



APPENDIX **D**

Repacking the Cisco Nexus 7000 Series Switch for Shipment

This appendix describes how to repack the Cisco Nexus 7000 Series system for shipment. This appendix includes the following sections:

- [Disconnecting the Cisco Nexus 7000 Series System, page D-1](#)
- [Repacking the System Components, page D-2](#)

Disconnecting the Cisco Nexus 7000 Series System

Before you can remove the Cisco Cisco Nexus 7000 Series system components and repack the system, you must disconnect the system from the internet and the AC power source as explained in the following topics:

- [Powering Down the Cisco Nexus 7000 Series System, page D-1](#)
- [Disconnecting the System from the Console, page D-1](#)
- [Disconnecting the System from the Network, page D-2](#)



Caution

When you are handling the Cisco Cisco Nexus 7000 Series switch or switch components, you must follow the ESD protocol at all times to prevent ESD damage. This protocol includes but is not limited to wearing an ESD wrist strap that you connect to the earth ground in the data center building.

Powering Down the Cisco Nexus 7000 Series System

To power down the Cisco Nexus 7000 Series system, turn the power switch on each power supply from Power to STBY, and then disconnect the power cords to each power supply. The system is powered down when the LEDs on each power supply are all off.

Disconnecting the System from the Console

To disconnect the system from the console, you must disconnect each interface cable that connects to the management Ethernet (Mgmt Ethernet) and CMP Ethernet interfaces on each supervisor module. You must also disconnect the cables and their adapters from the console.

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Disconnecting the System from the Network

To disconnect the system from the network, you must remove each I/O cable from the system I/O modules.

Repacking the System Components

You should repack the Cisco Cisco Nexus 7000 Series system in the packing materials in which it was originally shipped. To make the Cisco Cisco Nexus 7000 Series lighter and easier to move, remove its power supply units and its optional features, such as the midframe doors, lower frame, and air filter. You should pack each of these components separately. Using a mechanical lift, move the chassis from the rack to its shipping pallet and complete the packaging for shipment.

This section includes the following topics:

- [Prerequisites for Repacking the System, page D-2](#)
- [Required Tools and Equipment for Repacking the System, page D-2](#)
- [Repacking the Cisco Nexus 7010 Switch, page D-3](#)

Prerequisites for Repacking the System

You must power down and disconnect the system from the network before you begin removing the switch from the rack or cabinet.

Required Tools and Equipment for Repacking the System

Before you repack the Cisco Cisco Nexus 7000 Series chassis into the original shipping materials, make sure that you have the following tools and equipment:

- Mechanical lift capable of lifting 500 pounds (227 kg)
- No. 1 Phillips screwdriver with torque capability
- 3/16-inch flat-blade screwdriver
- ESD wrist strap
- Original shipping container and packing materials:
 - Two pallets (typically with the smaller pallet bolted on top of the larger pallet)
 - 4 angle brackets with 8 bolts and 16 screws
 - Polyethylene cushion
 - 2 three-segment dividers
 - 3 power supply boxes
 - 2 J-box sides
 - 1 lid
 - 6 corro clips
- Strapping

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**Caution**

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Repacking the Cisco Nexus 7010 Switch

**Caution**

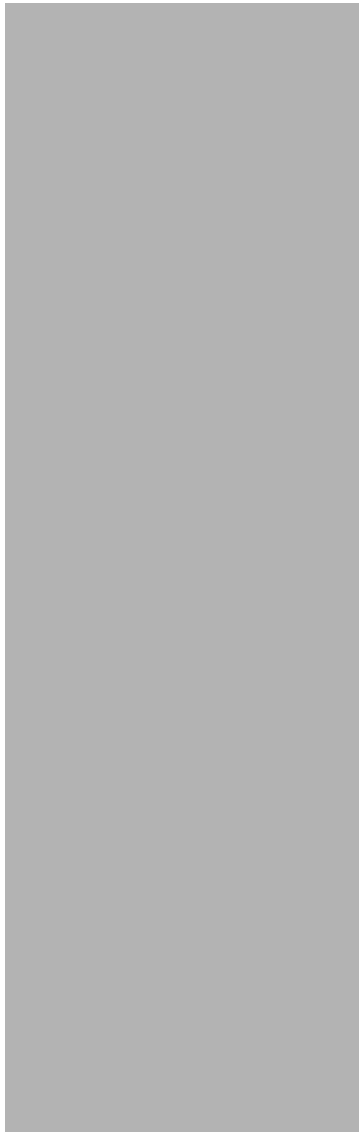
Do not subject the pallet, system, or package to water or moisture.

To repack the Cisco Nexus 7010 system, follow these steps:

- Step 1** Disconnect the system from the network and power it down as follows:
- Power down the system by turning the power switch on each power supply to STBY.
 - Remove the power cables from the AC source and power supply (6-kW power supply unit only—the power cords for the 7.5-kW power supply unit cannot be separated from the power supply unit).
 - Disconnect the cables that attach the Management and CMP processors on each supervisor module to a console.
 - Disconnect the I/O cables from the I/O modules.
- Step 2** If the chassis includes an optional air filter, remove it as follows:
- On the lower left side and right side of the air filter, loosen the captive screw (one on each side) until it no longer connects with the chassis.
 - On the upper left side and right side of the air filter, simultaneously pull out the two spring pins (one on each side) and then pull the air filter away from the EMI frame and chassis.
- Step 3** If the chassis includes the optional midframe doors, remove the doors and their frames as follows:
- Remove the EMI panel, which holds the lower side frame pieces, by loosening the four captive screws on the EMI frame until they no longer connect with the chassis.
 - Remove each of the two side frames from the EMI panel by loosening and removing the two screws that hold each side frame piece to the EMI panel.
 - Reattach the EMI panel to the chassis by placing the EMI panel over the air intake area and aligning its captive screws to their holes in the chassis. Securely tighten each of the captive screws.
 - Remove each of the two front doors by loosening and removing the four screws that hold each door frame to the chassis.
 - Remove the bottom frame by loosening and removing the three screws on the frame.
- Step 4** Remove each power supply unit as follows:
- Set out the power supply box and packaging materials.
 - Make sure that the power supply switch is set to standby (STBY).
 - Loosen the four captive screws on the front of the power supply unit until each screw is no longer in contact with the chassis.
 - Grasp the power supply handle and pull the power supply unit part way out of the chassis.

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- e. Place your other hand underneath the power supply unit to support its weight and then remove the power supply unit from the chassis.
- f. Place the power supply in its packing bag.
- g. Place the bagged power supply unit in its cardboard holder. See [Figure D-1](#).

Figure D-1 ***Packing a Power Supply Unit***

1	Power supply box	2	Packing cushions
3	Cardboard holder	4	Power supply unit

- h. Insert each end of the power supply unit and its holder in a packing cushion.
- i. Open the power supply box, and insert the power supply unit and its packing materials.

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j. Close the box and tape its flaps shut.

Step 5 Disconnect each system ground by loosening and removing the two M4 screws that attach the grounding cable to the chassis, and disconnect the other end of the grounding cable. Place the grounding lug and screws (not the cable) in the accessories box.

Step 6 Loosen and remove the 6 screws that hold each side of the chassis (12 screws total) to the vertical mounting rails on the rack or cabinet.

Step 7 Position a mechanical lift in front of the chassis and raise its platform to the bottom of the chassis (or no more than 0.25 inches (0.6 cm) below the bottom of the chassis), so that you can push the chassis onto the lift platform.



Caution You must use a mechanical lift when lifting anything weighing over 120 pounds (55 kg).

Step 8 Lay the original shipping pallet flat on the floor. This pallet includes a raised portion that is bolted to the larger pallet. Make sure that the raised portion is on top.



Caution You need four persons for the following step.

Step 9 Use at least four persons to push the chassis onto the mechanical lift.



Caution Be sure to push the chassis only on its frame. Do not push on any of its modules or use the handles on any modules—these handles are used only for removing or installing these modules. Do not use the handles on the side of the chassis to move or lift the chassis (the handles are not rated for lifting over 200 pounds [91 kg]). The chassis handles are only for adjusting the position of the chassis in the rack or cabinet.

Step 10 After you securely position the chassis on the mechanical lift, use the mechanical lift to move the chassis to its pallet.

Step 11 Lower the chassis to the level of the pallet or no more than 0.25 inches (0.6 cm) above the pallet.



Caution You need four persons for the following step.

Step 12 Use at least four persons to push the chassis onto the raised portion of the pallet. Position the chassis so that it is 4 inches (10.2 cm) away from the side of the common edge of the pallet and its raised portion.

Step 13 Attach two angle brackets to the raised portion of the pallet between the chassis and the pallet edge. Do not tighten the screws that hold these brackets to the pallet—you will need to adjust their placement after you place the chassis on the pallet. See [Figure D-2](#).

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Figure D-2 ***Attaching the Chassis to the Shipping Pallet***



1	Lower pallet	2	Raised portion of the pallet
3	Mounting brackets (two shown and two hidden on the other side of the chassis)	4	Bolts holding brackets to the upper pallet
5	Screws holding the chassis to the brackets		

- Step 14** Align the screw holes in the side of the chassis with the screw holes in the vertical sides of the two angle brackets. Fasten the two angle brackets to the chassis by securely tightening the four screws for each bracket. See [Figure D-2](#).
- Step 15** Attach two more angle brackets to the pallet on the other side of the chassis. Make sure that the four screw holes on the vertical side of each bracket align with four holes in the chassis.
- Step 16** Use four screws to securely attach each of the additional two brackets to the chassis.
- Step 17** Securely fasten the two bolts on each of the four angle brackets to the pallet.
- Step 18** Place the packing bag over the chassis.

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Step 19 Place the chassis packing cushion on top of the bagged chassis as shown in View A in [Figure D-3](#).

Figure D-3 *Packing the System Components*



1	Polyethylene cushion	2	Three-segment divider
3	Power supply boxes	4	Three-segment divider
5	Two J-box halves	6	Corrugated cardboard lid
7	Corro clips	8	Edge protectors
9	Packing straps		

Step 20 Place the larger of the two three-segment dividers beside the chassis as shown in View A in [Figure D-3](#).

Step 21 Place the three power supply boxes (if you have only two power supply units for this chassis, one of the power supply boxes is empty) in the empty area beside the chassis as shown in View B in [Figure D-3](#).

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- Step 22** Place the smaller three-segment divider in the empty area above the power supply boxes as shown in View B in [Figure D-3](#).
- Step 23** Remove each of the two bottom-support rails from the rack or cabinet by loosening the six screws that secure it to the vertical mounting rails on the rack or cabinet.
- Step 24** Reassemble the accessory kit by placing the following components in the accessory kit box:
- Bottom-support rails (two) and mounting screws (20)
 - Console connector cables and adapters
 - Ground lugs (do not include the ground cable) and mounting screws (two per lug)
 - Power cables (one or two for each power supply)
- Step 25** Place the accessory kit box on top of the cushion that is located on top of the chassis.
- Step 26** If your system included the optional midframe doors or air filter, pack those items in their original shipping boxes and place the boxes on top of the power supply boxes.
- Step 27** Place one J-box half on the bottom pallet along two sides of the pallet as shown in View B of [Figure D-3](#).
- Step 28** Place the other J-box half on the other two sides as shown in View B of [Figure D-3](#).
- Step 29** Connect the two J-box pieces with six corro clips (three on each seam) as shown in View B of [Figure D-3](#).
- Step 30** Place the corrugated cardboard lid on top of the package as shown in View B of [Figure D-3](#).
- Step 31** Place each of the four edge protectors on one of the top edges of the lid. See View C of [Figure D-3](#).
- Step 32** Secure the package to the pallet using at least seven packing straps (three in one direction and four in the other direction) as shown in View C of [Figure D-3](#).
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