



## Preparing for Installation

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This chapter describes the safety instructions and site requirements for installing Cisco Secure ACS Solution Engine (ACS SE) 4.0, and guides you through installation preparation. It contains the following sections:

- [Introduction](#), page 2-1
  - [Preparing Your Site for Installation](#), page 2-5
  - [Precautions for Rack-Mounting](#), page 2-8
  - [Required Tools and Equipment](#), page 2-9

## Safety

This section provides safety information for installing this product.

## Warnings and Cautions

Failure to read and follow these guidelines could lead to an unsuccessful installation, and possibly damage the system and components.

You should observe the following safety guidelines when working with any equipment that connects to electrical power or telephone wiring. They can help you avoid injuring yourself or damaging the ACS SE.



**Note**

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*Regulatory Compliance and Safety Information for the Cisco Secure ACS Solution Engine.*

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**Warning**

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### **IMPORTANT SAFETY INSTRUCTIONS**

**This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical**

circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device. Statement 1071

### SAVE THESE INSTRUCTIONS



**Warning**

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



**Warning**

**The device is designed to work with TN power systems.** Statement 19



Statement 246



**Do not work on the system or connect or disconnect cables during periods of lightning activity.** Statement 1001



**Warning**

**This product relies on the building's installation for short-circuit (overcurrent) protection. Ensure that the protective device is rated not greater than: 120 VAC, 15A (U.S./CAN); 240 VAC, 10A (INTERNATIONAL)** Statement 1005



**Warning**

**To prevent bodily injury when mounting or servicing this unit in a rack, you must take special precautions to ensure that the system remains stable. The following guidelines are provided to ensure your safety:**

- This unit should be mounted at the bottom of the rack if it is the only unit in the rack.
- When mounting this unit in a partially filled rack, load the rack from the bottom to the top with the heaviest component at the bottom of the rack.
- If the rack is provided with stabilizing devices, install the stabilizers before mounting or servicing the unit in the rack.



**There is the danger of explosion if the battery is replaced incorrectly. Replace the battery only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.**

**Warning**

This unit is intended for installation in restricted access areas. A restricted access area can be accessed only through the use of a special tool, lock and key, or other means of security.

**Warning**

The plug-socket combination must be accessible at all times, because it serves as the main disconnecting device.

**Warning**

To avoid electric shock, do not connect safety extra-low voltage (SELV) circuits to telephone-network voltage (TNV) circuits. LAN ports contain SELV circuits, and WAN ports contain TNV circuits. Some LAN and WAN ports both use RJ-45 connectors. Use caution when connecting cables.

**Warning**

This equipment must be grounded. Never defeat the ground conductor or operate the equipment in the absence of a suitably installed ground conductor. Contact the appropriate electrical inspection authority or an electrician if you are uncertain that suitable grounding is available.

**Warning**

This unit might have more than one power supply connection. All connections must be removed to de-energize the unit. Statement 1028

**Warning**

Blank faceplates and cover panels serve three important functions: they prevent exposure to hazardous voltages and currents inside the chassis; they contain electromagnetic interference (EMI) that might disrupt other equipment; and they direct the flow of cooling air through the chassis. Do not operate the system unless all cards, faceplates, front covers, and rear covers are in place. Statement 1029

**Warning**

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



Statement 1040



Statement 1074

## General Precautions

Observe the following general precautions when using and working with your system:

- Keep your system components away from radiators and heat sources, and do not block cooling vents.

Do not spill food or liquids on your system components, and never operate the product in a wet environment. If the computer gets wet, see the appropriate chapter in your troubleshooting guide or contact the Cisco Technical Assistance Center. For instructions on contacting the Technical Assistance Center, see [Obtaining Technical Assistance, page xxi](#), in the Preface.

Do not push any objects into the openings of your system components. Doing so can cause fire or electric shock by shorting out interior components.

Position system cables and power cables carefully; route system cables and the power cable and plug so that no one will step on or trip over them. Be certain that nothing rests on your system components' cables or power cable.

Do not modify power cables or plugs. Consult a licensed electrician or your power company for site modifications. Always follow your local and national wiring regulations.

To help avoid possible damage to the system board, wait 5 seconds after turning off the system before removing a component from the system board or disconnecting a peripheral device from the computer.

## Maintaining Safety with Electricity

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Use the correct external power source. Operate the product only from the type of power source indicated on the electrical ratings label. If you are not certain of the type of power source required, consult the Cisco Technical Assistance Center or a local power company.

Use only approved power cable(s). You have been provided with a power cable for your ACS SE that is intended for your system (approved for use in your country, based on the shipping location). Should you have to purchase a power cable, ensure that it is rated for the product and for the voltage and current marked on the product's electrical ratings label. The voltage and current rating of the cable should be greater than the ratings marked on the product.

To help prevent electric shock, plug the ACS SE, components, and peripheral power cables into properly grounded electrical outlets. These cables are equipped with three-prong plugs to help ensure proper grounding. Do not use adapter plugs or remove the grounding prong from a cable.

Observe power strip ratings. Ensure that the total ampere rating of all products plugged into the power strip does not exceed 80% of the rating.

To help protect your system and components from sudden, transient increases and decreases in electrical power, use a surge suppressor, line conditioner, or uninterruptable power supply (UPS).

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## Protecting Against Electrostatic Discharge

- When unpacking a static-sensitive component from its shipping carton, do not remove the component from the antistatic packing material until you are ready to install the component in your computer. Just before unwrapping the antistatic packaging, ensure that you discharge static electricity from your body.

When transporting a sensitive component, first place it in an antistatic container or packaging. Handle all sensitive components in a static-safe area. If possible, use antistatic floor pads and workbench pads.

## Preventing EMI



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electrical hazard by conducting power surges through lines and into the system.

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To predict and remedy strong EMI, consult RFI experts.

## Preparing Your Site for Installation

## Environmental

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### Choosing a Site for Installation



**Warning**

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**This unit is intended for installation in restricted access areas. A restricted access area is where access can only be gained by service personnel through the use of a special tool, lock and key, or other means of security, and is controlled by the authority responsible for the location.**

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10° to 35°C (50° to 95°F)

### Grounding the System



**Warning**

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**Never defeat the ground conductor or operate the equipment in the absence of a suitably installed ground conductor. Contact the appropriate electrical inspection authority or an electrician if you are uncertain that suitable grounding is available.**

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### Creating a Safe Environment

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# AC Power

[Appendix A, “Technical Specifications](#)

for the Quanta (1112) Version.”



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# Cabling

## Precautions for Rack-Mounting



To prevent bodily injury when mounting or servicing this unit in a rack, you must take special precautions to ensure that the system remains stable. The following guidelines are provided to ensure your safety:



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## Precautions for Products with Modems, Telecommunications, or Local Area Network Options

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- Never connect or use a modem or telephone in a wet environment.
- Do not plug a modem or telephone cable into the Ethernet connector.
- Disconnect the modem cable before opening a product enclosure, touching or installing internal components, or touching an uninsulated modem cable or jack.
- Do not use a telephone line to report a gas leak while you are in the vicinity of the leak.

## Required Tools and Equipment

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