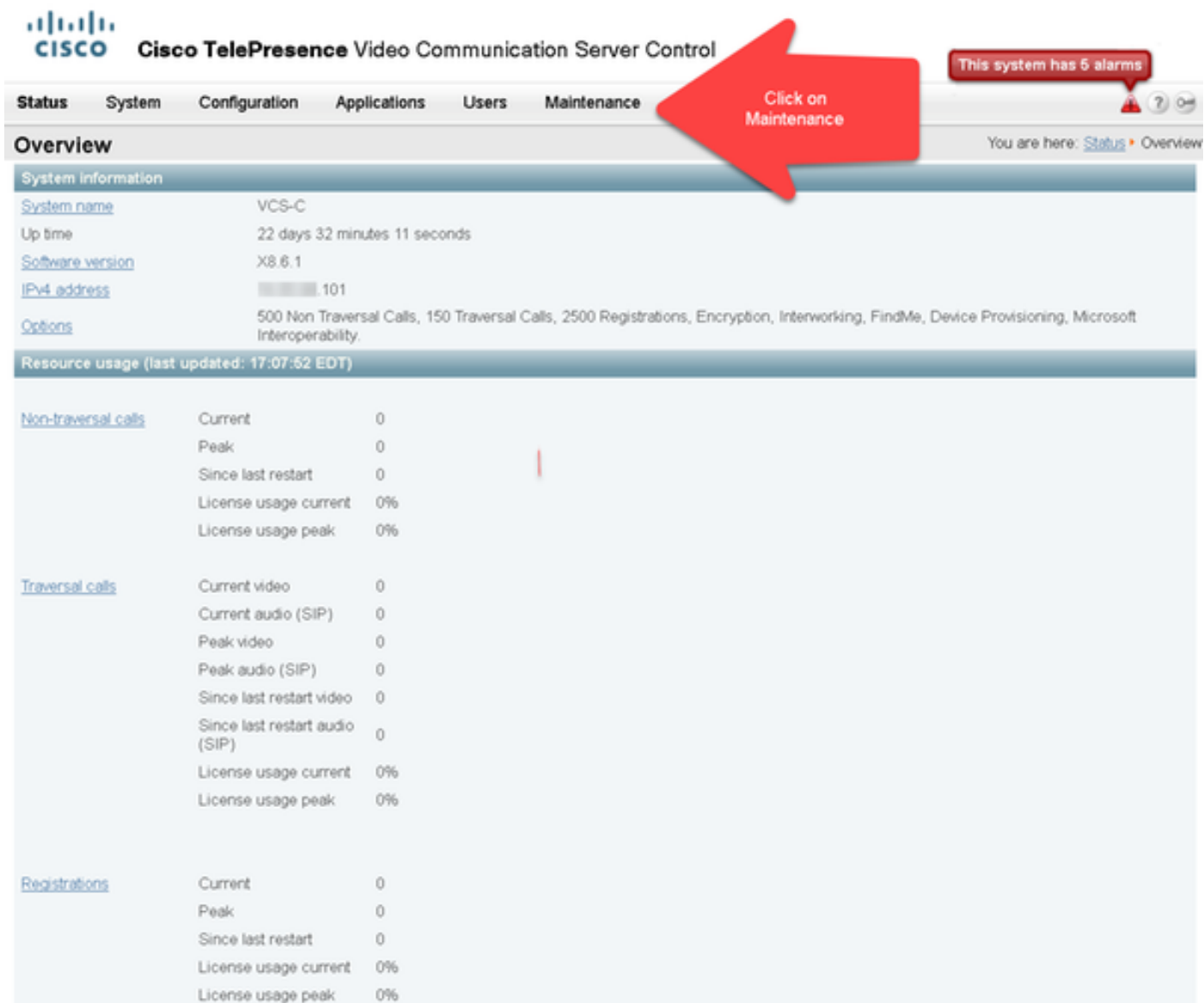
**System information**

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.

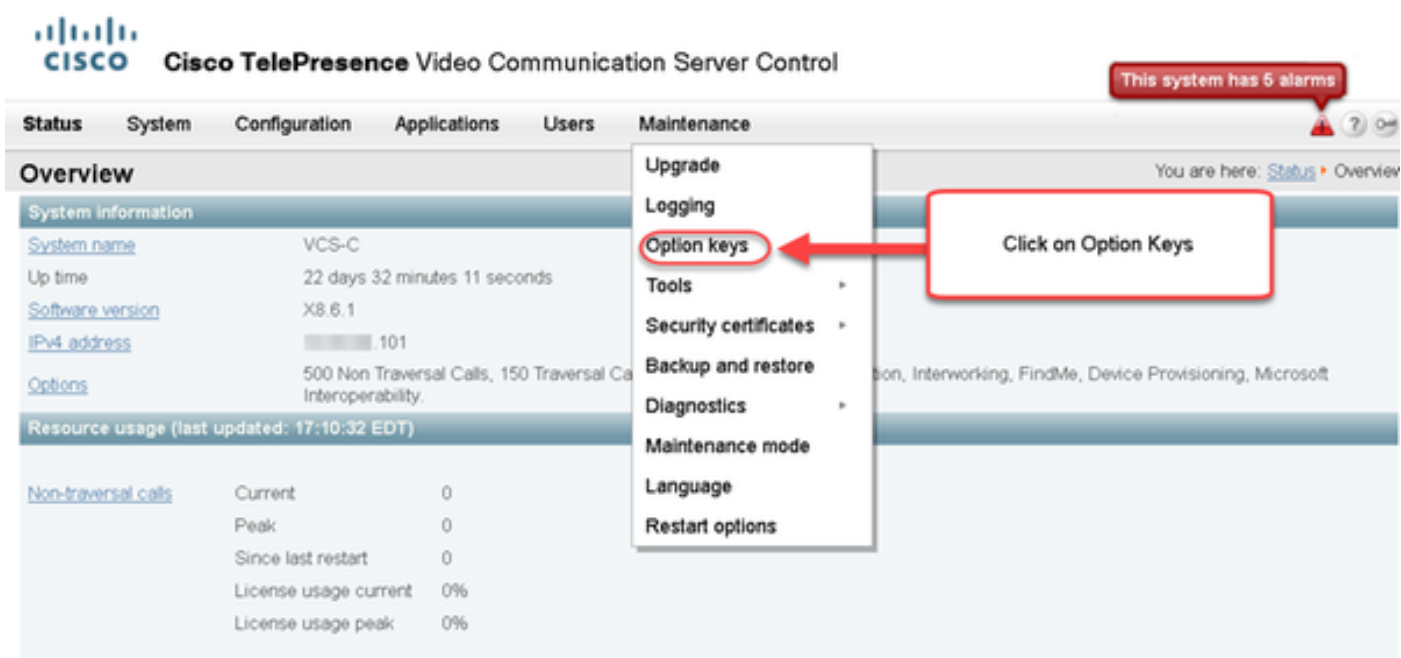
**Resource usage (last updated: 17:07:52 EDT)**

<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%

步骤 3：导航至适当的屏幕以安装您的版本密钥。将鼠标悬停在维护选项卡上。



步骤 4：弹出菜单后，单击选项键：



步骤 5：观察Release key部分，如果这是新安装，则有一个空白的Release key字段。现有VCS安

装的Release key字段已预填充当前版本密钥值。在这种情况下，使用升级选项设置版本密钥。

**注意：**版本密钥在次要版本升级之间不会更改。版本密钥仅在主要版本升级（如x7.X到x8.X）之间更改。

将您的版本密钥复制并粘贴到“版本密钥”字段：

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, there is a section for "Option keys" with a table listing various keys and their descriptions. Below the table, there are buttons for "Delete", "Select all", and "Unselect all".

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, there is a "System information" section with fields for "Serial number" (0B616767) and "Active options" (500 Non Traversal Calls, 150 Traversal Calls, 2500 Registrations, Encryption, Interworking, FindMe, Device Provisioning, Microsoft Interoperability).

There is a "Software option" section with an "Add option key" field. Below it is an "Add option" button.

The "Release key" section is highlighted with a red box. It contains a "Release key" field, which is also highlighted with a red box. A red arrow points from a text box to this field. The text box contains the following 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.

步骤 6：您可以看到粘贴到“释放密钥”(Release key)字段的释放密钥。



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

步骤 7：现在，单击“Set release key(设置版本密钥)”：



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"/> 116341G00-1-98554215	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  ⓘ

Add option

Release key

Release key 7513492028475672 ⓘ

Set release key

Now I click Set release key

Current licenses

步骤 8::单击页面顶部提示符中的restart 超链接以重新启动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

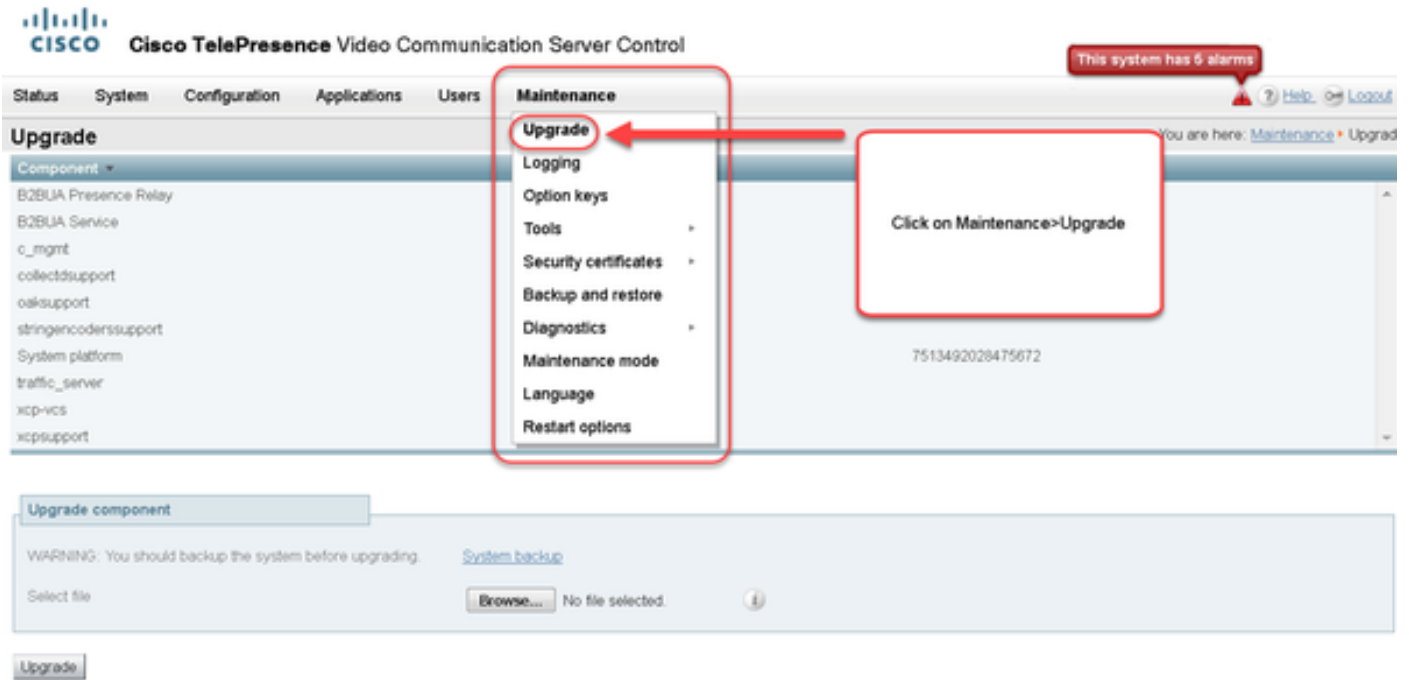
**Release key**

Release key: 7513492028475672

Set release key

选项二：升级选项以安装版本密钥

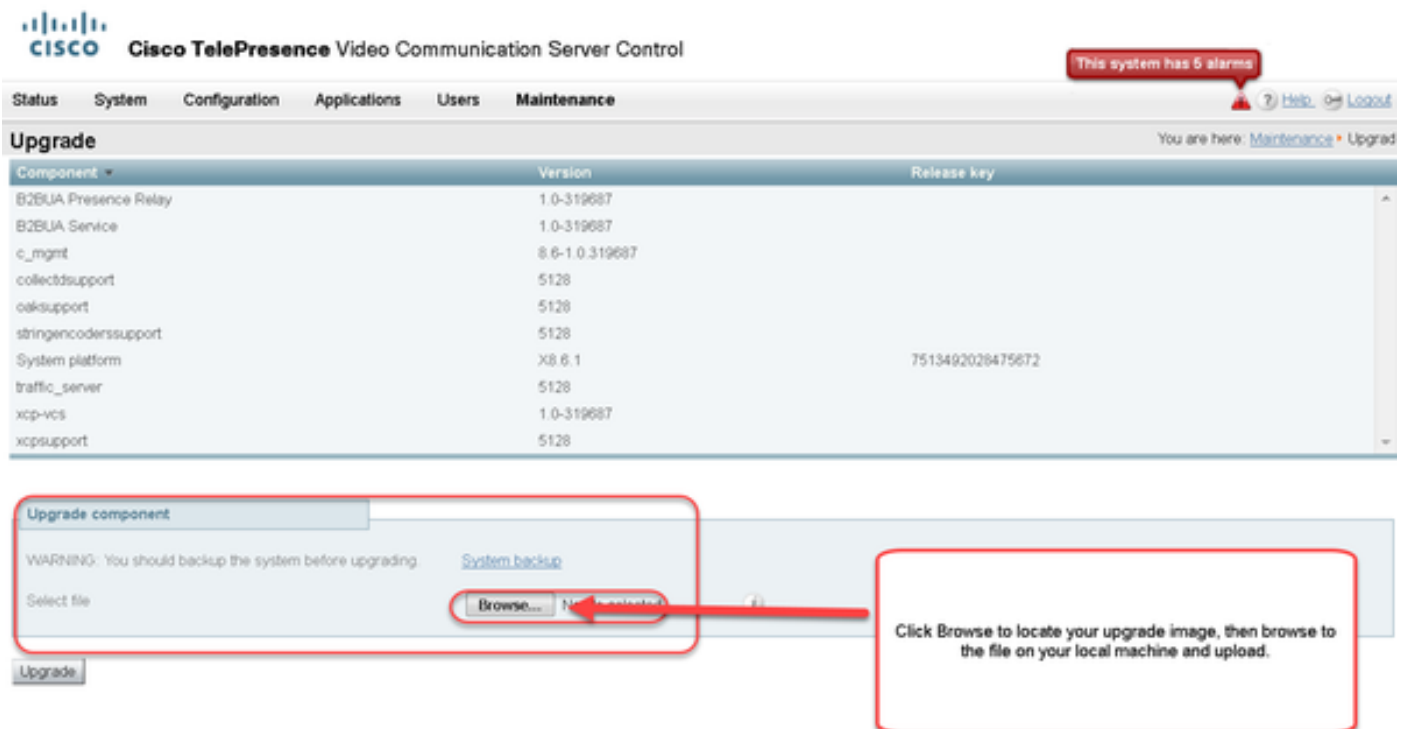
步骤 1：在Web界面中，按前面的方式单击“维护”，然后在菜单弹出窗口中单击“升级”。



步骤 2：在“升级”屏幕上，您会看到“升级组件”部分。

**注意：**本文档假设您已将VCS软件升级映像下载到本地计算机。

单击“Browse(浏览)”以查找已下载的VCS升级映像：



步骤 3：出现提示时，在Release key字段中输入释放密钥值。从邮件中复制并粘贴，或者如果这是

次要升级，例如x8.6.1到x8.7.3，则从同一屏幕复制并粘贴：

**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

步骤 4：单击“升级”按钮。观察后面的进程，不要离开该进程或必须重新开始。映像将上传，然后安装。出现提示时单击重新启动。

**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.

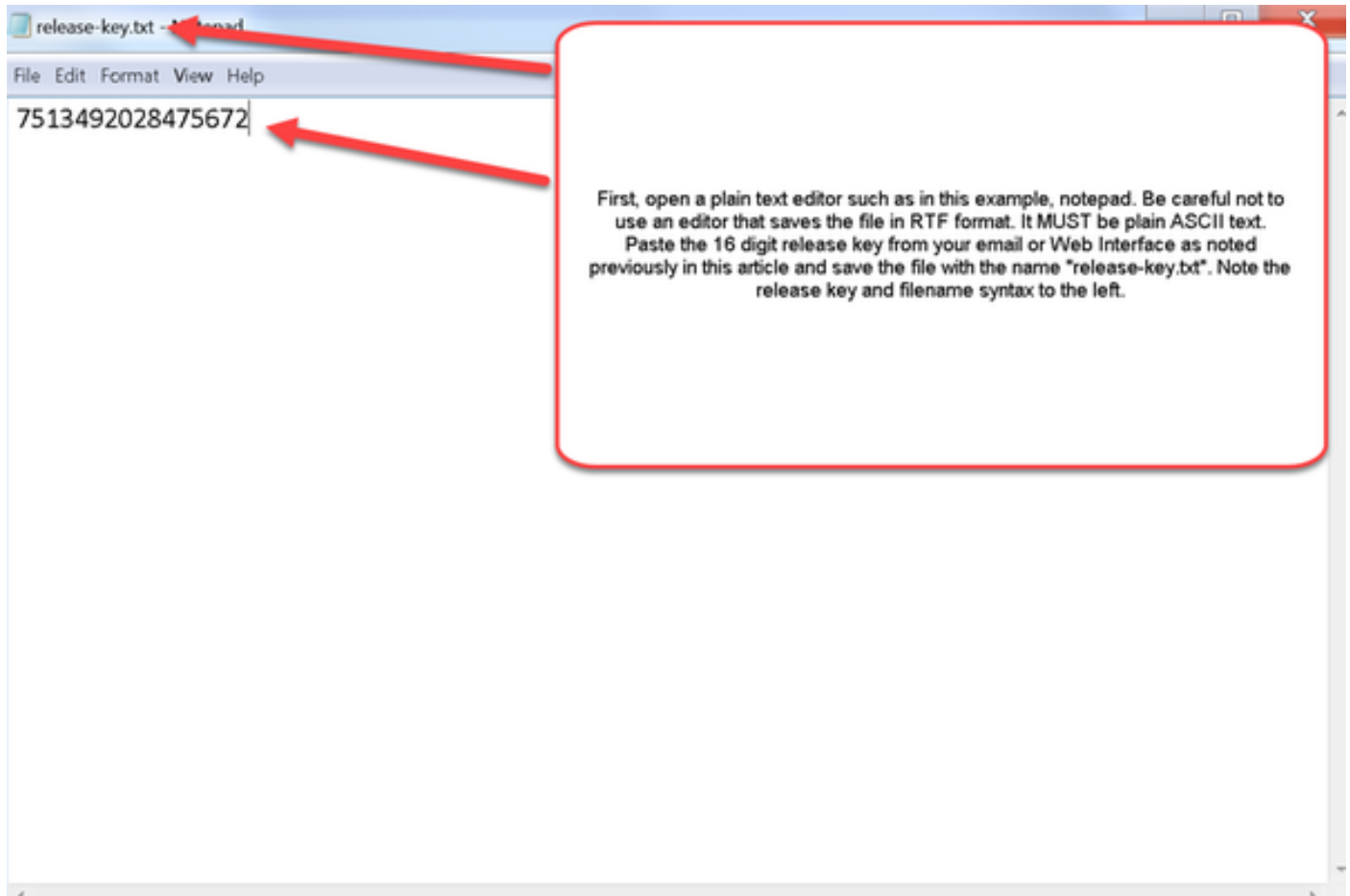
Once the release key is pasted, you can click upgrade and then follow the steps from there. Do not leave the screens or you will have to start over. The image will first upload, then it gets installed and finally you restart the VCS. Once it is restarted and comes back up, it should be on the new release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

在VCS重新启动后，验证版本是否已正确安装。使用本文档“验证”部分中介绍的两种方法。

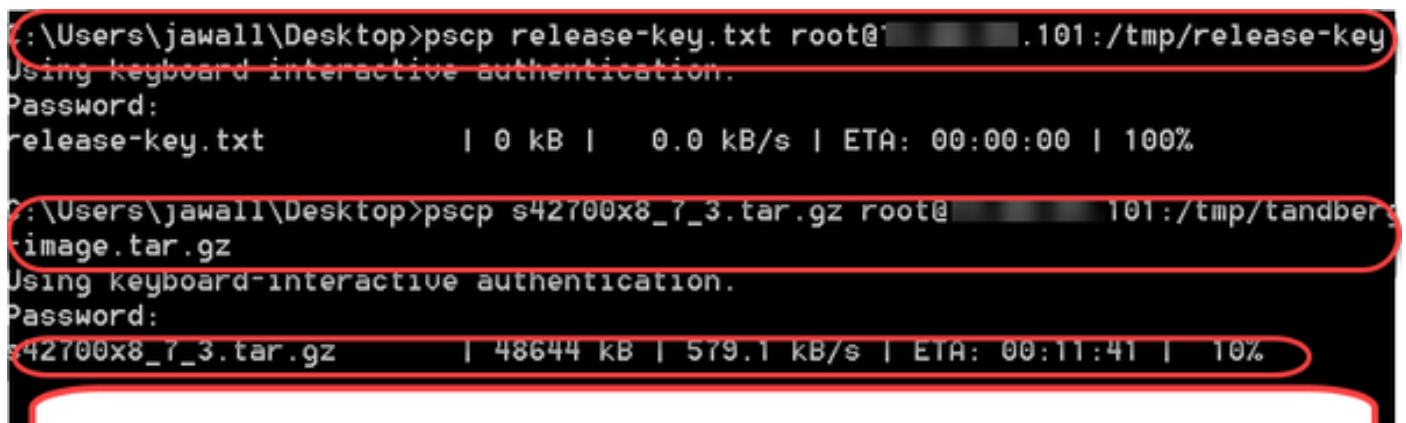
## CLI版本密钥安装示例

通过CLI安装版本密钥。这是一个包含两部分的过程，涉及在Windows的命令(CMD)提示符下使用SCP客户端（本例中为PSCP）和终端仿真软件应用程序（如PuTTY）。

步骤 1：将您的版本密钥复制到纯ASCII文本文件中。确保释放密钥值前后没有空格。将版本密钥复制到文本编辑器应用程序中，将文件保存为release-key.txt:



步骤 2：将release-key.txt文件和PSCP.exe放在计算机上的同一目录中。在Windows中使用命令(CMD)提示符导航到该目录，然后将版本密钥复制到VCS上的临时目录。使用PSCP事务的根帐户。根据提示输入根帐户密码。按100%的指示验证已完成的转接。示例如下：



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.

步骤 3：复制要升级到的映像，如此处使用的8.7.3。使用PSCP复制此映像。验证状态显示为100%，软件映像已完成复制到VCS，并且您已准备好重新启动VCS：

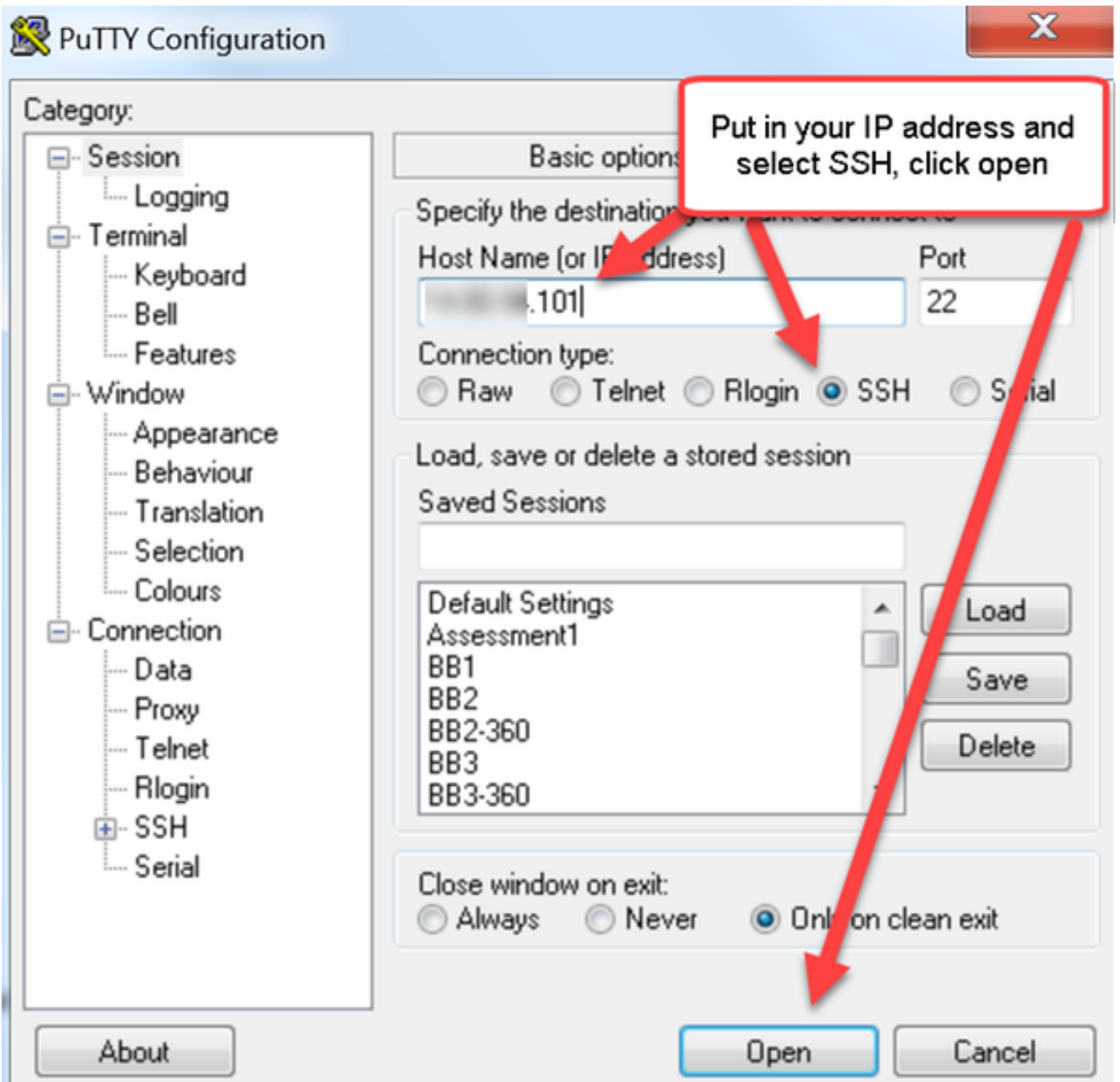
```
C:\Users\jawaii\Desktop>pscp release-key.txt root@ .101:/tmp/release-key
Using keyboard-interactive authentication.
Password:
release-key.txt | 0 kB | 0.0 kB/s | ETA: 00:00:00 | 100%

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.

步骤 4：通过与VCS的SSH会话重新启动VCS。打开PuTTY并键入VCS的IP地址。单击SSH打开：



步骤 5：出现提示时，单击Open并使用管理员帐户登录VCS。出现提示时输入管理员帐户密码。检验您是否具有重新启动VCS的正确命令。输入命令，后跟空格和问号，以确保其正确。VCS确认xCommand Boot将重新启动VCS。输入命令xCommand Boot以重新启动VCS。



VCS闪烁，表明它正在重新启动，并且您的PuTTY会话关闭。此行为是正常的，因为连接在VCS重新启动时终止。VCS重新启动大约需要五分钟。完成后，按照本文档的“验证”部分所述，通过Web界面或CLI验证正确安装的版本密钥。

## 验证

### 版本密钥安装的Web界面验证

验证Web界面中安装的版本密钥的方法有两种：

选项 1：如前所述，查看“选项密钥”页，并选中“发布密钥”字段。

The screenshot shows the Cisco TelePresence Video Communication Server Control web interface. The main navigation bar includes Status, System, Configuration, Applications, Users, and Maintenance. The current page is 'Option keys', which displays a table of option keys. The table has columns for Key, Description, Status, and Validity period. Below the table are sections for System information, Software option, and Release key. A red box highlights the 'Release key' field containing the value '7513492028475672'. A red arrow points from this field to a red box containing the text 'Release Key is installed'.

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	

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:

Set release key

Information

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

Release Key is installed

选项 2：如前所述，检查升级页面：

This system has 6 alarms

Upgrade You are here: Maintenance > 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	7513492028475672
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.

## 版本密钥安装的CLI界面验证

通过与CLI的SSH会话验证通过CLI界面安装的版本密钥。使用管理员帐户登录，如本文档前面所述。到达后，您将发出命令xStatus SystemUnit Software。您会看到升级成功，并且安装了版本密钥：



```
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.

## 故障排除

在Cisco VCS上安装版本密钥时，您不应有任何问题。在VCS的Release key字段中输入选项键，或在升级是导致故障最常见原因时输入选项键。本文开头引用的电子邮件示例除了发行密钥外，还显示了选项密钥。当在Release Key字段中输入选项键时出错：

**CISCO Cisco TelePresence Video Communication Server Control**

This system has 5 alarms

Status System Configuration Applications Users Maintenance

You are here: Maintenance > Option keys

**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	
116341P00-1-1FE868A1	Device Provisioning	Active	Unlimited	
116341U00-1-1C328745	FindMe	Active	Unlimited	

System information

Serial number: 08616707

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字段中的任何值。重新启动VCS，输入的值不正确，您会收到错误“Invalid release key”：

**CISCO Cisco TelePresence Video Communication Server Control**

This system has 6 alarms

Status System Configuration Applications Users Maintenance

You are here: Status > Overview

**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.

按照本文档中的说明安装版本密钥以更正此情况。

请联系思科TAC，寻求其他故障类型的帮助。