

# Preparing for Installation

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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 with Electricity

Follow these guidelines when working on equipment powered by electricity.



**Warning** Before working on equipment that is connected to power lines, remove jewelry (including rings, necklaces, bracelets and watches). Metal objects will heat up when connected to power and ground and can cause serious burns or weld the metal object to the terminals. To turn OFF power you must disconnect the power cord; there is no on/off switch.

- 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.

## 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 megohm.

# Site Requirements

Following are 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 rear of the switch, cool the interior by drawing air through vents on the sides and forcing heated air out through holes in the rear. If the internal temperature exceeds 122 F (50 C), a temperature error is reported to the console.



**Caution** To protect the equipment 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, you must allow at least 3 inches (7.6 centimeters) of clearance around chassis openings for proper airflow.

## 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 all the equipment connected to the circuit breaker before applying power.

## 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:

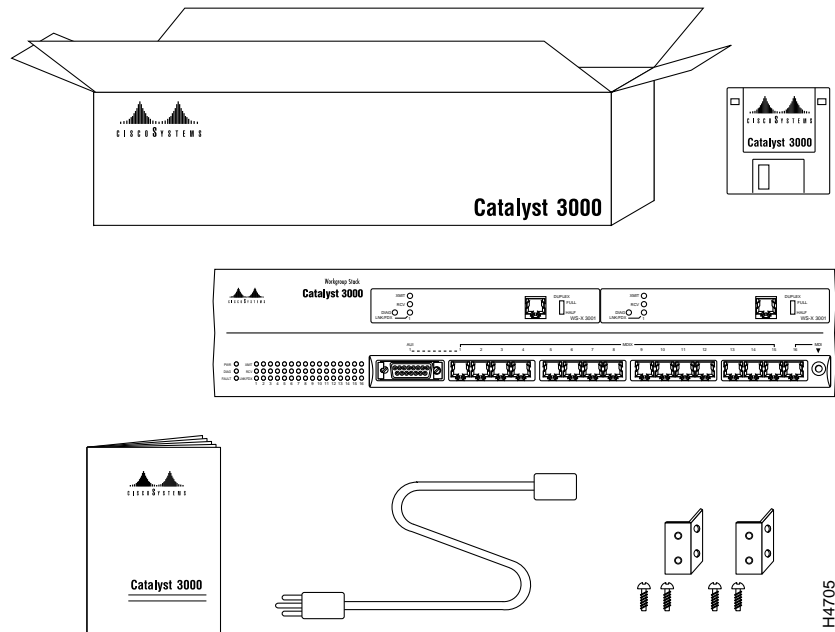
- The Catalyst 3000 or the Catalyst Matrix
- This publication, *Catalyst 3000 and Catalyst Stack User Guide*
- AC power cord (Domestic and Canadian shipments only)
- Rack-mount bracket kit
  - 2 L-shaped mounting brackets
  - 4 M4 x 8mm screws
- MIB diskette
- Warranty package

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.

## Unpacking and Inspecting

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**Figure 4-1** Cisco Shipping Container With Catalyst 3000 and Accessories



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

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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 the next Chapter 5, “Installation” for important instructions and directions.