# Install Option Key on TC Based Endpoint

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#### Introduction

This document describes how to apply a Release Key and an Option Key license to Telepresence Codec (TC) software based endpoints via the web interface and Command Line Interface (CLI).

## **Prerequisites**

### Requirements

Cisco recommends that you have knowledge of these topics:

- TC Software Based Enpoints
- Successfully installed the TC endpoint and applied a valid IP address that is reachable via web interface and or CLI.
- Applied for and received a licensing email with any option or release keys valid for the device serial number.
- Accessed the TC endpoint with an admin account by web interface or CLI.
- Familiar with TC Software based endpoint installation guides:

**SX Series** 

**MX Series** 

EX Series, C Series

### **Components Used**

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

- TC Software 7.X releases
- PuTTY Secure Shell (SSH) terrinal emulation software for Comman Line (CLI) access.

- Any TC software endpoint such as C series, MX series, SX series or EX series.
- Licensing email with a Release Key or 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, ensure that you understand the potential impact of any command.

# Configure

### **Add Option Keys Through Web Interface**

**Note**: Release Keys for TC endpoints are not required after TC6.3. You can only add release keys by the CLI via an SSH session after version TC6.3.

Step1. Review your licensing email which contains a release key and options keys. Here is an example 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 : FCZ Hardware Serial Number : FTT

MAC Address : E4C72260A8FE

Service Contract : -

SC End Date : -

Software Part Name : LIC-S52010-TC-K9:

Tandberg Item No ::

Shipped Version : TC7.3.6 Shipped Version Key : 1TC007-1-

Shipped Image URL : -

Upgrade To : TC7.3.6
Upgrade To Key : 1TC007-1-

Upgrade To Image URL : -

Release Key

Options

Cisco Option Name :L-SX20-MS:

Tandberg Option Name :L-SX20-MS :SX20 MultiSite Software Option

Option Key :1M003-1-

Options

Cisco Option Name :LIC-SX20-HD:

Tandberg Option Name :LIC-SX20-HD:SX20 License Key for HD

Option Key :1R001-1-

Options

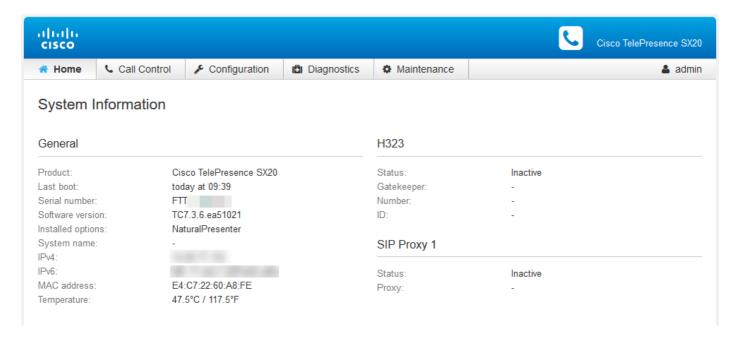
Cisco Option Name :LIC-SX20-NPP:

Tandberg Option Name :LIC-SX20-NPP:SX20 Natural Presenter Package (NPP)

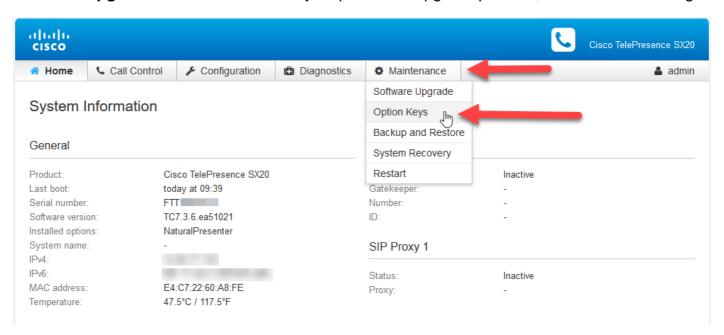
Option

Option Key :1N000-1-4

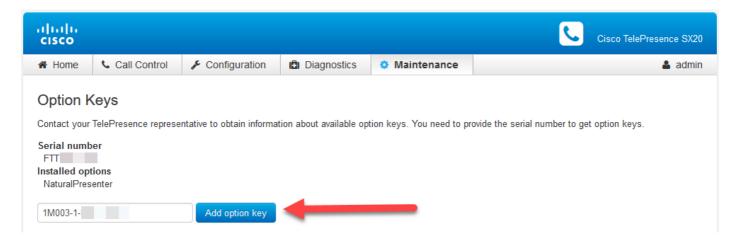
Step 2. Navigate to the web interface of the endpoint. Enter the IP address of the unit into a web browser and log in with an admin account as shown in the image.



Step 3. Navigate to **Maintenance > Option Keys** to install option keys or **Maintenance > Software Upgrade** to install a release key as part of the upgrade process, as shown in the image.



Step 4. Add each option key received by email. Enter the **option key value** into the **Add option key** field and then click **Add option key** as shown in the image.

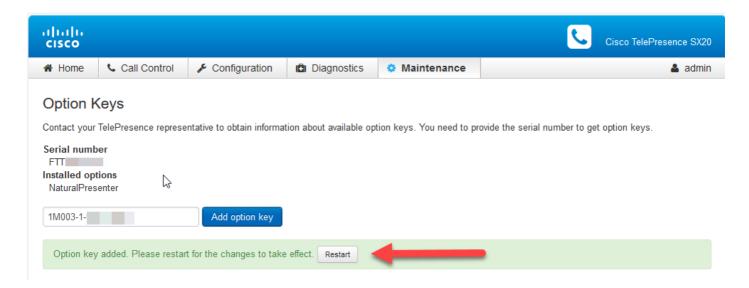


Step 5. Add all option keys one by one. Click Restart after all option keys are added as shown in

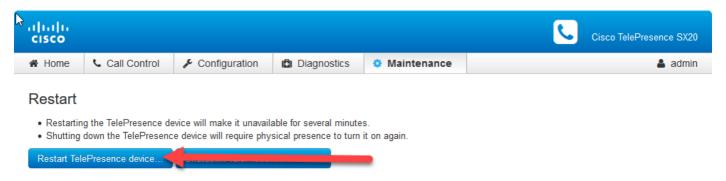
the image.

**Note**: A restart is required for the option keys to take effect.

**Note**: If the endpoint is in a call, the call drops when the endpoint restarts.

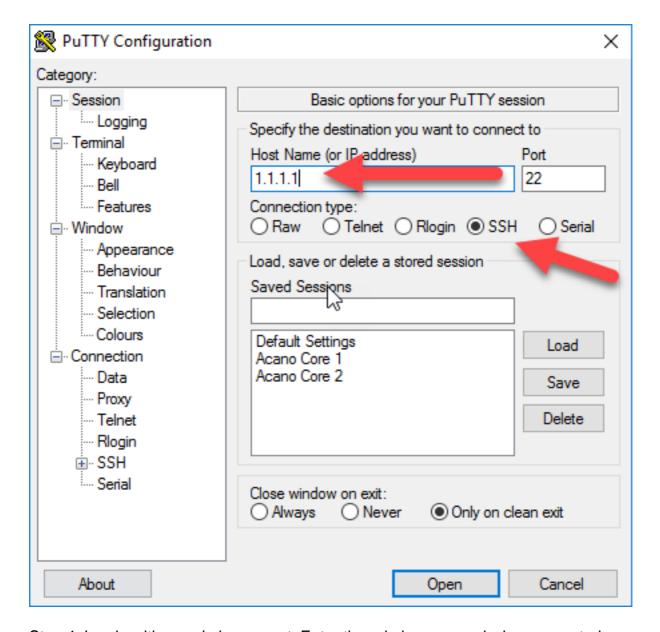


Step 6. In order to restart the endpoint, click **Restart Telepresence Device** as shown in the image.



### Add Option Key and Release Key via CLI

- Step 1. Open **PuTTY** and Enter the **IP address** of the endpoint in the **Host Name (or IP address)** field.
- Step 2. Select **SSH** radio button.
- Step 3. Click **Open** as shown in the image.



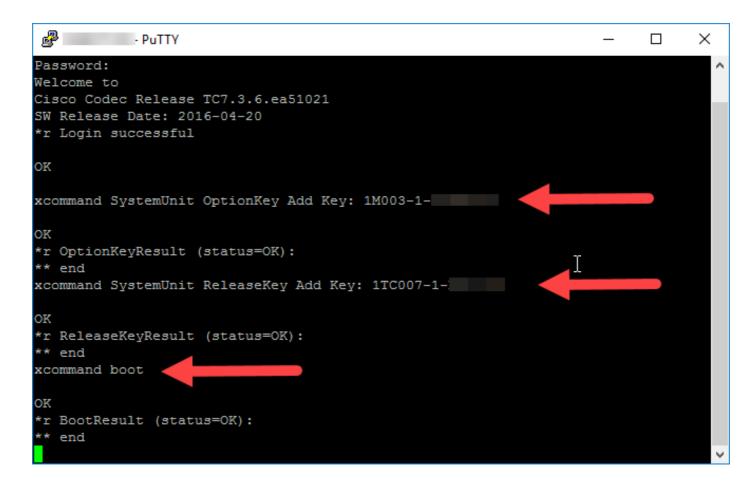
Step 4. Log in with an admin account. Enter the admin password when prompted.

Step 5. Add the release and option keys to the unit. Run these commands:

xcommand SystemUnit OptionKey Add Key: [option key]

xcommand SystemUnit ReleaseKey Add Key: [release key]

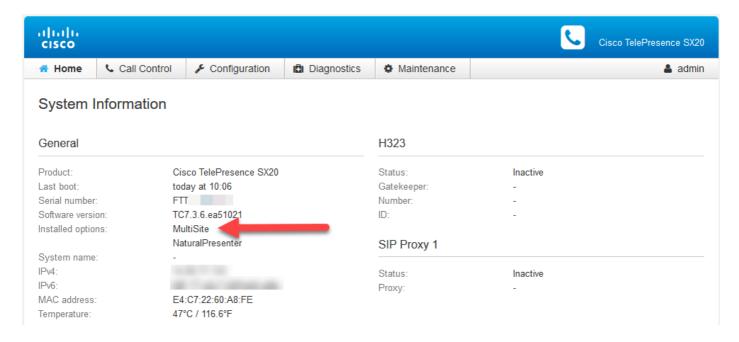
Step 6. Reboot the endpoint after all keys have been applied. Run the command: **xcommand boot** as shown in the image.



## Verify

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

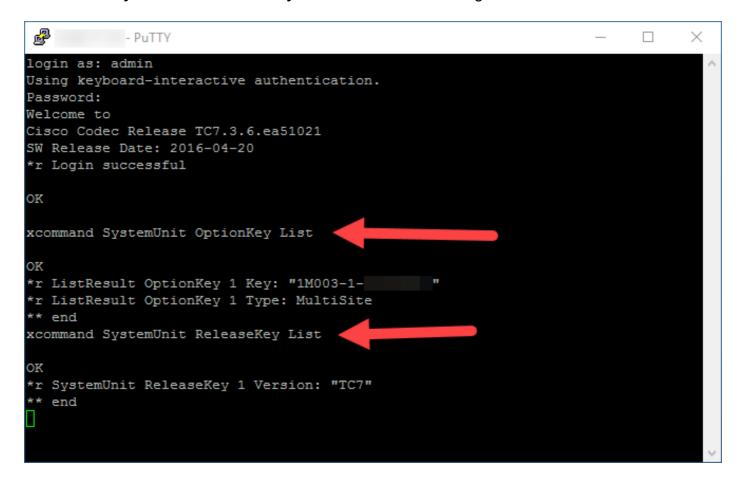
Verify the option keys installed successfully. Navigate to the home page of the endpoint web interface. Observe the options installed are listed by **Installed Options** as shown in the image.



Verify the release and option keys applied to the endpoint via CLI. Open an **SSH CLI** session and run these commands:

xcommand SystemUnit OptionKey List

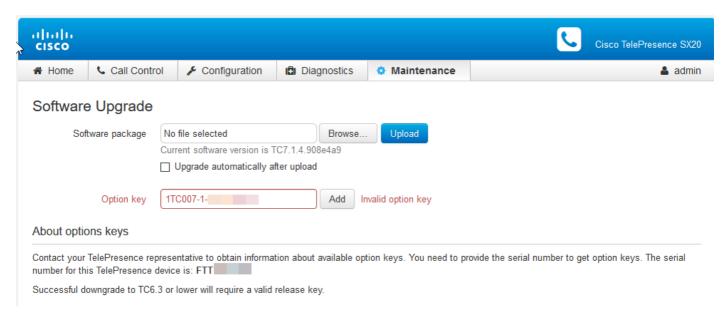
xcommand SystemUnit ReleaseKey List as shown in the image.



### **Troubleshoot**

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

Issue 1. Install a **Remote Monitoring** option key and you receive an error, "Invalid Option Key" as shown in the image.



This option key requires a minimum TC software version of TC7.3.3 or higher. Navigate to the home page and verify the software version is at the minimum version or higher. If you have TC 7.3.3 or higher software installed and have a valid release key installed and still encounter this

error, contact Cisco TAC for assistance.

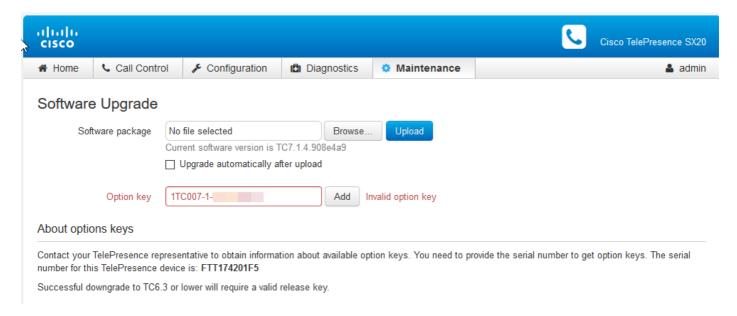
Issue 2. Install a relase key and you see an "Invalid Release Key" error on the endpoint. One probable cause stems from non-crypto software installed on the endpoint with a release key for encrypted software. A second probable cause stems from an encrypted software image installed when you have a non-crypto release key installed as shown in the image.

**Note**: The **tcnc** in the file name designates a **non-crypto** image. Just **tc** in the software file name designates a **crypto** image.



Issue 3. Log in to an endpoint and it shows as an SX80 when it must show as an MX700 or MX800, In this case, the endpoint has an incorrect product key installed. Contact licensing **licensing@cisco.com** to have a product key generated. Apply the product key received as an option key with the procedures noted in this document. This issue can occur when a device has been replaced via a Return Material Authorization (RMA) process.

Issue 4. Install a key and observe an "Invalid Option Key" error as shown in the image.



Verify that you install an **option key** and not a **release key** from your licensing email as shown in the image.



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 : FCZ Hardware Serial Number : FTT MAC Address : E4C72260A8FE Service Contract SC End Date : -Software Part Name : LIC-S52010-TC-K9: Tandberg Item No : : Shipped Version : TC7.3.6 Shipped Version Key : 1TC007-1-Shipped Image URL : TC7.3.6 Upgrade To Upgrade To Key : 1TC007-1-1 Release Key Upgrade To Image URL

In order to properly add a release key to the unit perform the steps listed in the section **Add an Option Key and a Release Key via CLI.** 

# **Available Option Keys for TC Endpoints**

**Option** 

Keys

**Description** 

Natural Presenter	(Not valid for EX90, EX60, Intrepid and Veneto) This key is required to send or receive presentation.
Premium Resolution	Allows the maximum call speed to 4Mbps. Default is 2Mbps.
Multisite	(Not valid for C20, EX60, Intrepid and Veneto)
	Enables endpoints to perform multipoint calls natively.
High	(C20 and SX20 only)
Definition	Provides high definition calling.
Dual	(C20, C40, and EX90 only)
Display	Enables the second display.
Remote Monitoring	(TC7.3.3 and above)
	This feature allows an administrator to monitor a room from the endpoint's web interface. This
	happens when snapshots from the camera sources are connected to the endpoint.