

# Procédure de mise à niveau ISSU du commutateur de la gamme Catalyst 6500 avec connexion 6800IA (FEX)

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## Introduction

Ce document décrit une procédure de mise à niveau logicielle en service (ISSU) étape par étape sur les commutateurs de la gamme Cisco Catalyst 6500 en mode VSS (Virtual Switching System) avec l'utilisation du Supervisor 2T avec les commutateurs d'accès instantané Cisco Catalyst 6800 à double résidence (FEX) joints.

## Conditions préalables

### Conditions requises

Aucune spécification déterminée n'est requise pour ce document.

### Components Used

Les informations de ce document sont basées sur les commutateurs de la gamme Cisco Catalyst 6500 en mode VSS qui exécutent Supervisor Engine 2T avec un 6800IA à double résidence attaché aux cartes de ligne WS-X6904-40G.

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.

# Procédure de mise à niveau

## Configuration initiale

La procédure de mise à niveau est exécutée pour le logiciel Cisco IOS® Version 15.1(2)SY à Version 15.1(2)SY1.

Voici les statistiques avant le processus ISSU :

- Le châssis Catalyst 6500 avec l'ID de commutateur 1 est actif et le commutateur avec l'ID 2 est en veille (à chaud).
- Les deux châssis sont activés sur le logiciel Cisco IOS Version 15.1(2)SY.
- Un seul commutateur 6800IA qui exécute la version 15.0(2)EX2 de la plate-forme logicielle Cisco IOS est connecté à VSS sur les cartes de ligne WS-X6904-40G avec une connexion à double domicile. Le numéro de port-channel FEX est 99 et l'ID FEX est 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.

-----

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

Mod MAC addresses Hw Fw Sw Status

-----

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

## Étapes de mise à niveau

1. Assurez-vous que la nouvelle image Cisco IOS (version 15.1(2)SY1 du logiciel Cisco IOS) est présente dans le disque de démarrage et le disque d'amorçage.

```
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. (Facultatif) Utilisez ces commandes afin de vérifier que le VSS est prêt à exécuter la procédure de mise à niveau :  
**show issu state detailshow redundancyShow module switch all (Afficher tous les modules de commutateurs)6K1#show issu state detail**

Le système est configuré pour être mis à niveau en mode échelonné.

Deux noeuds de superviseur sont en ligne.

Résumé: le système sera mis à niveau en mode in-tandem.

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>  
Copyright (c) 1986-2013 by Cisco Systems, Inc.  
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
Copyright (c) 1986-2013 by Cisco Systems, Inc.
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. Utilisez la commande **issu loadversion** afin de démarrer le processus de mise à niveau.

Au cours de cette étape, le châssis de secours VSS redémarre, se recharge avec la nouvelle image et s'initialise en tant que châssis de secours VSS en mode de redondance SSO, exécutant la nouvelle image. Cette étape est terminée lorsque la configuration du châssis est synchronisée, comme l'indique le message **Bulk sync Success**. Le chargement de la nouvelle image peut prendre de quelques secondes à quelques minutes et la transition du châssis de secours VSS en mode 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
```

4. Lorsque le châssis de secours VSS exécute correctement la nouvelle image dans l'état de redondance SSO et que toutes les cartes de ligne du châssis de secours VSS sont activées et en ligne, entrez la commande **issu runversion** afin de forcer un basculement. Le châssis de secours VSS mis à niveau prend le relais en tant que nouveau châssis actif, exécutant la nouvelle image. L'ancien châssis actif se recharge et s'initialise en tant que nouveau châssis de secours VSS en mode SSO, exécutant l'ancienne image (au cas où la mise à niveau logicielle doit être abandonnée et l'ancienne image restaurée). Cette étape est terminée lorsque la configuration du châssis est synchronisée, comme l'indique le message **Bulk sync Success**.

## 6K1#issu runversion

Cette commande recharge l'unité active.

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. Utilisez la commande **issu acceptversion** afin d'arrêter le temporisateur de restauration. Cela est nécessaire car si le compteur expire, le châssis mis à niveau se recharge et revient à la version logicielle précédente.

6K1#**issu acceptversion**

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

6. Utilisez la commande **issu runversion fex all** afin de démarrer la procédure de téléchargement et de mise à niveau d'image sur FEX (6800IA). La FEX déclenche le téléchargement de l'image à partir du nouveau bundle logiciel de Supervisor2T (ici la version 15.2(2)SY1 du logiciel Cisco IOS). Si vous utilisez des piles FEX, le maître est responsable d'extraire l'image à ses membres. Un serveur TFTP s'exécute à l'adresse 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. Afin de continuer, entrez la commande **issu comitversion** pour mettre à niveau le châssis de secours VSS et terminer la séquence ISSU. Le châssis de secours VSS redémarre, se recharge avec la nouvelle image et s'initialise en tant que châssis de secours VSS en état de redondance SSO, exécutant la nouvelle image. Cette étape est terminée lorsque la configuration du châssis est synchronisée, comme indiqué par le message **Bulk sync Success**, et que toutes les cartes de ligne du nouveau VSS-Standby sont actives et en ligne.

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.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 = 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.SY1.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

## Vérification

Afin de vérifier que la mise à niveau a réussi, utilisez les commandes suivantes :

- **show issu state detail**
- **show redundancy**
- **Show module switch all (Afficher tous les modules de commutateurs)**

Voici l'état actuel après le processus ISSU :

- Le châssis 6500 avec l'ID de commutateur 2 est actif et le commutateur avec l'ID 1 est en veille (à chaud). Ils sont maintenant sur le logiciel Cisco IOS Version 15.1(2)SY1.
- Le client Instant Access (6800IA) exécute désormais le logiciel Cisco IOS Version 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