



Lenovo Flex System Carrier-Grade Chassis Type 7385

Quick Start Instructions

Note: For detailed instructions, see the *Lenovo Flex System Carrier-Grade Chassis Type 7385 Installation and Service Guide*.

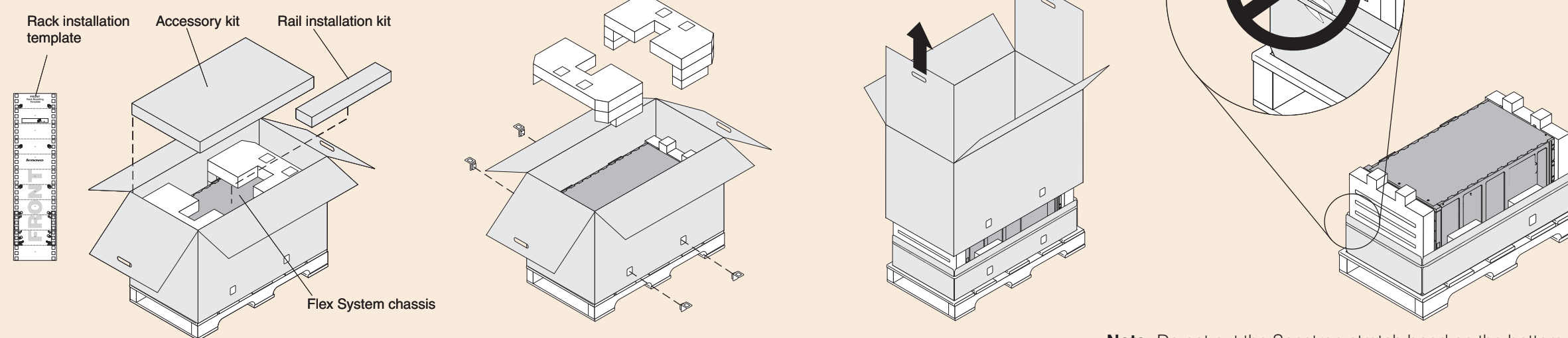
Before you install this product, read the safety information in the *Lenovo Flex System Carrier-Grade Chassis Type 7385 Installation and Service Guide*.

Learn more about the Lenovo Flex System Carrier-Grade Chassis at <http://pic.dhe.ibm.com/infocenter/flexsys/information/index.jsp>.

1 Before you begin

1.1 Verify the shipment contents:

- Lenovo Flex System Carrier-Grade Chassis
 - Rack installation template
 - Accessory kit
 - 10 M5 x 16 combi-head screws 46C6380 (black)
 - 22 M5 clip nuts - 74F1823 (12 for rack installation, 8 for stand-alone, 2 extra)
 - 14 M5 cage nuts - 81Y2820 (2 extra)
 - 1 lower support bracket - 81Y2988
 - 1 left upper shipping bracket - 81Y2986
 - 1 right upper shipping bracket - 81Y2991
 - 4 chassis lift handles - 81Y2909
 - Airborne contaminant filter assembly - 00MN094
 - Filter assembly left mounting bracket - 81Y2863
 - Filter assembly right mounting bracket - 81Y2862
 - Filter assembly bezel - 88Y6639
 - Filter assembly retention bracket - 81Y2865
 - 10U Filter - 81Y2866
 - 1 power cable per power supply
 - 1 Sanstrap stretch band
- Documentation kit
 - Flex System Documentation CD
 - Important Notices document
 - Statement of Limited Warranty
 - Node labels
 - Rail installation kit - 88Y6763
 - 10 hook-and-loop strips - 51H9502
 - 8 M5 x 16 combi-head screws (4 extra, black)
 - 1 left chassis-mounting rail
 - 1 right chassis-mounting rail



Note: Do not cut the Sanstrap stretch band on the bottom tray.

1.2 Become familiar with the chassis components. The following modules are standard: One Flex System Chassis Management Module (CMM), two or more power supplies, six or more fan modules, and two fan logic modules. The chassis might also include one or more compute nodes. The features or modules that you receive might differ from the contents shown in Figures 1 and 2, depending on what you ordered (see Figures 1 and 2).

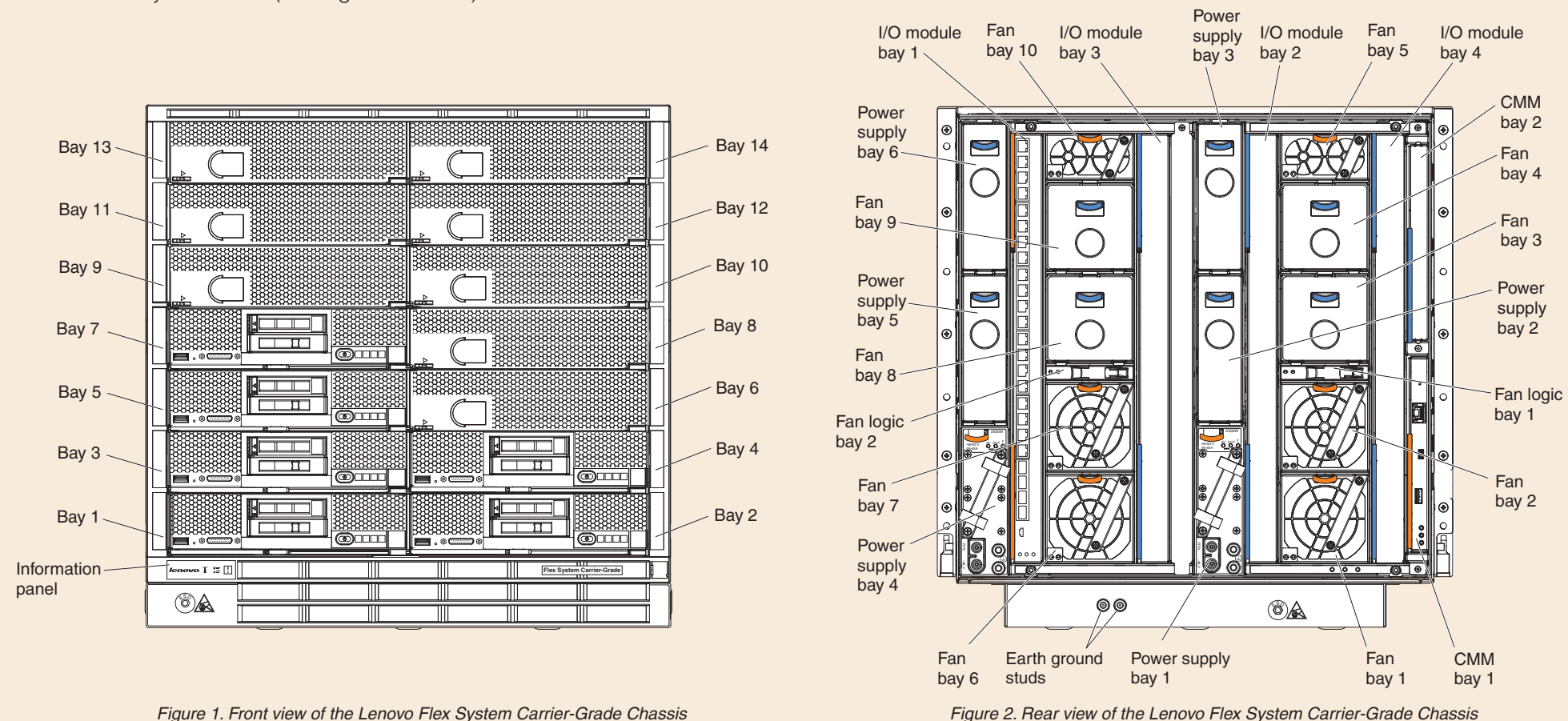
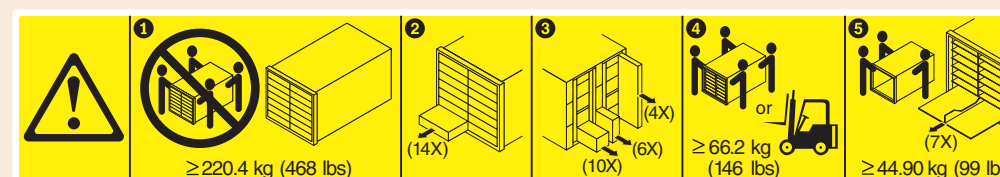


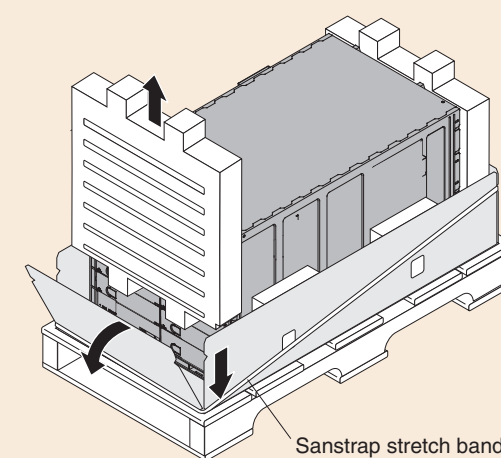
Figure 1. Front view of the Lenovo Flex System Carrier-Grade Chassis

Figure 2. Rear view of the Lenovo Flex System Carrier-Grade Chassis

1.3 To decrease the weight and make the chassis easier to install in a rack, remove components from the chassis. Make a note of each component location so that the component can be reinstalled in the same location. Press on the colored latch and pull on the handles to remove the components. You can also remove the shelves from the chassis to reduce the weight further.



To access the lower chassis components, loosen the Sanstrap stretch band on the bottom tray and fold the bottom tray flaps down.



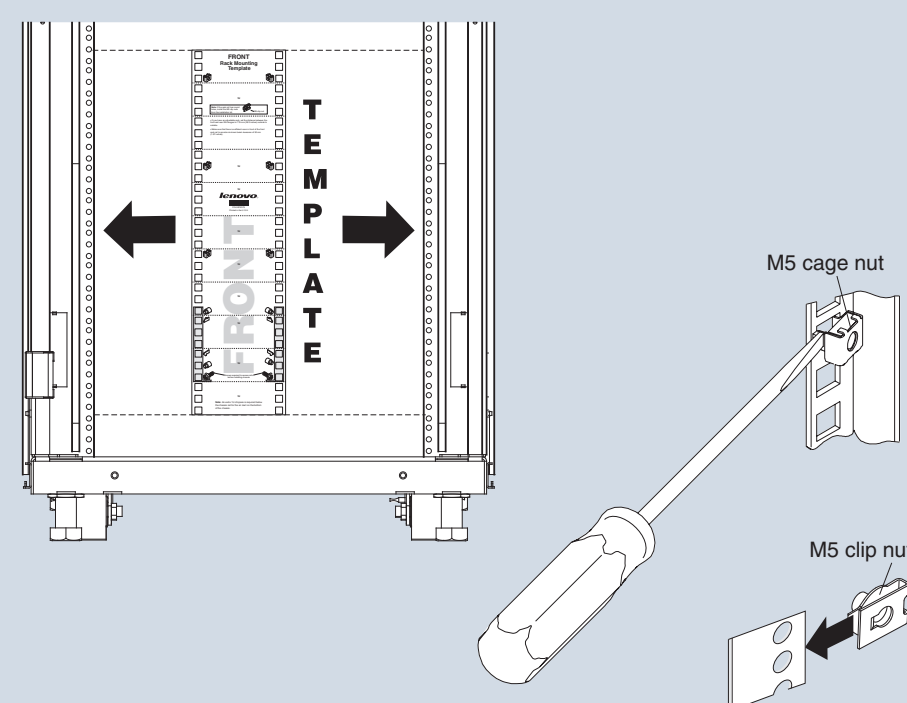
2 Install the Lenovo Flex System Carrier-Grade Chassis in a rack

- You will need at least 11U of available space to install the Lenovo Flex System Carrier-Grade Chassis.
- If you have an adjustable rack, set the distance between the front and rear EIA flanges to 719 mm (28.3 inches) outside to outside.
- Make sure that there is sufficient room in front of the front EIA flange to provide minimum bezel clearance of 70 mm (2.76 inches).

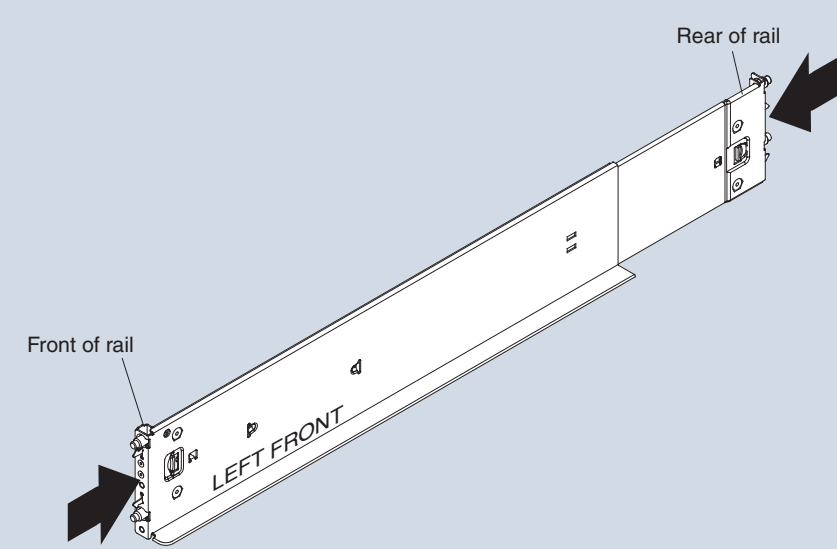
2.1 Remove the rack door, if one is installed on the rack.

2.2 Align the rack template with the holes in the EIA flange (internal to rack). For EIA flanges with square holes, install M5 cage nuts from the accessory kit in the holes that are indicated on the template. If the EIA flanges have round holes, install the M5 clip nuts from the accessory kit instead of the M5 cage nuts.

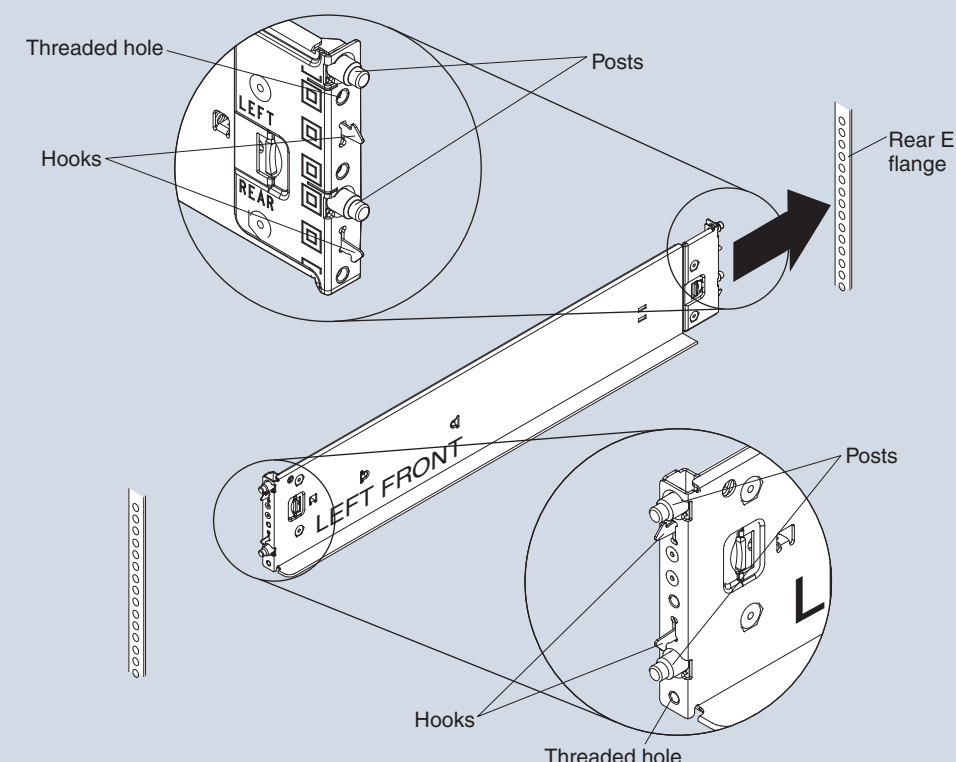
Note: Install cage nuts or clip nuts on the front and back EIA flanges.



2.3 Retract both chassis rails, if they are not already retracted.



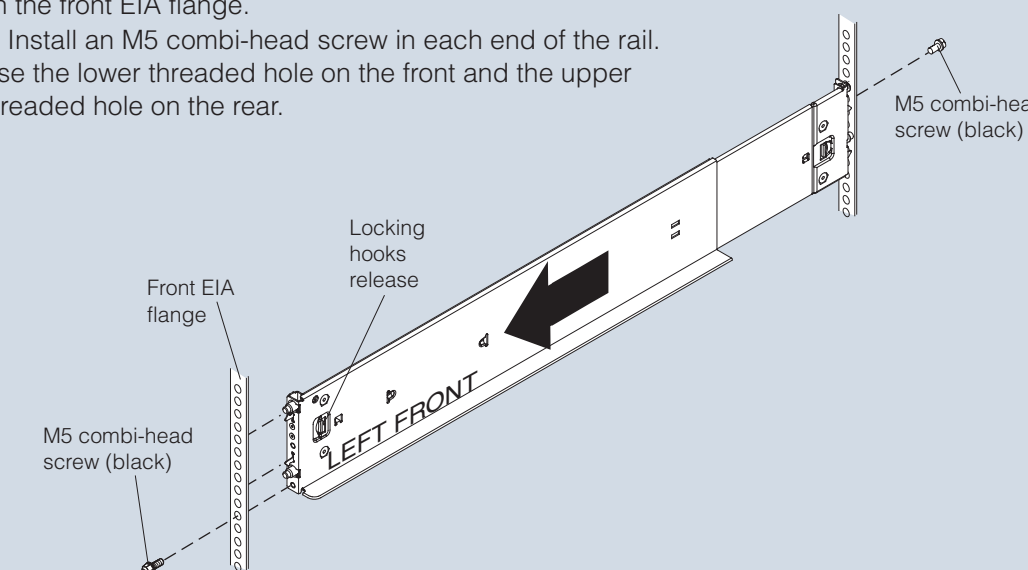
2.4 Position the left chassis rail in the selected location on the rear of the rack. Align the posts on the chassis rail with the corresponding holes on the rear EIA flange. Insert the posts on the rear of the chassis rail through the holes on the rear EIA flange until the hooks snap into place.



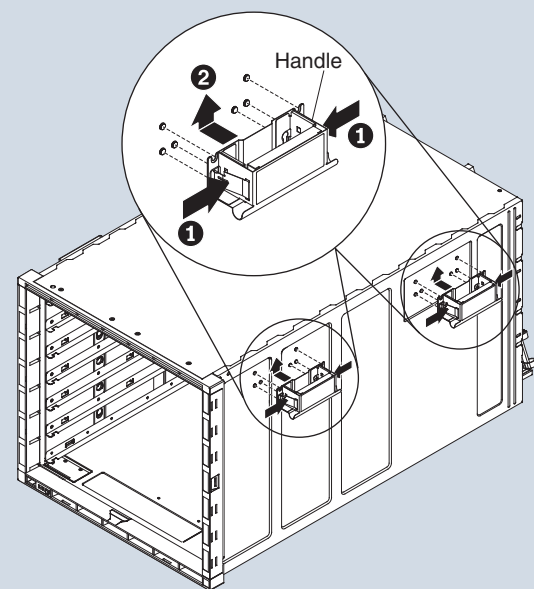
2.5 Pull the chassis rail forward and insert the posts on the front of the chassis rail into the holes on the front EIA flange until it snaps into place. Repeat steps 2.4 and 2.5 for the right chassis rail.

Note:

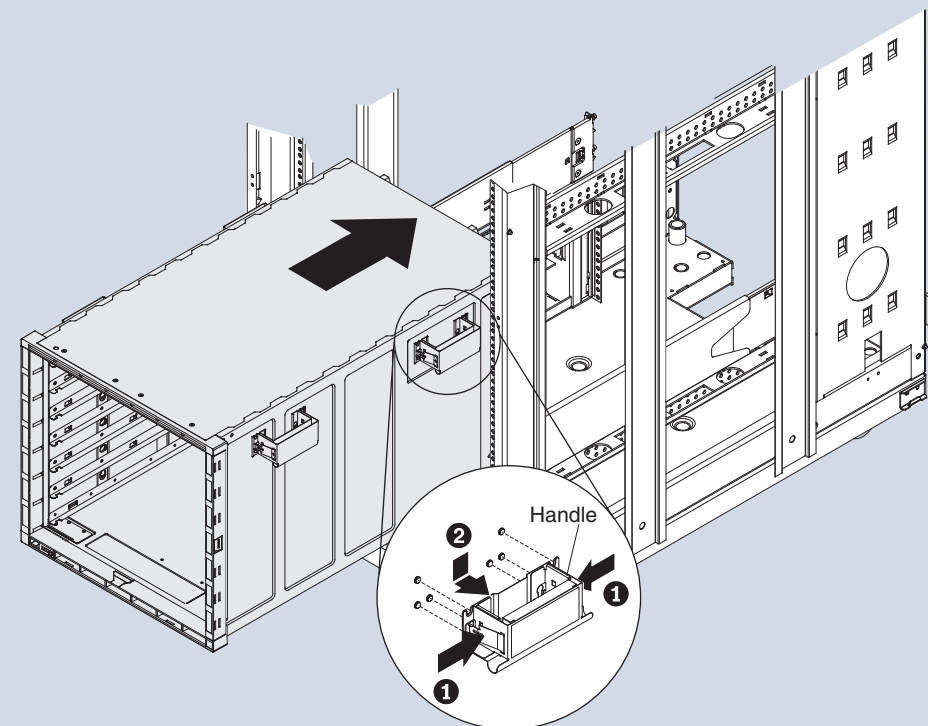
1. Make sure the bottom edge of the chassis rail is aligned 1U above the bottom U that you want the chassis to sit in.
2. If you misalign the chassis rail, press the locking hooks release or squeeze the locking hooks on the chassis rail, slide the posts out of the holes, and try again.
3. Make sure that the chassis rail posts protrude through the holes on the front EIA flange.
4. Install an M5 combi-head screw in each end of the rail. Use the lower threaded hole on the front and the upper threaded hole on the rear.



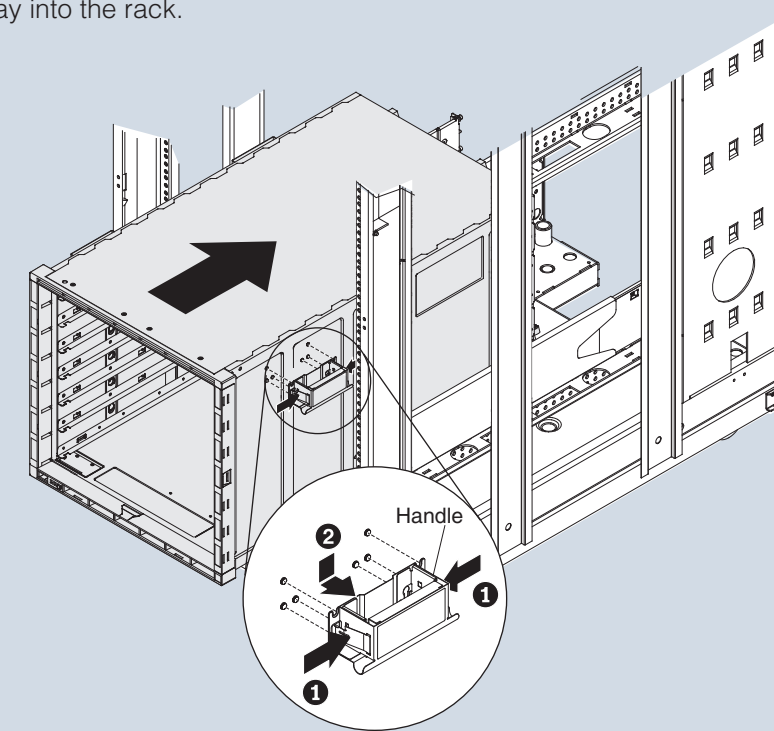
- 2.6** Attach the chassis handles. Align the slots on the handle with the posts on the side of the chassis and slide the handle up until it locks into place.



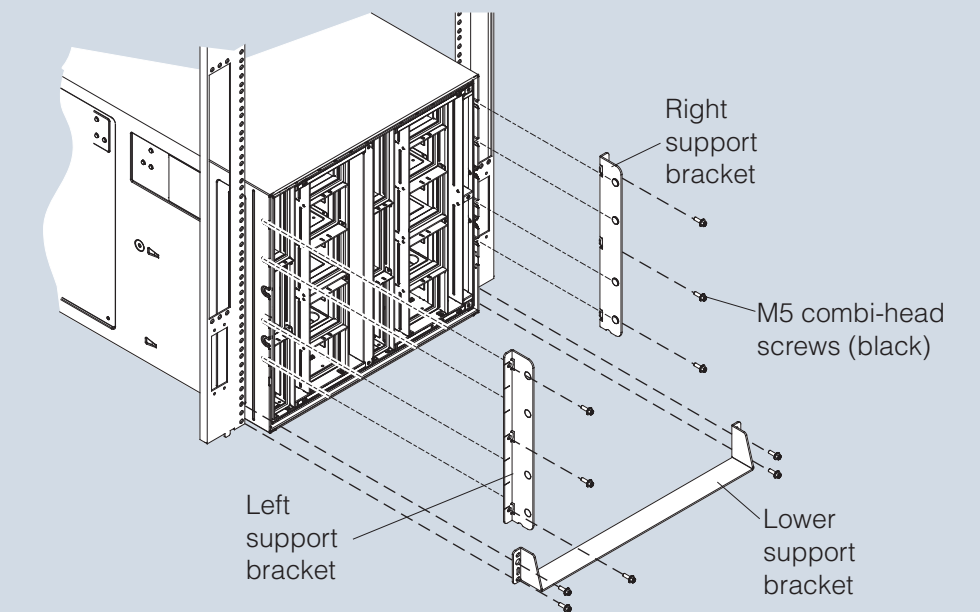
- 2.7** Lift the chassis up, place the rear of the chassis onto the chassis rails, and slide the chassis into the rack until the rear chassis handles are near the front rack rails. While you support the front of the chassis, remove each rear handle by pressing inward on the spring latches on the handle and sliding the handle down.



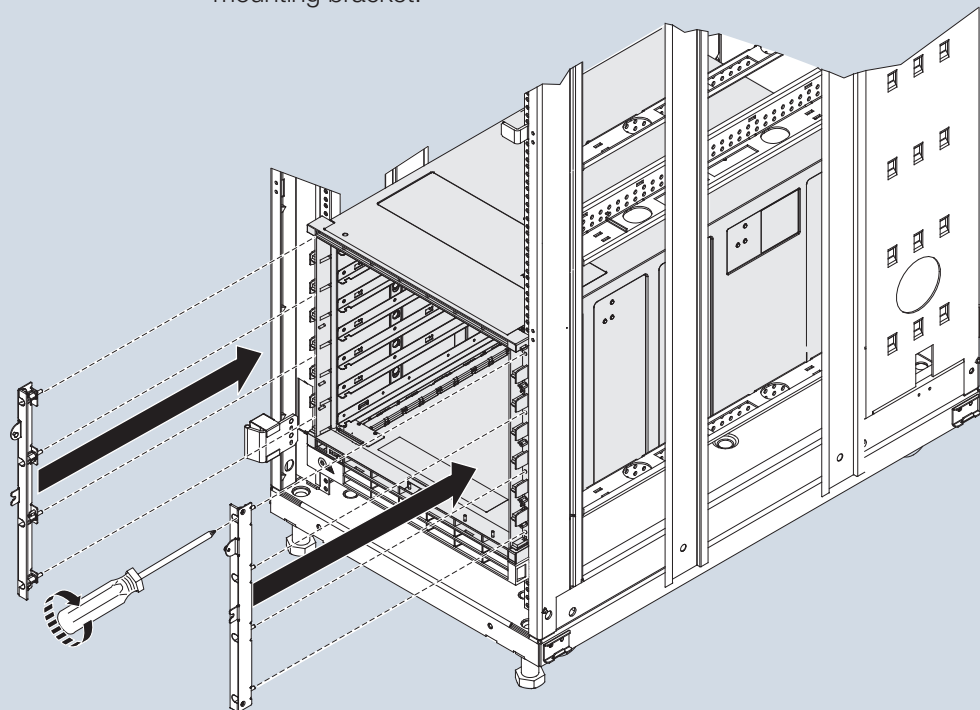
- 2.8** Slide the chassis farther into the rack until the front chassis handles are near the front rack rails, and remove the front handles. Then, slide the chassis all the way into the rack.



- 2.9** Install the support brackets that come with the chassis.
1. Align the right support bracket with the four slots on the rear of the chassis (outside of the chassis wall).
 2. Slide the support bracket forward until it locks into place in the slots.
 3. Secure the support bracket to the rack with three M5 combi-head screws (black).
 4. Repeat steps 1 through 3 for the left support bracket.
 5. Fit the lower support bracket to the chassis; then, slide it forward against the rack rails and secure the bracket with four M5 combi-head screws (black).



- 2.10** Install the airborne contaminant filter mounting brackets:
1. Align the left mounting bracket captive screws with the four empty screw holes on the left side of the chassis bezel.
 2. Thread the four captive screws through the bezel into the clip or cage nuts to secure the bracket to the chassis.
 3. Repeat steps 1 and 2 for the right airborne contaminant filter mounting bracket.



- 2.11** Connect an earth ground cable to the ground lugs on the rear of the chassis.
- 2.12** Reinstall the chassis shelves, if you removed them earlier.
- 2.13** Reinstall all the components in the chassis.
Note: When you reinstall the compute nodes, be sure to install from the bottom up (the first node in node bay 1, the second node in node bay 2, and so on).
- 2.14** Install the chassis airborne contaminant filter.
- 2.15** Cable the I/O modules to the network devices in the data network.

3 Power the Flex System Carrier-Grade Chassis

- 3.1** Connect the applicable power cords and supply power to the Lenovo Flex System Carrier-Grade Chassis.
- 3.2** LEDs are on both the front and rear of the chassis. The rear LEDs are below fan bay 1. Make sure that the following LEDs are lit:
- The logo on the front information panel
 - The power LEDs on each power supply (see Figure 2 in step 1.2)
 - Power LEDs on each I/O module (see Figure 2 in step 1.2)

If any of the LEDs are not lit, complete the following steps:

1. Remove power from the chassis.
2. Reseat all components in the chassis.
3. Supply power to the chassis. If the problem remains, contact Support.

4 Connect to the Chassis Management Module by direct connection

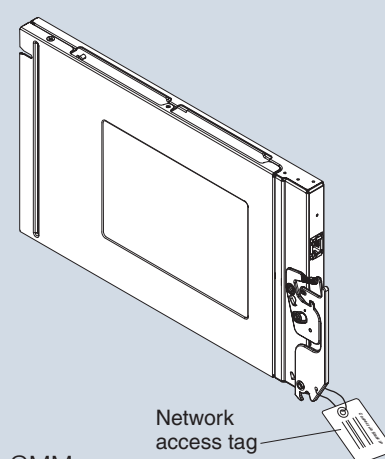
- 4.1** Connect an Ethernet cable from a client computer to the active Chassis Management Module (CMM) by a direct connection. If two CMMs are installed, you only have to configure the primary CMM. The Active LED will be lit (⊗) on the primary CMM. The primary CMM automatically synchronizes the configuration with the standby CMM.
- 4.2** To connect to the CMM for the first time, you might have to change the Internet Protocol properties on the client computer. Make sure that the client computer subnet is the same as the CMM subnet (the default CMM subnet is 255.255.255.0). The CMM IP address must also be in the same local domain as the client computer IP address.
- 4.3** Open a web browser on the client computer, and direct it to the CMM IP address. You must use a secure connection (<https://192.168.70.100>).
- Note:** The manufacturing default static IPv4 IP address is 192.168.70.100, and the default IPv4 subnet address is 255.255.255.0.
- 4.4** Enter the CMM user name and password to start the remote session.
- The user ID and password are case sensitive. The same user ID and password are used for all methods of connecting to the CMM.
 - The default CMM user name is USERID, and the default password is PASSWORD (note the number zero, not the letter O, in PASSWORD). You will be required to change the default password when you log in for the first time.

Network access tag

The network access tag lists the following initial connection information for the CMM:

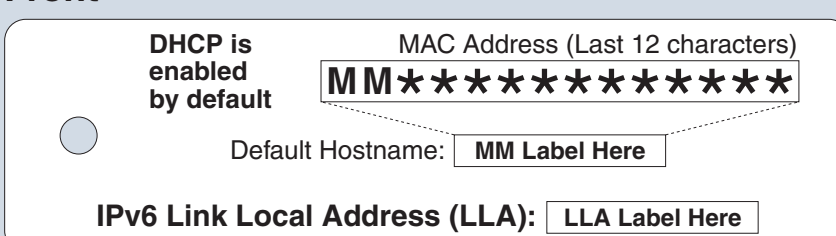
- MAC address
- Default host name
- IPv6 Link Local Address (LLA)
- Default IPv4 static IP address (192.168.70.100)
- Default user name (USERID)
- Default password (PASSWORD, where the number zero, not the letter O, is used)

The network access tag is attached to the front of the CMM.



The front of the network access tag lists the CMM MAC address, default host name, and IPv6 LLA, as shown in the following illustration.

Front



The rear of the network access tag lists the default IPv4 static IP address, default user name, and default password, as shown in the following illustration.

Rear

Default Information: URL: <https://192.168.70.100>
User Name: USERID
Password: PASSWORD^{L-ZERO}

Secure connection required.
(e.g., SSH, <https://>, etc.)



- 4.5** The first time you log in to the CMM, the initial setup wizard opens. Perform the initial configuration of the CMM.

- 4.6** Set the IP address for each of the components in the chassis. This includes the IP address of the IMM or FSP in each of the compute nodes and the IP address of each of the switches in the chassis. From the CMM user interface, select **Chassis Management > Component IP Configuration**. Then, select a device to change its IP address.
Note: You must restart each device to show the new IP address.

5 Next Steps

- 5.1** Restart the CMM from the CMM user interface. As the CMM is restarting, connect a cable from the Ethernet port on the CMM to your network.
- 5.2** Log in to the user interface of each of the switches in the chassis and configure them.

Initial setup is now complete. You are ready to begin using the Lenovo Flex System Carrier-Grade Chassis.

The product documentation is available at <http://pic.dhe.ibm.com/infocenter/flexsys/information/index.jsp>

For step-by-step instructions for setting up your Lenovo Flex System Carrier-Grade Chassis and performing common management tasks, go to http://pic.dhe.ibm.com/infocenter/flexsys/information/topic/com.ibm.acc.commontasks.doc/commontasks_intro.html