Migration Guide: Cisco UCS 6200 Series Fabric Interconnects to Cisco UCS 6454 Fabric Interconnects

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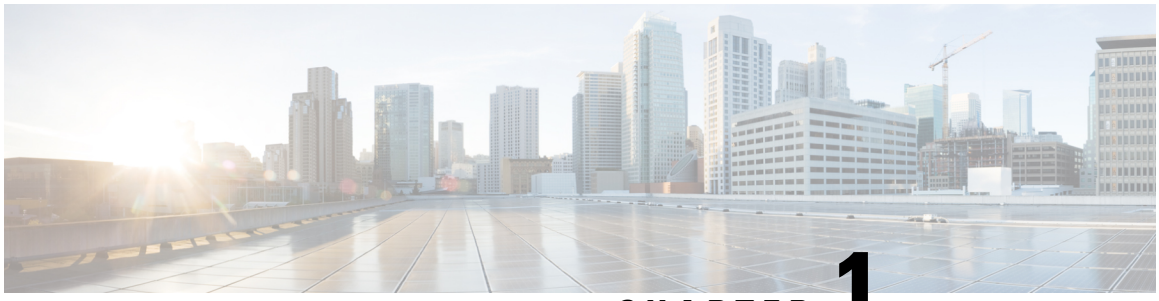


CHAPTER 1

New and Changed Information

New and Changed Information for This Release

This section provides information on new feature and changed behavior in Cisco UCS Manager, Release 4.0(4i).

Table 1: New Features and Changed Behavior in Cisco UCS Manager, Release 4.0(4i)

Feature	Description	Where Documented
Cisco UCS 6454 Fabric Interconnect supports 16 unified ports.	With release 4.0(4i) and later Cisco UCS 6454 Fabric Interconnect supports 16 unified ports (ports 1 - 16).	Cisco UCS 6454 Fabric Interconnect, on page 3

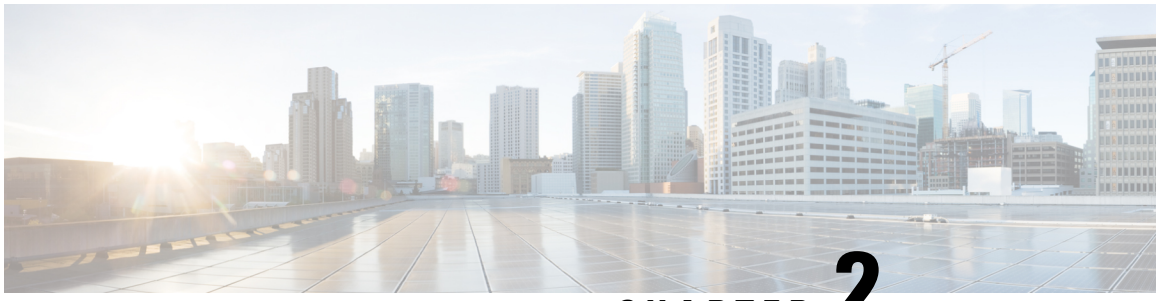
The following table provides an overview of the significant changes to this guide for this current release. The table does not provide an exhaustive list of all changes made to this guide or of all new features in this release.

Table 2: New Features and Changed Behavior in Cisco UCS Manager, Release 4.0(2)

Feature	Description	Where Documented
Cisco UCS 6454 Fabric Interconnect Enhancements	This release introduces support for the following features on the Cisco UCS 6454 Fabric Interconnect: • Support for Ethernet and Fibre Channel switching modes. • Support for splitting a single 40/100G QSFP port into four 10/25G ports using a supported breakout cable. • Support for MAC Security on Cisco UCS 6454 Fabric Interconnects.	Software Feature Configuration, on page 7

Table 3: New Features and Changed Behavior in Cisco UCS Manager, Release 4.0(1)

Feature	Description	Where Documented
Cisco UCS 6454 Fabric Interconnect	This release introduces Cisco UCS 6454 Fabric Interconnects that support 10/25 Gigabit ports in the fabric with 40/100 Gigabit uplink ports.	Cisco UCS 6454 Fabric Interconnect Overview, on page 3



CHAPTER 2

Overview of UCS 6454 Fabric Interconnects

Cisco UCS 6454 Fabric Interconnect Overview

The Cisco UCS 6454 Fabric Interconnects provide both network connectivity and management capabilities to the Cisco UCS system. The fabric interconnect provides Ethernet and Fibre Channel to the servers in the system. The servers connect to the fabric interconnect, and then to the LAN or SAN.

Each fabric interconnect runs Cisco UCS Manager software to fully manage all Cisco UCS elements. High availability redundancy can be achieved when a fabric interconnect is connected to another fabric interconnect through the L1 or L2 port on each device.

Cisco UCS 6454 Fabric Interconnect

The Cisco UCS 6454 Fabric Interconnect (FI) is a 1-RU top-of-rack switch that mounts in a standard 19-inch rack such as the Cisco R Series rack.

The Cisco UCS 6454 Fabric Interconnect has 48 10/25 Gb SFP28 ports (16 unified ports) and 6 40/100 Gb QSFP28 ports. Each 40/100 Gb port can break out into 4 x 10/25 Gb uplink ports. The sixteen unified ports support 10/25 GbE or 8/16/32G Fibre Channel speeds.

Note The Cisco UCS 6454 Fabric Interconnect supported 8 unified ports (ports 1 - 8) with Cisco UCS Manager 4.0(1) and 4.0(2), but with release 4.0(4) and later it supports 16 unified ports (ports 1 - 16).

The Cisco UCS 6454 Fabric Interconnect supports:

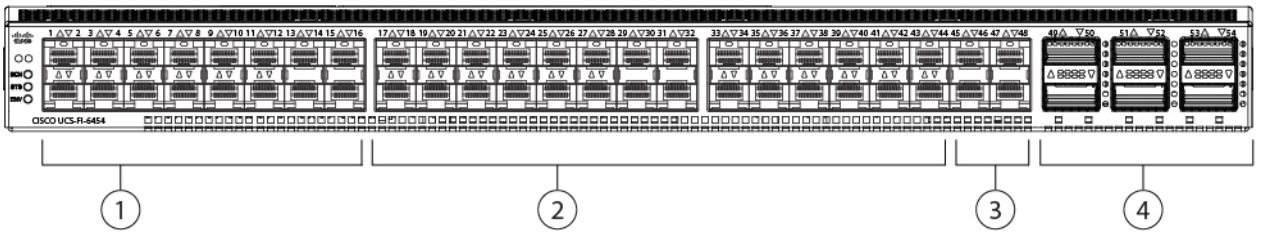
- Maximum of 8 FCoE port channels
- Or 4 SAN port channels
- Or a maximum of 8 SAN port channels and FCoE port channels (4 each)

The Cisco UCS 6454 Fabric Interconnect also has one network management port, one console port for setting the initial configuration, and one USB port for saving or loading configurations. The FI also includes L1/L2 ports for connecting two fabric interconnects for high availability.

The Cisco UCS 6454 Fabric Interconnect also contains a CPU board that consists of:

- Intel Xeon D-1528 v4 Processor, 1.6 GHz
- 64 GB of RAM
- 8 MB of NVRAM (4 x NVRAM chips)
- 128 GB SSD (bootflash)

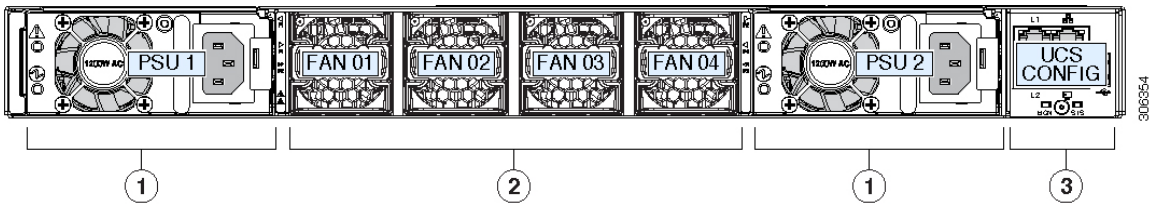
Figure 1: Cisco UCS 6454 Fabric Interconnect Rear View



1	Ports 1-16 (Unified Ports 10/25 Gbps Ethernet or FCoE or 8/16/32 Gbps Fibre Channel) **Note** When using Cisco UCS Manager releases earlier than 4.0(4), only ports 1-8 are Unified Ports.	2	Ports 17-44 (10/25 Gbps Ethernet or FCoE) **Note** When using Cisco UCS Manager releases earlier than 4.0(4), ports 9-44 are 10/25 Gbps Ethernet or FCoE.
3	Ports 45-48 (1/10/25 Gbps Ethernet or FCoE)	4	Uplink Ports 49-54 (40/100 Gbps Ethernet or FCoE) Each of these ports can be 4 x 10/25 Gbps Ethernet or FCoE uplink ports when using an appropriate breakout cable.

The Cisco UCS 6454 Fabric Interconnect chassis has two power supplies and four fans. Two of the fans provide front to rear airflow.

Figure 2: Cisco UCS 6454 Fabric Interconnect Front View



1	Power supply and power cord connector	**2**	Fans 1 through 4, numbered left to right, when facing the front of the chassis.

3	L1 port, L2 port, RJ45, console, USB port, and LEDs		

Ports on the Cisco UCS 6454 Fabric Interconnects

The ports on the fabric interconnects can be configured to carry either Ethernet or Fibre Channel traffic. You can configure only ports 1-16 to carry Fibre Channel traffic. The ports cannot be used by a Cisco UCS domain until you configure them.

Note When you configure a port on a Fabric Interconnect, the administrative state is automatically set to enabled. If the port is connected to another device, this may cause traffic disruption. The port can be disabled and enabled after it has been configured.

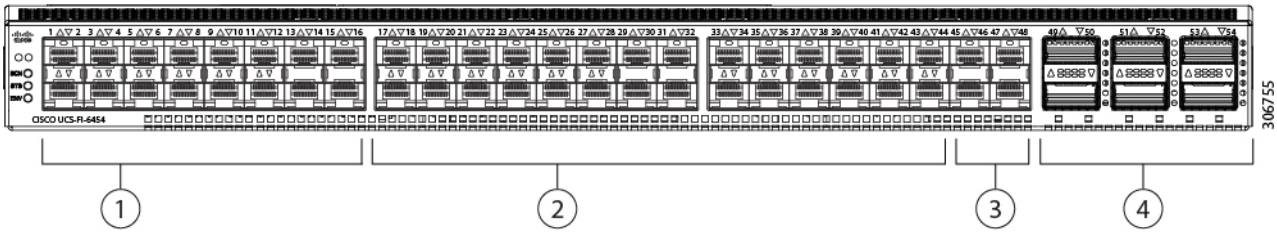
The following table summarizes the Cisco UCS 6454 Fabric Interconnects.

	Cisco UCS 6454 FI
Description	54-Port Fabric Interconnect
Form factor	1-RU
Number of fixed 10 GB Interfaces	48 10/25G interfaces
Number of Unified Ports	16 This FI supported 8 unified ports (ports 1 - 8) with Cisco UCS Manager 4.0(1) and 4.0(2), but with Release 4.0(4) and later it supports 16 unified ports (ports 1 - 16).
Unified Port Range	Ports 1-16
Unified Port Speeds	10/25 Gbps or 8/16/32-Gbps FC
Number of 40-Gbps ports	6 40/100 Gigabit ports
Compatibility with the IOM	UCS 2204, UCS 2208, UCS 2408
Compatibility with the FEX	Cisco Nexus 2232PP Cisco Nexus 2232TM-E
Expansion Slots	None
Fan Modules	4
Power Supplies	2 (AC/DC/HVDC available)

Port Speeds and Types

Ports on the fabric interconnects are numbered and grouped according to their function. The ports are numbered top to bottom and left to right. The following figures show the port numbering and define port speeds and the types of ports that can be configured. For more information on how to configure the port modes, refer to *"Configuring Port Modes for a 6454 Fabric Interconnect"* in the *Cisco UCS Network Management Guide, Release 4.04.0*.

Figure 3: Rear View of Cisco UCS 6454 FI, Port Numbers



1	Ports 1–16. Unified Ports can operate as 10/25 Gbps Ethernet or FCoE; or 8/16/32 Gbps Fibre Channel. Port type in 8G/16G/32G FC mode: FC uplink port Port types in 10G/25G mode: • FCoE uplink port • Server port • Appliance port (the FI must be in Ethernet-End-Host mode) • Monitor port **Note** When using Cisco UCS Manager releases earlier than 4.0(4), only ports 1-8 are Unified Ports.	2	Ports 17–44. Each port can operate as 10G/25G Ethernet. Port types in 10G/25G mode: • FCoE uplink port • Server port • Appliance port (the FI must be in Ethernet-End-Host mode) • Monitor port **Note** When using Cisco UCS Manager releases earlier than 4.0(4), ports 9-44 are 10/25 Gbps Ethernet or FCoE. (Only ports 1-8 were Unified Ports in earlier releases.)

3	Ports 45–48. Each port can operate as 1G/10G/25G Ethernet or FCoE port.	4	Uplink Ports 49–54. Each port can operate as 40G/100G Ethernet or FCoE. With a breakout cable, each of these ports can operate as 4 x 10G or 4 x 25G Ethernet or FCoE ports. Port types: • Uplink port • FCoE uplink port • Monitor port

Software Feature Configuration

UCS 6454 Fabric Interconnects do not support a few software features that were supported on UCS 6200 Series Fabric Interconnects in Cisco UCS Manager 3.2 and earlier releases. The following sections detail each of these features and how they would be reported on the **Migration Warnings** page.

Ensure that the following features are configured correctly before migration:

- Chassis Discovery Policy
- Chassis Connectivity Policy
- Switching Mode

Chassis Discovery Policy

UCS 6200 Series Fabric Interconnects support blade server chassis discovery in Port Channel and non-Port Channel modes. UCS 6454 Fabric Interconnects support only Port Channel mode.

During migration, if a UCS 6200 Series Fabric Interconnect has the chassis discovery policy configured as non-Port Channel mode, the Migration Warnings page will report the incompatibility.

Important You must switch the chassis discovery policy to Port Channel mode before initiating migration and re-acknowledge the chassis after changing the chassis discovery policy.

Chassis Connectivity Policy

UCS 6200 Series Fabric Interconnects support chassis connectivity in Port Channel and non-Port Channel modes. UCS 6454 Fabric Interconnects support only Port Channel mode.

During migration, if a UCS 6200 Series Fabric Interconnect has the chassis connectivity policy configured as non-Port Channel mode, the **Migration Warnings** page will report the incompatibility.

Important You must switch the chassis connectivity policy to Port Channel mode before initiating migration and re-acknowledge the chassis after changing the chassis connectivity policy.

Switching Mode Mismatch

Cisco UCS Manager Release 4.0(2) and later releases support Ethernet and FC switching modes on Cisco UCS 6454 Fabric Interconnects.

In Cisco UCS Manager, Release 4.0(1), Cisco UCS 6454 Fabric Interconnects did not support Ethernet or FC switching modes.

During migration while using Cisco UCS Manager Release 4.0(1), if the existing UCS 6200 Series Fabric Interconnect had either Ethernet or FC switching mode configured, the Migration Warnings page would report the unsupported modes.

Important You must switch to end-host mode before proceeding with migration in Cisco UCS Manager, Release 4.0(1).

Port Configuration Mismatch

On UCS 6454 Fabric Interconnects, the Unified Port capability is restricted to first 16 ports. Only ports 1/1-1/16 can be configured as FC. The FC ports must be contiguous, followed by contiguous Ethernet ports.

On UCS 6200 Series Fabric Interconnects, all ports have the Unified Port capability. All ports can be configured as Ethernet or FC. The Ethernet ports must be contiguous, followed by contiguous FC ports. FC ports appear towards the end of the module.

During cluster addition, the ports that are mismatched will be un-configured.

Multicast Hardware Hash

When multicast hardware hashing is enabled, all links between the IOM and the fabric interconnect in a port channel can be used for multicast traffic. UCS 6200 Series Fabric Interconnects supports multicast hardware hash, but UCS 6454 Fabric Interconnects do not support it.

VLAN Port Count Optimization

On UCS 6454 Fabric Interconnects, VLAN port count optimization is performed through port VLAN (VP) grouping when the PV count exceeds 16000.

The following table illustrates the PV Count with VLAN port count optimization enabled and disabled on Cisco UCS 6200 and UCS 6454 Fabric Interconnects.

	6200 Series FI	6454 FI
PV Count with VLAN Port Count Optimization Disabled	32000	16000

	6200 Series FI	6454 FI
PV Count with VLAN Port Count Optimization Enabled	64000	64000

If the PV count exceeds 16K, the Migration Warnings page will report the PV count with the warning that VP Grouping will be enabled if you choose to proceed with installation.

When the Cisco UCS 6454 Fabric Interconnect is in Ethernet switching mode:

- The Fabric Interconnect does not support **VLAN Port Count Optimization Enabled**
- The Fabric Interconnect supports 16000 PVs, similar to EHM mode, when set to **VLAN Port Count Optimization Disabled**

Multicast Optimized for QoS

UCS 6454 Fabric Interconnects do not support Multicast Optimized. If Multicast Optimized is enabled, this configuration will appear on the Migration Warning page.

Continuing with the installation despite the warning will cause Cisco UCS Manager to reset the **Multicast Optimized** field.

NetFlow Configuration

UCS 6200 Series Fabric Interconnects support NetFlow configuration. However, on UCS 6454 Fabric Interconnects, NetFlow is not supported.

During migration, if a UCS 6200 Series Fabric Interconnect has NetFlow enabled, the Migration Warnings page will report the NetFlow configuration. Proceeding with the migration will remove the NetFlow configuration.

MAC Security

UCS 6200 Series Fabric Interconnects support MAC security. Hence, MAC Forge is enabled by default.

Cisco UCS Manager Release 4.0(2) and later releases support MAC security on Cisco UCS 6454 Fabric Interconnects.

UCS 6454 Fabric Interconnects did not support MAC security in Cisco UCS Manager Release 4.0(1).

During migration while using Cisco UCS Manager Release 4.0(1), if MAC security was enabled on the UCS 6200 Series Fabric Interconnect, the Migration Warnings page will report the MAC security configuration. Proceeding with the migration will cause MAC Forge to be enabled globally in the system.

VMM Integration

UCS 6454 Fabric Interconnects do not support VMM integration.

During migration, the Migration Warnings page will report all configurations related to port profiles and distributed virtual switches (DVSes). Proceeding with the migration with this configuration will remove these port profiles and DVSes from the Cisco UCS Manager configuration.

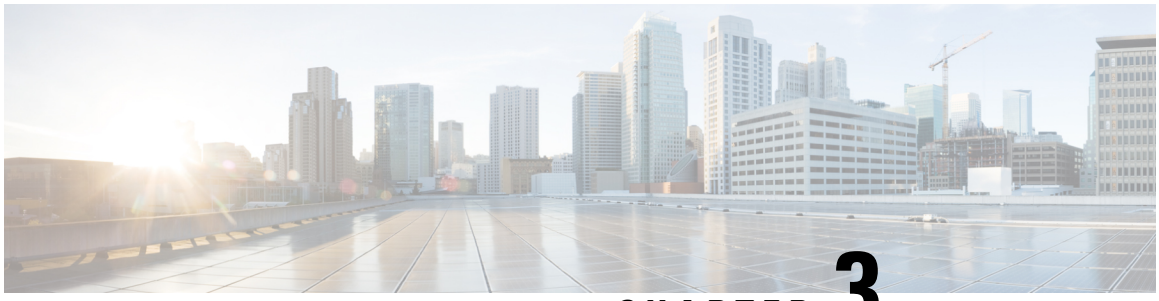
Dynamic vNIC Connection Policies

During migration, if a UCS 6200 Series Fabric Interconnect has dynamic vNIC connection policies configured, the Migration Warnings page will report that such connection policies exist. If you proceed with the migration, these policies and dynamic vNICS are automatically deleted.

Reserved VLANs

UCS 6454 Fabric Interconnects reserve more VLANs for internal use than UCS 6200 Series Fabric Interconnects.

During migration, the Migration Warnings page will contain the list of VLANs that could potentially conflict with the default reserved VLAN range. If you proceed with migration, the Reserved VLAN range will be configured but VLANs found in the conflicting range will not be configured.



CHAPTER 3

Migrating from UCS 6200 to UCS 6454 Fabric Interconnects

Migrating Fabric Interconnects

Fabric Interconnect Migration Considerations

Ensure that the following prerequisites are met before beginning any procedures in this section:

Caution Cisco UCS Manager Release 4.0 is the bare minimum version that provides support for Cisco UCS 6454 Fabric Interconnects. To migrate from Cisco UCS 6200 Series to Cisco UCS 6454 Fabric Interconnects:

- Cisco UCS 6200 Series Fabric Interconnects must be on Cisco UCS Manager Release 4.0(1) or a later release.
- Cisco UCS 6454 Fabric Interconnects must be loaded with the same build version that is on the Cisco UCS 6200 Series Fabric Interconnect that it will replace.

- Licenses from Cisco UCS 6200 Series Fabric Interconnects are not transferable to Cisco UCS 6454 Fabric Interconnects. You must obtain licenses for the Cisco UCS 6454 Fabric Interconnects before you upgrade.
- During migration, the Cisco UCS 6200 Series Fabric Interconnect and the Cisco UCS 6454 Fabric Interconnect must use the same allowed SSL protocol, either default or Only TLSv1.2, to successfully complete compatibility checks.
- Cisco UCS 6454 Fabric Interconnects use the IDLE fill pattern for FC uplink ports and FC storage ports when using 8 Gbps speed.

  When migrating to Cisco UCS 6454 Fabric Interconnects and configuring FC Uplink Ports or FC Storage Ports at 8Gbps speed, ensure that the fill pattern is set as IDLE on the corresponding FC switch ports and the direct-attached FC storage array ports. If the fill pattern is not set as IDLE, FC uplink ports and FC storage ports operating at 8 Gbps might go to an errDisabled state, lose SYNC intermittently, or receive errors or bad packets.

Cisco UCS 6454 Fabric Interconnects do not support 8 Gbps direct-attached FC connectivity (FC uplink ports or FC storage ports) without fill-pattern set to IDLE. When migrating to Cisco UCS 6454 Fabric Interconnects from Cisco UCS 6200 Series Fabric Interconnects, do one of the following:

  - Use a SAN switch between the Cisco UCS 6454 Fabric Interconnect and the storage array with 8 GB FC connectivity.
  - Upgrade the storage array to 16 GB or 32 GB FC connectivity.

- Before migrating from Cisco UCS 6200 Series Fabric Interconnects to Cisco UCS 6454 Fabric Interconnects, ensure that you unconfigure the unified ports on the Cisco UCS 6200 Series Fabric Interconnects.

  After migrating to Cisco UCS 6454 Fabric Interconnects, reconfigure the unified ports based on their location on the Cisco UCS 6454 Fabric Interconnects, and reacknowledge the newly configured ports. For example, a unified port on a UCS 6248 Fabric Interconnect should be reconfigured on any port between 1 and 16 on a Cisco UCS 6454 Fabric Interconnect.
- Upgrading the fabric interconnect should be done before upgrading to a new FEX or virtual interface card.
- During fabric interconnect migration, image synchronization between fabric interconnects is not allowed. This is done to prevent incompatible images from getting synchronized. We recommend that you download B-Series and C-Series server software bundles again after migration is complete.
- Do not attempt to implement new software features from the new Cisco UCS software version until all required hardware is installed.
- Changes to the topology, such as the number of servers or uplink connections, should be performed after the fabric interconnect migration is complete.
- Make a detailed record of the cabling between FEXes and fabric interconnects. You must preserve the physical port mapping to maintain the server pinning already configured and minimize down time.
- For a cluster configuration, both fabric interconnects must have symmetrical connection topologies between fabric interconnect and FEXes.
- Cisco UCS VIC 1455 and 1457 adapters support cables of 10G and 25G speed. However, the cables connecting Cisco UCS VIC 1455 or 1457 adapter ports to each 6454 fabric interconnect must be of uniform speed-either all 10G or all 25G cables. If you connect these adapter ports to a 6454 fabric interconnect through a mix of 10G and 25G cables, UCS rack-mount server discovery fails and ports may go to a suspended state.
- Standalone installations should expect down time. Migrating or upgrading a fabric interconnect is inherently traffic disruptive.
- A best practice would be to perform a full configuration and software backup before performing this hardware upgrade.
- A WWN pool can include only WWNNs or WWPNs in the ranges from 20:00:00:00:00:00:00:00 to 20:FF:00:FF:FF:FF:FF:FF or from 50:00:00:00:00:00:00:00 to 5F:FF:00:FF:FF:FF:FF:FF. All other WWN ranges are reserved. When fibre channel traffic is sent through the UCS infrastructure the source WWPN is converted to a MAC address. You cannot use WWPN pool which can translate to source multicast MAC addresses. To ensure the uniqueness of the Cisco UCS WWNNs and WWPNs in the SAN fabric, Cisco recommends using the following WWN prefix for all blocks in a pool: 20:00:00:25:B5:XX:XX:XX

Port Mapping for Upgrades

The upgrade described here is primarily for upgrading a Cisco UCS 6248 fabric interconnect to a Cisco UCS 6454. The same considerations will also apply when upgrading a Cisco UCS 6296 fabric interconnect to a Cisco UCS 6454.

Note If you are using appliance ports for direct attached storage, you must add VLANs to the ethernet uplinks. This will ensure that vNICS can properly pin on boot.

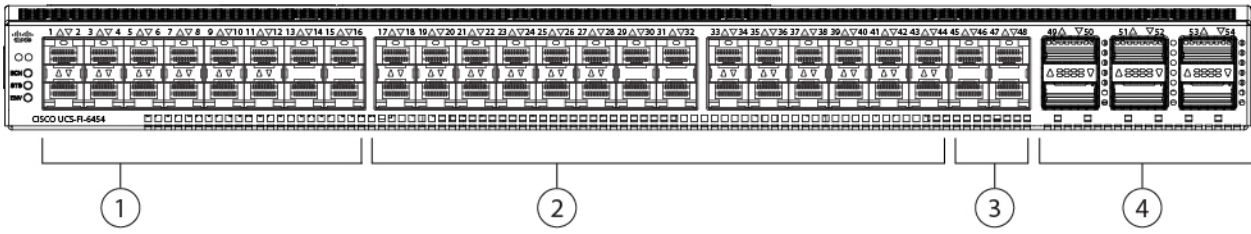
Fixed Ports

On the UCS 6248 fabric interconnect, you can separate the 32 physical ports in slot one into two contiguous pools, low numbered ports being Ethernet ports and high numbered ports being Fibre Channel ports. On the UCS 6454 fabric interconnect, you can configure the first 16 ports as Fibre Channel ports.

Because a UCS 6248 has 32 ports in slot 1 and a UCS 6454 has all ports in slot 1, any ports on GEM slots will be removed during the hardware upgrade process.

Caution If you ever need to change the pool sizes for slot 1, you must reboot the fabric interconnect which can lead to a service disruption. If you ever need to change the pool sizes for slot 2, you must reset the expansion module in slot 2. To minimize disruption, plan to have at least a few Ethernet uplink and Fibre Channel uplink ports configured on slot 1. Implement this fail safe after the upgrade is complete and the system restabilizes.

Figure 4: Cisco UCS 6454 Port Numbering



1	Ports 1-16 (Unified Ports 10/25 Gbps Ethernet or FCoE or 8/16/32 Gbps Fibre Channel) **Note** When using Cisco UCS Manager releases earlier than 4.0(4), only ports 1-8 are Unified Ports.	2	Ports 17-44 (10/25 Gbps Ethernet or FCoE) **Note** When using Cisco UCS Manager releases earlier than 4.0(4), ports 9-44 are 10/25 Gbps Ethernet or FCoE.
3	Ports 45-48 (1/10/25 Gbps Ethernet or FCoE)	4	Uplink Ports 49-54 (40/100 Gbps Ethernet or FCoE) Each of these ports can be 4 x 10/25 Gbps Ethernet or FCoE uplink ports when using an appropriate breakout cable.

Migrating from UCS 6200 Series Fabric Interconnects to UCS 6454 Fabric Interconnects

You can migrate from a UCS 6200 Series Fabric Interconnect to a UCS 6454 Fabric Interconnect. However, you cannot migrate back to a UCS 6200 Series Fabric Interconnect after you have migrated to a UCS 6454 Fabric Interconnect.

The UCS 6454 Series Fabric Interconnect does not support a few software features that were supported on UCS 6200 Series Fabric Interconnect in Cisco UCS Manager, Release 3.2 and earlier releases. For more information, see Software Feature Configuration, on page 7.

The UCS 6454 Series Fabric Interconnect supports only port-channel mode for chassis-discovery. On changing the chassis or FEX discovery policy to port-channel, the chassis needs to be re-acknowledged before proceeding with the migration. If the chassis is not re-acknowledged, the migration will fail.

The UCS 6454 Fabric Interconnect is intended as a replacement for the UCS 6200 Series Fabric Interconnect, but not as a replacement for the higher speed (or 40Gb) UCS 6332/6332-16UP Fabric Interconnect. Therefore, Cisco has not tested or published a plan to migrate from UCS 6332/6332-16UP Fabric Interconnects to UCS 6454 Fabric Interconnects.

Unless otherwise noted, for more information about how to perform configuration procedures in Cisco UCS Manager for a particular step, see the appropriate Cisco UCS Manager configuration guide for Cisco UCS Manager Release 4.0.

Procedure

Step 1 Download Cisco UCS Manager, Release 4.0 or later versions to the UCS 6200 Series Fabric Interconnects and upgrade to this version.

Step 2 Evacuate traffic from the subordinate fabric interconnect to ensure there is no data traffic impact during migration.

See https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Firmware-Mgmt/4-0/b_UCSM_GUI_Firmware_Management_Guide_4-0/b_UCSM_GUI_Firmware_Management_Guide_4-0_chapter_011.html#concept_D5A1607B910747E398054FA434D99059

Step 3 When migrating from UCS 6200 Series Fabric Interconnects to UCS 6400 Series Fabric Interconnects with B-Series servers and S-Series servers, ensure that the port channel is enabled before migration.

Step 4 Unconfigure all the server ports on the subordinate fabric interconnect.

Step 5 Power down the subordinate fabric interconnect by unplugging it from the power source.

If you are monitoring the migration using a KVM session, you may need to reconnect the KVM session when you power down the fabric interconnect.

Step 6 Mount the replacement UCS 6454 fabric interconnect into either the same rack or an adjacent rack.

Refer to the Cisco UCS 6454 Installation Guide for details.

Step 7 Disconnect the cables from the chassis FEXes or fabric extenders to the subordinate fabric interconnect ports in slot 1 on the UCS 6200 Series Fabric Interconnect.

Step 8 Connect these cables into the corresponding ports on slot 1 of one of the new Cisco UCS 6454 fabric interconnects, using the connection records to preserve the port mapping and the configured server pinning.

To change the port mapping, especially while reconfiguring FC ports, you must reacknowledge the newly configured ports.

Step 9 Connect the L1/L2 cables that were disconnected onto the new Cisco UCS 6454 fabric interconnect.

L1 connects to L1, L2 connects to L2.

Step 10 Connect the server and uplink cables.

Refer to the Cisco UCS 6454 Installation Guide for details.

Step 11 Connect the power to the new Cisco UCS 6454 fabric interconnect, it will automatically boot and run POST tests. If it reboots itself, this is a normal behavior.

Important Directly connect the console port to a terminal and observe the boot sequence. You should at some point see the Basic System Configuration Dialog, where you will configure the switch as a subordinate interconnect. If you do not see this dialog, you either have different builds of software on your old primary and new subordinate, or the new subordinate has previously been part of a cluster and will need to have all configuration information wiped before it can be added to a cluster as a subordinate. In either case, immediately disconnect the L1 and L2 connections and complete the bringup as a standalone fabric interconnect, then correct the issue before proceeding further.

Step 12 Configure the server and uplink ports on the new Cisco UCS 6454 fabric interconnect.

Step 13 The new subordinate Cisco UCS 6454 fabric interconnect will automatically synchronize the configuration and database/state information from the primary UCS 6200 Series Fabric Interconnect.

Synchronization between primary and subordinate fabric interconnects can take several minutes. You may see an error message that will persist until the server ports are enabled.

The port configuration is copied from the subordinate switch to the new hardware.

Step 14 Reconfigure the server ports that had been unconfigured in Step 4.

a) If you have changed port mappings, you may need to reacknowledge the IOM, FEX, or direct-connect rack server connected to the subordinate fabric interconnect.
b) Verify and if necessary reconfigure Ethernet ports as server ports.

Step 15 Verify that the data path is ready.

See https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Firmware-Mgmt/4-0/b_UCSM_GUI_Firmware_Management_Guide_4-0/b_UCSM_GUI_Firmware_Management_Guide_4-0_chapter_011.html#concept_7406EAC0852E4A52968DFBAE84E1A1C8.

Ensure that all faults are resolved before proceeding.

a) Verify and if necessary reconfigure the SAN pin group for FC ports in the associated service profile.
b) Verify and if necessary reconfigure the LAN pin group for Ethernet ports in the associated service profile.
c) Verify and if necessary reconfigure the port channel for uplink Ethernet ports.

Step 16 Restart stopped traffic flows by disabling fabric evacuation.

Step 17 Promote the subordinate fabric interconnect to primary, and repeat the process on the second new Cisco UCS 6454 fabric interconnect.

Cable the second new fabric interconnect identically to the first, and allow the reconfiguration done to be applied to the second new fabric interconnect as well.