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Introducción

Este documento describe un procedimiento en servicio gradual de la actualización del software (ISSU) en los Cisco Catalyst 6500 Series Switch en el modo virtual del sistema de transferencia (VSS) con el uso del supervisor 2T con el Cisco Catalyst dirigido dual 6800 switches de acceso inmediatos (FEX) asociados.

Prerrequisitos

Requisitos

No hay requisitos específicos para este documento.

Componentes Utilizados

La información en este documento se basa en los Cisco Catalyst 6500 Series Switch en el modo VSS que ejecutan el Supervisor Engine 2T con un 6800IA dirigido dual asociado en el linecards WS-X6904-40G.

La información que contiene este documento se creó a partir de los dispositivos en un ambiente de laboratorio específico. Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si la red está funcionando, asegúrese de haber comprendido el impacto que puede tener cualquier comando.

Procedimiento de actualización

Configuración inicial

El procedimiento de actualización se realiza para la versión 15.1(2)SY del Cisco IOS ® Software para liberar 15.1(2)SY1.

Aquí están las estadísticas antes del proceso ISSU:

- El chasis del Catalyst 6500 con el Switch ID 1 es activo y el Switch con ID 2 es espera (caliente).
- Ambos chasis están para arriba en el Cisco IOS Software Release 15.1(2)SY.
- Un solo 6800IA que funciona con el Cisco IOS Software Release 15.0(2)EX2 está conectado con el VSS en el linecards WS-X6904-40G con una conexión del dual-hogar. El número de canal del puerto FEX es 99 y el FEX ID es 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

```

Pasos de actualización

1. Asegurese que la imagen del nuevo Cisco IOS (Cisco IOS Software Release 15.1(2)SY1) está presente en el bootdisk y el 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) utilice estos comandos para verificar que el VSS está listo para funcionar con el procedimiento de actualización:
muestre el detalle del estado del issu
muestre la RedundanciaSwitch todo del módulo
showdetalle del estado del issu 6K1#show

El sistema se configura para ser actualizado en el modo escalonado.
 Dos Nodos del supervisor se encuentran para estar en línea.
 Resumen el sistema será actualizado en el modo en-en tándem.

```

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. Utilice el comando del **loadversion del issu** para comenzar el proceso de actualización.

En este paso, el chasis espera VSS reinicia, las recargas con la nueva imagen, y se inicializa como el chasis espera VSS en el modo de redundancia SSO, funcionando con la nueva imagen. Este paso es completo cuando se sincroniza la configuración del chasis, según lo indicado por el **bulto sincroniza el mensaje tenido éxito**. Puede ser que lleve varios segundos algunos minutos para que la nueva imagen cargue y para el chasis espera VSS a la transición al 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
```

4. Cuando el chasis espera VSS funciona con éxito la nueva imagen en el estado de redundancia SSO y todo el linecards en el chasis espera VSS está ascendente y en línea, ingrese el comando del **runversion del issu** para forzar un intercambio. El chasis espera actualizado VSS asume el control como el nuevo chasis activo, funcionando con la nueva imagen. Las recargas antes activas del chasis y se inicializan como el nuevo chasis espera VSS en el modo SSO, funcionando con la imagen anterior (en caso de que la actualización del software necesita ser abortada y la imagen anterior ser restablecida). Este paso es completo cuando se sincroniza la configuración del chasis, según lo indicado por el **bulto sincroniza el mensaje tenido éxito**.

runversion 6K1#issu

Este comando recargará la unidad activa.

```
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. Utilice el comando del **acceptversion del issu** para parar el temporizador de la restauración no actualizada. Esto es necesario porque si expira el temporizador, las recargas actualizadas del chasis e invierte a la versión del software anterior.

```
6K1#issu acceptversion  
% Rollback timer stopped. Please issue the 'issu commitversion' command.
```

6. Utilice el **comando all del fex del runversion del issu** para comenzar la descarga de imagen y el procedimiento de actualización en el FEX (6800IA). El FEX acciona la descarga de imagen del nuevo conjunto del software del Supervisor2T (aquí Cisco IOS Software Release 15.2(2)SY1). Si usted utiliza los stack FEX, el master es responsable extraer la imagen a sus miembros. Un servidor TFTP se ejecuta en 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.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_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. Para continuar, ingrese el comando del **commitversion del issu** de actualizar el chasis espera VSS y de completar la secuencia ISSU. El chasis espera VSS reinicia, las recargas con la nueva imagen, y se inicializa como el chasis espera VSS en el estado de redundancia SSO, funcionando con la nueva imagen. Este paso es completo cuando se sincroniza la configuración del chasis, según lo indicado por el **bulto sincroniza el mensaje tenido éxito**, y todo el linecards en el nuevo VSS-espera es ascendente y en línea.

```
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

```

Verificación

Para verificar que la actualización fuera acertada, utilice estos comandos:

- muestre el detalle del estado del issu
- muestre la Redundancia
- Switch todo del módulo show

Aquí está el estado actual después del proceso ISSU:

- 6500 chasis con el Switch ID 2 son activos y el Switch con ID 1 es espera (caliente). Ahora están en la versión del Cisco IOS Software 15.1(2)SY1.
- El cliente instantáneo del acceso (6800IA) ahora funciona con el 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