



Remove and Replace Cisco NCS 1000 Breakout Patch Panel and Modules

This chapter describes the tasks to replace Cisco NCS 1000 Breakout Patch Panel and Cisco NCS 1000 Breakout Modules.



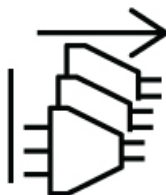
Note In this chapter, "breakout panel" refers to the "Cisco NCS 1000 Breakout Patch Panel". "breakout modules" refer to the "Cisco NCS 1000 Breakout Modules".



Caution Always populate the modular slots in the Cisco NCS 1010 chassis with respective modules (line card, controller, PSU, and fan trays). Perform the replacement or upgrade of the modules (Online Insertion or Removal (OIR)) only when the ambient temperature is below 30 degree Celsius. Complete the OIR of modules within five minutes to prevent overheating of the components.



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. Statement 1028.



Warning Only trained and qualified personnel should be allowed to install, replace, or service this equipment. Statement 1030.



Warning There are no serviceable parts inside. To avoid risk of electric shock, do not open. Statement 1073.



Warning An instructed person is someone who has been instructed and trained by a skilled person and takes the necessary precautions when working with equipment. Statement 1089.

A skilled person or qualified personnel is someone who has training or experience in the equipment technology and understands potential hazards when working with equipment. Statement 1089.



Warning Only a skilled person should be allowed to install, replace, or service this equipment. See statement 1089 for the definition of a skilled person. Statement 1090.



Warning Only an instructed person or skilled person should be allowed to install, replace, or service this equipment. See statement 1089 for the definition of an instructed or skilled person. Statement 1091.



Note The maximum operating altitude for OIR is 1800 m.

⚠ WARNING: DO NOT INTRODUCE BODY OR OBJECT IN THE CHASSIS / PSU / FAN TRAY/LC SLOTS WHEN INSTALLING OR REMOVING A MODULE. EXPOSED CIRCUITRY IS AN ENERGY HAZARD.

⚠ ATTENTION: ÉVITEZ TOUT CONTACT ENTRE VOTRE CORPS OU UN OBJET EXTERNE ET L'INTÉRIEUR DU CHÂSSIS, DU BLOC D'ALIMENTATION, LA FENTE DE VENTILATION DU PLATEAU, OU DE LA FENTE PDS LORSQUE VOUS INSTALLEZ OU RETIREZ UN MODULE. LES CIRCUITS EXPOSÉS CONSTITUENT UN RISQUE D'ÉLECTROCUTION.

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- [Remove and Replace Breakout Panel Plastic Cover, on page 2](#)
- [Remove and Replace NCS 1000 Breakout Module, on page 3](#)
- [Remove and Replace Cisco NCS 1000 Breakout Patch Panel, on page 3](#)

Remove and Replace Breakout Panel Plastic Cover

This task describes the steps for removing the plastic cover from the breakout panel.

Procedure

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- Step 1** Loosen the six captive screws in the plastic cover.
- Step 2** Pull the plastic cover away from the breakout panel to remove the plastic cover.
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What to do next

- [Install Breakout Panel Plastic Cover](#)

Remove and Replace NCS 1000 Breakout Module

This task describes the steps for removing a breakout module in the rack.

Before you begin

Uninstall the Plastic Cover. See [Remove and Replace Breakout Panel Plastic Cover, on page 2](#).

Procedure

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- Step 1** Remove the LC cables from the LC adapter ports in the breakout module.
- Note** Keep the LC cables in a safe place to protect the cables from damage and dust.
- Step 2** Remove the MPO cables from the MPO adapter port (COM).
- Note** Keep the MPO cables in a safe place to protect the cables from damage and dust.
- Step 3** Disconnect the inventory USB 2.0 cable in the USB receptacle (INV) for the breakout module to replace.
- Step 4** Loosen the captive screws of the breakout module.
- Step 5** Extract the breakout module from the breakout panel.
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What to do next

- [Install the NCS 1000 Breakout Modules](#)

Remove and Replace Cisco NCS 1000 Breakout Patch Panel

This task describes the steps for removing the breakout panel in the rack.

Before you begin

- Remove the USB 3.0 cable connector plug.
- Uninstall Breakout Modules. See [Remove and Replace NCS 1000 Breakout Module, on page 3](#).

Procedure

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- Step 1** Loosen the screws of the breakout panel in the ETSI and 23-inch adapter brackets.
- Note** For the 19-inch rack, you can loosen the breakout panel screws from the ANSI 19-inch rack.

Step 2 Support the top and bottom of the breakout panel with your hand to extract the breakout panel.

What to do next

- [Install the NCS 1000 Breakout Patch Panel](#)