

# Procedimento de upgrade do Catalyst 6500 Series Switch ISSU com o 6800IA (FEX) conectado

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## Introdução

Este documento descreve um procedimento em serviço passo a passo do upgrade de software (ISSU) em Cisco Catalyst 6500 Series Switch no modo do sistema de switching virtual (VSS) com o uso do supervisor 2T com os switch de acesso imediatos dirigidos duplos do Cisco catalyst 6800 (FEX) anexados.

## Pré-requisitos

### Requisitos

Não existem requisitos específicos para este documento.

### Componentes Utilizados

A informação neste documento é baseada nos Cisco Catalyst 6500 Series Switch no modo VSS que executam o Supervisor Engine 2T com um 6800IA dirigido duplo anexado em placas de linha WS-X6904-40G.

As informações neste documento foram criadas a partir de dispositivos em um ambiente de laboratório específico. Todos os dispositivos utilizados neste documento foram iniciados com uma configuração (padrão) inicial. Se a sua rede estiver ativa, certifique-se de que entende o impacto potencial de qualquer comando.

# Procedimento de atualização

## Instalação inicial

O procedimento de upgrade é executado para a liberação 15.1(2)SY do Cisco IOS ® Software para liberar 15.1(2)SY1.

Estão aqui as estatísticas antes que o processo ISSU:

- O chassi do Catalyst 6500 com interruptor ID 1 é ativo e o interruptor com ID 2 é à espera (quente).
- Ambos o chassi estão acima no Cisco IOS Software Release 15.1(2)SY.
- Um único 6800IA que execute o Cisco IOS Software Release 15.0(2)EX2 é conectado ao VSS em placas de linha WS-X6904-40G com uma conexão da duplo-HOME. O número de canal de porta FEX é 99 e o FEX ID é 110.

```
6K1#show mod sw all
```

```
Switch Number:      1    Role:    Virtual Switch Active
```

Mod	Ports	Card Type	Model	Serial No.
2	5	Supervisor Engine 2T 10GE w/ CTS (Acti	VS-SUP2T-10G	SAL1632K9P2
3	20	DCEF2T 4 port 40GE / 16 port 10GE	WS-X6904-40G	SAL1741E4ZA

Mod	MAC addresses	Hw	Fw	Sw	Status
2	c471.fe7c.de96 to c471.fe7c.de9d	1.3	12.2(50r)SYS	15.1(2)SY	Ok
3	e02f.6d6a.698c to e02f.6d6a.699f	1.0	12.2(50r)SYL	15.1(2)SY	Ok

Mod	Sub-Module	Model	Serial	Hw	Status
2	Policy Feature Card 4	VS-F6K-PFC4	SAL1637MCQQ	1.2	Ok
2	CPU Daughterboard	VS-F6K-MSFC5	SAL1637MKX8	1.4	Ok
3	Distributed Forwarding Card	WS-F6K-DFC4-E	SAL1745FSD6	1.0	Ok

```
Mod Online Diag Status
```

```
2 Pass
3 Pass
```

```
Switch Number:      2    Role:    Virtual Switch Standby
```

Mod	Ports	Card Type	Model	Serial No.
2	5	Supervisor Engine 2T 10GE w/ CTS (Hot)	VS-SUP2T-10G	SAL1650UC8L
3	20	DCEF2T 4 port 40GE / 16 port 10GE	WS-X6904-40G	SAL17173QD3

Mod	MAC addresses	Hw	Fw	Sw	Status
2	2c54.2dc4.2f3a to 2c54.2dc4.2f41	1.4	12.2(50r)SYS	15.1(2)SY	Ok
3	70ca.9b8f.510c to 70ca.9b8f.511f	1.0	12.2(50r)SYL	15.1(2)SY	Ok

Mod	Sub-Module	Model	Serial	Hw	Status
2	Policy Feature Card 4	VS-F6K-PFC4	SAL1651UG8P	1.2	Ok

```

2 CPU Daughterboard          VS-F6K-MSFC5          SAL1651UEBY  1.5    Ok
3 Distributed Forwarding Card WS-F6K-DFC4-E          SAL17173QHY  1.2    Ok

```

Mod Online Diag Status

```

-----
2 Pass
3 Pass

```

```

Switch Number: 110 Role: FEX
-----

```

Mod	Ports	Card Type	Model	Serial No.
1	48	C6800IA 48GE	C6800IA-48TD	FOC1736W1A6

Mod	MAC addresses	Hw	Fw	Sw	Status
1	c025.5cc2.2d00 to c025.5cc2.2d33	0.0	Unknown	15.0(2)EX2	Ok

Mod Online Diag Status

```

-----
1 Pass

```

6K1#show switch virtual

```

Switch mode          : Virtual Switch
Virtual switch domain number : 100
Local switch number  : 1
Local switch operational role: Virtual Switch Active
Peer switch number   : 2
Peer switch operational role : Virtual Switch Standby

```

## Passos de upgrade

1. Certifique-se de que a imagem do Novo Cisco IOS (Cisco IOS Software Release 15.1(2)SY1) esta presente no bootdisk e no slavebootdisk.

```

6K1#dir bootdisk: | in s2t54
 5 -rw- 120035816 Jan 23 2014 22:35:12 +00:00
s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin
 8 -rw- 119792104 Feb 10 2014 19:42:12 +00:00
s2t54-adventerprisek9-mz.SPA.151-2.SY.bin

```

```

6K1#dir slavebootdisk: | in s2t54
 5 -rw- 120035816 Jan 23 2014 22:26:14 +00:00
s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin
 8 -rw- 119792104 Feb 10 2014 19:46:14 +00:00
s2t54-adventerprisek9-mz.SPA.151-2.SY.bin

```

2. (Opcional) use estes comandos a fim verificar que o VSS é pronto para ser executado o procedimento de upgrade:  
**mostre o detalhe do estado do issuestre a Redundânciainterruptor todo do módulo**  
**showdetalhe do estado do issu 6K1#show**

O sistema é configurado para ser promovido no modo desconcertado.  
Dois Nós do supervisor são encontrados para ser em linha.  
Resumo: o sistema será promovido em tandem no modo.

Slot = 1/2  
**RP State = Active**  
**ISSU State = Init**  
Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12;  
**Operating Mode = sso**  
ISSU Sub-State = No Upgrade Operation in Progress  
Starting Image = N/A  
Target Image = N/A  
Current Version = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin

Slot = 2/2  
**RP State = Standby**  
**ISSU State = Init**  
Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12;  
**Operating Mode = sso**  
ISSU Sub-State = No Upgrade Operation in Progress  
Starting Image = N/A  
Target Image = N/A  
Current Version = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin

This system is Fex-capable

**Fex-ID ISSU Status**

**110 FEX\_INIT**

6K1#

6K1#show redundancy

Redundant System Information :

-----  
Available system uptime = 36 minutes  
Switchovers system experienced = 0  
Standby failures = 0  
Last switchover reason = none

Hardware Mode = Duplex  
Configured Redundancy Mode = sso  
**Operating Redundancy Mode = sso**  
Maintenance Mode = Disabled  
Communications = Up

Current Processor Information :

-----  
Active Location = slot 1/2  
**Current Software state = ACTIVE**  
Uptime in current state = 36 minutes  
Image Version = Cisco IOS Software, s2t54 Software  
(s2t54-ADVENTERPRISEK9-M),  
Version 15.1(2)SY, RELEASE SOFTWARE (fc4)

Technical Support: <http://www.cisco.com/techsupport>

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Compiled Wed 04-Sep-13 12:37 by prod\_rel\_team

BOOT = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12;  
CONFIG\_FILE =  
BOOTLDR =  
Configuration register = 0x2102

Peer Processor Information :

-----

```
Standby Location = slot 2/2
Current Software state = STANDBY HOT
Uptime in current state = 34 minutes
Image Version = Cisco IOS Software, s2t54 Software
(s2t54-ADVENTERPRISEK9-M),
Version 15.1(2)SY, RELEASE SOFTWARE (fc4)
Technical Support: http://www.cisco.com/techsupport
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Compiled Wed 04-Sep-13 12:37 by prod_rel_team
BOOT = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12;
CONFIG_FILE =
BOOTLDR =
Configuration register = 0x2102
```

### 3. Use o comando do **loadversion** do **issu** a fim começar o processo de upgrade.

Nesta etapa, o chassi à espera VSS recarrega, reloads com a imagem nova, e inicializa como o chassi à espera VSS no modo de redundância SSO, executando a imagem nova. Esta etapa está completa quando a configuração do chassi é sincronizada, como indicado **sincronização maioria pela mensagem sucedida**. Pôde tomar diversos segundos a alguns minutos para que a imagem nova carregue e para o chassi à espera VSS à transição ao modo SSO.

```
6K1#issu loadversion 1/2 bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin
2/2 slavebootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin
```

```
System configuration has been modified. Save? [yes/no]: yes
Building configuration...
[OK]
%issu loadversion initiated successfully, upgrade sequence will begin shortly
```

```
6K1#
*Feb 11 05:24:40.091: %ISSU_PROCESS-SW1-3-LOADVERSION: Loadversion sequence
will begin in 60 seconds. Enter 'issu abortversion' to cancel.

*Feb 11 05:25:10.091: %ISSU_PROCESS-SW1-6-LOADVERSION_INFO: Resetting Standby shortly
```

<..output truncated..>

```
*Feb 11 05:29:46.075: %VS_GENERIC-SW1-6-VS_HA_HOT_STANDBY_NOTIFY: Standby switch
is in Hot Standby mode
*Feb 11 05:29:46.079: %HA_CONFIG_SYNC-SW1-6-BULK_CFGSYNC_SUCCEED: Bulk Sync succeeded
*Feb 11 05:29:46.079: %RF-SW1-5-RF_TERMINAL_STATE: Terminal state reached for (SSO)
```

```
*Feb 11 05:30:25.091: %ISSU_PROCESS-SW1-3-LOADVERSION: Loadversion has completed.
Please issue the 'issu runversion' command after all modules come online.
```

!

! Boot variable for standby should point to new Image in "show issu state detail" output.

```
6K1#show issu state det
```

```
The system is configured to be upgraded in staggered mode.
2 supervisor nodes are found to be online.
Summary: an in-tandem upgrade is in progress.
```

```
Slot = 1/2
RP State = Active
```

```
ISSU State = Load Version
Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12;
Operating Mode = sso
ISSU Sub-State = Load Version Completed
Starting Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin
Target Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin
Current Version = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin
```

```
Slot = 2/2
RP State = Standby
ISSU State = Load Version
Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin,12;
bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12
Operating Mode = sso
ISSU Sub-State = Load Version Completed
Starting Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin
Target Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin
Current Version = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin
```

This system is Fex-capable

```
Fex-ID    ISSU Status
110      FEX_UPGRADE_INIT
```

6K1#show redundancy states

```
my state = 13 -ACTIVE
peer state = 8 -STANDBY HOT
Mode = Duplex
Unit = Secondary
Unit ID = 18
```

```
Redundancy Mode (Operational) = sso
Redundancy Mode (Configured) = sso
Redundancy State = sso
Maintenance Mode = Disabled
Manual Swact = enabled
Communications = Up
```

```
client count = 144
client_notification_TMR = 30000 milliseconds
keep_alive TMR = 9000 milliseconds
keep_alive count = 1
keep_alive threshold = 19
RF debug mask = 0x0
```

- Quando o chassi à espera VSS executa com sucesso a imagem nova no estado de redundância SSO e todas as placas de linha no chassi à espera VSS são ascendentes e em linha, incorpore o comando do **runversion do issu** a fim forçar um switchover. O chassi à espera promovido VSS toma sobre como o chassi ativo novo, executando a imagem nova. Os reloads anteriormente ativos do chassi e inicializam como o chassi à espera novo VSS no modo SSO, executando a imagem antiga (caso que o upgrade de software precisa de ser abortado e a imagem antiga de ser restaurado). Esta etapa está completa quando a configuração do chassi é sincronizada, como indicado **sincronização maioria pela mensagem sucedida**.

## runversion 6K1#issu

Este comando recarregará a unidade ativa.

Proceed ? [confirm]

%issu runversion initiated successfully

\*Feb 11 05:35:19.035: %RF-SW1-5-RF\_RELOAD: Self reload. Reason: Admin ISSU

runversion CLI

<..output truncated..>

Feb 11 05:35:21.411: %SYS-SW1-5-SWITCHOVER: Switchover requested by Exec.

Reload Reason: Admin ISSU runversion CLI.

Resetting .....

!

!Standby chassis now becomes active. Below logs are from new active switch.

!

Initializing as Virtual Switch ACTIVE processor

.

.

\*Feb 11 05:37:36.107: %PFREDUN-SW2-6-ACTIVE: Standby initializing for SSO mode

**\*Feb 11 05:39:56.563: %HA\_CONFIG\_SYNC-SW2-6-BULK\_CFGSYNC\_SUCCEED: Bulk Sync succeeded**

**\*Feb 11 05:39:56.563: %RF-SW2-5-RF\_TERMINAL\_STATE: Terminal state reached for (SSO)**

\*Feb 11 05:39:56.555: %PFREDUN-SW1\_STBY-6-STANDBY: Ready for SSO mode in Default Domain

! Wait till all the modules and Fex Port-channel 99 links come up

!

\*Feb 11 05:41:28.467: %ISSU\_PROCESS-SW2-6-RUNVERSION\_INFO: Runversion has completed.

Please issue the 'issu acceptversion' command

Feb 11 05:43:13.034: %LINK-3-UPDOWN: Interface TenGigabitEthernet1/0/2, changed state to up (FEX-110)

Feb 11 05:43:14.033: %LINEPROTO-5-UPDOWN: Line protocol on Interface TenGigabitEthernet1/0/2, changed state to up (FEX-110)

\*Feb 11 05:43:14.491: %SATMGR-SW2-5-FABRIC\_PORT\_UP: SDP up on interface Te1/3/5, connected to FEX 110, uplink 52

**\*Feb 11 05:43:14.491: %SATMGR-SW2-5-DUAL\_ACTIVE\_DETECT\_CAPABLE: channel group 99 is now dual-active detection capable**

6K1#show issu state

The system is configured to be upgraded in staggered mode.

2 supervisor nodes are found to be online.

Summary: an in-tandem upgrade is in progress.

Slot = 2/2

RP State = Active

ISSU State = Run Version

Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin,12;  
bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12

Slot = 1/2

RP State = Standby

ISSU State = Run Version

Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12;

This system is Fex-capable

Fex-ID ISSU Status

110 FEX\_UPGRADE\_INIT

6K1#show fex 110 detail

```
FEX: 110          Description: FEX0110      state: online
FEX version: 15.0(2)EX2
Extender Model: C6800IA-48TD, Extender Serial: FOC1736W1A6
FCP ready: yes
Image Version Check: enforced
Fabric Portchannel Ports: 2
Fabric port for control traffic: Te2/3/5
Fabric interface state:
  Po99           - Interface Up.
  Te1/3/5        - Interface Up.          state: bound
  Te2/3/5        - Interface Up.          state: bound
```

5. Use o comando do **acceptversion do issu** a fim parar o temporizador do Rollback. Isto é necessário porque se o temporizador expira, os reloads promovidos do chassi e reverte à versão de software anterior.

6K1#issu acceptversion

% Rollback timer stopped. Please issue the 'issu commitversion' command.

6. Use o comando **all do fex do runversion do issu** a fim começar o download de imagem e o procedimento de upgrade no FEX (6800IA). O FEX provoca o download de imagem do pacote novo do software do Supervisor2T (aqui Cisco IOS Software Release 15.2(2)SY1). Se você usa pilhas FEX, o mestre é responsável extrair a imagem a seus membros. Um servidor TFTP é executado em 192.1.1.1.

6K1#issu runversion fex all

% Successfully initiated 'runversion fex' for Fex IDs: 110.

Use 'show issu state' for more information.

6K1#show issu state det

```
The system is configured to be upgraded in staggered mode.
2 supervisor nodes are found to be online.
Summary: an in-tandem upgrade is in progress.

      Slot = 2/2
      RP State = Active
      ISSU State = Run Version
      Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin,12;bootdisk:
s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin,12
      Operating Mode = sso
      ISSU Sub-State = Run Version Completed
      Starting Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin
      Target Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin
```



Current Version = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin

Slot = 1/2  
RP State = Standby  
ISSU State = Run Version  
Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12;  
Operating Mode = sso  
ISSU Sub-State = Run Version Completed  
Starting Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin  
Target Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin  
Current Version = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin

This system is Fex-capable

**Fex-ID ISSU Status**

**110 FEX\_UPGRADE\_IN\_PROGRESS**

Following are the logs on from FEX 6800IA console:

!

!192.1.1.1 is the tftp running on FEX controller i.e. VSS active and vlan 1012 is the control vlan associated with fex.

!

FEX-110#

Loading **c6800ia-universalk9-mz.150-2.EX4.bin** from **192.1.1.1**

(via **Vlan1012**): !!!

[OK - 15493122 bytes]

examining image...

extracting info (112 bytes)

extracting c6800ia-universalk9-mz.150-2.EX4/info (792 bytes)

extracting info (112 bytes)

Stacking Version Number: 1.55

System Type: 0x00000000  
Ios Image File Size: 0x00EB5200  
Total Image File Size: 0x00EC6A00  
Minimum Dram required: 0x08000000  
Image Suffix: universalk9-150-2.EX4  
Image Directory: c6800ia-universalk9-mz.150-2.EX4  
Image Name: c6800ia-universalk9-mz.150-2.EX4.bin  
Image Feature: IP|LAYER\_2|SSH|3DES|MIN\_DRAM\_MEG=128  
FRU Module Version: No FRU Version Specified

Old image for switch 1: flash:/c6800ia-universalk9-mz.150-2.EX2  
Old image will be left alone

Extracting images from archive into flash...

! The console will be waiting for about 5-10 minutes after the above line.

<output truncated>

New software image installed in flash:/c6800ia-universalk9-mz.150-2.EX4

Following are the logs from the 6500 Active supervisor:

```

*Feb 11 06:00:30.387: %SATMGR-SW2-5-ONLINE: FEX 110 online
*Feb 11 06:00:30.391: %SATMGR-SW2-5-FEX_MODULE_ONLINE: FEX 110, module 1 online
*Feb 11 06:00:30.395: %OIR-SW2-6-INSREM: Switch 110 Physical Slot 1 - Module
Type LINE_CARD inserted
*Feb 11 06:00:30.951: %SATMGR-SW2-5-FABRIC_PORT_UP: SDP up on interface Te2/3/5,
connected to FEX 110, uplink 51
*Feb 11 06:00:30.951: %SATMGR-SW2-5-DUAL_ACTIVE_DETECT_CAPABLE: channel group
99 is now dual-active detection capable
*Feb 11 06:01:00.983: %OIR-SW2-6-SP_INSCARD: Card inserted in Switch_number =
110, physical slot 1, interfaces are now online

```

```
FEX-110#show ver | in image
```

```
System image file is "flash:/c6800ia-universalk9-mz.150-2.EX4/
c6800ia-universalk9-mz.150-2.EX4.bin"
```

```
6K1#show issu state det
```

```
The system is configured to be upgraded in staggered mode.
2 supervisor nodes are found to be online.
Summary: an in-tandem upgrade is in progress.
```

```

Slot = 2/2
RP State = Active
ISSU State = Run Version
Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin,12;
bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12
Operating Mode = sso
ISSU Sub-State = Run Version Completed
Starting Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin
Target Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin
Current Version = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin

```

```

Slot = 1/2
RP State = Standby
ISSU State = Run Version
Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12;
Operating Mode = sso
ISSU Sub-State = Run Version Completed
Starting Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin
Target Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin
Current Version = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin

```

```
This system is Fex-capable
```

```

Fex-ID   ISSU Status
-----
110     FEX_UPGRADE_COMPLETE

```

7. A fim continuar, incorpore o comando do **commitversion do issu** promover o chassi à espera VSS e terminar a sequência ISSU. O chassi à espera VSS recarrega, reloads com a imagem nova, e inicializa como o chassi à espera VSS no estado de redundância SSO, executando a imagem nova. Esta etapa está completa quando a configuração do chassi é sincronizada, como indicado **sincronização maioria pela mensagem sucedida**, e todas as placas de linha no VSS-à espera novo são ascendentes e em linha.

6K1#**issu commitversion**  
%issu commitversion initiated successfully, upgrade sequence will continue shortly

6K1#

\*Feb 11 06:05:30.839: %ISSU\_PROCESS-SW2-3-COMMITVERSION: **issu commitversion; Commitversion sequence will begin in 60 seconds. Enter 'issu abortversion' to cancel.**

\*Feb 11 06:06:00.839: %ISSU\_PROCESS-SW2-6-COMMITVERSION\_INFO:  
Resetting Standby shortly

\*Feb 11 06:08:48.571: %PFREDUN-SW2-6-ACTIVE: Standby initializing for SSO mode

\*Feb 11 06:09:01.163: %ISSU\_PROCESS-SW2-6-COMMITVERSION\_INFO: Standby has come online, wait for terminal state

.  
.

\*Feb 11 06:10:41.267: %VS\_GENERIC-SW2-6-VS\_HA\_HOT\_STANDBY\_NOTIFY: Standby switch is in Hot Standby mode

\*Feb 11 06:10:41.271: %HA\_CONFIG\_SYNC-SW2-6-BULK\_CFGSYNC\_SUCCEED:  
**Bulk Sync succeeded**

\*Feb 11 06:10:41.271: %RF-SW2-5-RF\_TERMINAL\_STATE: Terminal state reached for (SSO)

\*Feb 11 06:10:46.403: %ISSU\_PROCESS-SW2-6-COMMITVERSION\_INFO: Upgrade has completed, updating boot configuration

!

!Boot variable now displays both new and old image in ?show issu state detail? output.

!

6K1#**show issu state detail**

The system is configured to be upgraded in staggered mode.  
2 supervisor nodes are found to be online.  
Summary: an in-tandem upgrade is in progress.

Slot = 2/2

RP State = Active

ISSU State = Commit Version

**Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin,12;**

**bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12**

Operating Mode = sso

ISSU Sub-State = Commit Version completed, waiting for system to settle

Starting Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin

Target Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin

Current Version = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin

Slot = 1/2

RP State = Standby

ISSU State = Commit Version

**Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin,12;**

**bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12**

Operating Mode = sso

ISSU Sub-State = Commit Version completed, waiting for system to settle

Starting Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin

Target Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin

Current Version = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin

This system is Fex-capable

**Fex-ID    ISSU Status**

110      **FEX\_UPGRADE\_COMPLETE**

6K1#show redundancy

Redundant System Information :

-----  
Available system uptime = 1 hour, 28 minutes  
Switchovers system experienced = 1  
Standby failures = 1  
Last switchover reason = user forced

Hardware Mode = Duplex  
**Configured Redundancy Mode = sso**  
**Operating Redundancy Mode = sso**  
Maintenance Mode = Disabled  
Communications = Up

Current Processor Information :

-----  
Active Location = slot 2/2  
**Current Software state = ACTIVE**  
Uptime in current state = 36 minutes  
Image Version = Cisco IOS Software, s2t54 Software  
(s2t54-ADVENTERPRISEK9-M), Version 15.1(2)SY1, RELEASE SOFTWARE (fc4)  
Technical Support: <http://www.cisco.com/techsupport>  
Copyright (c) 1986-2013 by Cisco Systems, Inc.  
Compiled Thu 28-Nov-13 12:58 by prod\_rel\_team  
BOOT = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin,12;  
bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12  
CONFIG\_FILE =  
BOOTLDR =  
Configuration register = 0x2102

Peer Processor Information :

-----  
Standby Location = slot 1/2  
**Current Software state = STANDBY HOT**  
Uptime in current state = 1 minute  
Image Version = Cisco IOS Software, s2t54 Software (s2t54-ADVENTERPRISEK9-M),  
Version 15.1(2)SY1, RELEASE SOFTWARE (fc4)  
Technical Support: <http://www.cisco.com/techsupport>  
Copyright (c) 1986-2013 by Cisco Systems, Inc.  
Compiled Thu 28-Nov-13 12:58 by prod\_rel\_team  
BOOT = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin,12;  
bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12  
CONFIG\_FILE =  
BOOTLDR =  
Configuration register = 0x2102

## Verificar

A fim verificar que a elevação era bem sucedida, use estes comandos:

- mostre o detalhe do estado do issu
- mostre a Redundância
- interruptor todo do módulo show

Está aqui o estado atual depois que o processo ISSU:

- 6500 chassis com interruptor ID 2 são ativos e o interruptor com ID 1 é à espera (quente). Estão agora na versão 15.1(2)SY1 do Cisco IOS Software.
- O cliente instantâneo do acesso (6800IA) executa agora o Cisco IOS Software Release 15.0(2)EX4.

6K1#show mod swi all

Switch Number: 1 Role: Virtual Switch Standby

Mod	Ports	Card Type	Model	Serial No.
2	5	Supervisor Engine 2T 10GE w/ CTS (Hot)	VS-SUP2T-10G	SAL1632K9P2
3	20	DCEF2T 4 port 40GE / 16 port 10GE	WS-X6904-40G	SAL1741E4ZA

Mod	MAC addresses	Hw	Fw	Sw	Status
2	c471.fe7c.de96 to c471.fe7c.de9d	1.3	12.2(50r)SYS	15.1(2)SY1	Ok
3	e02f.6d6a.698c to e02f.6d6a.699f	1.0	12.2(50r)SYL	15.1(2)SY1	Ok

Mod	Sub-Module	Model	Serial	Hw	Status
2	Policy Feature Card 4	VS-F6K-PFC4	SAL1637MCQQ	1.2	Ok
2	CPU Daughterboard	VS-F6K-MSFC5	SAL1637MKX8	1.4	Ok
3	Distributed Forwarding Card	WS-F6K-DFC4-E	SAL1745FSD6	1.0	Ok

Mod Online Diag Status

2 Pass  
3 Pass

Switch Number: 2 Role: Virtual Switch Active

Mod	Ports	Card Type	Model	Serial No.
2	5	Supervisor Engine 2T 10GE w/ CTS (Acti	VS-SUP2T-10G	SAL1650UC8L
3	20	DCEF2T 4 port 40GE / 16 port 10GE	WS-X6904-40G	SAL17173QD3

Mod	MAC addresses	Hw	Fw	Sw	Status
2	2c54.2dc4.2f3a to 2c54.2dc4.2f41	1.4	12.2(50r)SYS	15.1(2)SY1	Ok
3	70ca.9b8f.510c to 70ca.9b8f.511f	1.0	12.2(50r)SYL	15.1(2)SY1	Ok

Mod	Sub-Module	Model	Serial	Hw	Status
2	Policy Feature Card 4	VS-F6K-PFC4	SAL1651UG8P	1.2	Ok
2	CPU Daughterboard	VS-F6K-MSFC5	SAL1651UEBY	1.5	Ok
3	Distributed Forwarding Card	WS-F6K-DFC4-E	SAL17173QHY	1.2	Ok

Mod Online Diag Status

2 Pass  
3 Pass

Switch Number: 110 Role: FEX

Mod	Ports	Card Type	Model	Serial No.
1	48	C6800IA 48GE	C6800IA-48TD	FOC1736W1A6

Mod	MAC addresses	Hw	Fw	Sw	Status
-----	---------------	----	----	----	--------

-----  
1 c025.5cc2.2d00 to c025.5cc2.2d33 0.0 Unknown 15.0(2)EX4 Ok

Mod Online Diag Status

-----  
1 Pass

6K1#

6K1#show switch virtual

Switch mode : Virtual Switch  
Virtual switch domain number : 100  
Local switch number : 2  
Local switch operational role: Virtual Switch Active  
Peer switch number : 1  
Peer switch operational role : Virtual Switch Standby