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Document Objectives

This guide describes how to perform installation and maintenance procedures on the Cisco ASA 5500 Series Adaptive Security Appliances. The information in this guide applies to the following Cisco ASA 5500 Series Adaptive Security Appliance models: Cisco ASA 5510, Cisco ASA 5520, Cisco ASA 5540, and Cisco ASA 5550. In this guide, references to "Cisco ASA 5500 Series Adaptive Security Appliance" and "adaptive security appliance" apply to all models unless specifically noted otherwise.

Audience

This guide is for network administrators who perform any of the following tasks:

- Managing network security
- Installing and configuring firewalls
- Managing default and static routes, and TCP and UDP services

Document Organization

This guide includes the following chapters and appendices:

- [Chapter 1, "Overview"](#) describes the product and the memory requirements.
- [Chapter 2, "Preparing for Installation,"](#) describes the steps to follow before installing new hardware or performing hardware upgrades.

- [Chapter 3, “Installing the Adaptive Security Appliance,”](#) describes how to install the chassis on the wall or rack and how to connect the interface cables on the adaptive security appliance.
- [Chapter 4, “Maintenance and Upgrade Procedures,”](#) describes how to remove and replace the chassis cover, the lithium battery in the SSM, the power supply, the CompactFlash, and the SSMs.
- [Appendix 1, “Cable Pinouts,”](#) describes the cable pinouts.

Document Conventions

Command descriptions use these conventions:

- Braces ({ }) indicate a required choice.
- Square brackets ([]) indicate optional elements.
- Vertical bars (|) separate alternative, mutually exclusive elements.
- **Boldface** indicates commands and keywords that are entered literally as shown.
- *Italics* indicate arguments for which you supply values.

Examples use these conventions:

- Examples depict screen displays and the command line in *screen* font.
- Information you need to enter in examples is shown in **boldface screen** font.
- Variables for which you must supply a value are shown in *italic screen* font.

Graphical user interface examples uses these conventions:

- **Boldface** indicates buttons and menu items.
- Selecting a menu item (or pane) is indicated by the following convention:
Choose **Start > Settings > Control Panel**.



Note

Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the manual.

Installation Warnings

Be sure to read the *Regulatory Compliance and Safety Information for the Cisco ASA 5500 Series* document that accompanied this device before installing the chassis. This document contains important safety information. This section includes the following warnings:

- [Power Supply Disconnection Warning, page 5](#)
- [Jewelry Removal Warning, page 5](#)
- [Wrist Strap Warning, page 5](#)
- [Work During Lightning Activity Warning, page 5](#)
- [Installation Instructions Warning, page 5](#)
- [Chassis Warning for Rack-Mounting and Servicing, page 6](#)
- [Short-Circuit Protection Warning, page 6](#)
- [SELV Circuit Warning, page 6](#)

- [Ground Conductor Warning, page 6](#)
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- [Short-Circuit Protection Warning, page 7](#)
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- [Grounded Equipment Warning, page 8](#)
- [Safety Cover Requirement, page 8](#)
- [Faceplates and Cover Panel Requirement, page 8](#)

Power Supply Disconnection Warning



Warning

Before working on a chassis or working near power supplies, unplug the power cord on AC units; disconnect the power at the circuit breaker on DC units. Statement 12

Jewelry Removal Warning



Warning

Before working on equipment that is connected to power lines, remove jewelry (including rings, necklaces, 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. Statement 43

Wrist Strap Warning



Warning

During this procedure, wear grounding wrist straps to avoid ESD damage to the card. Do not directly touch the backplane with your hand or any metal tool, or you could shock yourself. Statement 94

Work During Lightning Activity Warning



Warning

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

Installation Instructions Warning



Warning

Read the installation instructions before connecting the system to the power source. Statement 1004

Chassis Warning for Rack-Mounting and Servicing



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. Statement 1006

Short-Circuit Protection Warning



Warning

This product requires short-circuit (overcurrent) protection, to be provided as part of the building installation. Install only in accordance with national and local wiring regulations. Statement 1045

SELV Circuit Warning



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. Statement 1021

Ground Conductor Warning



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. Statement 1024

Blank Faceplates and Cover Panels Warning



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

Product Disposal Warning



Warning

Ultimate disposal of this product should be handled according to all national laws and regulations. Statement 1040

Short-Circuit Protection Warning



Warning

This product requires short-circuit (overcurrent) protection, to be provided as part of the building installation. Install only in accordance with national and local wiring regulations. Statement 1045

Compliance with Local and National Electrical Codes Warning



Warning

Installation of the equipment must comply with local and national electrical codes. Statement 1074

DC Power Connection Warning



Warning

After wiring the DC power supply, remove the tape from the circuit breaker switch handle and reinstate power by moving the handle of the circuit breaker to the ON position. Statement 8

AC Power Disconnection Warning



Warning

Before working on a chassis or working near power supplies, unplug the power cord on AC units. Statement 246

TN Power Warning



Warning

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

48 VDC Power System



Warning

The customer 48 volt power system must provide reinforced insulation between the primary AC power and the 48 VDC output. Statement 128

Multiple Power Cord



Warning

This unit has more than one power cord. To reduce the risk of electric shock when servicing a unit, disconnect the power cord of the power strip that the unit is plugged into. Statement 137

Circuit Breaker (15A) Warning



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). Statement 13

Grounded Equipment Warning



Warning

This equipment is intended to be grounded. Ensure that the host is connected to earth ground during normal use. Statement 39

Safety Cover Requirement



Warning

The safety cover is an integral part of the product. Do not operate the unit without the safety cover installed. Operating the unit without the cover in place will invalidate the safety approvals and pose a risk of fire and electrical hazards. Statement 117

Faceplates and Cover Panel Requirement



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 142

Where to Find Safety and Warning Information

For safety and warning information, see the *Regulatory Compliance and Safety Information for the Cisco ASA 5500 Series* document that accompanied the product. This document describes the international agency compliance and safety information for the Cisco ASA 5500 Series Adaptive Security Appliance. It also includes translations of the safety warnings.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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