

Preparing for Installation

Before installing the Catalyst 3000, read this chapter carefully.

This chapter covers the following topics:

- Safety Recommendations
- Site Requirements
- Unpacking and Inspecting

Safety Recommendations

Follow these guidelines to ensure general safety:

- Keep the chassis area clear and dust-free during and after installation.
- Keep tools away from walk areas where you and others could trip over them.
- Do not wear loose clothing that could get caught in the chassis. Fasten your tie or scarf and roll up your sleeves.
- Wear safety glasses when working under any conditions that might be hazardous to your eyes.
- Do not perform any action that creates a potential hazard to people or makes the equipment unsafe.

Safety Recommendations

Safety with Electricity

Follow these warnings when working on equipment powered by electricity.



Warning Do not work on the system or connect or disconnect cables during periods of lightning activity.



Warning Do not touch the power supply when the power cord is connected. For systems with a power switch, line voltages are present within the power supply even when the power switch is off and the power cord is connected. For systems without a power switch, line voltages are present within the power supply when the power cord is connected.



Warning Read the installation instructions before you connect the system to its power source.



Warning This product relies on the building's installation for short-circuit (overcurrent) protection. Ensure that a fuse or circuit breaker no larger than 120 VAC, 15A U.S. (240 VAC, 10A international) is used on the phase conductors (all current-carrying conductors).



Warning This unit might have more than one power cord. To reduce the risk of electric shock, disconnect the two power supply cords before servicing the unit.



Warning This equipment has been designed for connection to TN and IT power systems.

Follow these guidelines when working on equipment powered by electricity.

- Locate the emergency power-off switch for the room in which you are working. Then, if an electrical accident occurs, you can act quickly to turn OFF the power.
- Before working on the system, unplug the power cord.
- Disconnect all power, by unplugging the unit from the source, before doing the following:
 - Installing or removing a chassis
 - Working near power supplies
 - Performing a hardware upgrade
- Do not work alone if potentially hazardous conditions exist.
- Never assume that power is disconnected from a circuit. Always check.
- Look carefully for possible hazards in your work area, such as moist floors, ungrounded power extension cables, and missing safety grounds.
- If an electrical accident occurs, proceed as follows:
 - Use caution; do not become a victim yourself.
 - Unplug the power cord.
 - If possible, send another person to get medical aid. Otherwise, assess the condition of the victim and then call for help.
 - Determine if the person needs rescue breathing or external cardiac compressions; then take appropriate action.

Site Requirements

Preventing Electrostatic Discharge Damage

Electrostatic discharge (ESD) can damage equipment and impair electrical circuitry. It occurs when electronic components are improperly handled and can result in complete or intermittent failures. Always follow ESD-prevention procedures when removing and replacing components. Ensure that the chassis is electrically connected to earth ground using an ESD mat or a ground wire. Wear an ESD-preventive wrist strap, ensuring that it makes good skin contact. To safely channel unwanted ESD voltages to ground, connect the clip to an unpainted surface of the chassis frame. To properly guard against ESD damage and shocks, the wrist strap and cord must operate effectively. If no wrist strap is available, ground yourself by touching the metal part of the chassis.



Caution For safety, periodically check the resistance value of the antistatic strap, which should be between 1 and 10 megohms.

Site Requirements

The following sections describe the site requirements for installation.

Environment

Choose a clean, dust-free, (preferably) air-conditioned location. Avoid direct sunlight, heat sources, or areas with high levels of EMI (Electro-Magnetic Interference).

Chassis Accessibility

Make sure the front and rear panel of the equipment is accessible so that you can monitor the LED indicators and access the control switches. Leaving enough clearance at the front and rear will also allow easier cabling and service.

Cooling and Airflow

Two fans, which are located at the side of the switch, cool the interior by drawing air through vents on the other side and forcing heated air out through holes on the fan side. If the internal temperature exceeds 122 F (50 C), a temperature error is reported to the console.



Warning To prevent the switch from overheating, do not operate it in an area that exceeds the maximum recommended ambient temperature of 104 F (40 C). To prevent airflow restriction, allow at least 3 inches (7.6 cm) of clearance around the ventilation openings.

Power

The source electrical outlet should be installed near the switch, be easily accessible, and be properly grounded. Power should come from a building branch circuit. Use a maximum breaker current rating of 20A for 110V or 8A for 230V. To avoid an overload, note the power consumption ratings of the all the equipment connected to the circuit breaker before applying power.



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Warning This product relies on the building's installation for short-circuit (overcurrent) protection. Ensure that a fuse or circuit breaker no larger than 120 VAC, 15A U.S. (240 VAC, 10A international) is used on the phase conductors (all current-carrying conductors).



Warning The device is designed to work with TN power systems.

Unpacking and Inspecting



Warning Unplug the power cord before you work on a system that does not have an on/off switch.



Warning This equipment is intended to be grounded. Ensure that the host is connected to earth ground during normal use.



Warning When installing the unit, the ground connection must always be made first and disconnected last.



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

Unpacking and Inspecting

Upon receipt, examine all shipping containers and contents for damage. If any damage has occurred, notify the shipping carrier. Unpack the unit by removing the packing material and lifting it from its protective enclosures. Visually examine the equipment and check the container for related parts and accessories. You should have the following items:

- The Catalyst 3000 or the Catalyst Matrix
- This publication, *Catalyst 3000 Installation and Configuration Guide*
- AC power cord(s) (Domestic and Canadian shipments only)
- Rack-mount bracket kit
 - 2 L-shaped mounting brackets
 - 4 M4 x 8mm screws
- Warranty package

Fill out the warranty registration sheet and mail or fax it to Cisco Systems, Inc., today. Report any missing parts and any damage not related to shipping to your customer service representative.

Note Keep the packing materials for future use. *All components returned under warranty should be shipped in their original packing materials.*

If you have received your equipment before your site is fully prepared, after inspection, you should keep all of the components in the original shipping containers and store them in a physically and environmentally safe place.

When you are ready to begin the installation, please refer to Chapter 4, “Installation,” for important instructions and directions.

Unpacking and Inspecting
