



Mount the Chassis

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Unpack and Inspect the Chassis



Note The chassis is thoroughly inspected before shipment. If any damage occurred during transportation or any items are missing, contact your customer service representative immediately. Keep the shipping container in case you need to send the chassis back due to damage.

See [Package Contents](#) for a list of what shipped with the chassis.

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- Step 1** Remove the chassis from its cardboard container and save all packaging material.
- Step 2** Compare the shipment to the equipment list provided by your customer service representative. Verify that you have all items.
- Step 3** Check for damage and report any discrepancies or damage to your customer service representative. Have the following information ready:
- Invoice number of shipper (see the packing slip)
 - Model and serial number of the damaged unit
 - Description of damage
 - Effect of damage on the installation
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Rack-Mount the Chassis

You can install the chassis in a rack using the Cisco rack kit.

The rack must be of the following type:

- A standard 19-inches (48.3-cm) wide, 4-post EIA rack with mounting posts that conform to English universal hole spacing per section 1 of ANSI/EIA-310-D-1992.
- The rack post holes can be square 0.38-inches (9.6 mm), round 0.28-inches (7.1 mm), #12-24 UNC, or #10-32 UNC when you use the supplied slide rails.
- The minimum vertical rack space per chassis must be 1 RU, equal to 1.75 inches (44.45 mm).
- The slide rails for the chassis have an adjustment range of 24 to 36 inches (610 to 914 mm).



Note The slide rails supplied by Cisco Systems for the chassis do not require tools for installation if you install them in a rack that has square 0.38-inches (9.6 mm), round 0.28-inches (7.1 mm), or #12-24 UNC threaded holes.

Before you begin

Take note of the following warnings:



Warning To prevent personal injury or damage to the chassis, never attempt to lift or tilt the chassis using the handles on modules, such as power supplies, fans, or cards. These types of handles are not designed to support the weight of the unit.



Warning 2 people are required to lift the heavy parts of the product. To prevent injury, keep your back straight and lift with your legs, not your back.



Warning To reduce the risk of fire or bodily injury, do not operate the unit in an area that exceeds the maximum recommended ambient temperature of: 40°C



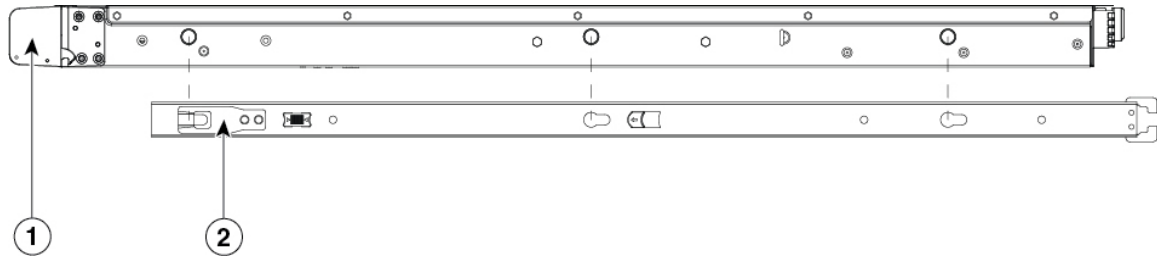
Warning To prevent bodily injury when mounting or servicing this unit in a rack, you must take special precautions to ensure that the system remains stable. The following guidelines are provided to ensure your safety:

- This unit should be mounted at the bottom of the rack if it is the only unit in the rack.
- When mounting this unit in a partially filled rack, load the rack from the bottom to the top with the heaviest component at the bottom of the rack.
- If the rack is provided with stabilizing devices, install the stabilizers before mounting or servicing the unit in the rack.

Step 1 Attach the inner rails to the sides of the chassis:

- a) Align an inner rail with one side of the chassis so that the three keyed slots in the rail align with the three pegs on the side of the chassis.
- b) Set the keyed slots over the pegs, and then slide the rail toward the front to lock it in place on the pegs. The front slot has a metal clip that locks over the front peg.
- c) Install the second inner rail to the opposite side of the chassis.

Figure 1: Attach the Inner Rail to Side of Chassis



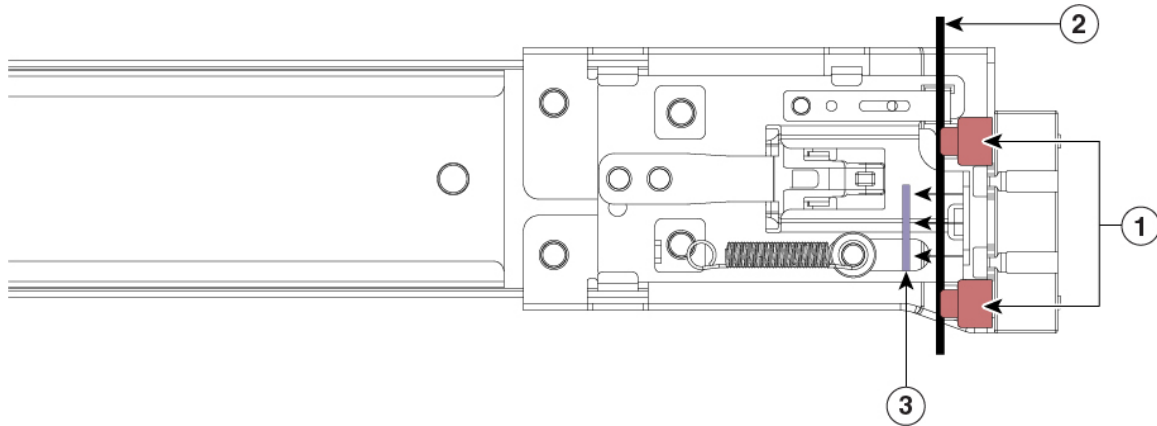
1	Front of chassis	2	Locking clip on inner rail
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Step 2

Open the front securing plate on both slide-rail assemblies. The front end of the slide-rail assembly has a spring-loaded securing plate that must be open before you can insert the mounting pegs into the rack-post holes.

On the outside of the assembly, push the green arrow button toward the rear to open the securing plate.

Figure 2: Front Securing Mechanism, Inside of Front End



1	Front mounting pegs	2	Rack post
3	Securing plate shown pulled back to open position		

Step 3

Install the slide rails into the rack:

- a) Align one slide-rail assembly front end with the front rack-post holes that you want to use.

The slide rail front end wraps around the outside of the rack post and the mounting pegs enter the rack-post holes from the outside-front.

Note The rack post must be between the mounting pegs and the open securing plate.

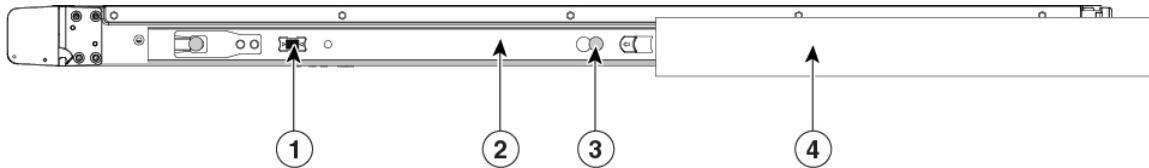
- b) Push the mounting pegs into the rack-post holes from the outside-front.
- c) Press the securing plate release button, marked “PUSH.” The spring-loaded securing plate closes to lock the pegs in place.
- d) Attach the second slide-rail assembly to the opposite side of the rack. Make sure that the two slide-rail assemblies are at the same height with each other and are level front-to-back.
- e) Pull the inner slide rails on each assembly out toward the rack front until they hit the internal stops and lock in place.

Step 4

Insert the chassis into the slide rails:

- a) Align the rear of the inner rails that are attached to the chassis sides with the front ends of the empty slide rails on the rack.
- b) Push the inner rails into the slide rails on the rack until they stop at the internal stops.
- c) Slide the release clip toward the rear on both inner rails, and then continue pushing the chassis into the rack until its front slam latches engage with the rack posts

Figure 3: Inner Rail Release Clip



1	Inner rail release clip	2	Inner rail attached to the chassis and inserted into outer rail
3	Button to unlock rail Press this button to unlock the rail so you can pull out the chassis from the rack when uninstalling or performing maintenance.	4	Outer rail attached to rack post

Step 5

(Optional) Secure the chassis in the rack more permanently by using the two screws that are provided with the slide rails. Perform this step if you plan to move the rack with chassis installed. With the chassis fully pushed into the slide rails, open a hinged slam latch lever on the front of the chassis and insert the screw through the hole that is under the lever. The screw threads into the static part of the rail on the rack post and prevents the chassis from being pulled out. Repeat for the opposite slam latch.

What to do next

Continue with [Connect Cables, Turn on Power, and Verify Connectivity, on page 5.](#)

Connect Cables, Turn on Power, and Verify Connectivity



Warning Invisible laser radiation is present. Do not expose to users of telescopic optics. This applies to Class 1/1M laser products.



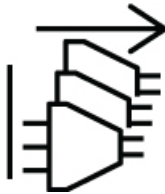
Warning This unit is intended for installation in restricted access areas. Only skilled, instructed, or qualified personnel can access a restricted access area.



Warning This product relies on the building's installation for short-circuit (overcurrent) protection. To reduce risk of electric shock or fire, ensure that the protective device is rated not greater than: AC: 20A, DC: 40A



Warning This unit might have more than one power supply connection. To reduce risk of electric shock, remove all connections to de-energize the unit.



Warning To reduce risk of electric shock or personal injury, disconnect DC power before removing or replacing components or performing upgrades.



Warning To reduce risk of electric shock, when installing or replacing the unit, the ground connection must always be made first and disconnected last.

If your unit has modules, secure them with the provided screws.



Warning To reduce the risk of electric shock and fire, a readily accessible disconnect device must be incorporated in the fixed wiring.



Warning Blank faceplates and cover panels serve three important functions: they reduce the risk of electric shock and fire, they contain electromagnetic interference (EMI) that might disrupt other equipment, and they direct the flow of cooling air through the chassis. Do not operate the system unless all cards, faceplates, front covers, and rear covers are in place.



Warning To reduce risk of electric shock or fire, installation of the equipment must comply with local and national electrical codes.

After rack mounting the chassis, follow these steps to connect cables, turn on power, and verify connectivity.



Note AC power supplies have internal grounding and so no additional chassis grounding is required when the supported AC power cords are used. For more information about supported power cords, see [Power Cord Specifications](#).

Before you begin

Take note of the following warnings.



Warning This is a Class 4 laser product. Invisible laser radiation is present. Avoid eye or skin exposure to direct or scattered radiation.



Warning Invisible laser radiation may be emitted from disconnected fibers or connectors. Do not stare into beams or view directly with optical instruments.

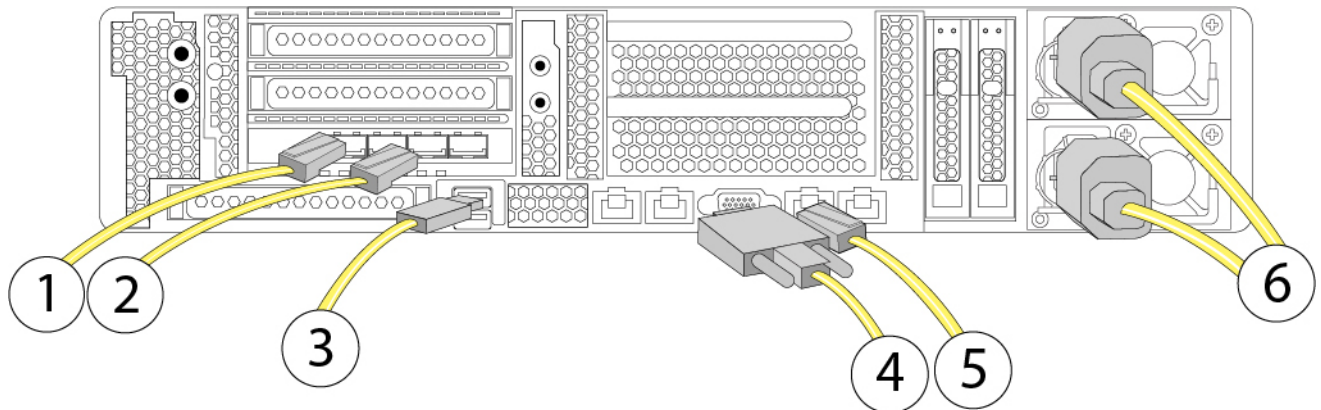
Step 1

Connect one Cisco-supported SFP+ transceiver and cable to the far left SFP port in PCIe 3 (see [Rear Panel](#)). This is eth0 used to manage the PC4000 through the Opadmin console and should connect to a secure management network.

Each Cisco-certified SFP+ transceiver has an internal serial EEPROM that is encoded with security information. This encoding allows us to identify and validate that the SFP transceiver meets the requirements for the Secure Endpoint PC4000 chassis.

Note Only Cisco certified SFP+ transceivers are compatible with the 10-G interfaces and both transceivers must be 1-G or 10-G. You cannot use one transceiver of each kind. Cisco TAC may refuse support for any interoperability problems that result from using an untested third-party SFP+ transceiver.

Figure 4: Cable Connections



1	eth0 Private Cloud Administration Portal interface 10 Gigabit Ethernet SFP+ support Use only Cisco supported SFP+ transceivers.	2	eth1 Secure Endpoint console interface 10 Gigabit Ethernet SFP+ support Use only Cisco supported SFP+ transceivers.
3	USB 3.0 Type A port You can connect a keyboard, and along with a monitor on the VGA port, you can access the CIMC.	4	VGA video port (DB-15 connector)
5	CIMC port 1-Gb Ethernet dedicated management port	6	Power cables

- Step 2** Connect a second Cisco-supported SFP+ transceiver and cable to the SFP port to the right of the eth0 port in step 1. This is eth1 used to access the Secure Endpoint console and allows your Secure Endpoint connectors to perform cloud queries so should be connected to a network accessible to your endpoints.
- Step 3** Connect the Ethernet cable that shipped with your appliance to the CIMC port. This should be connected to a secure management network.
- Step 4** Use the supported power cords to connect the power supplies of the chassis to your power source. For more information about supported power cords, see [Power Cord Specifications](#).
- Step 5** Connect a keyboard to one of the USB ports and a monitor to the VGA port or use the KVM port on the front panel.
- Step 6** Power on the appliance.
- Step 7** Press **F8** at the menu options to configure the CIMC. The first time you connect to the CIMC you are prompted to set a new password. For more information about the CIMC, see the [Cisco UCS C-Series Servers Integrated Management Controller CLI Configuration Guide](#) or the [Cisco UCS C-Series Integrated Management Controller GUI Configuration Guide](#).
- Step 8** Configure the network settings (IP address, DNS) for the CIMC. You can disconnect the keyboard and monitor once the network settings have been applied.
- Step 9** Connect to the CIMC from a web browser on a computer on your secure management network using the IP address you set in step 8. At the log in prompt enter `admin` as the username and the password you set in step 7.

Step 10 Choose HTML based KVM session from the Launch KVM option on the browser page. See the [Private Cloud Administration Portal User Guide](#) to continue setup and configuration.
