

UCS STP004 Firmware Core Activation

When a new release of UCS code is released you need to do a few things in sequence, and add these all together you get something called "UCS Upgrade Standard Operating Procedure".

STP001	Notification of Release
STP002	Research and Plan the Release
STP003	Download the Release
STP004	Firmware Core Activation
STP005	Firmware Component Activation
STP006	Backup the Release

Table 1 - List of Standard Technical Procedures in the UCS Upgrade Standard Operating Procedure"

This document describes how to execute STP004 Firmware Core Activation, which will result in your Fabric Interconnects, UCS Manager and IOMs being updated to a new release.

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- **Location** – This document is on the web at <https://supportforums.cisco.com/docs/DOC-8584>
- **Prerequisites** - Before starting this procedure you should have completed steps 1-3 of the "UCS Upgrade Standard Operating Procedure" and have a verified release package available on UCSM.
- **Author** – Steve Chambers, Unified Computing, [Cisco Advanced Services](#), Europe.
- **Advanced Services** – [Do it right, first time, every time, with Cisco.](#)

Act 1: Stage the FEX/IOMs Upgrade

Summary: Update and ready the FEX/IOMs for activation, which is triggered when each FI is activated.

The fastest way to do this is via the GUI and Upgrade (but not Activate) all IOMs. Use the Filters at the top to isolate the IOMs.

Name	Running Version	Startup Version	Backup Version	Update Status	Activate Status
UCS Manager	1.1(1e)	1.1(1e)	N/A	N/A	ready
Chassis 1					
IO Modules					
IO Module 1	1.1(1e)	1.1(1e)	1.1(1i)	updating	ready
IO Module 2	1.1(1e)	1.1(1e)	1.1(1i)	updating	ready
Servers					
Chassis 2					
IO Modules					
IO Module 1	1.1(1e)	1.1(1e)	1.1(1i)	updating	ready
IO Module 2	1.1(1e)	1.1(1e)	1.1(1i)	updating	ready
Servers					
Chassis 3					
IO Modules					
IO Module 1	1.1(1e)	1.1(1e)	1.1(1i)	updating	ready
IO Module 2	1.1(1e)	1.1(1e)	1.1(1i)	updating	ready
Servers					
Chassis 4					
IO Modules					
IO Module 1	1.1(1e)	1.1(1e)	1.1(1i)	updating	ready
IO Module 2	1.1(1e)	1.1(1e)	1.1(1i)	updating	ready
Fabric Interconnects					
Fabric Interconnect A					
Kernel	4.1(3)N2(1.1e)	4.1(3)N2(1.1e)	N/A	N/A	ready
System	4.1(3)N2(1.1e)	4.1(3)N2(1.1e)	N/A	N/A	ready
Fabric Interconnect B					
Kernel	4.1(3)N2(1.1e)	4.1(3)N2(1.1e)	N/A	N/A	ready
System	4.1(3)N2(1.1e)	4.1(3)N2(1.1e)	N/A	N/A	ready

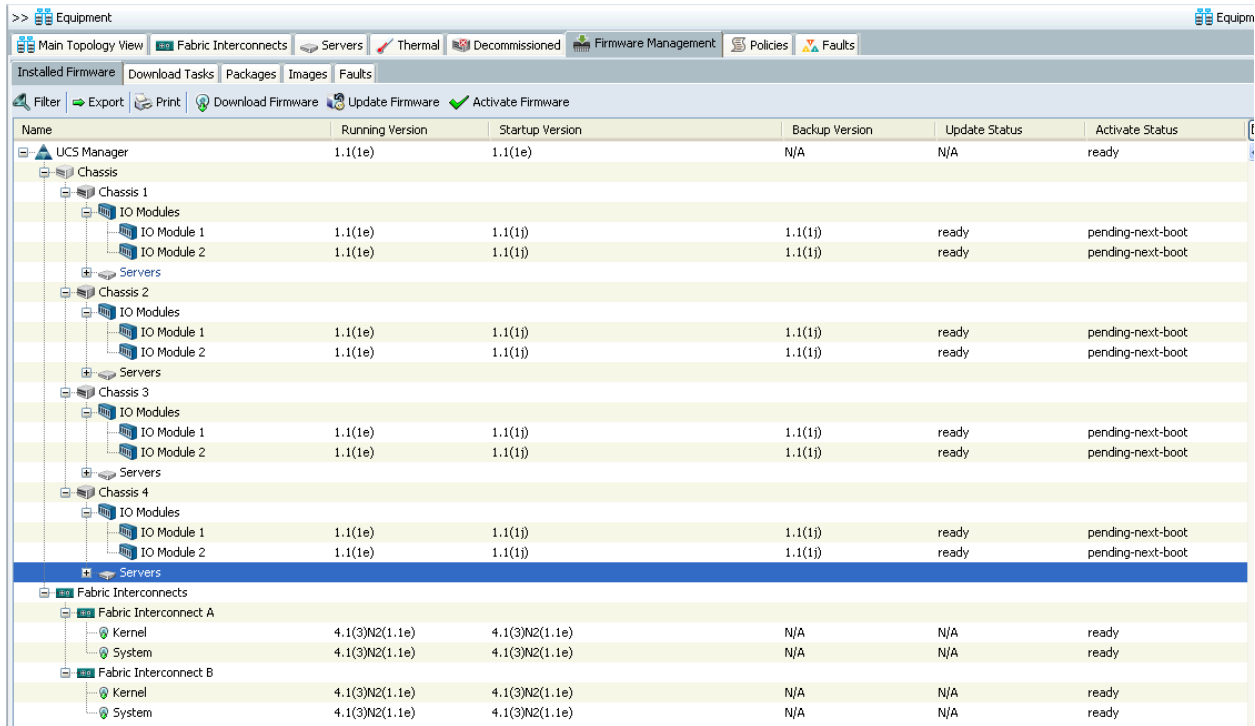
The next step is to Activate with Set Startup Only

Name	Running Version	Startup Version	Ignore Compatibility Check	Activate Status
UCS Manager	1.1(1e)	1.1(1e)	<input checked="" type="checkbox"/>	ready
Chassis				
Chassis 1				
IO Modules				
IO Module 1	1.1(1e)	1.1(1i)	<input checked="" type="checkbox"/>	pending-next-boot
IO Module 2	1.1(1e)	1.1(1i)	<input checked="" type="checkbox"/>	pending-next-boot
Chassis 2				
IO Modules				
IO Module 1	1.1(1e)	1.1(1i)	<input checked="" type="checkbox"/>	pending-next-boot
IO Module 2	1.1(1e)	1.1(1i)	<input checked="" type="checkbox"/>	pending-next-boot
Chassis 3				
IO Modules				
IO Module 1	1.1(1e)	1.1(1i)	<input checked="" type="checkbox"/>	pending-next-boot
IO Module 2	1.1(1e)	1.1(1i)	<input checked="" type="checkbox"/>	pending-next-boot
Chassis 4				
IO Modules				
IO Module 1	1.1(1e)	1.1(1i)	<input checked="" type="checkbox"/>	pending-next-boot
IO Module 2	1.1(1e)	1.1(1i)	<input checked="" type="checkbox"/>	pending-next-boot

Act 2: Update UCS Manager

Summary: Update and activate the new UCS Manager code: this only disrupts administration/GUI.

Checkpoint: the situation is as :

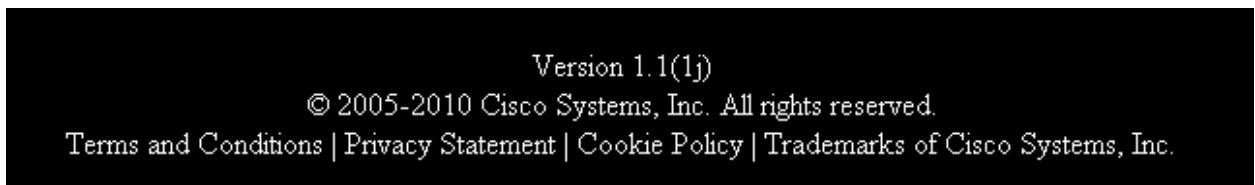


Name	Running Version	Startup Version	Backup Version	Update Status	Activate Status
UCS Manager	1.1(1e)	1.1(1e)	N/A	N/A	ready
Chassis 1					
IO Modules					
IO Module 1	1.1(1e)	1.1(1j)	1.1(1j)	ready	pending-next-boot
IO Module 2	1.1(1e)	1.1(1j)	1.1(1j)	ready	pending-next-boot
Servers					
Chassis 2					
IO Modules					
IO Module 1	1.1(1e)	1.1(1j)	1.1(1j)	ready	pending-next-boot
IO Module 2	1.1(1e)	1.1(1j)	1.1(1j)	ready	pending-next-boot
Servers					
Chassis 3					
IO Modules					
IO Module 1	1.1(1e)	1.1(1j)	1.1(1j)	ready	pending-next-boot
IO Module 2	1.1(1e)	1.1(1j)	1.1(1j)	ready	pending-next-boot
Servers					
Chassis 4					
IO Modules					
IO Module 1	1.1(1e)	1.1(1j)	1.1(1j)	ready	pending-next-boot
IO Module 2	1.1(1e)	1.1(1j)	1.1(1j)	ready	pending-next-boot
Servers					
Fabric Interconnects					
Fabric Interconnect A					
Kernel	4.1(3)N2(1.1e)	4.1(3)N2(1.1e)	N/A	N/A	ready
System	4.1(3)N2(1.1e)	4.1(3)N2(1.1e)	N/A	N/A	ready
Fabric Interconnect B					
Kernel	4.1(3)N2(1.1e)	4.1(3)N2(1.1e)	N/A	N/A	ready
System	4.1(3)N2(1.1e)	4.1(3)N2(1.1e)	N/A	N/A	ready

There's more than one way to do it, but right-click'ing UCS Manager and selecting Activate Firmware, selecting 1.1j, and OK – expect to get logged out! 😊

Log out of all browsers and client devices, ready to login to the new system.

Go get a latte if it's before 11am, or an Espresso if it is > 11 am (Italian rules!)



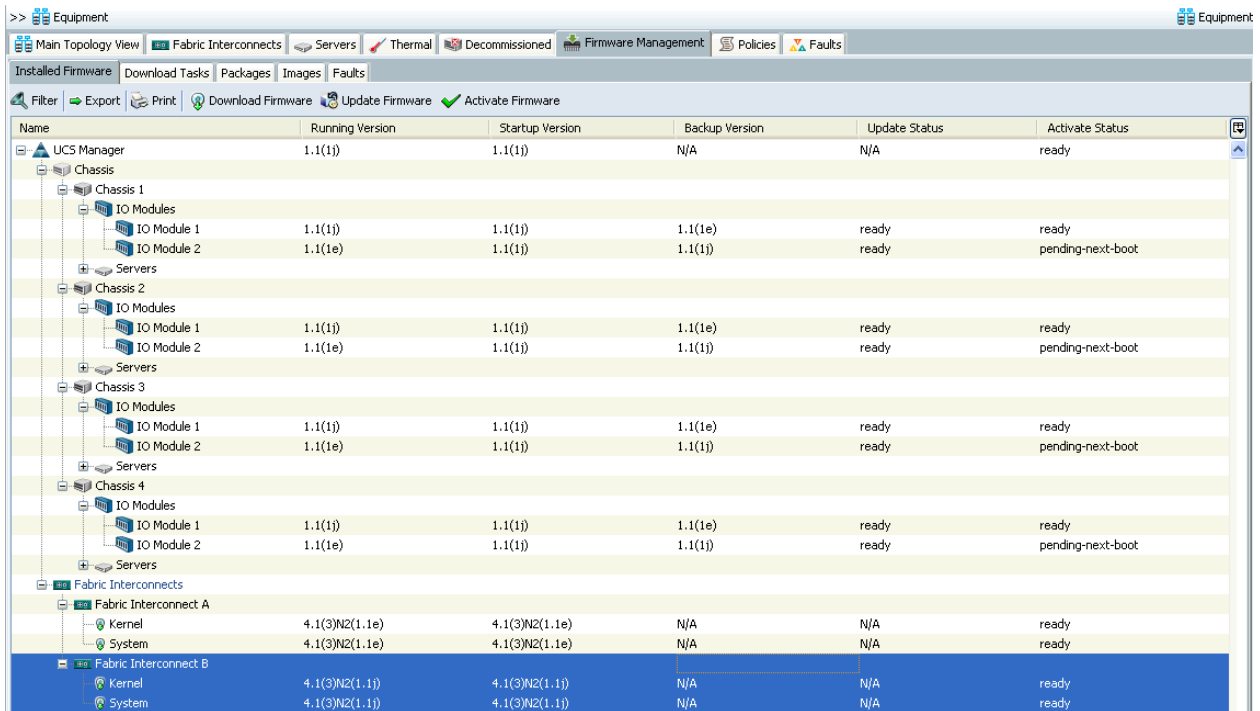
Act 3: Update the Primary Fabric Interconnect

Summary: Update and activate the Primary FI.

Check the cluster situation – you need to GUI to the primary.

```
BRUTAC-AS-A# show cluster state
Cluster Id: 0x813d8d0043b311de-0xb49b000decb25a04
A: UP, PRIMARY
B: UP, SUBORDINATE
HA READY
```

Activate the firmware on the subordinate – use the GUI, once you OK...it takes a while...



Name	Running Version	Startup Version	Backup Version	Update Status	Activate Status
UCS Manager	1.1(1j)	1.1(1j)	N/A	N/A	ready
Chassis 1					
IO Modules					
IO Module 1	1.1(1j)	1.1(1j)	1.1(1e)	ready	ready
IO Module 2	1.1(1e)	1.1(1j)	1.1(1j)	ready	pending-next-boot
Servers					
Chassis 2					
IO Modules					
IO Module 1	1.1(1j)	1.1(1j)	1.1(1e)	ready	ready
IO Module 2	1.1(1e)	1.1(1j)	1.1(1j)	ready	pending-next-boot
Servers					
Chassis 3					
IO Modules					
IO Module 1	1.1(1j)	1.1(1j)	1.1(1e)	ready	ready
IO Module 2	1.1(1e)	1.1(1j)	1.1(1j)	ready	pending-next-boot
Servers					
Chassis 4					
IO Modules					
IO Module 1	1.1(1j)	1.1(1j)	1.1(1e)	ready	ready
IO Module 2	1.1(1e)	1.1(1j)	1.1(1j)	ready	pending-next-boot
Servers					
Fabric Interconnects					
Fabric Interconnect A					
Kernel	4.1(3)N2(1.1e)	4.1(3)N2(1.1e)	N/A	N/A	ready
System	4.1(3)N2(1.1e)	4.1(3)N2(1.1e)	N/A	N/A	ready
Fabric Interconnect B					
Kernel	4.1(3)N2(1.1j)	4.1(3)N2(1.1j)	N/A	N/A	ready
System	4.1(3)N2(1.1j)	4.1(3)N2(1.1j)	N/A	N/A	ready

Now we've upgraded the Subordinate, let's make it the Primary by SSH'ing and saying 'cluster lead b':

Once the updates are complete on Fabric A:

Name	Running Version	Startup Version	Backup Version	Update Status	Activate Status
UCS Manager	1.1(1j)	1.1(1j)	N/A	N/A	ready
Chassis					
Chassis 1					
IO Modules					
IO Module 1	1.1(1j)	1.1(1j)	1.1(1e)	ready	ready
IO Module 2	1.1(1e)	1.1(1j)	1.1(1j)	ready	pending-next-boot
Servers					
Chassis 2					
IO Modules					
IO Module 1	1.1(1j)	1.1(1j)	1.1(1e)	ready	ready
IO Module 2	1.1(1e)	1.1(1j)	1.1(1j)	ready	pending-next-boot
Servers					
Chassis 3					
IO Modules					
IO Module 1	1.1(1j)	1.1(1j)	1.1(1e)	ready	ready
IO Module 2	1.1(1e)	1.1(1j)	1.1(1j)	ready	pending-next-boot
Servers					
Chassis 4					
IO Modules					
IO Module 1	1.1(1j)	1.1(1j)	1.1(1e)	ready	ready
IO Module 2	1.1(1e)	1.1(1j)	1.1(1j)	ready	pending-next-boot
Servers					
Fabric Interconnects					
Fabric Interconnect A					
Kernel	4.1(3)N2(1.1e)	4.1(3)N2(1.1e)	N/A	N/A	ready
System	4.1(3)N2(1.1e)	4.1(3)N2(1.1e)	N/A	N/A	ready
Fabric Interconnect B					
Kernel	4.1(3)N2(1.1j)	4.1(3)N2(1.1j)	N/A	N/A	ready
System	4.1(3)N2(1.1j)	4.1(3)N2(1.1j)	N/A	N/A	ready

The last is to update the secondary fabric



Name	Running Version	Startup Version	Backup Version	Update Status	Activate Status
UCS Manager	1.1(1j)	1.1(1j)	N/A	N/A	ready
Chassis 1					
IO Module 1	1.1(1j)	1.1(1j)	1.1(1e)	ready	ready
IO Module 2	1.1(1e)	1.1(1j)	1.1(1j)	ready	pending-next-boot
Chassis 2					
IO Module 1	1.1(1j)	1.1(1j)	1.1(1e)	ready	ready
IO Module 2	1.1(1e)	1.1(1j)	1.1(1j)	ready	pending-next-boot
Chassis 3					
IO Module 1	1.1(1j)	1.1(1j)	1.1(1e)	ready	ready
IO Module 2	1.1(1e)	1.1(1j)	1.1(1j)	ready	pending-next-boot
Chassis 4					
IO Module 1	1.1(1j)	1.1(1j)	1.1(1e)	ready	ready
IO Module 2	1.1(1e)	1.1(1j)	1.1(1j)	ready	pending-next-boot
Fabric Interconnect A					
Kernel	4.1(3)N2(1.1e)	4.1(3)N2(1.1e)	N/A	N/A	ready
System	4.1(3)N2(1.1e)	4.1(3)N2(1.1e)	N/A	N/A	ready
Fabric Interconnect B					
Kernel	4.1(3)N2(1.1j)	4.1(3)N2(1.1j)	N/A	N/A	ready
System	4.1(3)N2(1.1j)	4.1(3)N2(1.1j)	N/A	N/A	ready

The update to the secondary fabric take fucking ages