



Installing the ASA 5500 Adaptive Security Appliance



Warning

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



Caution

Read the safety warnings in the *Regulatory Compliance and Safety Information for the Cisco ASA 5500 Series* and follow proper safety procedures when performing these steps.

This chapter describes the product overview, memory requirements and rack-mount and installation procedures for the adaptive security appliance. This chapter includes the following topics:

- [Verifying the Package Contents, page 2-2](#)
- [Installing the Chassis, page 2-3](#)
- [Ports and LEDs, page 2-6](#)



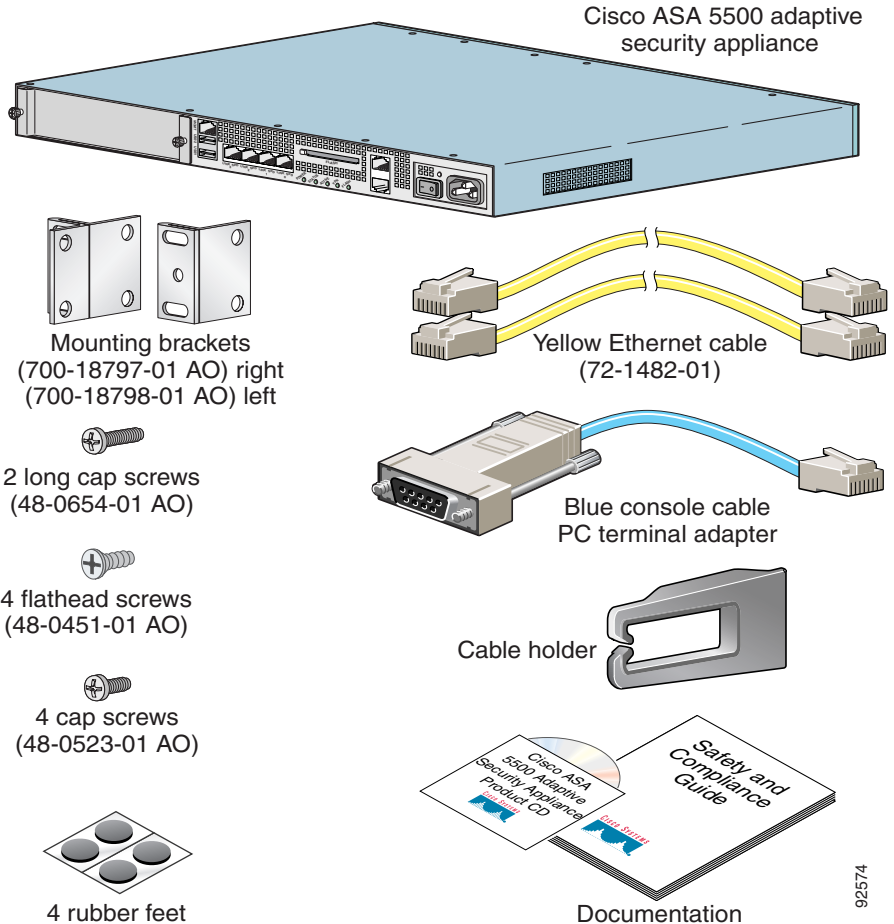
Note

The illustrations in this document show the Cisco ASA 5540 adaptive security appliance. The Cisco ASA 5510 adaptive security appliance and Cisco ASA 5520 adaptive security appliance are identical, containing the same back panel features and indicators.

Verifying the Package Contents

Verify the contents of the packing box to ensure that you have received all items necessary to install your Cisco ASA 5500 series adaptive security appliance.

Figure 2-1 Contents of ASA 5500 Package



Installing the Chassis

This section describes how to rack-mount and install the adaptive security appliance. You can mount the adaptive security appliance in a 19-inch rack (with a 17.5- or 17.75-inch opening).



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.

The following information can help plan equipment rack installation:

- Allow clearance around the rack for maintenance.
- When mounting a device in an enclosed rack ensure adequate ventilation. An enclosed rack should never be overcrowded. Make sure that the rack is not congested, because each unit generates heat.
- When mounting a device in an open rack, make sure that the rack frame does not block the intake or exhaust ports.
- If the rack contains only one unit, mount the unit at the bottom of the rack.
- If the rack is partially filled, load the rack from the bottom to the top, with the heaviest component at the bottom of the rack.
- If the rack contains stabilizing devices, install the stabilizers prior to mounting or servicing the unit in the rack.



Warning

Before performing any of the following procedures, ensure that power is removed from the DC circuit. To ensure that all power is OFF, locate the circuit breaker on the panel board that services the DC circuit, switch the circuit breaker to the OFF position, and tape the switch handle of the circuit breaker in the OFF position.

Rack-Mounting the Chassis

To rack-mount the chassis, perform the following steps:



Note

You can use the mounting brackets to mount the chassis to the front or the back of the rack, with the front panel or the rear panel of the chassis facing outward.

Step 1

Attach the rack-mount brackets to the chassis using the supplied screws. Attach the brackets to the holes as shown in [Figure 2-2](#) and [Figure 2-3](#). After the brackets are secured to the chassis, you can rack-mount it.

Figure 2-2 Installing the Left Bracket on the Rear Panel of the Chassis

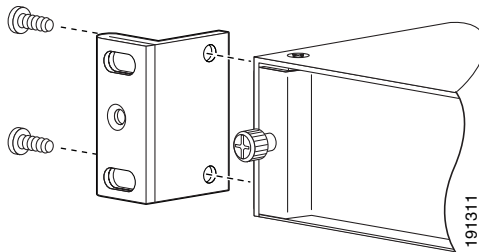
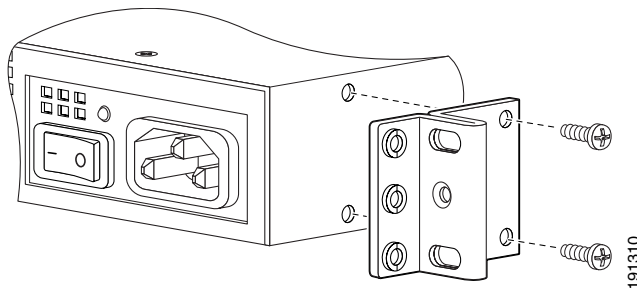


Figure 2-3 Installing the Right Bracket on the Rear Panel of the Chassis



Step 2 Attach the chassis to the rack using the supplied screws, as shown in [Figure 2-4](#).

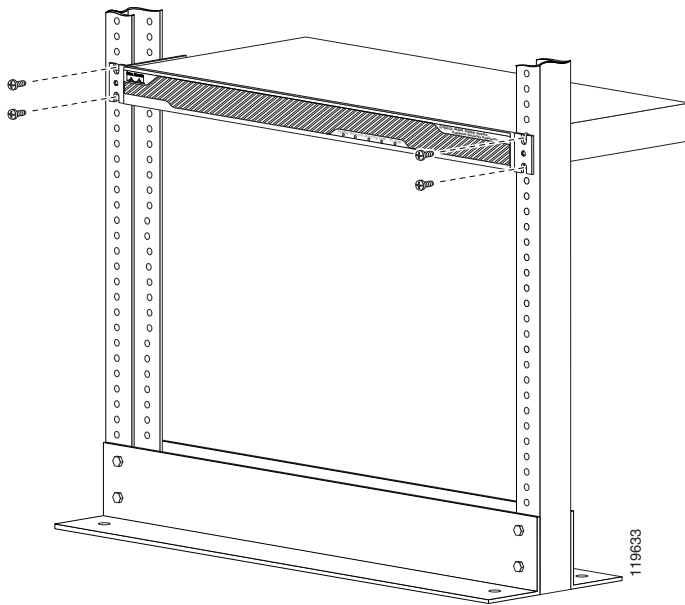
Figure 2-4 Rack-Mounting the Chassis**Note**

Figure 2-2 and Figure 2-3 show the rack mounting brackets attached to the rear of the chassis while Figure 2-4 shows the rack mounting brackets attached to the front of the chassis. You can attach the mounting brackets to the front or the rear of the chassis so that you can have the front panel or the rear panel of the chassis facing outward.

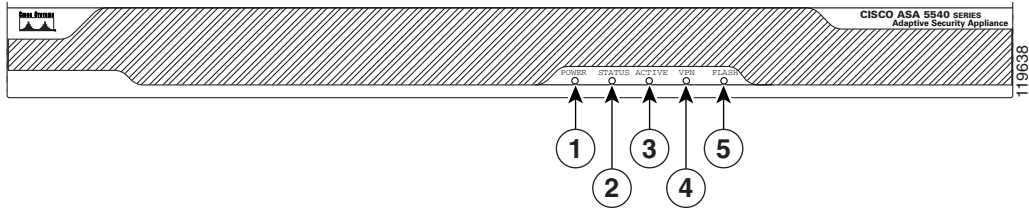
Figure 2-2 and Figure 2-3 show the brackets attached to the rear so you can see how that configuration appears while Figure 2-4 shows the brackets attached to the front so that you can see how that configuration appears. In Step 1 and Step 2, you will choose to have either the brackets rear mounted or front mounted but not both.

To remove the chassis from the rack, remove the screws that attach the chassis to the rack, and then remove the chassis.

Ports and LEDs

This section describes the front and rear panels. [Figure 2-5](#) shows the front panel LEDs.

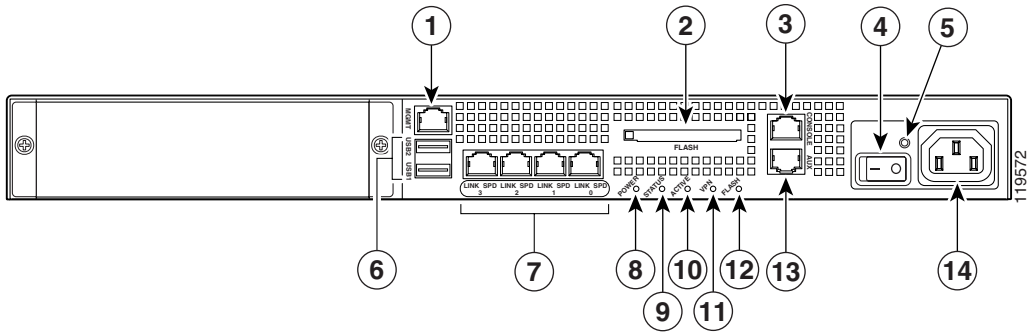
Figure 2-5 Front Panel LEDs



	LED	Color	State	Description
1	Power	Green	On	The system has power.
2	Status	Green	Flashing	The power-up diagnostics are running or the system is booting.
			Solid	The system has passed power-up diagnostics.
			Amber	Solid
3	Active	Green	Solid	This is the active failover device.
			Amber	Solid
4	VPN	Green	Solid	VPN tunnel is established.
5	Flash	Green	Solid	The CompactFlash is being accessed.

Figure 2-6 shows the rear panel features for the adaptive security appliance.

Figure 2-6 Rear Panel LEDs and Ports (AC Power Supply Model Shown)



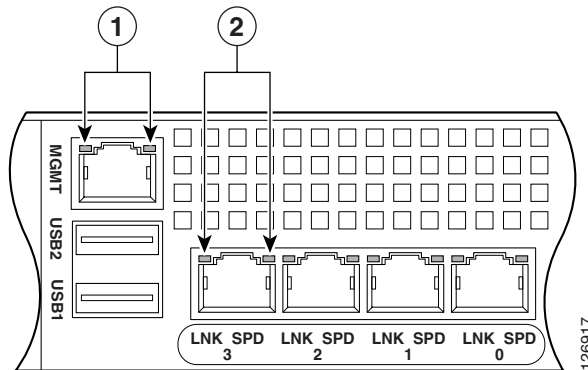
1	Management Port ¹	6	USB 2.0 interfaces ²	11	VPN LED
2	External CompactFlash slot	7	Network interfaces ³	12	Flash LED
3	Serial Console port	8	Power indicator LED	13	AUX port
4	Power switch	9	Status indicator LED	14	Power connector
5	Power indicator LED	10	Active LED		

1. The management 0/0 interface is a Fast Ethernet interface designed for management traffic only.
2. Not supported at this time.
3. GigabitEthernet interfaces, from right to left, GigabitEthernet 0/0, GigabitEthernet 0/1, GigabitEthernet 0/2, and GigabitEthernet 0/3.

For more information on the Management Port, see the “[Management-Only](#)” section in the *Cisco Security Appliance Command Reference*.

Figure 2-7 shows the adaptive security appliance rear panel LEDs.

Figure 2-7 Rear Panel Link and Speed Indicator LEDs



1	MGMT indicator LEDs	2	Network interface LEDs
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Table 2-1 lists the rear MGMT and Network interface LEDs.

Table 2-1 Link and Speed LEDs

Indicator	Color	Description
Left side	Solid green	Physical link
	Green flashing	Network activity
Right side	Not lit	10 Mbps
	Green	100 Mbps
	Amber	1000 Mbps



Note

The ASA 5510 adaptive security appliance only supports 10/100BaseTX if you do not have the Security Plus license. If you have purchased the Security Plus license, Gigabit Ethernet is supported and the ASA 5510 adaptive security appliance supports 10/100/1000. The ASA 5520 adaptive security appliance and the ASA 5540 adaptive security appliance support 1000BaseT.

What to Do Next

Continue with one of the following chapters:

To Do This ...	See ...
Install SSMs you purchased but that have not yet been installed	Chapter 3, “Installing Optional SSMs”
Continue with connecting interface cables	Chapter 4, “Connecting Interface Cables”

