HPE Integrity BL860c i6, BL870c i6, & BL890c i6 Installation Guide

Abstract

This document contains specific information that is intended for users of this Hewlett Packard Enterprise product.

Contents

Installing the server blade into the enclosure

Installation sequence and checklist

Step	Description	Completed
1	Perform site preparation.	
2	Unpack and inspect the server shipping container and then inventory the contents using the packing slip.	
3	Install additional components shipped with the server. For these procedures, see the documentation that came with the component or the user service guide.	
4	Install and power on the server blade.	
5	Configure iLO 3 MP access.	
6	Access iLO 3 MP.	
7	Access UEFI from iLO 3 MP.	
8	Download latest firmware and update using Smart Update Manager.	
9	Install and boot the OS.	

Installing and powering on the server blade

Preparing the enclosure

HPE BladeSystem enclosures ship with device bay dividers to support half-height devices. To install a full height device, remove the blanks and the corresponding device bay divider.

> △ **CAUTION:**
>
> To prevent improper cooling and thermal damage, do not operate the server blade or the enclosure unless all hard drive and device bays are populated with either a component or a blank.

Procedure

1. Remove the device bay blank.
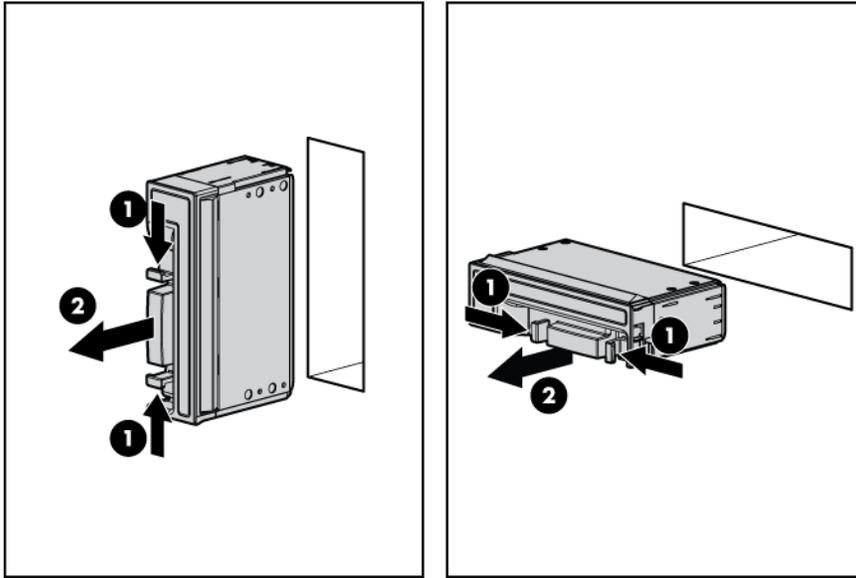
2. Remove the three adjacent blanks.

Removing a c7000 device bay divider

Procedure

1. Slide the device bay shelf locking tab to the left to open it.
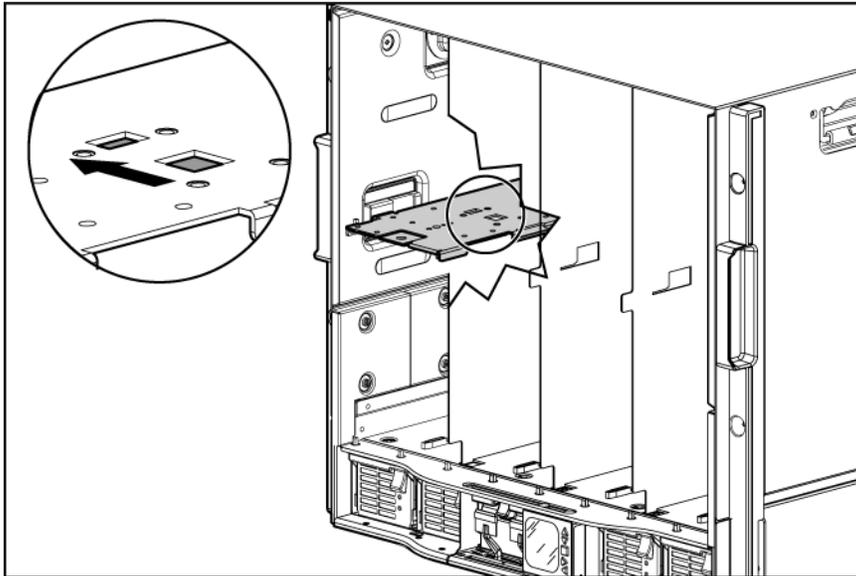
2. Push the device bay shelf back until it stops, lift the right side slightly to disengage the two tabs from the divider wall, and then rotate the right edge downward (clockwise).
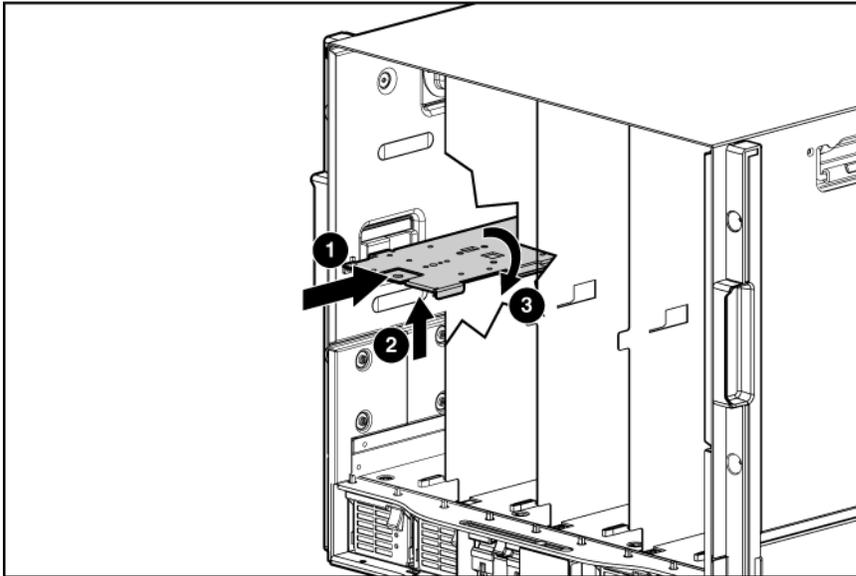
3. Lift the left side of the device bay shelf to disengage the three tabs from the divider wall, and then remove it from the enclosure.
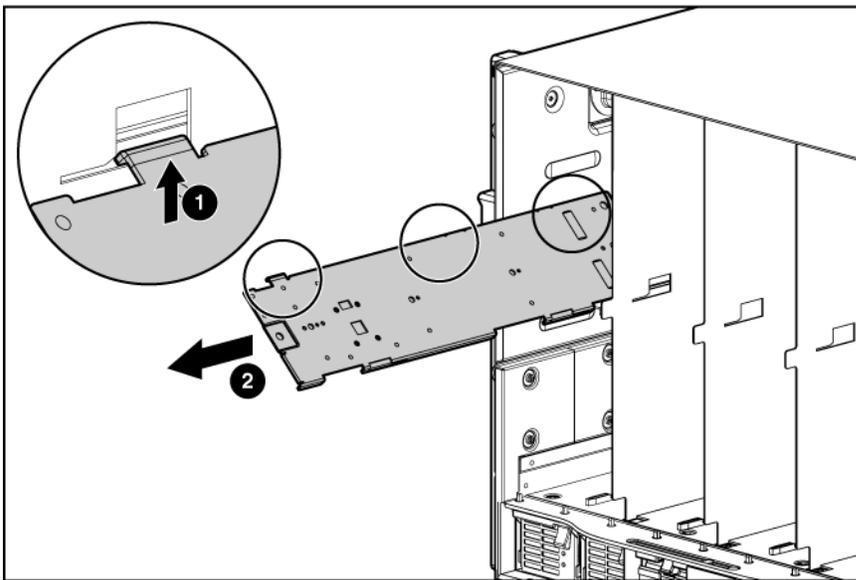
Removing a c3000 device bay mini-divider or device bay divider

Procedure

1. Slide the locking tab down.
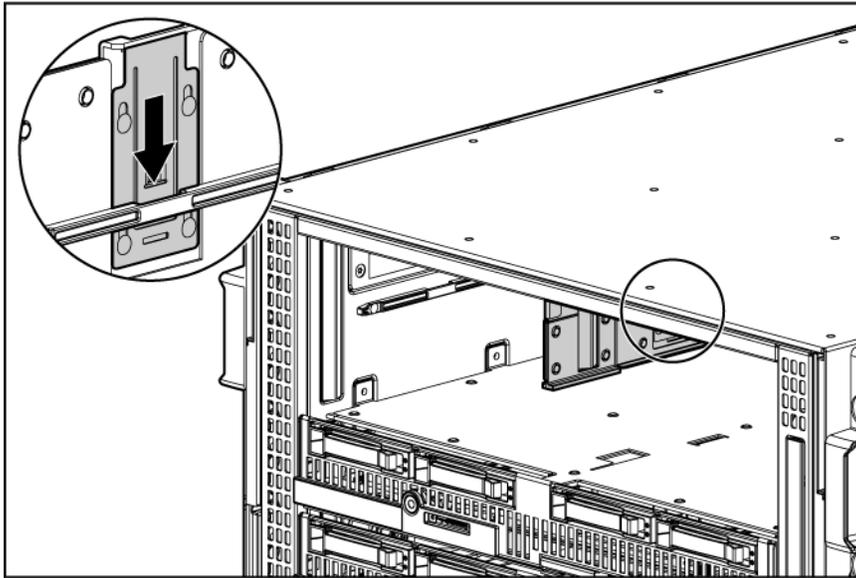
2. Remove the mini-divider or divider:

   a. c3000 mini-divider:

   Push the divider toward the back of the enclosure until the divider drops out of the enclosure.
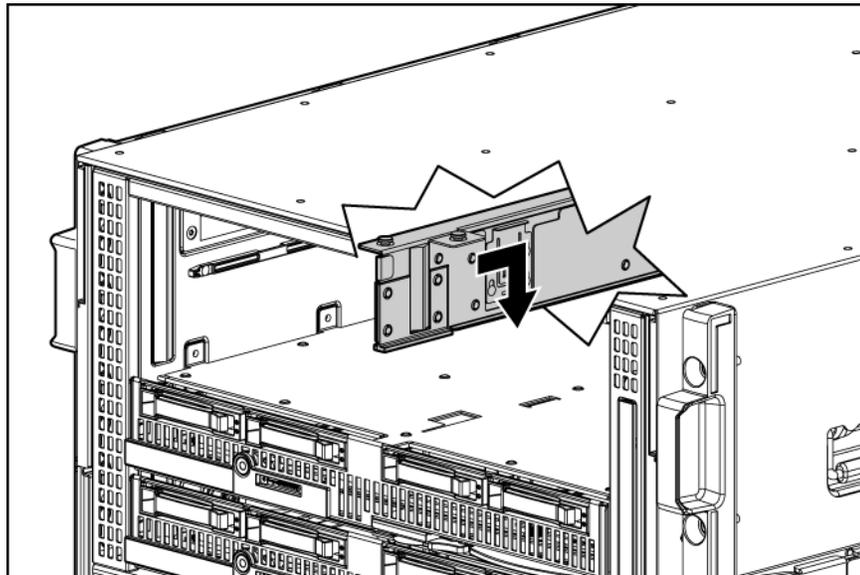
   b. c3000 divider

   I.   Push the divider toward the back of the enclosure until it stops.
   II.   Slide the divider to the left to disengage the tabs from the wall.
   III.   Rotate the divider clockwise.
   IV.   Remove the divider from the enclosure.
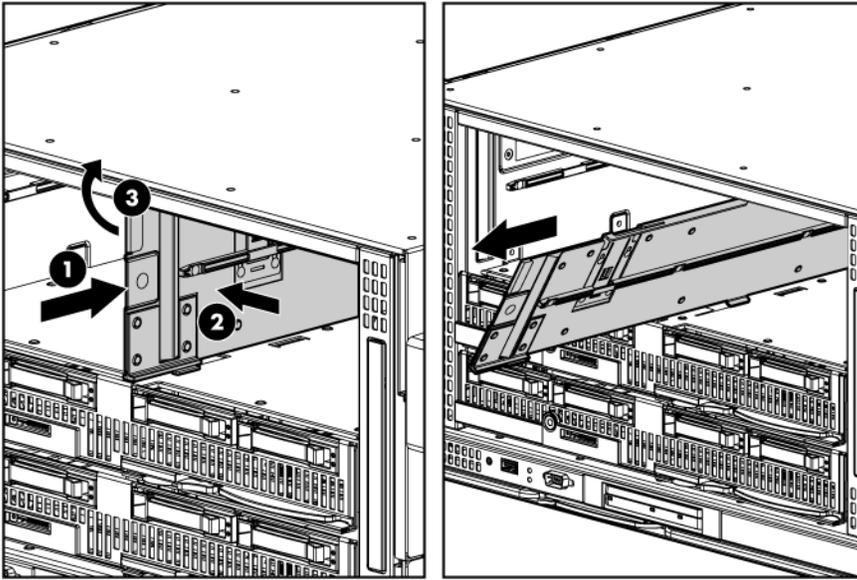
Installing interconnect modules

For specific steps to install interconnect modules, see the documentation that ships with the interconnect module.

Interconnect bay numbering and device mapping

- HPE BladeSystem c7000 Enclosure
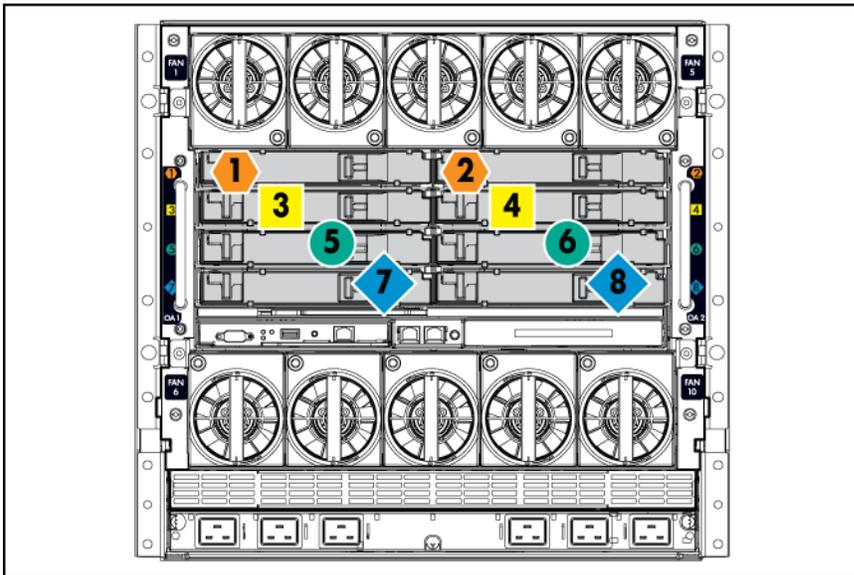
- HPE BladeSystem c3000 Enclosure
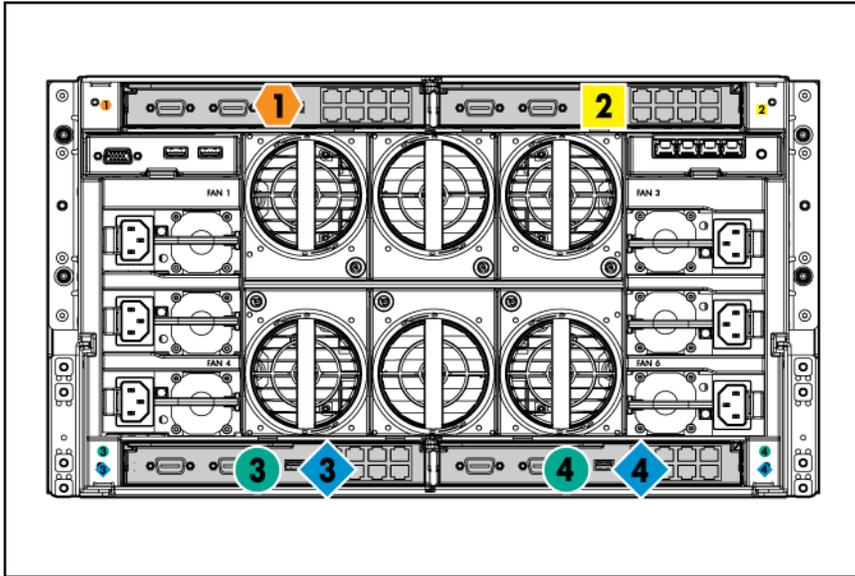
To support network connections for specific signals, install an interconnect module in the bay corresponding to the embedded NIC or mezzanine signals.

Server blade signal	c7000 interconnect bay	c3000 interconnect bay	Interconnect bay labels
NIC 1 (Embedded)	1	1	🟠
NIC 2 (Embedded)	2	1	🟠
NIC 3 (Embedded)	1	1	🟠
NIC 4 (Embedded)	2	1	🟠
Mezzanine 1	3 and 4	2	🟨
Mezzanine 2	5 and 6	3 and 4	🟢
	7 and 8	3 and 4	🔷
Mezzanine 3	5 and 6	3 and 4	🟢
	7 and 8	3 and 4	🔷

For detailed port mapping information, see the BladeSystem enclosure installation poster or the BladeSystem enclosure setup and installation guide for your product on the Hewlett Packard Enterprise website (**http://www.hpe.com/info/Blades-docs**).

Installing the server blade into the enclosure

NOTE:

When installing additional blades into an enclosure, additional power supplies might also be needed to meet power requirements. For more information, see the BladeSystem enclosure setup and installation guide for your product on the Hewlett Packard Enterprise website (**http://www.hpe.com/info/Blades-docs**).

NOTE:

Before installing and initializing the server blade, install any server blade options, such as an additional processor, hard drive, or mezzanine card.

Procedure

1. Remove the connector covers if they are present.
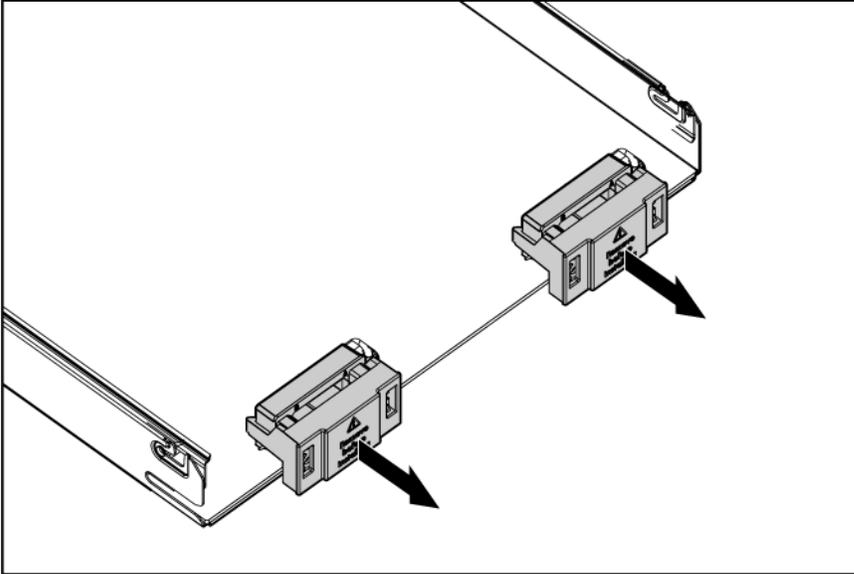
2. Prepare the server blade for installation.
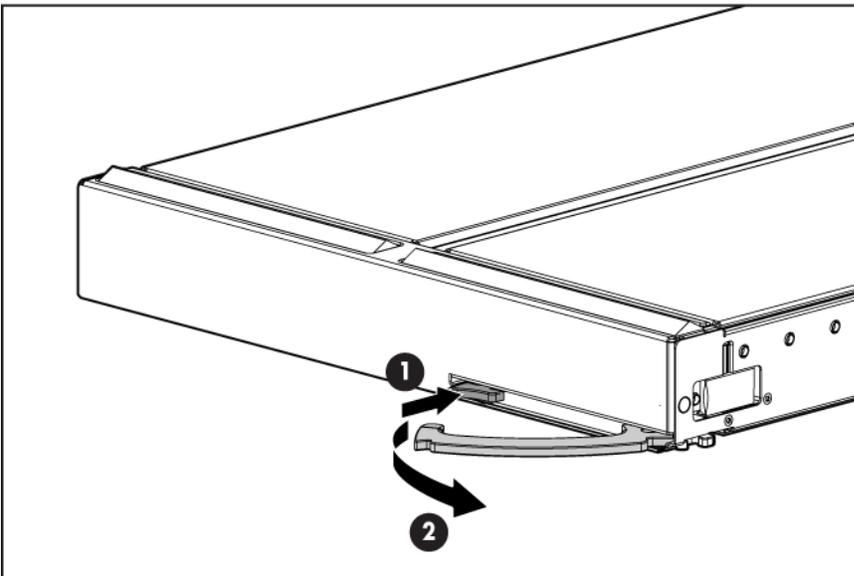
3. Install the server blade.
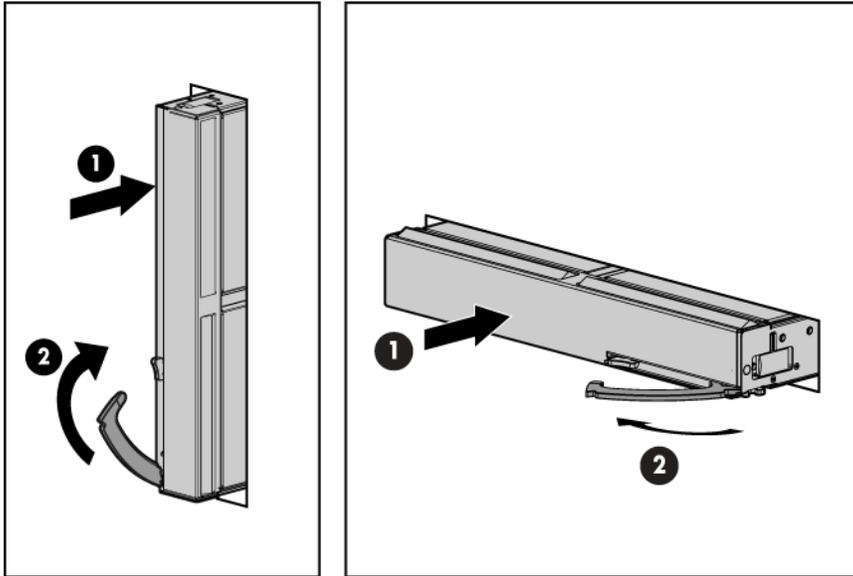
The server blade should come up to standby power. The server blade is at standby power if the blade power LED is amber.

Server blade power states

The server blade has three power states: standby power, full power, and off. Install the server blade into the enclosure to achieve the standby power state. Server blades are set to power on to standby power when installed in a server blade enclosure. Verify the power state by viewing the LEDs on the front panel, and using **Power States**.

Table 1: Power States

Power States	Server Blade Installed in Enclosure?	Front Panel Power Button Activated?	Standby Power Applied?	DC Power Applied?
Standby power	Yes	No	Yes	No
Full power	Yes	Yes	Yes	Yes
Off	No	No	No	No

Powering on the server blade

Use one of the following methods to power on the server blade:

> **NOTE:**
>
> To power on blades in a conjoined configuration, only power on the Monarch blade.

- Use a virtual power button selection through iLO 3.
- Press and release the Monarch power button.

When the server blade goes from the standby mode to the full power mode, the blade power LED changes from amber to green.

For more information about iLO 3, see **Using iLO 3** on page 16.

Powering off the server blade

Before powering down the server blade for any upgrade or maintenance procedures, perform a backup of critical server data and programs.

Use one of the following methods to power off the server blade:

> **NOTE:**
>
> To power off blades in a conjoined configuration, only power off the Monarch blade. In case of nPartitioning, power off the Monarch blade for each nPartition.

- Use a virtual power button selection through the iLO 3 GUI (Power Management, Power & Reset) or the iLO 3 TUI commands.

  This method initiates a controlled remote shutdown of applications and the OS before the server blade enter standby mode.
- Press and release the Monarch power button.

  This method initiates a controlled shutdown of applications and the OS before the server blade enter standby mode.
- Press and hold the Monarch power button for more than 4 seconds to force the server blade to enter standby mode.

  This method forces the server blade to enter standby mode without properly exiting applications and the OS. It provides an emergency shutdown method in the event of a hung application.

Installing the Blade Link for BL860c, BL870c, or BL890c configurations

> ⓘ **IMPORTANT:**
>
> Without an attached Blade Link, the server blades will not power on.

> **NOTE:**
>
> Before installing the Blade Link for BL870c i6 or BL890c i6, make sure the following statements are true:
>
> - All blades have the same CPU SKUs
> - All blades have the same hardware revision (only use BL860c i6, BL870c i6, or BL890c i6 Server Blades)
> - All blades have CPU0 installed
> - All blades follow the memory loading rules for your configuration
> - The enclosure OA firmware is compatible with the blade firmware
> - The proper Blade Link is being used for your configuration
>
> To check on the blade hardware revisions and CPU SKUs, go to the Command Menu in the iLO 3 TUI and enter the DF command. This dumps the FRU content of the blades.

> **NOTE:**
>
> If you will be upgrading an initial installation, see the user service guide for more information on server blade upgrades.

Table 2: Blade Link bay location rules

Class	Number of conjoined blades	Supported enclosures	Blade location rules	Partner blade support?	Partner blade half-height bay number / Server blade full-height bay number
BL1	1 (standard for BL860c i6)	c7000	No specific bay location rules for blades	Yes	Bottom half-height adjacent bay, paired with the server blade in full-height bays 1&2, 3&4, 5&6, or 7&8
		c3000			Half-height bay 8, paired with the server blade in full-height bay 3. ⚠ **CAUTION:** The bay mini-divider must be installed in the c3000 enclosure to ensure the partner blade is inserted correctly. Failure to install the bay mini-divider might result in damage to the blade or enclosure when installing the partner blade.[1]
BL2	2 (BL870c i6)	c7000	Bays 1&2, 3&4, 5&6, or 7&8 with Monarch blade in odd bay	No	N/A
		c3000	Bays 1&2, 3&4 with Monarch blade in odd bay		
BL2E	2 (BL870c i6)	c7000 only	Bays 2&3, 4&5 or 6&7 with Monarch blade in even bay using full-height numbering	Yes	Bottom half-height bay 9 paired with full-height bays 2&3, bottom half-height bay 11 paired with full-height bays 4&5, bottom half-height bay 13 paired with full-height bays 6&7

Table Continued

Class	Number of conjoined blades	Supported enclosures	Blade location rules	Partner blade support?	Partner blade half-height bay number / Server blade full-height bay number
	2 (BL870c i6)	c3000 only	Bays 2&3 with Monarch blade in even bay using full-height numbering.	No	N/A
BL4	4 (BL890c i6)	c7000 only	Bays 1&2&3&4 or 5&6&7&8, with Monarch blade defaulting to slot 1 or slot 5, respectively	No	N/A
	4 (BL890c i6)	c3000 only	Bays 1&2&3&4 with Monarch blade defaulting to slot 1	No	N/A

[1] For information on installing the c3000 bay mini-divider, see the *HPE BladeSystem c3000 Enclosure Setup and Installation Guide*.

⚠ **CAUTION:**

Using the incorrect Blade Link can cause damage to the Blade Link and to the connectors on both the Blade Link and the server blades.

! **IMPORTANT:**

Failure to follow bay location rules can prevent server blade power on.

NOTE:

The manufacturing part numbers for the Blade Link is located on a sticker on the PCA.

To install the Blade Link:

Procedure

1. Log on to the OA.
2. Install the first blade into the lowest bay number, this blade becomes the Monarch blade (**Installing the server blade into the enclosure** on page 9).
3. Wait 10 seconds. The IP address of the installed blade appears in the OA.
4. Insert each adjacent blade, waiting 10 seconds between blades.

   NOTE:

   The blades will go into stand-by.

5. Using the OA, verify that the rest of the blades that will be conjoined have an IP address and are powered off.
6. Remove the plastic protectors from the connectors on the back of the Blade Link.
7. Push in the blue release latch on the handle to release the handle.
8. Pull the handle all the way out.

9. Align the guide pins on the back of the Blade Link to the holes on the front of the server blades. As you insert the pins into the holes, ensure the face on the Blade Link is evenly aligned parallel to the face of the server blades.

10. Press firmly on the left and right sides of the Blade Link face until the handle naturally starts to close.

   ⚠ **CAUTION:**

   If not properly aligned, you can damage the Blade Link.

11. Close the handle when it has engaged.
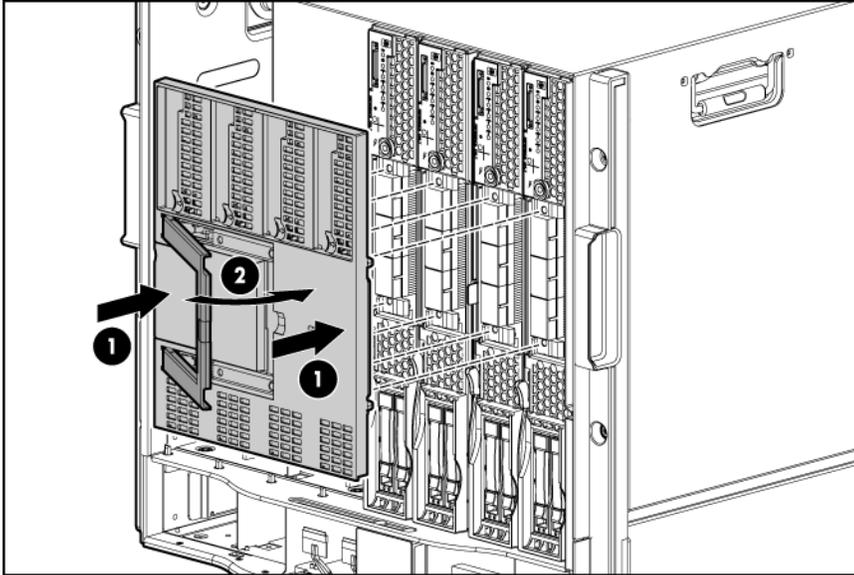
12. Log into iLO 3 on the Monarch blade. For more information, see the *HPE Integrity iLO3 Operations Guide*.

13. In iLO 3, go to the Command Menu and execute `xd -r` to reboot all of the iLO 3s in the conjoined set.

14. Run the conjoin checks

   Integrity BL870c i6 and BL890c i6 systems go through a process called "conjoining" when the Blade Link is attached. The system cannot boot until that process is completed properly.

   a. Execute the following CM commands in the iLO 3 TUI to show data from all blades. This information can be used to determine if the blades are successfully conjoined:

      I.   `DF` — Lists the FRUs on all of the blades (2 or 4).
      II.   `SR` — Shows a table of each blades firmware revisions.
      III. `Blade` — Shows information about the OA and the bays used.

   b. Check to see if the OA shows a properly conjoined system from its GUI.

   ⓘ **IMPORTANT:**

   The secondary UUID and other system variables are stored on the Monarch blade. If you do not put the Monarch blade in the leftmost slot, your system variables will not match. If you ever change your iLO 3 configuration (such as adding users) that data is also stored on the Monarch blade.

   NOTE:

   Auxiliary blades are not slot dependent after being installed and configured, however when the conjoined systems ship, they come with A, B, C, D stickers located under the Blade Links. While auxiliary blades are not slot dependent after being installed and configured, Hewlett Packard Enterprise recommends using the shipped order to ensure proper auxiliary blade function.

15. Still in the iLO 3 Command Menu, power on the Monarch blade with the `PC -on -nc` command. Powering on the Monarch blade will power the entire conjoined system on.
16. Boot the Monarch blade. Booting the Monarch blade boots the entire conjoined system.

Using iLO 3

The iLO 3 subsystem is a standard component of selected server blades that monitors blade health and provides remote server manageability. The iLO 3 subsystem includes an intelligent microprocessor, secure memory, and a dedicated network interface. This design makes iLO 3 independent of the host server and operating system. The iLO 3 subsystem provides remote access to any authorized network client, sends alerts, and provides other server management functions.

Using iLO 3, you can:

- Remotely power on, power off, or reboot the host server.
- Subscribe to we-man alerts from iLO 3 regardless of the state of the host server.
- Access advanced troubleshooting features through the iLO 3 interface.
- Access Remote Console and vMedia functionality.

For more information about iLO 3 basic features, see the iLO 3 documentation on the Hewlett Packard Enterprise website (**http://www.hpe.com/support/Integrated_Lights-Out3_Manuals**).

Accessing UEFI or the OS from iLO 3 MP

UEFI is an architecture that provides an interface between the server blade OS and the server blade firmware. UEFI provides a standard environment for booting an OS and running preboot applications.

Use this procedure to access UEFI or the OS from the iLO 3 MP. Your security parameters were set regarding remote access.

Procedure

1. Retrieve the factory iLO 3 password from the iLO 3 Network pull tag located on the right side of the Monarch blade.
2. From the **MP Main Menu**, enter the `co` command to access the **Console**.

   > **NOTE:**
   >
   > Terminal windows should be set to a window size of 80 columns x 25 rows for optimal viewing of the console at UEFI.

3. After memory test and CPU late self test the following message appears:

   ```
   Press Ctrl-C now to bypass loading option ROM UEFI drivers.
   ```
4. The prompt will timeout if **Ctrl-C** is not pressed within a few seconds. If **Ctrl-C** is pressed, you will be presented with two options: After selecting an option, boot will proceed.

   > **NOTE:**
   >
   > If no option is selected, normal boot will proceed after ten seconds.

   - Bypass loading from I/O slots.
   - Bypass loading from I/O slots and core I/O.

     The Bypass loading from I/O slots and core I/O option may be useful if a bad core I/O UEFI driver is preventing system boot. USB drives can still be used at the UEFI shell to update core I/O drivers.

5. Depending on how the server blade was configured from the factory, and if the OS is installed at the time
   of purchase, you are taken to:
   a. UEFI shell prompt
   b. OS login prompt
6. If the server blade has a factory-installed OS, you can interrupt the boot process to configure your specific
   UEFI parameters.
7. If you are at the UEFI shell prompt, go to **UEFI Front Page**.
8. If you are at the OS login prompt, go to **OS login prompt** on page 20.

UEFI Front Page

If you are at the UEFI shell prompt, enter **exit** to get to the **UEFI Front Page**.

```
,947AA7BF-ED02-457A-9B8F-55161DF41DC2)
  blk8    :Removable HardDisk - Alias (null)
          PcieRoot(0x30304352)/Pci(0x2,0x0)/Pci(0x0,0x0)/Scsi(0x0,0x1)/HD(2,GPT
,6FE8C9E0-3CAE-11DE-8000-D6217B60E588)
  blk9    :Removable HardDisk - Alias (null)
          PcieRoot(0x30304352)/Pci(0x2,0x0)/Pci(0x0,0x0)/Scsi(0x0,0x1)/HD(3,GPT
,6FE8C9F4-3CAE-11DE-8000-D6217B60E588)
  blkA    :Removable HardDisk - Alias (null)
          PcieRoot(0x30314352)/Pci(0x2,0x0)/Pci(0x0,0x0)/Scsi(0x0,0x0)/HD(2,GPT
,95C8557A-DFA3-11D4-8000-D6217B60E588)
  blkB    :Removable HardDisk - Alias (null)
          PcieRoot(0x30314352)/Pci(0x2,0x0)/Pci(0x0,0x0)/Scsi(0x0,0x1)/HD(2,GPT
,1842AE78-E941-11DE-8000-D6217B60E588)
  blkC    :Removable BlockDevice - Alias (null)
          PcieRoot(0x30304352)/Pci(0x2,0x0)/Pci(0x0,0x0)/Scsi(0x0,0x0)
  blkD    :Removable BlockDevice - Alias (null)
          PcieRoot(0x30304352)/Pci(0x2,0x0)/Pci(0x0,0x0)/Scsi(0x0,0x1)
  blkE    :Removable BlockDevice - Alias (null)
          PcieRoot(0x30304352)/Pci(0x1D,0x7)/USB(0x3,0x0)
  blkF    :Removable BlockDevice - Alias (null)
          PcieRoot(0x30314352)/Pci(0x2,0x0)/Pci(0x0,0x0)/Scsi(0x0,0x0)
  blk10   :Removable BlockDevice - Alias (null)
          PcieRoot(0x30314352)/Pci(0x2,0x0)/Pci(0x0,0x0)/Scsi(0x0,0x1)

Shell> exit
```

```
1,0,2,0 5400020B09E10000 0000000000000006 EVN_EFI_LAUNCH_BOOT_MANAGER
(C) Copyright 2016-2017 Hewlett Packard Enterprise Development Company, L.P.

Note, menu interfaces might only display on the primary console device.
The current primary console device is:
Serial PcieRoot(0x30304352)/Pci(0x1C,0x5)/Pci(0x0,0x5)
The primary console can be changed via the 'conconfig' UEFI shell command,
or the 'Console Configuration' option in the Boot Maintenance Manager menu.

Press:  ENTER  -   Start boot entry execution
        B / b  -   Launch Boot Manager (menu interface)
        D / d  -   Launch Device Manager (menu interface)
        M / m  -   Launch Boot Maintenance Manager (menu interface)
        S / s  -   Launch UEFI Shell (command line interface)
        I / i  -   Launch iLO Setup Tool (command line interface)

*** User input can now be provided ***
```

To view boot options, or launch a specific boot option, press **B** or **b** to launch the Boot Manager.

```
10.64.6.31 - PuTTY
/------------------------------------------------------------\
|                        Boot Manager                        |
\------------------------------------------------------------/

                                    Device Path :
Boot Option Menu                    PcieRoot(0x30304352)/Pci(
                                    0x3,0x0)/Pci(0x0,0x2)/Fib
HP-UX Primary Boot:                 re(0x257000C0FF11F446,0x4
0/0/0/3/0/0/2.0x257000c0ff11f446.0x4036000000000000  036000000000000)/HD(1,GPT
HP-UX HA Alternate Boot:            ,F61FA072-C551-11E1-8000-
3/0/0/4/0/0/3.0x247000c0ff11f446.0x4036000000000000  D6217B60E588)/\EFI\HPUX\H
HP-UX Alternate Boot:               PUX.EFI
3/0/0/4/0/0/3.0x247000c0ff11f446.0x4036000000000000
FC Tape
iLO Virtual Flash
iLO Virtual DVD
UEFI Internal Shell



/------------------------------------------------------------\
|                                                            |
| ^v=Move Highlight      <Enter>=Select Entry    X/x=Exit this Menu |
\------------------------------------------------------------/
```

To configure specific devices, press **D** or **d** to launch the Device Manager. This is an advanced feature and should only be performed when directed.

```
/------------------------------------------------------------------\
|                        Device Manager                            |
\------------------------------------------------------------------/
                                       ^
 Emulex 10G NIC: Bus:Dev:Func 05:0:1 -          Configure network
 00:17:A4:77:74:26                              parameters.
 Emulex 10G NIC: Bus:Dev:Func 07:0:0 -           (MAC:0017A477743C)
 3C:4A:92:3D:D3:B8
 Emulex 10G NIC: Bus:Dev:Func 07:0:1 -
 3C:4A:92:3D:D3:BC
 Emulex 10G NIC: Bus:Dev:Func 09:0:0 -
 00:17:A4:77:74:2C
 Emulex 10G NIC: Bus:Dev:Func 09:0:1 -
 00:17:A4:77:74:2E
 IPv4 Network Configuration
 IPv4 Network Configuration
 IPv4 Network Configuration
 IPv4 Network Configuration
 IPv4 Network Configuration
                                       v
                                       v
|                                                             -\
| ^v=Move Highlight       <Enter>=Select Entry     X/x=Exit this Menu |
| ^v=Move Highlight       <Enter>=Select Entry     X/x=Exit this Menu |
\------------------------------------------------------------------/
```

To perform maintenance on the system such as adding, deleting, or reordering boot options, press **M** or **m** to launch the Boot Maintenance Manager.


```
/------------------------------------------------------------------\
|                  Boot Maintenance Manager                        |
\------------------------------------------------------------------/

 Boot Options                               Modify system boot
                                            options
 Driver Options

 Console Configuration

 Boot From File

 Set Boot Next Value
 Set Time Out Value

 Reset System



/------------------------------------------------------------------\
| B/b=Previous Page                                                |
| ^v=Move Highlight       <Enter>=Select Entry     X/x=Exit this Menu |
\------------------------------------------------------------------/
```

To perform more advanced operations, press **S** or **s** to launch the UEFI Shell.

To view the iLO 3 LAN configuration, press **I** or **i** to launch the iLO 3 Setup Tool.

Saving UEFI configuration settings

There are other UEFI settings you can configure at this time.

Booting and installing the operating system

From the **UEFI Front Page** prompt, you can boot and install in either of two manners:

- If your OS is loaded onto your server blade, see **Operating system is loaded onto the server blade** on page 20.
- If the OS is not installed onto your server blade, see **Operating system is not loaded onto the server blade**.

Operating system is loaded onto the server blade

If the OS is loaded on your server blade, normally UEFI will automatically boot to the OS. If the UEFI Front Page is loaded, press **ENTER** to start auto boot, or **B** or **b** to select a specific boot option for your OS.

- Use your standard OS logon procedures, or see your OS documentation to log on to your OS.

Operating system is not loaded onto the server blade

There are two options on how to load the OS if it is not loaded onto your server blade.

- Load the OS from a DVD.
- Load the OS using HP Ignite-UX.

OS login prompt

If your server blade is at the OS login prompt after you establish a connection to the server blade, use your standard OS log in procedures, or see your OS documentation for the next steps.

Installing the latest firmware using Smart Update Manager

The Smart Update Manager (SUM) utility enables you to deploy firmware components from either an easy-to-use interface or a command line. It has an integrated hardware discovery engine that discovers the installed hardware and the current versions of firmware in use on target servers. This prevents extraneous network traffic by only sending the required components to the target. SUM also has logic to install updates in the correct order and ensure all dependencies are met before deployment of a firmware update. It also contains logic to prevent version-based dependencies from destroying an installation and ensures updates are handled in a manner that reduces any downtime required for the update process. SUM does not require an agent for remote installations.

Key features of SUM are:

- GUI and CLI–command line interface
- Dependency checking, which ensures appropriate installation order and dependency checking between components
- Intelligent deployment deploys only required updates
- Support for updating firmware on network-based targets, such as the OA, iLO (through the Network Management Port), and VC Ethernet modules
- Improved deployment performance
- Remote command-line deployment
- Windows X86 or Linux X86 support

SUM is included in the firmware bundles download from **http://www.hpe.com**, and is supported on the BL860c i6, BL870c i6, and BL890c i6.

For more information about SUM, see the *Smart Update Manager User Guide* (**http://www.hpe.com/info/hpsum/documentation**).

Support and other resources

Accessing Hewlett Packard Enterprise Support

- For live assistance, go to the Contact Hewlett Packard Enterprise Worldwide website:

  http://www.hpe.com/assistance
- To access documentation and support services, go to the Hewlett Packard Enterprise Support Center website:

  http://www.hpe.com/support/hpesc

Information to collect

- Technical support registration number (if applicable)
- Product name, model or version, and serial number
- Operating system name and version
- Firmware version
- Error messages
- Product-specific reports and logs
- Add-on products or components
- Third-party products or components

Accessing updates

- Some software products provide a mechanism for accessing software updates through the product interface. Review your product documentation to identify the recommended software update method.
- To download product updates:

  Hewlett Packard Enterprise Support Center

  www.hpe.com/support/hpesc

  Hewlett Packard Enterprise Support Center: Software downloads

  www.hpe.com/support/downloads

  Software Depot

  www.hpe.com/support/softwaredepot
- To subscribe to eNewsletters and alerts:

  www.hpe.com/support/e-updates
- To view and update your entitlements, and to link your contracts and warranties with your profile, go to the Hewlett Packard Enterprise Support Center **More Information on Access to Support Materials** page:

  www.hpe.com/support/AccessToSupportMaterials

  (!) **IMPORTANT:**

  Access to some updates might require product entitlement when accessed through the Hewlett Packard Enterprise Support Center. You must have an HPE Passport set up with relevant entitlements.

Customer self repair

Hewlett Packard Enterprise customer self repair (CSR) programs allow you to repair your product. If a CSR part needs to be replaced, it will be shipped directly to you so that you can install it at your convenience.

Some parts do not qualify for CSR. Your Hewlett Packard Enterprise authorized service provider will determine whether a repair can be accomplished by CSR.

For more information about CSR, contact your local service provider or go to the CSR website:

http://www.hpe.com/support/selfrepair

Remote support

Remote support is available with supported devices as part of your warranty or contractual support agreement. It provides intelligent event diagnosis, and automatic, secure submission of hardware event notifications to Hewlett Packard Enterprise, which will initiate a fast and accurate resolution based on your product's service level. Hewlett Packard Enterprise strongly recommends that you register your device for remote support.

If your product includes additional remote support details, use search to locate that information.

Remote support and Proactive Care information

    HPE Get Connected

        www.hpe.com/services/getconnected

    HPE Proactive Care services

        www.hpe.com/services/proactivecare

    HPE Proactive Care service: Supported products list

        www.hpe.com/services/proactivecaresupportedproducts

    HPE Proactive Care advanced service: Supported products list

        www.hpe.com/services/proactivecareadvancedsupportedproducts

Proactive Care customer information

    Proactive Care central

        www.hpe.com/services/proactivecarecentral

    Proactive Care service activation

        www.hpe.com/services/proactivecarecentralgetstarted

Warranty information

To view the warranty for your product or to view the *Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products* reference document, go to the Enterprise Safety and Compliance website:

www.hpe.com/support/Safety-Compliance-EnterpriseProducts

Additional warranty information

    HPE ProLiant and x86 Servers and Options

        www.hpe.com/support/ProLiantServers-Warranties

    HPE Enterprise Servers

        www.hpe.com/support/EnterpriseServers-Warranties

    HPE Storage Products

        www.hpe.com/support/Storage-Warranties

    HPE Networking Products

        www.hpe.com/support/Networking-Warranties

Regulatory information

To view the regulatory information for your product, view the *Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products*, available at the Hewlett Packard Enterprise Support Center:

www.hpe.com/support/Safety-Compliance-EnterpriseProducts

Additional regulatory information

Hewlett Packard Enterprise is committed to providing our customers with information about the chemical substances in our products as needed to comply with legal requirements such as REACH (Regulation EC No 1907/2006 of the European Parliament and the Council). A chemical information report for this product can be found at:

www.hpe.com/info/reach

For Hewlett Packard Enterprise product environmental and safety information and compliance data, including RoHS and REACH, see:

www.hpe.com/info/ecodata

For Hewlett Packard Enterprise environmental information, including company programs, product recycling, and energy efficiency, see:

www.hpe.com/info/environment

Documentation feedback

Hewlett Packard Enterprise is committed to providing documentation that meets your needs. To help us improve the documentation, send any errors, suggestions, or comments to Documentation Feedback (**docsfeedback@hpe.com**). When submitting your feedback, include the document title, part number, edition, and publication date located on the front cover of the document. For online help content, include the product name, product version, help edition, and publication date located on the legal notices page.