

# Install VCS Option Key Via Web Interface and CLI Configuration Example

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## Introduction

This document describes the installation of an option key on a Cisco Video Communication Server (VCS) via Web Interface and Command Line Interface (CLI).

## Prerequisites

### Requirements

Cisco recommends that you have knowledge of these topics:

- VCS Installation
- Have successfully installed the VCS and have applied a valid IP address that is reachable via web interface and or CLI
- Have applied for and received a release key valid for the VCS serial number
- Have access to the VCS with an admin account by web interface or CLI

**Note:** Installation guides can be found here: <http://www.cisco.com/c/en/us/support/unified-communications/telepresence-video-communication-server-vcs/products-installation-guides-list.html>

## Components Used

The information in this document is based on these software versions:

- VCS Version x8.7.3
- VCS Control x7.X and x8.X releases
- VCS Expressway x7.X and x8.X releases
- PuTTY (terminal emulation software)

- Alternatively, you could use any terminal emulation software that supports Secure Shell (SSH) such as Secure CRT, TeraTerm and so on.
- Licensing email with an Option Key.
- A web browser, such as Firefox, Internet Explorer or Chrome.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

## Configure

### Web Interface Option Key Installation Example

This web interface example video supplements this document.

Step 1. Once you have installed your VCS, have your serial number and applied for your option keys with the use of your Product Authorization Key (PAK) and serial number, you will receive a license email from the Cisco Licensing team which contains a release key and option keys. Here's an example of what you receive and how to find the option keys.

**Note:** Examples of PAK are outside the scope of this document.

### Example Licensing Email

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            : -
Upgrade To Image URL     : -
```

```
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
```

```
Options
Cisco Option Name        : LIC-VCS-000:
Tandberg Option Name     : 116341000:VCS - Enable VCS 000 feature
Option Key                : 116341000-1-00000000
```

This is the name and type of option key you will install.

This alpha-numeric chain is what you will add through the Web Interface or CLI

Step 2. Log into web interface with an admin account, Navigate to **Maintenance > Option**

Keys as shown in the image.



The screenshot shows the Cisco TelePresence VCS Expressway web interface. The 'Maintenance' tab is selected, and a dropdown menu is open. The 'Option keys' option is highlighted with a red box. The background shows the 'Overview' section with system information and resource usage.

System information	Value
System name	
Up time	3 hours 29 minutes
Software version	X8.7.3
Pv4 address	
Options	200 Non Traversal C

Resource usage (last updated: 23:29:00 UTC)	
Non-traversal calls	Current
	Peak
	Since last restart
License usage current	0%
License usage peak	0%
Traversal calls	Current video
	Current audio (SIP)
	Peak video

Step 3. Copy the option key from the email you received and paste it in the **Add option Key** field and click **Add option** as shown in the image.

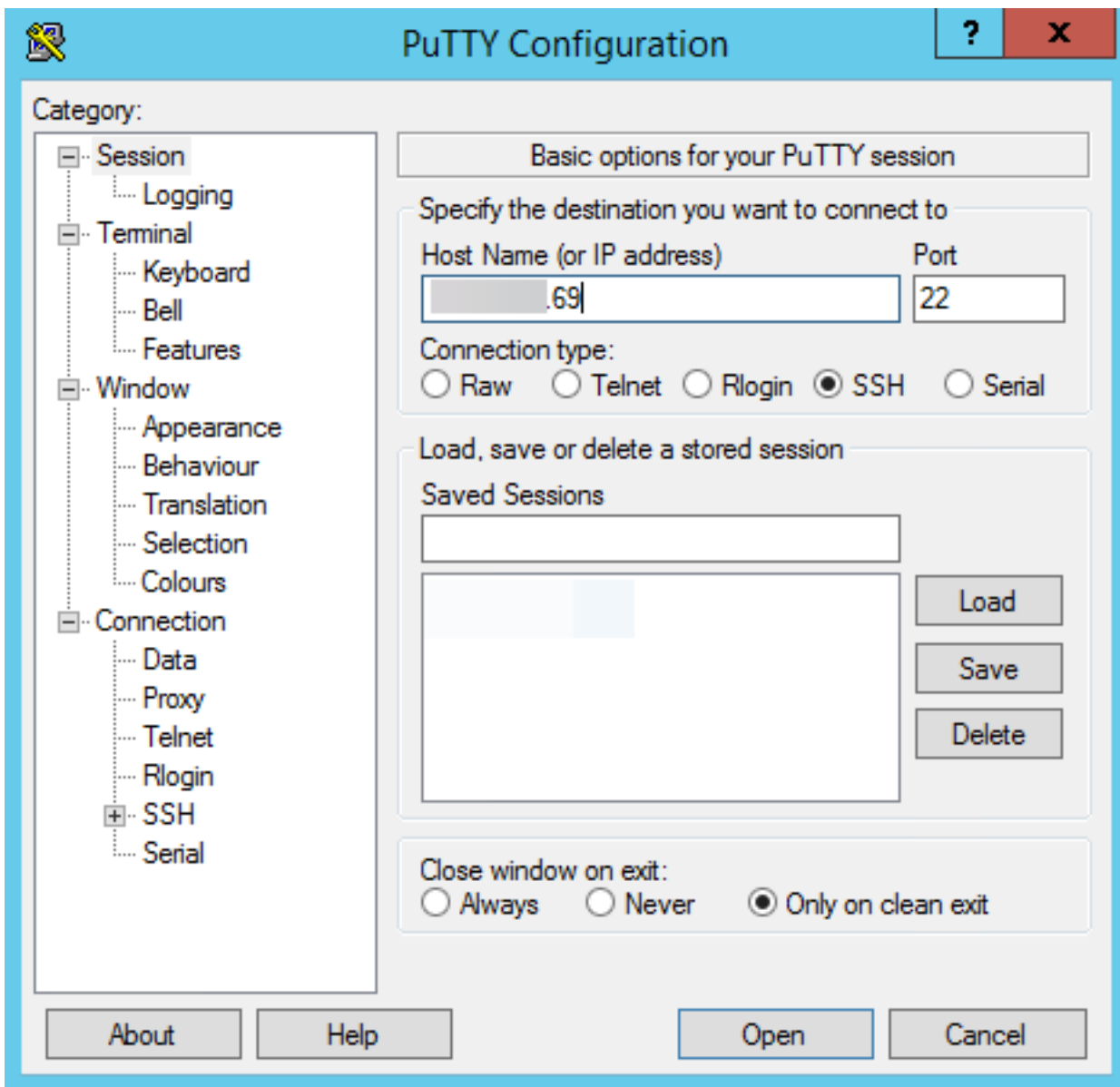
The screenshot shows the 'Software option' configuration page. The 'Add option key' field is highlighted with a green arrow. The field contains the value '116341Y50-1-5153D689'. Below the field is an 'Add option' button.

**Caution:** Add the option key in the field **Add Option key**. It is a common mistake to add an option key in the **Release key** field which causes an error.

**Note:** When you add an option key to a VCS, it takes effect immediately. A restart is NOT required.

## CLI Option Key Configuration Example

Step 1. Open a CLI SSH session as shown in the image.



Step 2. Log in with an admin account and enter the admin password when prompted.

Step 3. Enter the command, **xCommand OptionKeyAdd Key: <option key>** as shown in the image.

```
login as: admin
Using keyboard-interactive authentication.
Password:

2 alarms:
 * warning   Insecure password in use - The root user has the default password
set
 * warning   Insecure password in use - The admin user has the default password
set

Last login: Mon Nov  7 00:14:54 UTC 2016
TANDBERG Video Communication Server X8.7.3
SW Release date: 2016-04-14 10:20, build

OK
xCommand OptionKeyAdd Key: 116341L00-1-D1E934F8
*r Result (status=OK)
  ID: 3
*r/end
```

**Caution:** Add the option key in the field **Add Option key**. It is a common mistake to add an option key in the **Release key** field which causes an error.

**Note:** When you add an option key to a VCS, it takes effect immediately. A restart is not required.

## Verify

Use this section in order to confirm that your configuration works properly.

Add an option key. Observe at the top of the **Option Keys** page, a banner is displayed that states **Option key added** and the key is displayed in the **Key** list as shown in the image.

Status System **Configuration** Applications Users Maintenance

### Option keys

Option key added

Key	Description	Status	Validity period
<input type="checkbox"/> 116341Y50-1-5153D689	50 Traversal Calls	Active	Unlimited

Delete Select all Unselect all

System information

Serial number 09C166FF

Active options 0 Non Traversal Calls, 50 Traversal Calls, 2500 Registrations, Encryption.

Software option

Add option key

Add option

Release key

Release key

Set release key

Current licenses

Non-traversal calls	0
Traversal calls	50
Registrations	2500

## Troubleshoot

This section provides information you can use in order to troubleshoot your configuration.

Add a key and you see an error, "Unable to add option key" as shown in the image.

Cisco TelePresence Video Communication Server Control

Status System Configuration Applications Users Maintenance

### Option keys

Unable to add option key

Key	Description	Status	Validity period
<input type="checkbox"/> 116341Y50-1-5153D689	50 Traversal Calls	Active	Unlimited

Delete Select all Unselect all

- Confirm that you correctly copy the alpha-numeric chain that it is an option key value. Ensure there were no extra spaces or characters.
- Confirm that you apply the option key to the correct VCS or Expressway. The option keys are matched to the device serial number.
- Confirm you add the option key in the **Add option key** field and not the Release key field. The VCS accepts the option key in the **Release Key** field and prompt for a restart as shown in the image.

**Note:** When you add an option key to a VCS, it takes effect immediately. A restart is not required.

### Option keys

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

Observe after restart, a banner pops up with an error "Invalid release key" as shown in the image.



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.

Install the release key and option key in the correct fields and restart the VCS again to correct this issue.

If you encounter errors after you confirm the procedures documented in the Troubleshoot section of this document, contact Cisco TAC.