



## About This Guide

---

This preface includes the following sections:

- [Document Objectives, page v](#)
- [Audience, page v](#)
- [Document Organization, page v](#)
- [Document Conventions, page vi](#)
- [Installation Warnings, page vi](#)
- [Obtaining Documentation and Submitting a Service Request, page x](#)

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

- [Ground Conductor Warning](#), page viii
- [Blank Faceplates and Cover Panels Warning](#), page viii
- [Product Disposal Warning](#), page viii
- [Short-Circuit Protection Warning](#), page ix
- [Compliance with Local and National Electrical Codes Warning](#), page ix
- [DC Power Connection Warning](#), page ix
- [AC Power Disconnection Warning](#), page ix
- [TN Power Warning](#), page ix
- [48 VDC Power System](#), page ix
- [Multiple Power Cord](#), page ix
- [Circuit Breaker \(15A\) Warning](#), page ix
- [Grounded Equipment Warning](#), page x
- [Safety Cover Requirement](#), page x
- [Faceplates and Cover Panel Requirement](#), page x

### 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>

Subscribe to the *What's New in Cisco Product Documentation* as a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS Version 2.0.