

6800IA(FEX)가 연결된 Catalyst 6500 Series Switch ISSU 업그레이드 절차

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소개

이 문서에서는 듀얼 홈 Cisco Catalyst 6800 FEX(Instant Access Switches)가 연결된 Supervisor 2T를 사용하는 VSS(Virtual Switching System) 모드의 Cisco Catalyst 6500 Series 스위치에 대한 단계별 ISSU(In-Service Software Upgrade) 절차에 대해 설명합니다.

사전 요구 사항

요구 사항

이 문서에 대한 특정 요건이 없습니다.

사용되는 구성 요소

이 문서의 정보는 WS-X6904-40G 라인 카드에 듀얼 홈 6800IA가 연결된 Supervisor Engine 2T를 실행하는 VSS 모드의 Cisco Catalyst 6500 Series 스위치를 기반으로 합니다.

이 문서의 정보는 특정 랩 환경의 디바이스를 토대로 작성되었습니다. 이 문서에 사용된 모든 디바이스는 초기화된(기본) 컨피그레이션으로 시작되었습니다. 현재 네트워크가 작동 중인 경우, 모든 명령어의 잠재적인 영향을 미리 숙지하시기 바랍니다.

업그레이드 절차

초기 설정

업그레이드 절차는 Cisco IOS® Software Release 15.1(2)SY에서 Release 15.1(2)SY1에 대해 수행됩니다.

ISSU 프로세스 이전의 통계는 다음과 같습니다.

- 스위치 ID가 1인 Catalyst 6500 새시는 활성 상태이고 ID가 2인 스위치는 대기(핫)입니다.
- 두 새시 모두 Cisco IOS Software 릴리스 15.1(2)SY에 있습니다.
- Cisco IOS 소프트웨어 릴리스 15.0(2)EX2를 실행하는 단일 6800IA가 듀얼 홈 연결을 통해 WS-X6904-40G 라인 카드의 VSS에 연결됩니다. FEX 포트 채널 번호는 99이고 FEX ID는 110입니다.

```
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

```

업그레이드 단계

1. 새 Cisco IOS 이미지(Cisco IOS Software Release 15.1(2)SY1)가 부팅 디스크 및 slavebootdisk에 있는지 확인합니다.

```

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.SY1.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.SY1.bin

```

2. (선택 사항) 다음 명령을 사용하여 VSS가 업그레이드 절차를 실행할 준비가 되었는지 확인합니다.

issu 상태 세부 정보 표시이중화 표시모듈 스위치 모두 표시6K1#상태 세부 정보 표시

시스템은 시차 모드로 업그레이드되도록 구성됩니다.
 2개의 수퍼바이저 노드가 온라인 상태인 것으로 확인되었습니다.
 요약:시스템은 직렬 모드로 업그레이드됩니다.

```

Slot = 1/2
RP State = Active
ISSU State = Init
Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.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. issu loadversion 명령을 사용하여 업그레이드 프로세스를 시작합니다.

이 단계에서는 VSS 대기 새시가 재부팅되고 새 이미지로 다시 로드되며 SSO 이중화 모드에서 VSS 대기 새시로 초기화되어 새 이미지를 실행합니다. 이 단계는 Bulk sync succeeded 메시지에 표시된 대로 새시 컨피그레이션이 동기화될 때에 완료됩니다. 새 이미지가 로드되고 VSS 대기 새시가 SSO 모드로 전환되는 데 몇 초에서 몇 분 정도 걸릴 수 있습니다.

```
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. VSS 스탠바이 썬시기가 SSO 이중화 상태에서 새 이미지를 성공적으로 실행하고 VSS 스탠바이 썬시의 모든 라인 카드가 작동 및 온라인 상태인 경우 전환을 강제로 수행하려면 issu runversion 명령을 입력합니다.업그레이드된 VSS 스탠바이 썬시기가 새 액티브 썬시를 인수하여 새 이미지를 실행합니다.이전의 활성 썬시는 SSO 모드에서 새 VSS 대기 썬시로 다시 로드되고 초기화되어 이전 이미지를 실행합니다(소프트웨어 업그레이드를 중단하고 이전 이미지를 복원해야 하는 경우). 이 단계는 Bulk sync succeeded 메시지에 표시된 대로 썬시 컨피그레이션이 동기화될 때에 완료됩니다.

6K1#issu 실행 버전

이 명령은 액티브 유닛을 다시 로드합니다.

```
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. 롤백 타이머를 중지하려면 `issu acceptversion` 명령을 사용합니다. 타이머가 만료되면 업그레이드된 새시가 다시 로드되고 이전 소프트웨어 버전으로 복원되기 때문에 이 작업이 필요합니다.

```
6K1#issu acceptversion
```

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

6. FEX(6800IA)에서 이미지 다운로드 및 업그레이드 절차를 시작하려면 `issu runversion fex all` 명령을 사용합니다. FEX는 Supervisor2T의 새 소프트웨어 번들에서 이미지 다운로드를 트리거합니다(Cisco IOS 소프트웨어 릴리스 15.2(2)SY1). FEX 스택을 사용하는 경우 마스터는 해당 멤버에 이미지를 추출할 책임이 있습니다. TFTP 서버는 192.1.1.1에서 실행됩니다.

```
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. 계속하려면 issu commitversion 명령을 입력하여 VSS 대기 새시를 업그레이드하고 ISSU 시퀀스를 완료합니다.VSS 대기 새시는 재부팅되고 새 이미지로 다시 로드되며 SSO 이중화 상태에서 VSS 대기 새시로 초기화되어 새 이미지를 실행합니다.이 단계는 대량 동기화 성공 메시지에 표시된 대로 새시 컨피그레이션이 동기화되고 새 VSS-Standby의 모든 라인 카드가 작동 및 온라인 상태일 때 완료됩니다.

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


```
-----
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
```