

Instalar uma chave de versão do Expressway Series através da interface da Web e do exemplo de configuração da CLI

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Introduction

Este documento descreve a instalação de uma chave de versão para um dispositivo Cisco Expressway Series através da interface da Web e da CLI (Command Line Interface, interface de linha de comando).

Contribuído por Michael Wall, engenheiro do TAC da Cisco.

Prerequisites

Requirements

A Cisco recomenda que você tenha conhecimento destes tópicos:

Instalação do Expressway

Instalou com êxito o Expressway e aplicou um endereço IP válido que pode ser alcançado por meio da interface da Web e/ou CLI.

Solicitaram e receberam uma chave de liberação válida para o número de série do Expressway.

Tenha acesso ao Expressway com raiz (por CLI) e uma conta de administrador por interface da Web ou CLI.

Baixou uma imagem de atualização do software Expressway do Cisco.com.

Note: Os guias de instalação podem ser encontrados aqui: [Guias de instalação e atualização](#)

Componentes Utilizados

As informações neste documento são baseadas nestas versões de software:

Expressway Version x8.7.3 e x8.8.3

Versões do Expressway C x7.X e x8.X

Versões Expressway E x7.X e x8.X

PuTTY (software de emulação de terminal)

—Como alternativa, você pode usar qualquer software de emulação de terminal que suporte SSH, como Secure CRT, TeraTerm e assim por diante.

PSCP (cliente PuTTY Secure Copy Protocol)

—Você pode usar qualquer cliente que suporte o SCP.

E-mail de licenciamento com uma chave de liberação ou de atualização.

Um navegador da Web. Neste exemplo, o Firefox é usado, o Internet Explorer e o Chrome funcionam igualmente.

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. Se a rede estiver ativa, certifique-se de que você entenda o impacto potencial de qualquer comando.

Configurar

Exemplo de instalação da chave de liberação da interface da Web

Aqui você tem duas opções:

Opção um, você pode definir a chave de liberação.

Opção 2, você pode adicionar a chave de liberação como parte do processo de atualização.

Ambas as opções funcionam e mostramos a opção set primeiro seguida pela opção de atualização em seguida.

Note: Ambas as opções exigem uma reinicialização do Expressway.

A opção um mostra a opção set.

Passo 1: Depois de instalar o Expressway, ter seu número de série e se candidatar à chave de

liberação, use o PAK e o número de série, você receberá um e-mail de licença da equipe de licenciamento da Cisco, que pode ou não conter uma chave de liberação e chaves de opção.

Note: O exemplo de e-mail é para um VCS, tudo bem, o e-mail para um Expressway Series é igual.

Note: Exemplos de PAK estão fora do escopo deste documento.

EXEMPLO DE E-MAIL

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     : -

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
```



Sample Release
Key

Passo 2: Acesse a interface da Web do Expressway com um navegador da Web. Faça login com uma conta de administrador e você será levado à tela Status do Expressway.

Note: Alguns dígitos estão propositalmente borrados neste documento.

The screenshot shows the Cisco Expressway Status page. At the top left is the Cisco logo and 'Cisco Expressway'. A red callout bubble points to the 'Status' tab with the text 'Note: Login brings us to the status screen'. In the top right, a red alarm icon is accompanied by a red callout bubble that says 'This system has 6 alarms'. Below the navigation tabs (Status, System, Configuration, Applications, Users, Maintenance), the 'Overview' section is highlighted with a red box. A red callout bubble points to the 'Invalid release key' message: '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.' Another red callout bubble points to the 'System information' section with the text 'Note also, our release key is invalid.' The 'System information' section includes: System name: EXP-Core, Up time: 6 days 15 hours 7 minutes 51 seconds, Software version: X8.7.3, IPv4 address: [redacted].117, and Options: 1 Rich Media Sessions, Encryption, Interworking, Expressway Series. Below this is the 'Resource usage' section, which is a table with columns for session types and counts. At the bottom of the page, the footer shows: User: admin Access: Read-write System host name: VCS-C System time: 12:56 UTC Language: en_US S/N: DDE16F47 Version: X8.7.3

Passo 3: Navegue até a tela apropriada para instalar sua chave de liberação. Passe o mouse sobre a guia de manutenção.

This screenshot is similar to the previous one, but with a red circle around the 'Maintenance' tab in the navigation bar. A red callout bubble points to this tab with the text 'Click on Maintenance'. The rest of the page content, including the 'Invalid release key' message and the 'System information' section, remains the same. The footer at the bottom shows: User: admin Access: Read-write System host name: VCS-C System time: 13:06 UTC Language: en_US S/N: DDE16F47 Version: X8.7.3

Passo 4: Quando o menu for exibido, clique em Option Keys (Chaves de opção).

[Status](#) [System](#) [Configuration](#) [Applications](#) [Users](#) [Maintenance](#)

[Help](#) [Logout](#)

Overview You are here: [Status](#) > [Overview](#)

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

System information

System name	EXP-Core
Up time	6 days 15 hours 7 minutes 51 seconds
Software version	X8.7.3
IPv4 address	10.10.10.117
Options	1 Rich Media Sessions, Encrypted

Resource usage (last updated: 12:53:04 UTC)

Rich media session 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
Rich media sessions	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

Passo 5: Observe a seção **Chave de liberação** e se esta for uma nova instalação, haverá um campo de chave de liberação em branco. O campo da **chave de liberação** para outra instalação do Expressway é pré-preenchido com o valor da chave de versão atual. Use a opção **Atualizar** para definir a chave de liberação nesse caso.

Note: A chave de versão não muda entre atualizações de versão secundária. A chave de versão só muda entre as principais atualizações de versão, como x7.X a x8.X.

Copie e cole sua chave de liberação no campo **Chave de liberação**:

Option keys

You are here: Maintenance > Option keys

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.

Key	Description	Status
<input type="checkbox"/> 116341E00-1-2B872ED6	Expressway Series	Active

Delete Select all Unselect all

Information
The 16-character release key for this software. Warning: if this is invalid the system will run with restricted functionality.
Range: must be exactly 16 characters

System information

Serial number: 0DE16F47
Active options: 1 Rich Media Sessions, Encryption, Interworking, Expressway Series.

Software option

Add option key

Add option

Note the Release Key field is blank if a new Expressway Series Device. This field may be pre-populated if a release key is already installed or upgrading from a prior version. Copy your new release key into this field.

Release key

Release key

Set release key

Current licenses

Traversal calls: 1

Passo 6: Você pode ver a chave de liberação colada no campo **Liberar chave**.

Option keys

You are here: Maintenance > Option keys

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.

Key	Description	Status	Validity period
<input type="checkbox"/> 116341E00-1-2B872ED6	Expressway Series	Active	Unlimited

Delete Select all Unselect all

System information

Serial number: ODE16F47
Active options: 1 Rich Media Sessions, Encryption, Interworking, Expressway Series.

Software option

Add option key

Add option

Release key

Release key

Here I've pasted in the Release Key I received for this Expressway

Set release key

Current licenses

Traversal calls: 1

Passo 7: Clique em Definir chave de liberação.

Option keys

You are here: Maintenance > Option keys

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.

Key	Description	Status	Validity period
<input type="checkbox"/> 116341E00-1-2B872ED6	Expressway Series	Active	Unlimited

Delete Select all Unselect all

System information

Serial number: 0DE16F47

Active options: 1 Rich Media Sessions, Encryption, Interworking, Expressway Series.

Software option

Add option key

Add option

Release key

Release key: 7800812430795357

Set release key **Click Set release key**

Current licenses

Traversal calls	1
-----------------	---

Passo 8: Clique no hiperlink **reiniciar** no prompt exibido na parte superior da página para reiniciar o Expressway.

Option keys

Saved: The release key has been updated, however a restart is required for it to take effect. You are here: [Maintenance](#) > Option keys

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

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.

Key	Description	Status	Validity period
<input type="checkbox"/> 116341E00-1-2B872ED6	Expressway Series	Active	Unlimited

Delete Select all Unselect all

System information

Serial number: 0DE16F47

Active options: 1 Rich Media Sessions, Encryption, Interworking, Expressway Series.

Software option

Add option key:

Add option

Release key

Release key: 7800812430795357

Set release key

Current licenses

Opção 2: Opção de atualização para instalar a chave de liberação

Passo 1: Na interface da Web, clique em **Manutenção** como antes e em **Atualizar** no pop-up de menus.

Upgrade

Component

- B2BUA Presence Relay
- B2BUA Service
- c_mgmt
- collectdsupport
- oaksupport
- stringencoderssupport
- System platform
- traffic_server
- xcp-vcs
- xcpsupport

Release key

7800812430795357

Upgrade component

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

Select file No file selected.

Passo 2: Na tela **Upgrade**, você verá uma seção **Upgrade Component**.

Note: Este documento pressupõe que você tenha baixado uma imagem de atualização do software Expressway para o computador local.

Clique em **Procurar** para localizar a imagem de atualização do Expressway descarregada:

Upgrade

You are here: Maintenance > Upgrade

Component	Version	Release key
B2BUA Presence Relay	1.0-oak-v8.7.3-rc-2	
B2BUA Service	1.0-oak-v8.7.3-rc-2	
c_mgmt	8.6-1.0.321052	
collectsupport	5368	
oaksupport	5368	
stringencoderssupport	5368	
System platform	X8.7.3	7800812430795357
traffic_server	5368	
xcp-vcs	1.0-oak-v8.7.3-rc-2	
xcpsupport	5368	

Upgrade component

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

Select file No file selected.

Click Browse to locate your upgrade software on your local machine and then upload.

Passo 3: Insira o valor da chave de liberação no campo **Liberar chave** quando solicitado. Copie e cole do e-mail ou, se for uma atualização menor, como neste caso, x8.7.3 para x8.8.3, copie e cole-o da mesma tela.

Upgrade

You are here: Maintenance Upgrade

Component	Version	Release key
B2BUA Presence Relay	1.0-oak-v8.7.3-rc-2	
B2BUA Service	1.0-oak-v8.7.3-rc-2	
c_mgmt	8.6-1.0.321052	
collectdsupport	5368	
oaksupport	5368	
stringencoderssupport	5368	
System platform	X8.7.3	
traffic_server	5368	7800812430795357
xcp-vcs	1.0-oak-v8.7.3-rc-2	
xcpsupport	5368	

Upgrade component

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

Select file

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 8.7.3 to 8.8.3, you can copy and paste the release key already installed which is circled above in this example.

Passo 4: Clique no botão **Atualizar**. Observe o processo a seguir e não navegue para longe do processo, ou você precisa começar de novo. A imagem é carregada e, em seguida, instalada. Clique em **reiniciar** quando solicitado.

Status System Configuration Applications Users Maintenance

You are here: Maintenance > Upgrade

Component	Version	Release key
B2BUA Presence Relay	1.0-oak-v8.7.3-rc-2	
B2BUA Service	1.0-oak-v8.7.3-rc-2	
c_mgmt	8.6-1.0.321052	
collectdsupport	5368	
oaksupport	5368	
stringencoderssupport	5368	
System platform	X8.7.3	7800812430795357
traffic_server	5368	
xcp-vcs	1.0-oak-v8.7.3-rc-2	
xcpsupport	5368	

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.

Upgrade component

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

Select file s42700x8_8_3.tar.gz

Release key

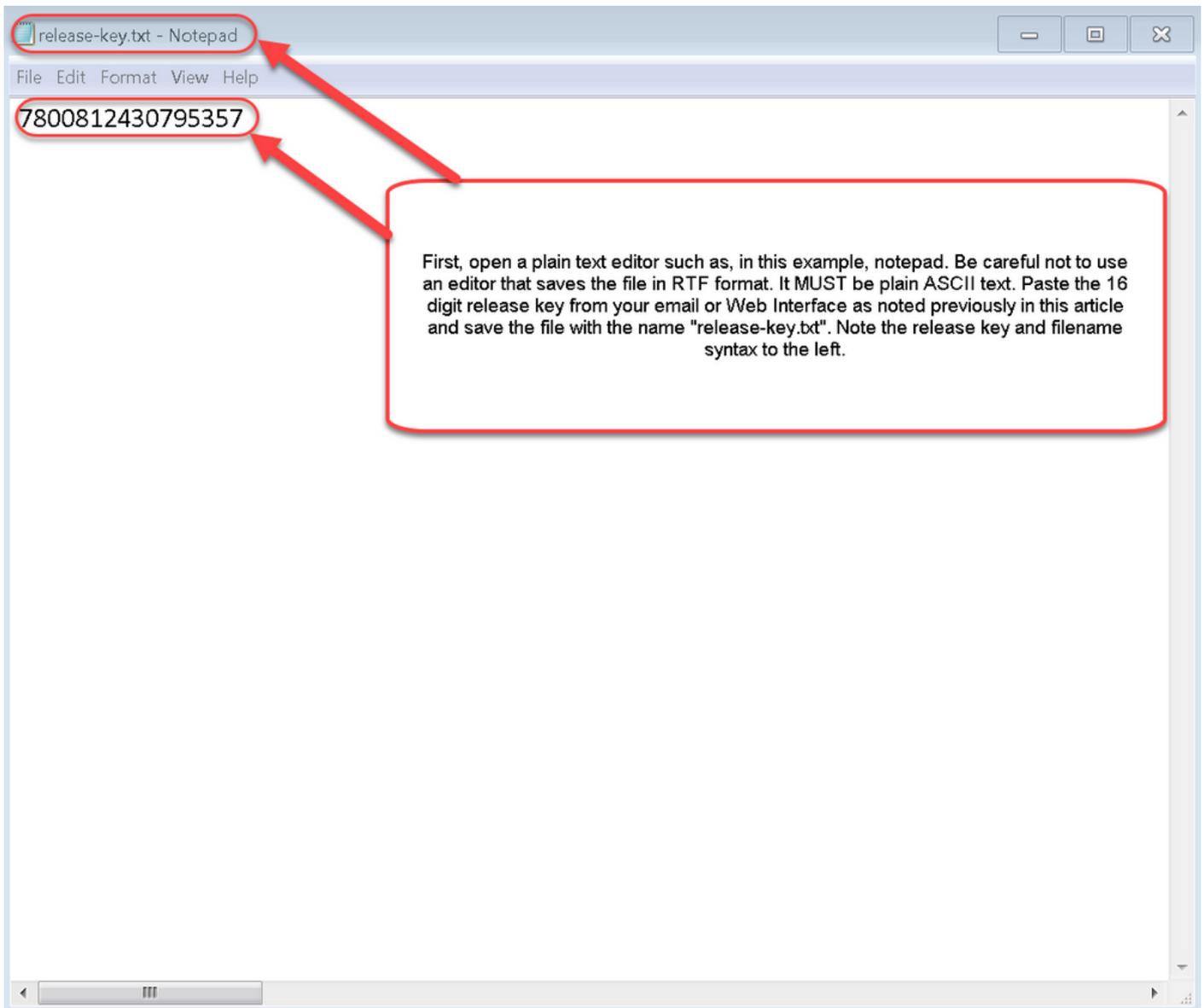
Once the release key is pasted, you can click upgrade and then follow the steps from there. Do not leave the screens that follow or you will have to start over. The image will first upload, then it gets installed and finally you restart the Expressway. Once it is restarted and comes back up, it should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

Verifique se a versão foi instalada corretamente, depois que o Expressway for reiniciado. Use os dois métodos anotados na seção **Verificar** deste documento.

Exemplo de instalação da chave de liberação CLI

Instale uma chave de liberação via CLI. Este é um processo de duas partes que envolve o uso de um cliente SCP (PSCP) neste exemplo do prompt de comando (CMD) no Windows e um aplicativo de software de emulação de terminal como PuTTY.

Passo 1: Copie sua chave de liberação em um arquivo de texto ASCII simples. Verifique se não há espaços antes ou depois do valor da chave de liberação. Copie a chave de liberação em seu aplicativo de editor de texto e salve o arquivo como **release-key.txt**:



Passo 2: Coloque os arquivos **release-key.txt** e **PSCP.exe** no mesmo diretório do computador. Navegue até esse diretório com um prompt de comando (CMD) no Windows e copie a chave de liberação para um diretório temporário no Expressway. Use a conta raiz para a transação PSCP. Digite a senha da conta raiz quando solicitado. Verifique se a transferência foi concluída como indicado por 100%. Aqui está um exemplo:

```
C:\Users\jawa11>cd desktop
C:\Users\jawa11\Desktop>pscp release-key.txt root@.117:/tmp/release-key
Using keyboard-interactive authentication.
Password:
release-key.txt          | 0 kB | 0.0 kB/s | ETA: 00:00:00 | 100%
C:\Users\jawa11\Desktop>pscp s42700x8_8_3.tar.gz root@.117:/tmp/tandberg-image.tar.gz
Using keyboard-interactive authentication.
Password:
s42700x8_8_3.tar.gz     | 19164 kB | 598.9 kB/s | ETA: 00:12:40 | 4%
```

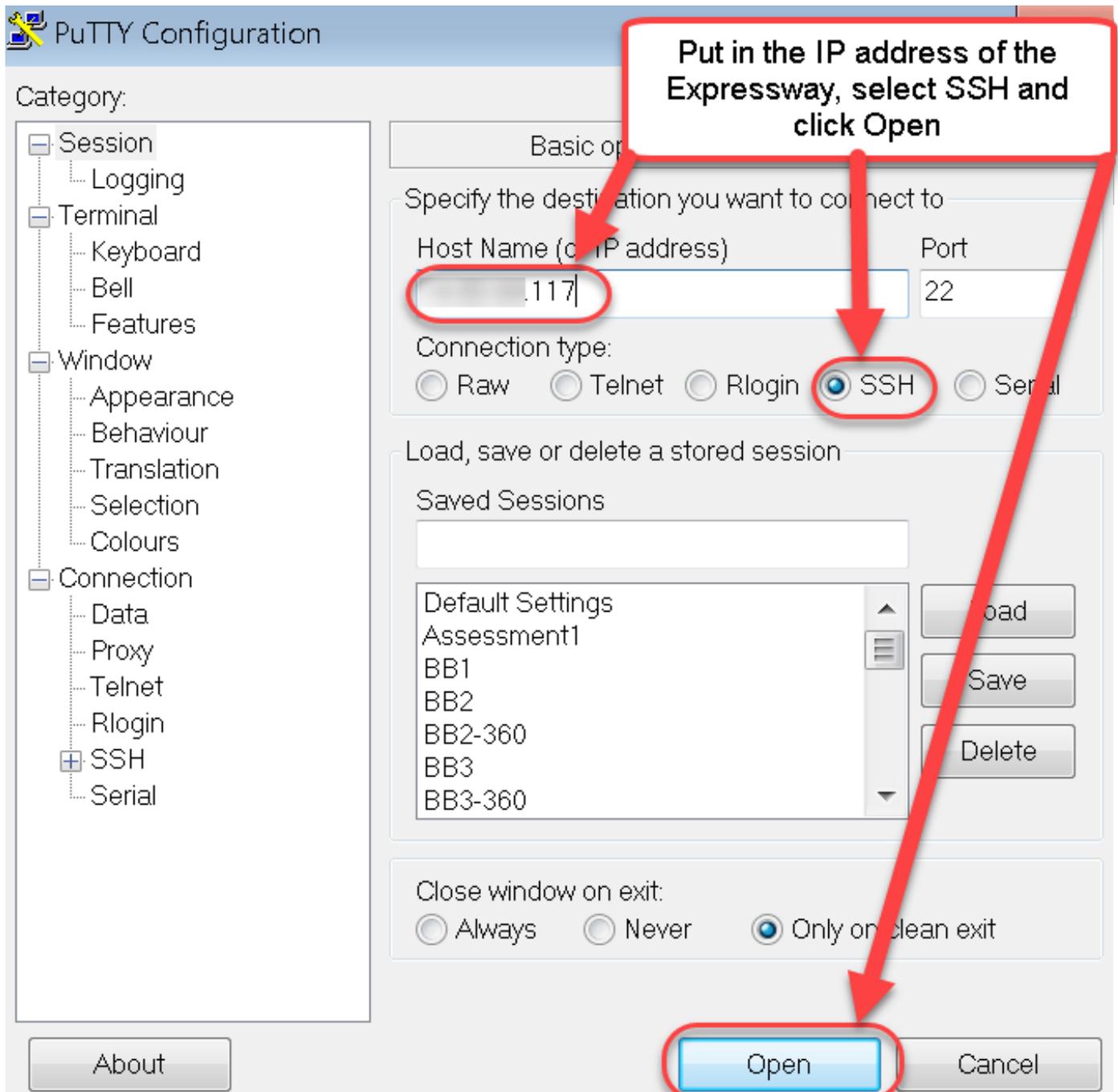
Note in the first circle above, we are using a Windows CMD prompt where I've saved the release-key.txt file to my desktop. In the first line, I've navigated to my desktop with the CMD command "cd desktop" and then am copying the file over to the Expressway using free-ware Putty PSCP. In the next circle,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

Passo 3: Copie a imagem para a qual deseja atualizar, como a 8.8.3 usada aqui. Copie esta imagem em PSCP. Verifique se o status é 100%, o que significa que o software da imagem foi transferido para o Expressway e você está pronto para reinicializar o Expressway.

```
C:\Users\jawa11>cd desktop
C:\Users\jawa11\Desktop>pscp release-key.txt root@.117:/tmp/release-key
Using keyboard-interactive authentication.
Password:
release-key.txt          | 0 kB | 0.0 kB/s | ETA: 00:00:00 | 100%
C:\Users\jawa11\Desktop>pscp s42700x8_8_3.tar.gz root@.117:/tmp/tandberg-image.tar.gz
Using keyboard-interactive authentication.
Password:
s42700x8_8_3.tar.gz     | 474310 kB | 577.7 kB/s | ETA: 00:00:00 | 100%
C:\Users\jawa11\Desktop>_
```

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

Passo 4: Reinicie o Expressway através de uma sessão SSH no Expressway. Abra o PuTTY e digite o endereço IP do Expressway. Clique em SSH para abrir.



Passo 5: Clique em **Abrir** e faça login no Expressway com uma conta admin quando solicitado. Digite a senha da conta admin quando solicitado. Verifique se você tem o comando correto para reinicializar o Expressway. Insira o comando seguido de um espaço e um ponto de interrogação para garantir que você o tenha correto. O Expressway confirma que a **inicialização do xCommand** foi reiniciada. Digite o comando **xCommand Boot** para reinicializar o Expressway.

```
login as: admin
Using Keyboard-Interactive authentication
Password:
Login as admin or whatever account you have set as admin, as long as that account has FULL admin privileges.

5 alarms:
 * warning NTP server not available - The system is unable to connect to any of the NTP servers
 * 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 relevant subzone; authentication must also be enabled on the Default Zone if the endpoints are not registered
 * warning Date and time not validated - The system is unable to obtain the correct time and date from any of the NTP servers
 * warning Configuration warning - For provisioning to work correctly, authentication policy must be enabled on the Default Zone and any other relevant zone that receives provisioning requests

Last login: Mon Nov 28 13:42:52 UTC 2016
FANDEENG Video Communication Server X8-7.3
SV Release date: 2016-04-14 10:20, build

OK
Command Boot ?
?h xCommand Boot
"Reboots the VCS."

Command Boot

OK
Dataport reboot request, rebooting
The system is going down for reboot NOW!
```

Login as admin or whatever account you have set as admin, as long as that account has FULL admin privileges.

Here, I use the CLI help feature of "xCommand Boot ?" to verify I have the right command syntax to reboot the expressway. Note the reference to VCS even though this is an Expressway. This is normal as the two products share a code base.

Now, I reboot the Expressway to upgrade it. The cool thing here, is you do not have to actually upgrade the Expressway, you can re-install the same image. In this case, I actually upgraded it.

O Expressway pisca quando está em processo de reinicialização e sua sessão PuTTY é fechada. Esse comportamento é normal porque a conexão é encerrada quando o Expressway é reinicializado. O Expressway leva de três a cinco minutos para ser reinicializado. Depois de concluído, verifique se a chave de liberação está instalada corretamente através da interface da Web ou da CLI, conforme observado na seção **Verificar** deste documento.

Verificar

Verificação da Interface Web da Instalação da Chave de Versão

Há duas maneiras de verificar a chave de liberação instalada na interface da Web:

Opção 1: Examine a **Página de chave de opções** conforme observado anteriormente e verifique o campo **Chave de liberação**.

Option keys

You are here: Maintenance > Option keys

Key	Description	Status	Validity period
<input type="checkbox"/> 116341E00-1-2B872ED6	Expressway Series	Active	Unlimited

Delete Select all Unselect all

System information

Serial number: ODE16F47
Active options: 0 Rich Media Sessions, Encryption, Interworking, Expressway Series.

Software option

Add option key

Add option

Release key

Release key

Set release key

After restart, I verify the key installed by checking the Release Key field is now populated.

Current licenses

Traversal calls: 0

Opção 2: Verifique a página de atualização conforme observado anteriormente:

Status System Configuration Applications Users Maintenance

Help Logout

You are here: Maintenance > Upgrade

Upgrade

Component	Version	Release key
B2BUA Presence Relay	1.0-oak-v8.7.3-rc-2	
B2BUA Service	1.0-oak-v8.7.3-rc-2	
c_mgmt	8.6-1.0.321052	
collectdsupport	5368	
oaksupport	5368	
stringencoderssupport	5368	
System platform	X8.7.3	7800812430795357
traffic_server	5368	
xcp-vcs	1.0-oak-v8.7.3-rc-2	
xcpsupport	5368	

Upgrade component

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

Select file No file selected.

You can also verify by checking the upgrade option under the Maintenance Tab. Note the release key is now visible under the release key column of this page.

Verificação da Interface CLI da Instalação da Chave de Versão

Verifique a chave de liberação instalada através da interface CLI por uma sessão SSH para a CLI. Efetue login com uma conta admin como observado anteriormente neste documento. Depois de entrar no comando **xStatus SystemUnit Software**. Você observa que a atualização foi bem-sucedida e que a chave de versão está instalada:

```
login as: admin
Using keyboard-interactive authentication.
Password:
5 alarms:
 * warning  NTP server not available - The system is unable to contact an NTP
server
 * 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  Date and time not validated - The system is unable to obtain the c
orrect time and date from any of the NTP servers
 * 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

TANDBERG Video Communication Server X8.8.3
SW Release date: 2016-10-12 11:14, build
OK

xstatus systemunit software
c SystemUnit: /
Software:
Build: "oak_v8.8.3_rc_1"
Configuration:
AdvancedAccountSecurity: "False"
DeviceProvisioning: "True"
DualNetworkInterfaces: "False"
Encryption: "True"
EnhancedOCSCollaboration: "False"
Expressway: "False"
ExpresswaySeries: "True"
FindMe: "True"
Interworking: "True"
NonTraversalCalls: "750"
Registrations: "0"
StarterPack: "False"
TPRoom: "0"
TraversalCalls: "0"
UserDevice: "0"
Name: "s42700"
ReleaseDate: "2016-10-12"
ReleaseKey: "7800812430795357"
Version: "X8.8.3"
^c/END
OK
```

Using Putty to SSH, as noted previously, I login as admin.

Once logged in, I use the command "xstatus systemunit software" to verify both my software version (in this case, my upgrade succeeded) and release key installed towards the bottom of the output.

Troubleshoot

Você não tem nenhum problema ao instalar uma chave de liberação em um Cisco Expressway. Insira uma chave de opção no campo **Liberar chave** do Expressway ou insira uma chave de opção quando você atualizar forem as causas mais comuns de falha. O exemplo de e-mail citado no início deste artigo mostra as chaves de opção além da chave de liberação. Ocorre um erro quando uma chave de opção é inserida no campo **Chave de liberação**:

Option keys

You are here: Maintenance > 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"/> 116341E00-1-2B872ED6	Expressway Series	Active	Unlimited

Delete Select all Unselect all

System information

Serial number: 0DE16F47

Active options: 0 Rich Media Sessions, 0 Room Systems, 0 Desktop Systems, Encryption, Interworking, FindMe, Device Provisioning, Expressway Series.

Software option

Add option key:

Add option

Release key

Release key:

Set release key

Here, I've made a mistake which is one of the most common causes of a release key installation failure. Specifically, I've tried to install an option key as a release key. The Expressway will allow me to make this mistake and will not show the error until I have fully restarted/rebooted the Expressway. Just as before, I've pasted in the "bad" key in the release key field, clicked on "Set release key" and now as before I am being prompted to restart the Expressway.

Current licenses

Traversal calls	0
Desktop System License	0
Room System License	0

Um Expressway aceita qualquer valor no campo **Chave de liberação**. Reinicie o Expressway com um valor incorreto inserido e você receberá um erro "**Chave de liberação inválida**":

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.

Key	Description	Status	Validity period
116341E00-1-2B872ED6	Expressway Series	Active	Unlimited

Delete Select all Unselect all

System information

Serial number: 0DE16F47

Active options: 1 Rich Media Sessions, 0 Room Systems, 0 Desktop System Encryption, Interworking, FindMe, Device Provisioning, Expressway Series

Software option

Add option key:

Add option

Release key

Release key: 116341E00-1-2B87

Set release key

Current licenses

Traversal calls	1
Desktop System License	0
Room System License	0

Ugh, now I have a very Unhappy Expressway because I installed an option key as a release key. Note the option key showing as the release key now with the big red warning at the top? To fix this error, I simply use the procedure in this document to install a proper RELEASE KEY and not an option key.

Instale uma chave de liberação conforme observado neste documento para corrigir essa condição.

Note: As chaves de liberação e as chaves de opção estão vinculadas ao número de série visto no canto inferior direito da interface da Web, se a série for alterada (o que pode acontecer com o hardware alterado da máquina virtual), a chave de liberação e as opções precisarão ser regeneradas e reinstaladas)

Envolve o Cisco TAC para obter assistência para qualquer outro tipo de falha.