



CHAPTER 8

Installing AIP-SSM



Note

The number of concurrent CLI sessions is limited based on the platform. IDS-4215 and NM-CIDS are limited to three concurrent CLI sessions. All other platforms allow ten concurrent sessions.

This chapter describes how to install AIP-SSM. It contains the following sections:

- [Specifications, page 8-1](#)
- [Memory Specifications, page 8-2](#)
- [Hardware and Software Requirements, page 8-2](#)
- [Indicators, page 8-2](#)
- [Installation and Removal Instructions, page 8-3](#)

Specifications

Table 8-1 lists the specifications for AIP-SSM.

Table 8-1 AIP-SSM Specifications

Specification	Description
Dimensions (H x W x D)	1.70 x 6.80 x 11.00 inches
Weight (SSM-10 and SSM-20)	Minimum: 2.50 lb Maximum: 3.00 lb ¹
Weight (SSM-40)	2.57 lb (1169 g)
Temperature	Operating +32° to +104°F (+0° to +40°C) Nonoperating -13 to 158°F (-25 to 70°C)
Shock	Operating 1.14 m/sec (45 in./sec) ½ sine input Nonoperating 30 G
Humidity	5% to 95%, noncondensing
Altitude	Operating 0 to 9840 ft (3000 m) ² Nonoperating 0 to 15,000 ft (4570 m)
Vibration	0.41 Grms ² (3 to 500 Hz) random input

1. 2.70 lb for 45 c heatsink, approximately 3.00 lb for the 55c maximum.

2. Agency approved for 2000 m.

Memory Specifications

Table 8-2 lists the memory specifications for AIP-SSM.

Table 8-2 AIP-SSM Memory Specifications

Model	CPU	DRAM
ASA-SSM-AIP-10-K9	2.0 GHz Celeron	1.0 GB
ASA-SSM-AIP-20-K9	2.4 GHz Pentium 4	2.0 GB
ASA-SSM-AIP-40-K9	2.0 GHz Intel Xeon LV	4.0 GB

Hardware and Software Requirements

AIP-SSM has the following hardware and software requirements:

- Cisco ASA 5500 series adaptive security appliance
 - ASA 5510 (ASA-SSM-AIP-10-K9)
 - ASA 5520 (ASA-SSM-AIP-10-K9 and ASA-SSM-AIP-20-K9, and ASA-SSM-AIP-40-K9)
 - ASA 5540 (ASA-SSM-AIP-20-K9 and ASA-SSM-AIP-40-K9)
- Cisco Adaptive Security Appliance Software
 - 7.0 or later (ASA-SSM-AIP-10-K9 and ASA-SSM-AIP-20-K9)
 - 8.0.3.6 or later (ASA-SSM-AIP-40-K9)
- Cisco Intrusion Prevention System Software
 - 5.0(2) or later (ASA-SSM-AIP-10-K9 and ASA-SSM-AIP-20-K9)
 - 6.0(4) or later (ASA-SSM-AIP-40-K9)
- DES or 3DES-enabled

Indicators

Figure 8-1 shows the AIP-SSM-10 and AIP-SSM-20 indicators.

Figure 8-1 AIP-SSM-10 and AIP-SSM-20 Indicators

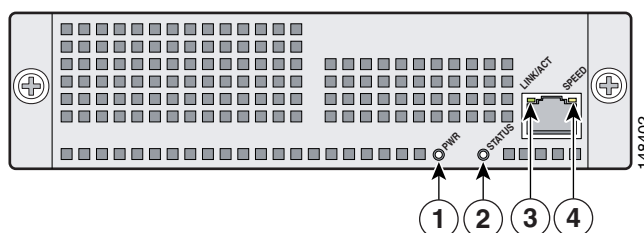


Table 8-3 describes the AIP-SSM-10 and AIP-SSM-20 indicators.

Table 8-3 AIP-SSM-10 and AIP-SSM-20 Indicators

	LED	Color	State	Description
1	PWR	Green	On	The system has power.
2	STATUS	Green	Flashing Solid	The system is booting. The system has passed power-up diagnostics.
3	LINK/ACT	Green	Solid Flashing	There is Ethernet link. There is Ethernet activity.
4	SPEED	Green Amber	100 MB 1000 MB (GigabitEthernet)	There is network activity. There is network activity.

Figure 8-2 shows the AIP-SSM-40 indicators.

Figure 8-2 AIP-SSM-40 Indicators

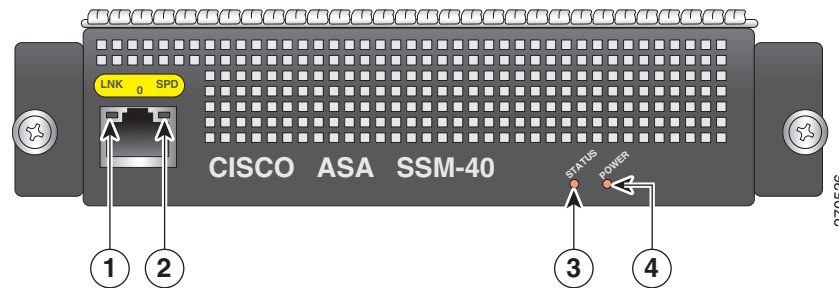


Table 8-4 describes the AIP-SSM-40 indicators.

Table 8-4 AIP-SSM-40 Indicators

	LED	Color	State	Description
1	LINK	Green	Solid Flashing	There is Ethernet link. There is Ethernet activity.
2	SPEED	Green Amber	100 MB 1000 MB (GigabitEthernet)	There is network activity. There is network activity.
3	STATUS	Green	Flashing Solid	The system is booting. The system has passed power-up diagnostics.
4	PWR	Green	On	The system has power.

Installation and Removal Instructions

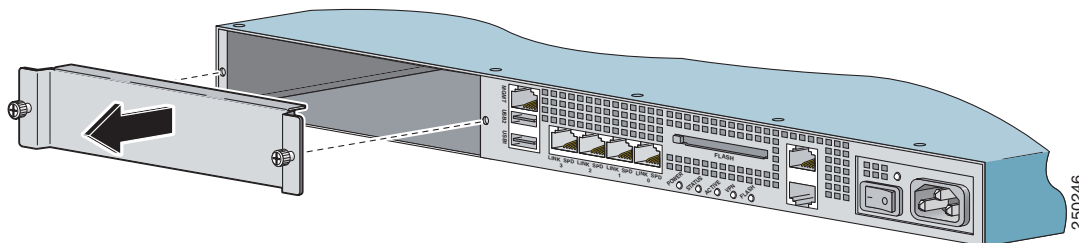
This section describes how to install and remove AIP-SSM, and contains the following topics:

- [Installing AIP-SSM, page 8-4](#)
- [Verifying the Status of AIP-SSM, page 8-5](#)
- [Removing AIP-SSM, page 8-6](#)

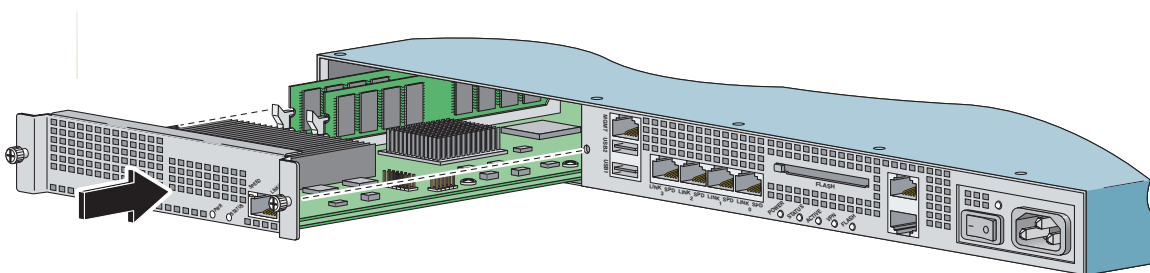
Installing AIP-SSM

To install AIP-SSM, follow these steps:

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- Step 1** Power off the adaptive security appliance.
 - Step 2** Locate the grounding strap from the accessory kit and fasten it to your wrist so that it contacts your bare skin. Attach the other end to the chassis.
 - Step 3** Remove the two screws at the left back end of the chassis, and remove the slot cover.



- Step 4** Insert AIP-SSM through the slot opening.



- Step 5** Attach the screws to secure AIP-SSM to the chassis.
 - Step 6** Power on the adaptive security appliance by pushing the power switch at the back of the chassis.
 - Step 7** Check the indicators.
If AIP-SSM is properly installed, the POWER indicator is solid green and the STATUS indicator is flashing green. You can also verify that AIP-SSM is online using the **show module** command.
 - Step 8** Initialize AIP-SSM.
 - Step 9** Install the most recent Cisco IPS software.
 - Step 10** Configure AIP-SSM to receive IPS traffic.
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For More Information

- For more information on working in ESD-controlled environments, see [Working in an ESD Environment, page 1-33](#).
- For the procedure for verifying whether AIP-SSM is properly installed, see [Verifying the Status of AIP-SSM, page 8-5](#).
- For the procedure for using the **setup** command to initialize AIP-SSM, see [Initializing AIP-SSM, page 11-25](#).

- For the procedure on how to obtain the latest IPS software, see [Obtaining Cisco IPS Software, page 13-1](#).
- For the procedure for configuring AIP-SSM to receive IPS traffic, refer to [Configuring AIP-SSM](#).
- For the procedure for using HTTPS to log in to IDM, refer to [Logging In to IDM](#).
- For the procedures for configuring intrusion prevention on your sensor, refer to the following documents:
 - [Installing and Using Cisco Intrusion Prevention System Device Manager 6.0](#)
 - [Configuring the Cisco Intrusion Prevention System Sensor Using the Command Line Interface 6.0](#)

Verifying the Status of AIP-SSM

You can use the **show module 1** command to verify that AIP-SSM is up and running.

To verify the status of AIP-SSM, follow these steps:

Step 1 Log in to the adaptive security appliance.

Step 2 Verify the status of AIP-SSM:

```
asa# show module 1
Mod Card Type                               Model                               Serial No.
-----
  1 ASA 5500 Series Security Services Module-20 ASA-SSM-20                P2B000005D0

Mod MAC Address Range                       Hw Version   Fw Version   Sw Version
-----
  1 000b.fcf8.0144 to 000b.fcf8.0144  0.2          1.0(9)0      5.0(0.27)S129.0

Mod Status
-----
  1 Up
asa#
```

If the status reads `Up`, AIP-SSM has been properly installed.

The following values are valid for the Status field:

- `Initializing`—AIP-SSM is being detected and the control communication is being initialized by the system.
- `Up`—AIP-SSM has completed initialization by the system.
- `Unresponsive`—The system encountered an error communicating with AIP-SSM.
- `Reloading`—AIP-SSM is reloading.
- `Shutting Down`—AIP-SSM is shutting down.
- `Down`—AIP-SSM is shut down.
- `Recover`—AIP-SSM is attempting to download a recovery image.

Removing AIP-SSM

To remove AIP-SSM, follow these steps:

Step 1 Shut down AIP-SSM:

```
asa# hw-module module 1 shutdown
Shutdown module in slot 1? [confirm]
```

Step 2 Press **Enter** to confirm.

Step 3 Verify if AIP-SSM is down by checking the indicators.

Step 4 Power off the adaptive security appliance.

Step 5 Locate the grounding strap from the accessory kit and fasten it to your wrist so that it contacts your bare skin. Attach the other end to the chassis.

Step 6 Remove the two screws at the left back end of the chassis, and remove the slot cover.

Step 7 Remove AIP-SSM and set it aside.

Step 8 If you need to replace the existing AIP-SSM, insert the new AIP-SSM through the slot opening.



Note Do not replace AIP-SSM with a different model. The adaptive security appliance will not recognize it.

Step 9 Attach the screws to secure AIP-SSM to the chassis.

Step 10 Power on the adaptive security appliance.

Step 11 Reset AIP-SSM:

```
hostname# hw-module module 1 reset
Reset module in slot 1? [confirm]
```

Step 12 Press **Enter** to confirm.

Step 13 Check the indicators to see if AIP-SSM is properly installed.

If AIP-SSM is properly installed, the POWER indicator is solid green and the STATUS indicator is flashing green. Or you can verify installation using the **show module** command.

For More Information

- For more information on working in ESD-controlled environments, see [Working in an ESD Environment, page 1-33](#).
- For the procedure for verifying whether AIP-SSM is properly installed, see [Verifying the Status of AIP-SSM, page 8-5](#).