

Cisco Firepower 1100 Series Hardware Installation Guide

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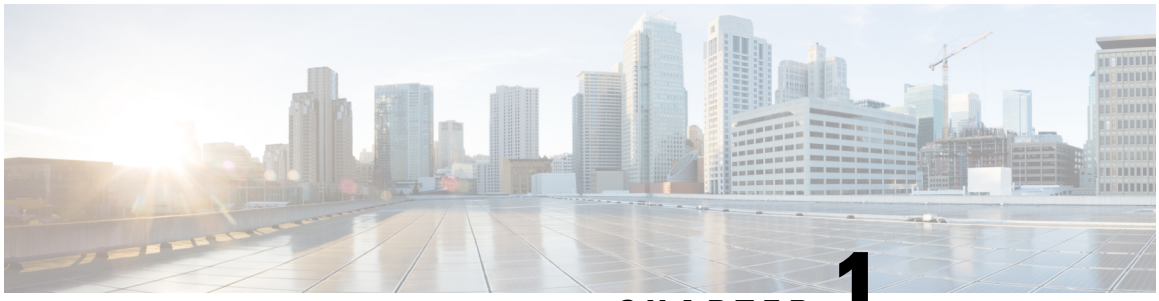
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CHAPTER 1

Overview

- Features, on page 1
- Package contents, on page 3
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Features

The Cisco Firepower 1100 series security appliances are a standalone modular security services platform. They are capable of running multiple security services simultaneously and so are targeted at the data center as a multiservice platform. The Firepower 1100 series supports Cisco Secure Firewall Threat Defense and Cisco Secure Firewall ASA software.

The following figure shows the Cisco Firepower 1100 series chassis.

Figure 1: Cisco Firepower 1100 series



The following table lists the features for the Firepower 1100.

Table 1: Firepower 1120, 1140, and 1150 features

Feature	1120	1140	1150
Form factor	1 RU		
Mounting	Rack mount 4-post Electronic Industries Association (EIA)-310-D rack		
Airflow	I/O side to non-I/O side Rear panel to front panel (cold aisle to hot aisle)		
Memory	16-GB DDR4 DRAM		32-GB DDR4 DRAM
Management port	One Gigabit Ethernet RJ-45 10/100/1000 BaseT Restricted to network management access only		
Console ports	One RJ-45 or one USB Mini B Provides management access through an external system		
USB port	One USB 3.0 Type A Allows attachment of an external device such as mass storage		
Network ports	Eight Gigabit Ethernet RJ-45 10/100/1000 BaseT		
Small form-factor pluggable (SFP) ports	Four fixed 1-Gbps SFP ports		Four fixed 1-Gb SFP ports **Note** Two of the SFP ports (ports 9 and 11) support 10 Gbps.
Power switch	On rear panel; rocker-type power on/off switch		
Reset button	Yes		
AC power supply	One fixed AC power supply The power supply is internal; there is no user access. The power supply is not field-replaceable; you must return the chassis to Cisco for power supply replacement.		
Redundant power	No		
Fan	One fixed fan The fan is internal; there is no user access. The fan is not field-replaceable; you must return the chassis to Cisco for fan replacement.		

Feature	1120	1140	1150
Storage	One SSD slot 200-GB 2.5-in. SATA SSD drive The drive is field-replaceable.		

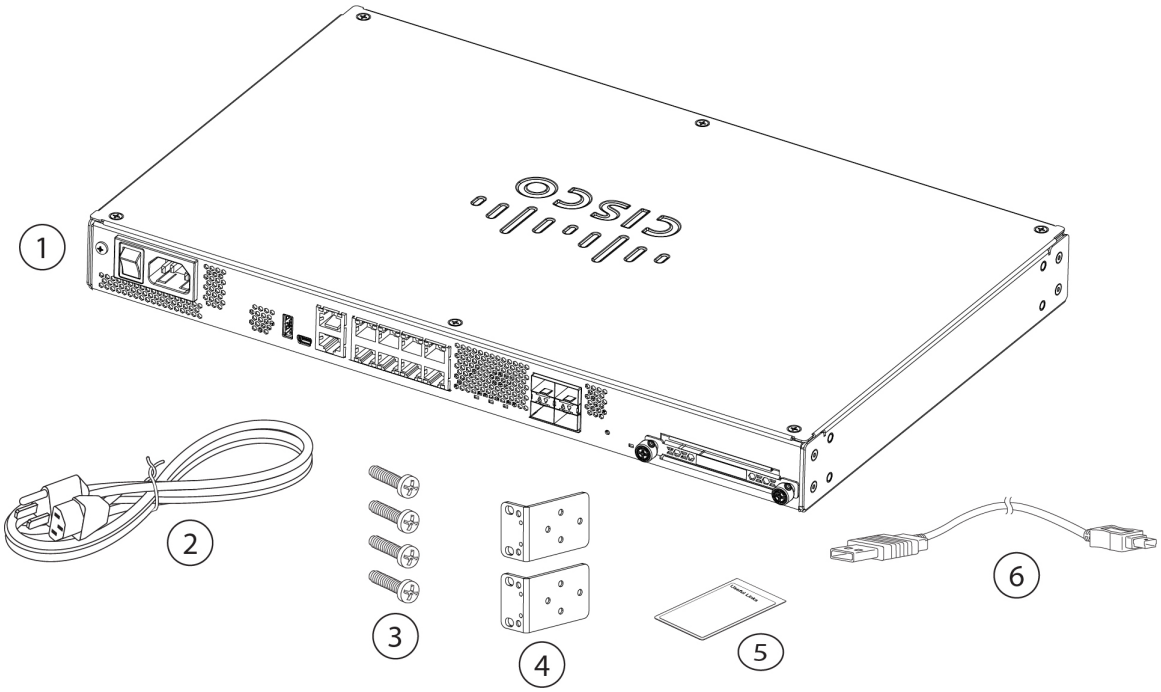
Related Topics

Supported transceivers, on page 11
Product ID Numbers, on page 14
Management, console, USB, and network ports, on page 7
Replace the SSD, on page 39
Cisco Secure Firewall Threat Defense Compatibility Guide
Cisco Secure Firewall ASA Compatibility

Package contents

The following figure shows the package contents for the Firepower 1100. Note that the contents are subject to change, and your exact contents might contain additional or fewer items.

Figure 2: Firepower 1100 package contents



1	Chassis	**2**	Country-specific power cord Optional; in package if ordered
3	Four M4 x 8-mm Phillips screws for securing the rack-mounting bracket to the chassis	**4**	Two rack-mount brackets

5	*Cisco Secure Firepower 1100* This document has links to the hardware installation guide, regulatory and safety information guide, and warranty and licensing information. It also contains a QR code and URL that point to the Digital Documentation Portal. The portal contains links to the product information page, the hardware installation guide, the regulatory and safety information guide, the getting started guide, and the zero-touch provisioning guide.	6	USB console cable (optional) Type A to Mini Type B (CAB-CONS-USB-MINI)

Related Topics

Power cord specifications, on page 15

QR code sticker

The QR code sticker on the rear panel of the chassis points to the document that explains zero-touch provisioning. Zero-touch provisioning allows anyone to connect a new Firepower 1100 to a network so that the IT department can onboard the device to Security Cloud Control and configure it remotely. Security Cloud Control supports Firewall Threat Defense version 6.7 and later.

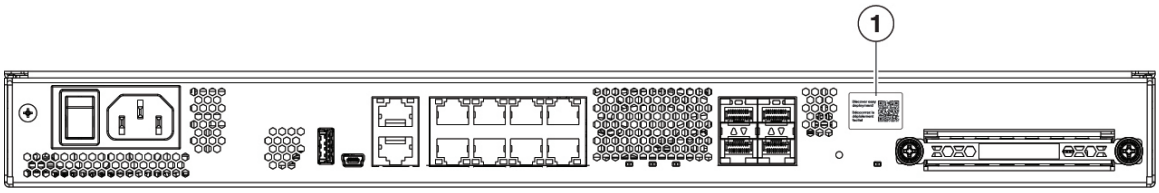
The following figure shows the QR code sticker.

Figure 3: QR code sticker



The following figure shows the placement of the QR code sticker on the rear panel of the chassis.

Figure 4: QR code sticker on the chassis



1	QR code sticker		—

Related Topics

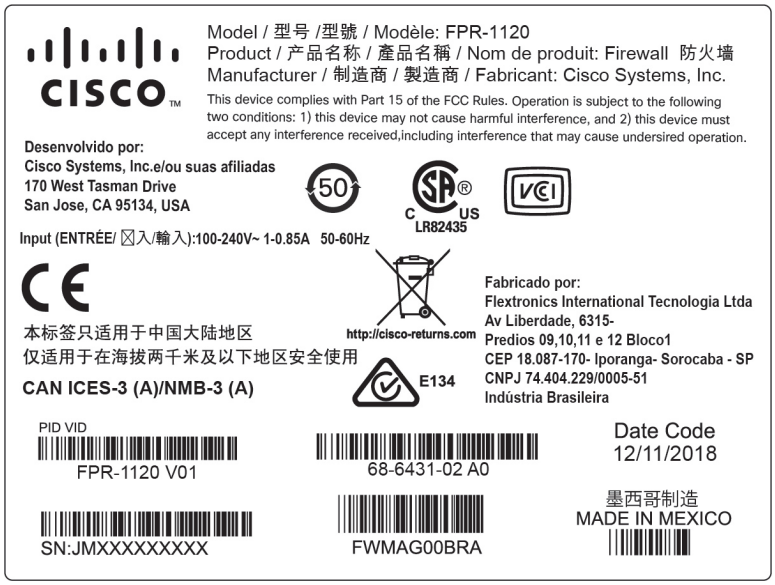
Easy Deployment Guide for Cisco Secure Firewall Threat Defense with Cisco Security Cloud Control

Serial number and compliance label

The compliance label on the bottom of the chassis contains the chassis serial number, regulatory compliance marks, and the Digital Documentation Portal QR code that points to the getting started guide, the regulatory and compliance guide, the zero-touch provisioning guide, and the hardware installation guide.

The following figure shows an example compliance label found on the bottom of the chassis.

Figure 5: Compliance label on the chassis

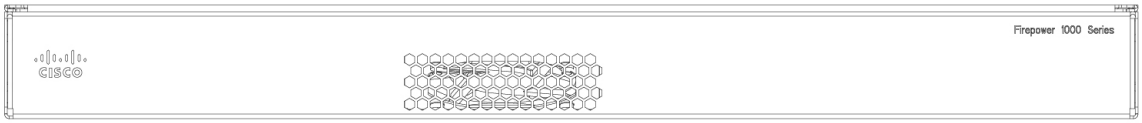


1	Chassis model number	**2**	Chassis serial number
3	Digital Documentation Portal QR code		—

Front panel

The following figure shows the front panel of the Firepower 1100. Note that there are no connectors or LEDs on the front panel.

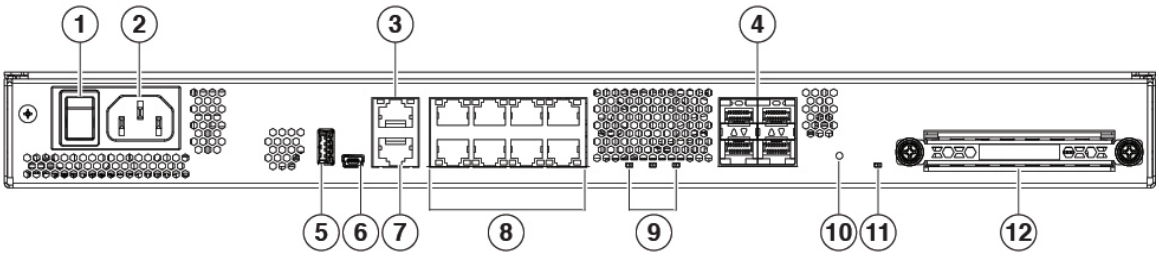
Figure 6: Firepower 1100 front panel



Rear panel

The following figure shows the rear panel of the Firepower 1100.

Figure 7: Firepower 1100 rear panel



1	Power switch **Note** The power switch provides a way to gracefully shut down the system and place it in standby. The power supply and fan remain active and the fan may continue to spin at slow speed. To achieve total power shut down, unplug the power supply from the chassis.	**2**	Power cord socket
3	Management port	**4**	SFP ports (numbered 9 through 12)
5	USB Type A port	**6**	USB Mini B console port
7	RJ-45 (8P8C) console port	**8**	Network data ports
9	Status LEDs	**10**	Reset button
11	SSD LED	**12**	SSD bay

Related Topics

Rear panel LEDs, on page 9
Features, on page 1

Management, console, USB, and network ports, on page 7

Power switch and reset button

Power switch

The power switch is a rocker-type power on/off switch located on the rear panel.

Note The power switch controls system power and operates as a soft notification switch that supports the graceful shutdown of the system. Graceful shutdown reduces the risk of system software and data corruption.

Caution If you accidentally push the power switch to ON while unpacking your chassis, make sure the power switch is set to OFF before you connect AC power for the first time. The chassis powers on and boots up as soon as the AC power is applied when the power button is in the ON position.

Reset button

The chassis has a recessed reset button on the left front panel that resets the system to the factory default. All previous configuration is erased after pressing the button down with a pin for five seconds. This resets the chassis to its default state following the next reboot.

Note Configuration variables are reset to factory default, but the flash is not erased and no files are removed.

Related Topics

Front panel LEDs

Management, console, USB, and network ports

Management port

The Firepower 1100 series has one Gigabit Ethernet RJ-45 10/100/1000 BaseT management port. It is restricted to network management access. To access the management port, connect with an RJ-45 cable.

Console ports

The chassis has two external console ports, a standard RJ-45 port and a USB Mini B serial port. Only one console port can be active at a time. When a cable is plugged into the USB console port, the RJ-45 port becomes inactive. Conversely, when the USB cable is removed from the USB port, the RJ-45 port becomes active. The console ports do not have any hardware flow control. You can use the CLI to configure the chassis through either serial console port by using a terminal server or a terminal emulation program on a computer.

Caution To avoid having the Firepower 1100 series not fully reload after a reboot, do not leave the console cable half-way disconnected. Either have the console cable connected on both ends or not connected at all.

- RJ-45 (8P8C) port—Supports RS-232 signaling to an internal UART controller. The RJ-45 console port does not support a remote dial-in modem. You can use a standard management cable (Cisco part number 72-3383-01) to convert the RJ45-to-DB9 connection if necessary.
- USB Mini B port—Lets you connect to a USB port on an external computer. For Linux and Macintosh systems, no special driver is required. For Windows systems, you must download and install a USB driver (available on software.cisco.com). You can plug and unplug the USB cable from the console port without affecting Windows HyperTerminal operations. We recommend shielded USB cables with properly terminated shields. Baud rates for the USB console port are 1200, 2400, 4800, 9600, 19200, 38400, 57600, and 115200 bps.

Note For Windows operating systems, you must install a Cisco Windows USB Console Driver on any PC connected to the console port before using the USB console port.

USB Type A port

The chassis contains a standard USB 3.0 Type A port for an external USB drive that you can use for the startup image, configuration, backup and other standard uses for flash storage.

- Supports EXT2/3/4 or VFAT/FAT32 format
- Identified as the following drive ID depending on the CLI:
  - FxOS local-mgmt—usbdrive:
  - FxOS—usbA:
  - ASA and Firewall Threat Defense—disk1:
  - ROMMON—usb:
- Output power of 5 volts, up to a maximum of 1 A (5 USB power units)

The Type A USB port does *not* support Cisco Secure Package (CSP) image upload support.

Network ports

The chassis has eight Gigabit Ethernet RJ-45 10/100/1000 BaseT ports. Each RJ-45 (8P8C) copper port supports auto Medium Dependent Interface Crossover (MDI/X) as well as auto-negotiation for interface speed, duplex, and other negotiated parameters, and are MDI/X-compliant. Port numbering is left to right, top to bottom; ports are named Gigabit Ethernet 1/1 through 1/8. Each port includes a pair of LEDs, one each for connection status and link status.

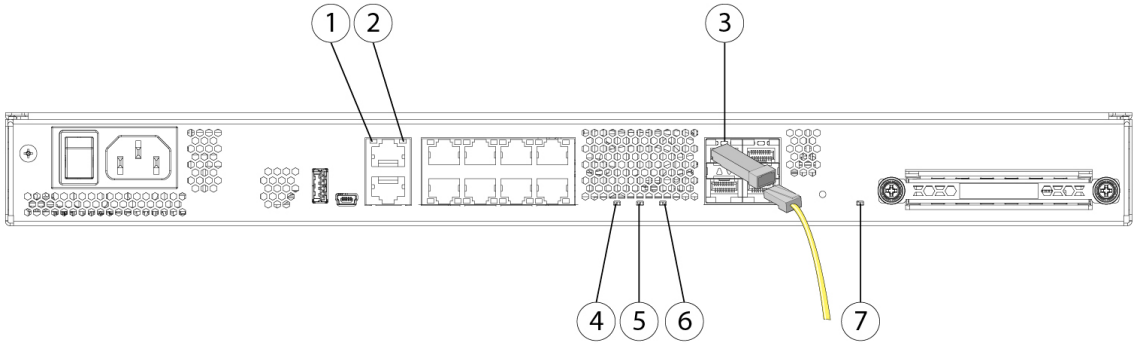
Related Topics

Connect to the console port with Microsoft Windows, on page 35

Rear panel LEDs

The following figure shows the LEDs on the rear panel of the Firepower 1100 and describes their states.

Figure 8: Firepower 1100 rear panel LEDs



1	**Network** Status of the network ports: Link status (L): • Off—No link, or port is not in use. • Green—Link established. • Green, flashing—Link activity.	**2**	**Network** Status of the network ports: Connection-speed status (S): • Green, flashing—One flash every three seconds = 10 Mbps. • Green, flashing—Two rapid flashes = 100 Mbps. • Green, flashing—Three rapid flashes = 1000 Mbps.
3	**SFP** Status of the SFP transceiver: Link status (L): • Off—No SFP. • Amber—SFP present, but no link. • Green, flashing—Link established and transmitting.	**4**	**Power** Power supply status: • Off —Power supply off. • Green—Power supply on.

5	**Status**
	System operating status:
	• Off—System has not booted up yet.
	• Green, flashing quickly—System is booting up.
	• Green—Normal system function.
	• Amber—Critical alarm indicating one or more of the following:
	  • Major failure of a hardware or software component.
	  • Over-temperature condition.
	  • Power voltage outside the tolerance range.
	• Green, flashing slowly (twice in 5 seconds)—Cloud connected.
	Note
	Security Cloud Control is valid for FTD 6.7 and later.
	• Green and amber, flashing—Cloud connection failure.
	• Green—Cloud disconnected.
	Note
	The Security Cloud Control LED pattern applies to zero-touch provisioning.
		6	**Active**
			Status of the failover pair:
			• Off— Failover is not operational.
			• Green—Failover pair operating normally. The LED is green always unless the chassis in a high availability pair.
			• Amber—When the chassis is in a high availability pair, the LED is amber for the standby unit.
			Note
			For Active-Active cases with multi-context enabled, since there will be multiple groups with Active and Standby units, any unit can be in the Active *or* Standby state in each group, thus the LED behavior is not deterministic. Therefore, you must ignore the LED status for Active-Active cases.

7	**SSD** Status of the SSD: • Off— No SSD present. • Green—SSD detected. • Green, flashing—Activity on the SSD.		—

Related Topics

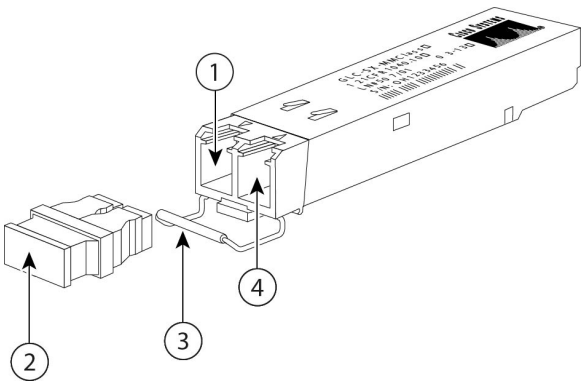
Replace the SSD, on page 39
Easy Deployment Guide for Cisco Secure Firewall Threat Defense with Cisco Security Cloud Control

Supported transceivers

The SFP transceiver is a bidirectional device with a transmitter and receiver in the same physical package. It is a hot-swappable optical or electrical (copper) interface that plugs into the SFP ports on the fixed ports and the network module ports, and provides Ethernet connectivity.

Note When using fiber-based optics, make sure that the same SFP type is used on both sides of the cable because speed is not negotiated when using SFP transceivers. This is true for both copper SFPs (the exception being that the GLC-T RJ45-based copper SFPs can negotiate speed) and fiber SFPs. If a port is configured for sfp-detect, then the software configures the port's speed to match the speed capability of the SFP. For dual-rate SFPs, when sfp-detect is configured, the port is always configured for the highest supported speed of the port. For example, a port that has a 10/25-Gbps SFP installed is configured to operate at 25 Gbps when sfp-detect is configured.

Figure 9: SFP transceiver



1	Dust plug	**2**	Bail clasp
3	Receive optical bore	**4**	Transmit optical bore

Safety warnings

Take note of the following warnings:

Warning **Statement 1055—**Class 1/1M Laser

Invisible laser radiation is present. Do not expose to users of telescopic optics. This applies to Class 1/1M laser products.



Warning **Statement 1056—**Unterminated Fiber Cable

Invisible laser radiation may be emitted from the end of the unterminated fiber cable or connector. Do not view directly with optical instruments. Viewing the laser output with certain optical instruments, for example, eye loupes, magnifiers, and microscopes, within a distance of 100 mm, may pose an eye hazard.

Warning **Statement 1057—**Hazardous Radiation Exposure

Use of controls, adjustments, or performance of procedures other than those specified may result in hazardous radiation exposure.

Warning Use appropriate ESD procedures when inserting the transceiver. Avoid touching the contacts at the rear, and keep the contacts and ports free of dust and dirt. Keep unused transceivers in the ESD packing that they were shipped in.

Caution Although non-Cisco are allowed, we do not recommend using them because they have not been tested and validated by Cisco. Cisco TAC may refuse support for any interoperability problems that result from using an untested third-party SFP transceiver.

The following table lists the SFPs that are supported on the Firepower 1120, 1140, and 1150 fixed ports.

Table 2: FPR1120, FPR1140, and FPR1150 fixed ports

Port type	Transceiver PID	First supported release
Fixed SFP ports	• GLC-TE • GLC-SX-MMD • GLC-LH-SMD • GLC-EX-SMD • GLC-ZX-SMD	Threat Defense 6.4/ASA 9.15

The following table lists the SFPs that are supported on the Firepower 1150 fixed ports.

Table 3: FPR1150 fixed ports

Port type	Transceiver PID	First supported release
Fixed SFP ports	• SFP-10G-SR • SFP-10G-SR-S • SFP-10G-LR • SFP-10G-LR-S • SFP-10G-ER • SFP-10G-ER-S • SFP-H10GB-CUxM • SFP-H10GB-ACUxM • SFP-10G-AOCxM	Threat Defense 6.4/ASA 9.15

Related Topics

Cisco SFP Modules for Gigabit Ethernet Applications Data Sheet

Hardware specifications

The following table contains hardware specifications for the Firepower 1100.

Table 4: Hardware specifications

Specification	1120	1140	1150
Dimensions (H x W x D)	1.72 x 10.58 x 17.2 inches (4.37 x 26.87 x 43.69 cm)		
Weight	8 lb (3.63 kg)		
Temperature	Operating: 32 to 104°F (0 to 40°C) Derate the maximum operating temperature 1.5°C per 1000 ft above sea level. Nonoperating: -13 to 158°F (-25 to 70°C) maximum altitude is 40,000 ft		
Humidity	Operating: 90% Nonoperating: 10 to 90%		
Altitude	Operating: 0 to 3,000 (0 to 9843 m) Nonoperating: 0 to 15,000 ft (0 to 4570 m)		

Specification	1120	1140	1150
Acoustic noise	56.8 dBa (sound pressure) at maximum fan speed at 40C 31.7 dBa at room temperature	56.8 dBa (sound pressure) at maximum fan speed at 40C 34.2 dBa at room temperature	

Product ID Numbers

The following table lists the field-replaceable PIDs associated with the Firepower 1100. The spare components are ones that you can order and replace yourself. If any internal components fail, you must get a return material authorization (RMA) for the entire chassis.



Note Use the **show inventory** command to display a list of the PIDs for your Firepower 1100.

Table 5: Firepower 1100 series PIDs

PID	Description
FPR1120-NGFW-K9	Cisco Firepower 1120 NGFW appliance
FPR1140-NGFW-K9	Cisco Firepower 1140 NGFW appliance
FPR1150-NGFW-K9	Cisco Firepower 1150 NGFW appliance
FPR1K-RM-SSD200	Cisco Firepower 1100 200-GB drive
FPR1K-RM-SSD200=	Cisco Firepower 1100 200-GB drive (spare)
FPR1K-CBL-MGMT	Cisco Firepower 1100 cable-management brackets
FPR1K-CBL-MGMT=	Cisco Firepower 1100 cable-management brackets (spare)
FPR1K-RM-ACY-KIT	Cisco Firepower 1100 accessory kit
FPR1K-RM-BRKT=	Cisco Firepower 1100 rack-mount brackets (spare)
FPR1K-RM-FIPS-KIT	Cisco Firepower 1100 FIPS kit

Related Topics

Cisco Returns Portal
Cisco Secure Firewall Threat Defense Compatibility Guide
Cisco Secure Firewall ASA Compatibility

Power cord specifications

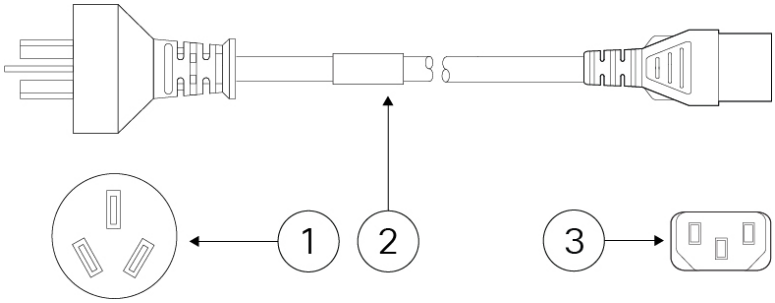
Each power supply has a separate power cord. Standard power cords or jumper power cords are available for connection to the security appliance. The jumper power cords for use in racks are available as an optional alternative to the standard power cords.

If you do not order the optional power cord with the system, you are responsible for selecting the appropriate power cord for the product. Using a incompatible power cord with this product may result in electrical safety hazard.

Note Only the approved power cords or jumper power cords provided with the chassis are supported.

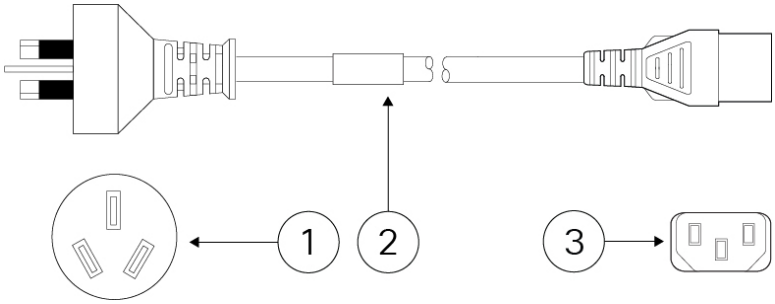
The following power cords are supported.

Figure 10: Argentina (CAB-ACR)



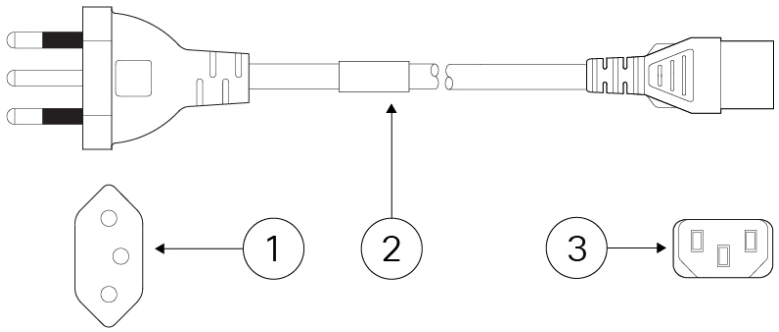
1	Plug: VA2073	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 11: Australia/New Zealand (CAB-ACA)



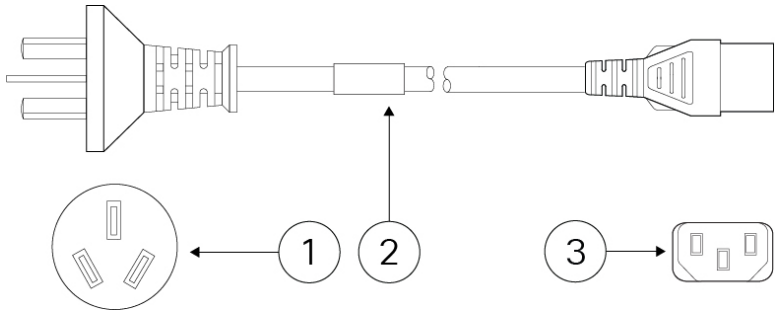
1	Plug: AU10LS3	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 12: Brazil (CAB-C13-ACB)



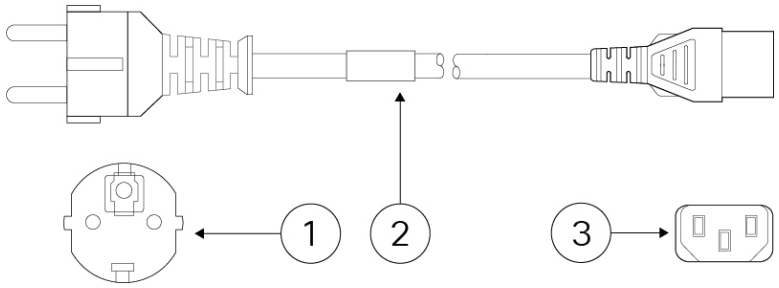
1	Plug: NBR 14136	**2**	Cord set rating: 10 A, 250 V
3	Connector: EL 701B (EN 60320/C13)		—

Figure 13: China (CAB-ACC)



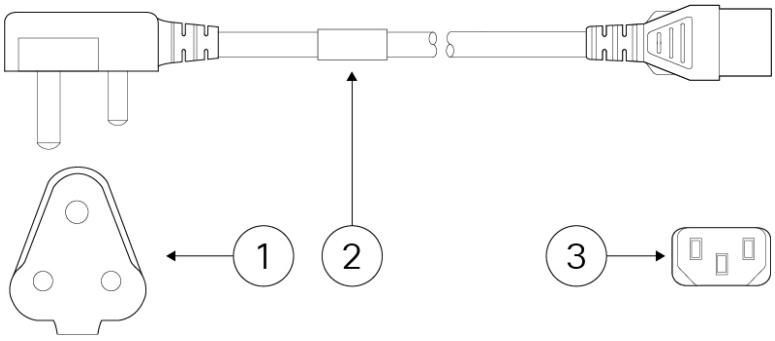
1	Plug: V3203C	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 14: Europe (CAB-ACE)



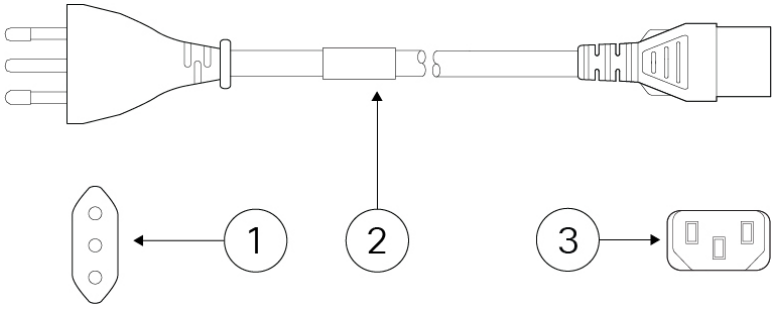
1	Plug: M2511	**2**	Cord set rating: 16 A, 250 V
3	Connector: V1625		—

Figure 15: India (CAB-IND-10A)



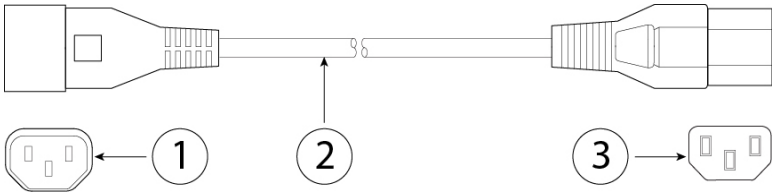
1	Plug: IA16A3-C	**2**	Cord set rating: 16 A, 250 V
3	Connector: V1625BS-E		—

Figure 16: Italy (CAB-ACI)



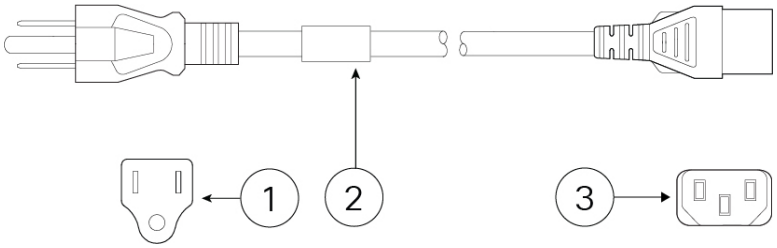
1	Plug: IT10S3	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 17: Japan (CAB-C13-C14-2M-JP) PSE mark



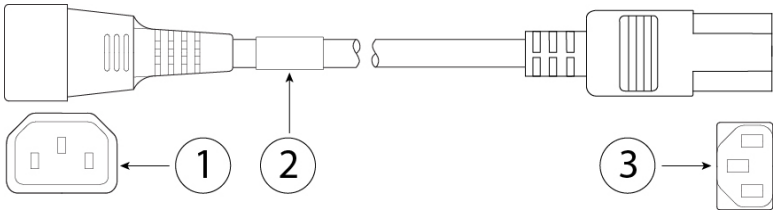
1	IEC 60320-2-2/E	**2**	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C13		Cord length: 2 m

Figure 18: Japan (CAB-JPN-3PIN)



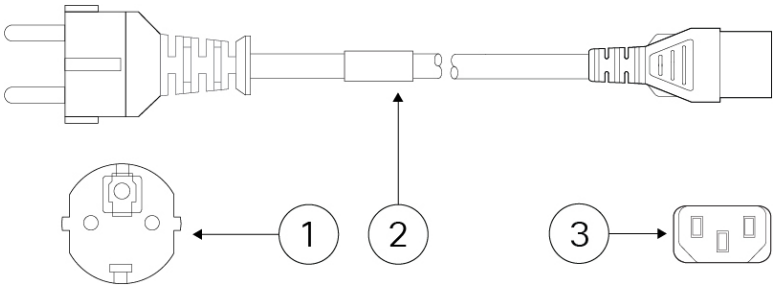
1	Plug: M744	**2**	Cord set rating: 12 A, 125 V
3	Connector: V1625		—

Figure 19: Jumper (CAB-C13-C14-2M)



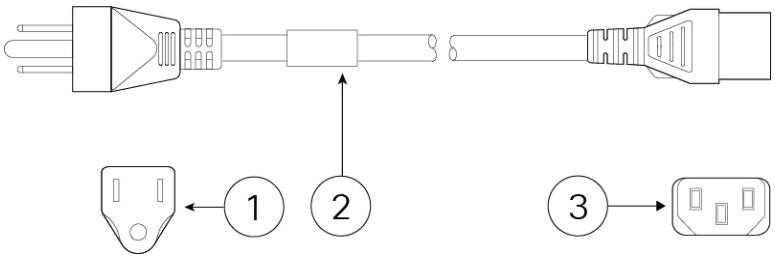
1	IEC 60320/C14G	**2**	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C13		Cord length: 2.5 m

Figure 20: Korea (CAB-AC-C13-KOR)



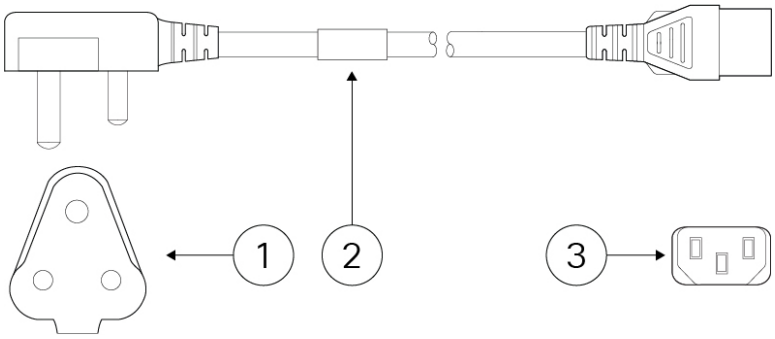
1	Plug: M2511	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 21: North America (CAB-AC)



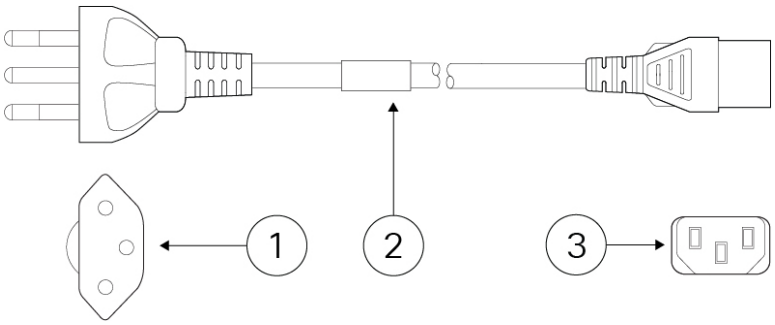
1	Plug: PS204	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		

Figure 22: South Africa (AIR-PWR-CORD-SA)



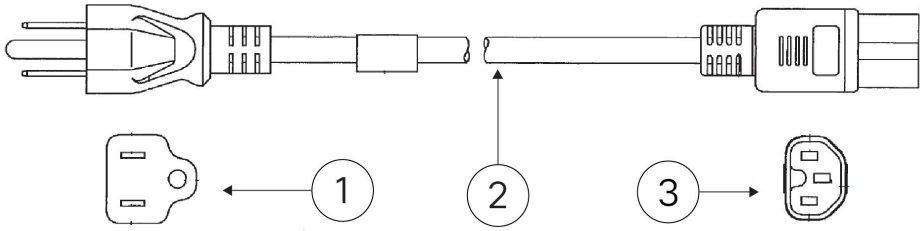
1	Plug: SA16A	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 23: Switzerland (CAB-ACS)



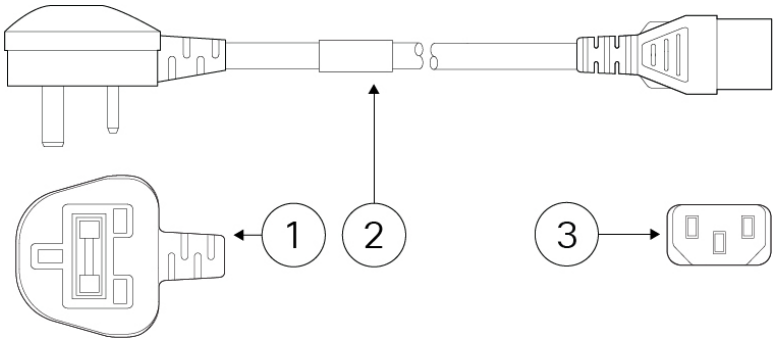
1	Plug: SW10ZS3	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 24: Taiwan (CAB-AC-TAI)

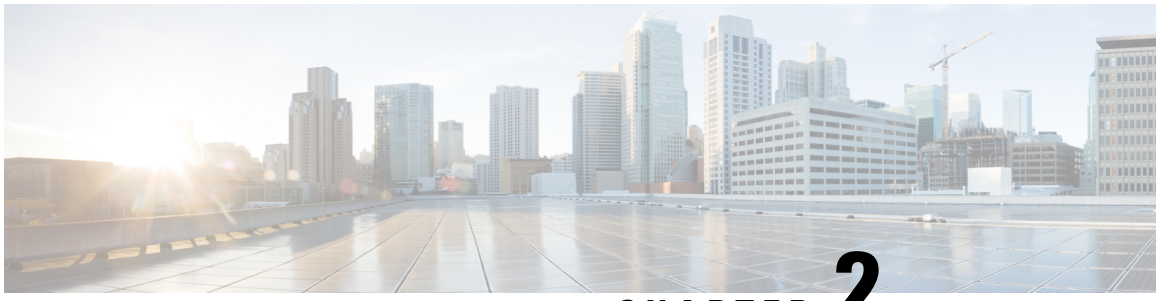


1	Plug: CNS 10917-2	**2**	Cord set rating: 10 A, 125 V
3	Connector: IEC 60320/C15		—

Figure 25: United Kingdom (CAB-ACU)



1	Plug: 3P BS 1363	**2**	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C13		—



CHAPTER 2

Installation Preparation

- Installation warnings, on page 21
- Safety recommendations, on page 23
- Maintain safety with electricity, on page 24
- Prevent ESD damage, on page 24
- Site environment, on page 25
- Site considerations, on page 25
- Power supply considerations, on page 25
- Rack configuration considerations, on page 26

Installation warnings

Read the regulatory and compliance safety information document before installing the chassis.

Take note of the following warnings:



Warning **Statement 1071—**Warning Definition

IMPORTANT SAFETY INSTRUCTIONS

Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Read the installation instructions before using, installing, or connecting the system to the power source. Use the statement number at the beginning of each warning statement to locate its translation in the translated safety warnings for this device.

SAVE THESE INSTRUCTIONS





Warning **Statement 1005**—Circuit Breaker

This product relies on the building's installation for short-circuit (overcurrent) protection. To reduce risk of electric shock or fire, ensure that the protective device is rated not greater than: 20 A, 120 V, and 16 A, 250 V



Warning **Statement 1015**—Battery Handling

To reduce risk of fire, explosion or leakage of flammable liquid or gas:

- Replace the battery only with the same or equivalent type recommended by the manufacturer.
- Do not dismantle, crush, puncture, use a sharp tool to remove, short external contacts, or dispose of the battery in fire.
- Do not use if battery is warped or swollen.
- Do not store or use battery in a temperature > 60° C.



Warning **Statement 1017—**Restricted Area

This unit is intended for installation in restricted access areas. Only skilled, instructed, or qualified personnel can access a restricted access area.



Warning **Statement 1024—**Ground Conductor

This equipment must be grounded. To reduce the risk of electric shock, 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 **Statement 1029—**Blank Faceplates and Cover Panels

Blank faceplates and cover panels serve three important functions: they reduce the risk of electric shock and fire, 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.

Warning **Statement 1051—**Laser Radiation

Invisible laser radiation may be emitted from disconnected fibers or connectors. Do not stare into beams or view directly with optical instruments.

Warning **Statement 1055—**Class 1/1M Laser

Invisible laser radiation is present. Do not expose to users of telescopic optics. This applies to Class 1/1M laser products.



Warning **Statement 1074—**Comply with Local and National Electrical Codes

To reduce risk of electric shock or fire, installation of the equipment must comply with local and national electrical codes.

Warning **Statement 9001—**Product Disposal

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

Related Topics

Regulatory and Compliance Safety Information

Safety recommendations

Observe these safety guidelines:

- Keep the area clear and dust free before, during, and after installation.
- Keep tools away from walkways, where you and others might trip over them.
- Do not wear loose clothing or jewelry, such as earrings, bracelets, or chains that could get caught in the chassis.
- Wear safety glasses if you are working under any conditions that might be hazardous to your eyes.
- Do not perform any action that creates a potential hazard to people or makes the equipment unsafe.
- Never attempt to lift an object that is too heavy for one person.

Maintain safety with electricity



Warning Before working on a chassis, be sure the power cord is unplugged.

Read the regulatory and compliance safety document before installing the chassis.

Follow these guidelines when working on equipment powered by electricity:

- Before beginning procedures that require access to the interior of the chassis, locate the emergency power-off switch for the room in which you are working. Then, if an electrical accident occurs, you can act quickly to turn off the power.
- Do not work alone if potentially hazardous conditions exist anywhere in your work space.
- Never assume that power is disconnected; always check.
- Look carefully for possible hazards in your work area, such as moist floors, ungrounded power extension cables, frayed power cords, and missing safety grounds.
- If an electrical accident occurs:
  - Use caution; do not become a victim yourself.
  - Disconnect power from the system.
  - If possible, send another person to get medical aid. Otherwise, assess the condition of the victim, and then call for help.
  - Determine whether the person needs rescue breathing or external cardiac compressions; then take appropriate action.
- Use the chassis within its marked electrical ratings and product usage instructions.
- The chassis is equipped with an AC-input power supply, which is shipped with a three-wire electrical cord with a grounding-type plug that fits into a grounding-type power outlet only. Do not circumvent this safety feature. Equipment grounding should comply with local and national electrical codes.

Related Topics

Regulatory and Compliance Safety Information

Prevent ESD damage

ESD occurs when electronic components are improperly handled, and it can damage equipment and impair electrical circuitry, which can result in intermittent or complete failure of your equipment.

Always follow ESD-prevention procedures when removing and replacing components. Ensure that the chassis is electrically connected to an earth ground. Wear an ESD-preventive wrist strap, ensuring that it makes good skin contact. Connect the grounding clip to an unpainted surface of the chassis frame to safely ground ESD voltages. To properly guard against ESD damage and shocks, the wrist strap and cord must operate effectively. If no wrist strap is available, ground yourself by touching the metal part of the chassis.

For safety, periodically check the resistance value of the antistatic strap, which should be between one and 10 megohms.

Site environment

To avoid equipment failures and reduce the possibility of environmentally caused shutdowns, plan the site layout and equipment locations carefully. If you are currently experiencing shutdowns or unusually high error rates with your existing equipment, these considerations may help you isolate the cause of failures and prevent future problems.

Related Topics

Hardware specifications, on page 13

Site considerations

Considering the following helps you plan an acceptable operating environment for the chassis, and avoid environmentally-caused equipment failures.

- Electrical equipment generates heat. Ambient air temperature might not be adequate to cool equipment to acceptable operating temperatures without adequate circulation. Make sure that the room in which you operate your system has adequate air circulation.
- Ensure that the chassis cover is secure. The chassis is designed to allow cooling air to flow effectively within it. An open chassis allows air leaks, which may interrupt and redirect the flow of cooling air from the internal components.
- Always follow ESD prevention procedures to avoid damage to equipment. Damage from static discharge can cause immediate or intermittent equipment failure.

Power supply considerations

When installing the chassis, consider the following:

- Check the power at the site before installing the chassis to ensure that it is free of spikes and noise. Install a power conditioner, if necessary, to ensure proper voltages and power levels in the appliance-input voltage.
- Install proper grounding for the site to avoid damage from lightning and power surges.
- The chassis does not have a user-selectable operating range. Refer to the label on the chassis for the correct appliance input-power requirement.
- Several styles of AC-input power supply cords are available for the chassis; make sure that you have the correct style for your site.
- If you are using dual redundant (1+1) power supplies, we recommend that you use independent electrical circuits for each power supply.
- Install an uninterruptible power source for your site, if possible.

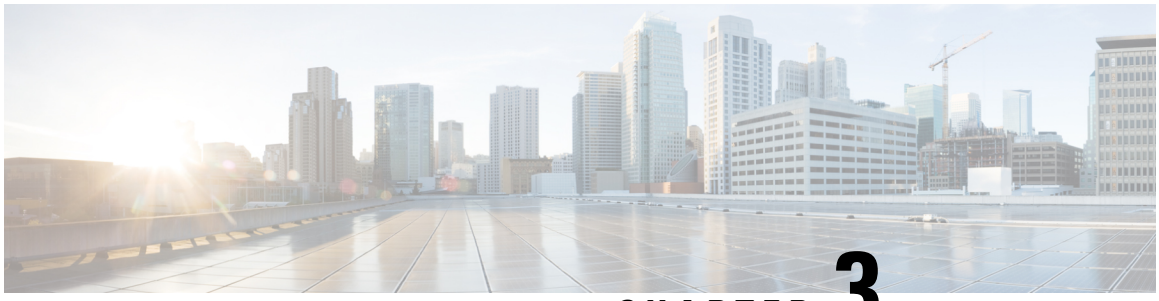
Rack configuration considerations

Consider the following when planning a rack configuration:

- Standard 19-inch (48.3 cm) 4-post EIA rack with mounting rails that conform to English universal hole spacing according to section 1 of ANSI/EIA-310-D-1992.
- The rack-mounting posts need to be 2 to 3.5 mm thick to work with the slide rail rack mounting.
- If you are mounting a chassis in an open rack, make sure that the rack frame does not block the intake or exhaust ports.
- If your rack includes closing front and rear doors, the doors must have 65 percent open perforated area evenly distributed from top to bottom to permit adequate airflow.
- Be sure enclosed racks have adequate ventilation. Make sure that the rack is not overly congested as each chassis generates heat. An enclosed rack should have louvered sides and a fan to provide cooling air.
- In an enclosed rack with a ventilation fan in the top, heat generated by equipment near the bottom of the rack can be drawn upward and into the intake ports of the equipment above it in the rack. Ensure that you provide adequate ventilation for equipment at the bottom of the rack.
- Baffles can help to isolate exhaust air from intake air, which also helps to draw cooling air through the chassis. The best placement of the baffles depends on the airflow patterns in the rack. Experiment with different arrangements to position the baffles effectively.

Related Topics

Rack mount the chassis, on page 28



CHAPTER 3

Rack mount the Chassis

- Unpack and inspect the chassis, on page 27
- Rack mount the chassis, on page 28
- Install the FIPS opacity shield in a two-post rack, on page 30

Unpack and inspect the chassis

Note The chassis is thoroughly inspected before shipment. If any damage occurred during transportation or any items are missing, contact your customer service representative immediately. Keep the shipping container in case you need to send the chassis back due to damage.

Procedure

Step 1 Remove the chassis from its cardboard container and save all packaging material.

Step 2 Compare the shipment to the equipment list provided by your customer service representative. Verify that you have all items.

Step 3 Check for damage and report any discrepancies or damage to your customer service representative. Have the following information ready:

- Invoice number of shipper (see the packing slip)
- Model and serial number of the damaged unit
- Description of damage
- Effect of damage on the installation

Related Topics

Package contents, on page 3

Rack mount the chassis

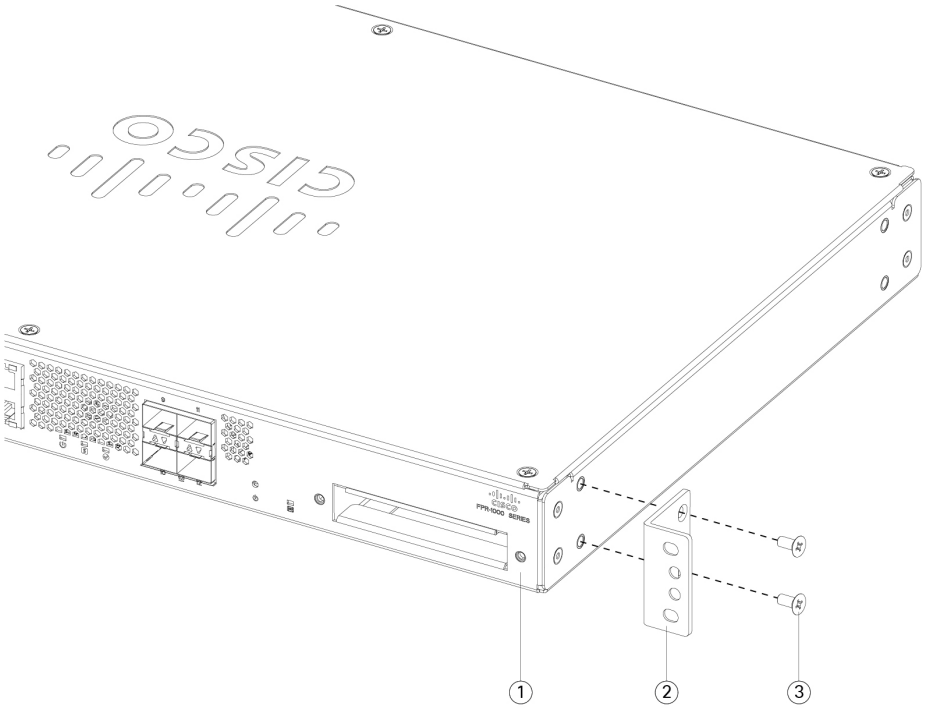
The chassis ships with rack-mount brackets and four screws that you can install on the front or the rear of the chassis. We recommend you install the rack-mount brackets on the I/O side (rear panel) so that the front of the chassis faces the hot aisle.

The rack is a standard Electronic Industries Association (EIA) rack. It is a 4-post-EIA-310-D, which is the current revision as specified by EIA. The vertical hole spacing alternates at .50 inches (12.70 mm) to .625 inches (15.90 mm) to .625 inches (15.90 mm) and repeats. The start and stop space is in the middle of the .50-inch holes. The horizontal spacing is 18.312 inches (465.1 mm), and the rack opening is specified as a minimum of 17.75 inches (450 mm).

Procedure

Step 1 Attach both brackets to the sides of the chassis using the four M4 x 8-mm Phillips screws that shipped with your chassis. After the brackets are secured to the chassis, you can mount it in the rack.

Figure 26: Attach brackets to chassis

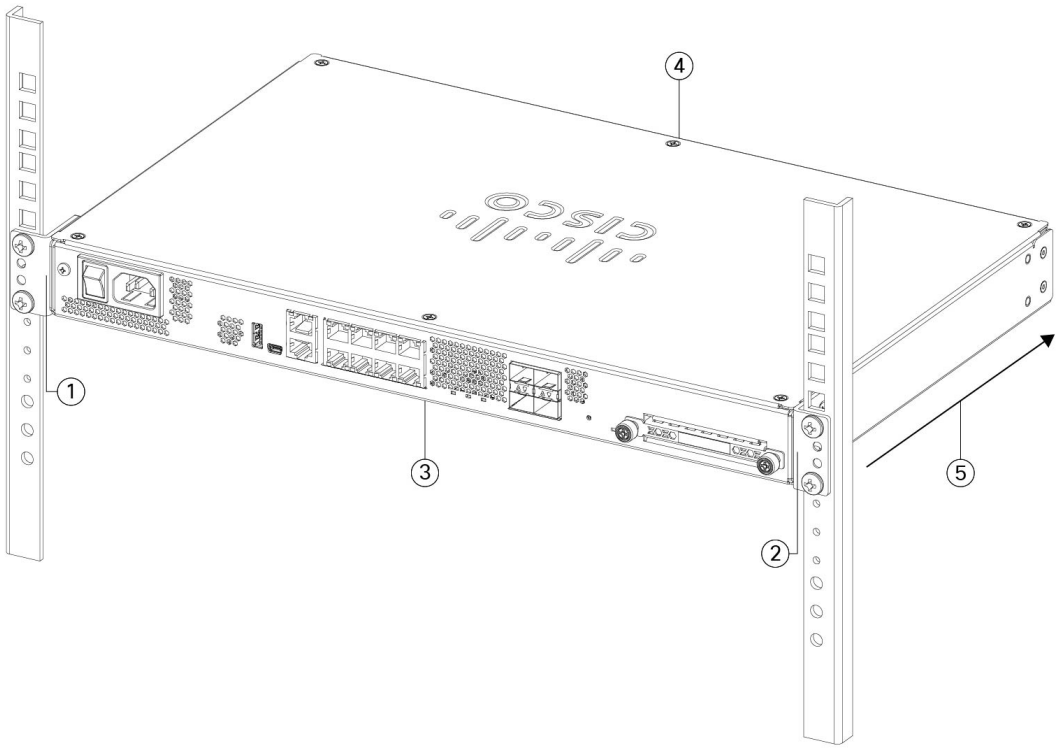


1	Chassis back panel	**2**	Rackmount bracket
3	M4 x 8-mm Phillips screws (two per side)		—

Step 2 Attach the chassis to the rack using the screws that you supply for your rack.

We recommend that you install the chassis with the I/O side (rear panel) facing the cold aisle. See the following illustration for an example of air flow from rear panel (cold aisle) to the front panel (hot aisle).

Figure 27: Install the chassis in the rack



1	Rackmount bracket	**2**	Rackmount bracket
3	Cold aisle Chassis I/O side (rear panel)	**4**	Hot aisle Chassis non-I/O side (front panel)
5	Air flow direction (I/O side to non-I/O side)		—

What to do next

You can now install the cables and power cord, as described in the Cisco Firepower 1100 Getting Started Guide.

Related Topics

Package contents, on page 3

Install the FIPS opacity shield in a two-post rack

Note Because the FIPS opacity shield covers the serial number on the chassis, the CO should copy the serial number and store it in a secure place. The serial number is needed when you call Cisco TAC.

Before you begin

Caution This procedure should be performed only by the Crypto Officer (CO).

You need the following items to install the FIPS opacity shield:

- #1 Phillips screwdriver
- The following items from the FIPS kit:
  - One FIPS opacity shield
  - Two cable management brackets
  - Eight Phillips 8-32 x 0.375-inch screws used to attach the FIPS opacity shield to the cable management brackets
  - Ten Tamper Evidence Labels (TEL)

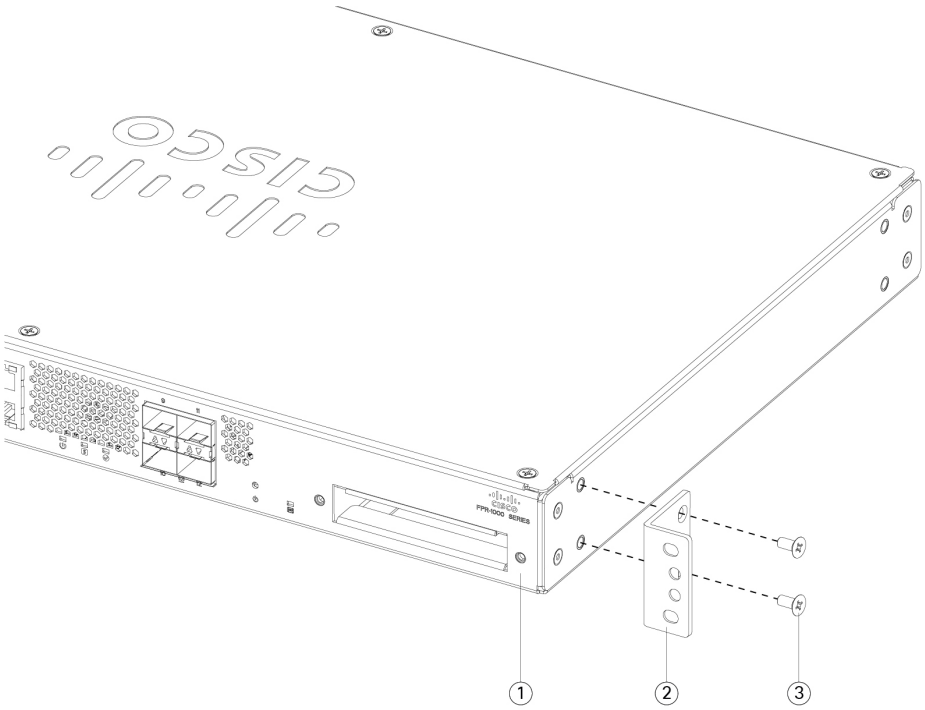
Note The TELs are made of a special thin gauge vinyl with self-adhesive backing. Once the CO attaches them on the chassis, any attempt to open the chassis damages the TELs or the chassis cover. Because the TELs have nonrepeated serial numbers, the CO can inspect them for damage and compare them against the applied serial numbers to verify whether the chassis has been tampered with. TELs with curled corners, rips, and slices indicate tampering. The word “FIPS” or “OPEN” may appear if the label has been peeled back.

Procedure

Step 1 Copy the serial number and store in a secure place.

Step 2 If you haven't already done so, attach both rackmount brackets to the sides of the chassis using the four M4 x 8-mm Phillips screws that shipped with your chassis.

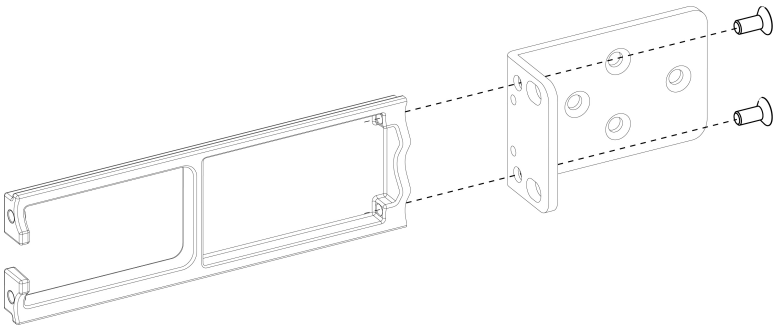
Figure 28: Attach brackets to chassis



1	Chassis back panel	**2**	Rackmount bracket
3	M4 x 8-mm Phillips screws (two per side)		—

Step 3 Install the cable management brackets.

Figure 29: Install the cable management screws into the Rackmount bracket



Step 4 Connect the cables to the ports. Make sure that the cables have enough slack to route them through the cable mounting brackets.

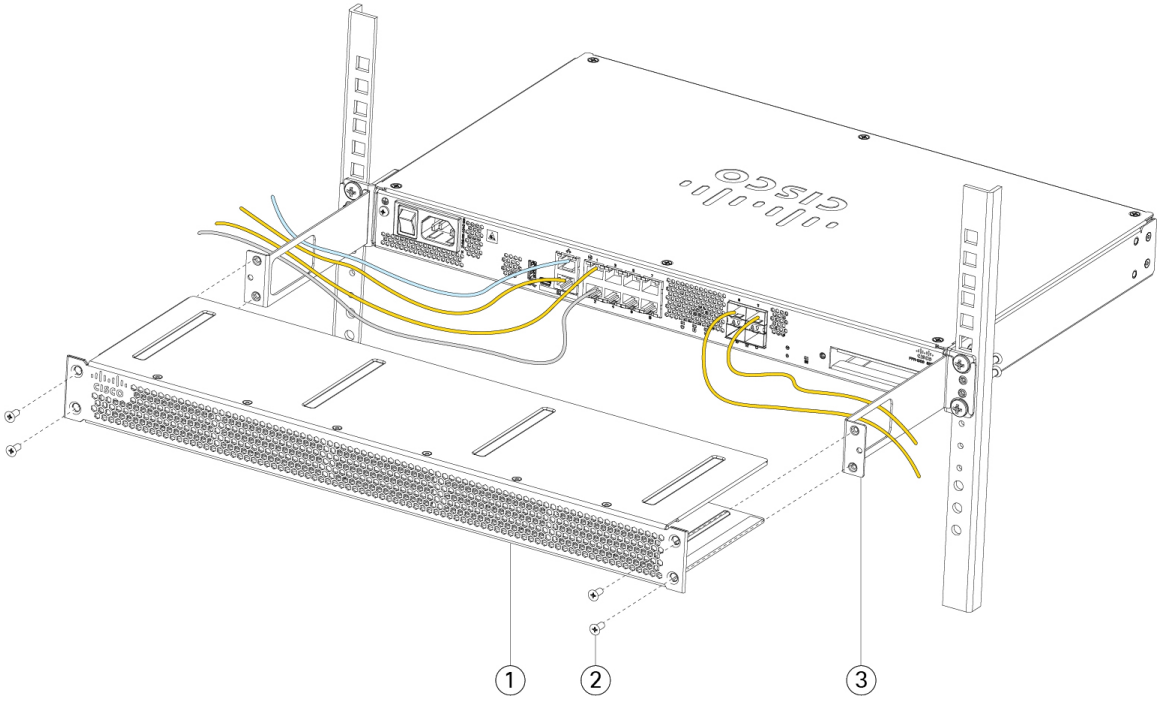
Note
If you are installing the FIPS opacity shield after the initial product installation, the cables are connected. If the attached cables do not have enough slack to route them through the cable mounting brackets (as shown in the figure below), you will have to turn the power off on the appliance, remove the cables, route the cables through the cable mounting brackets, reattach the cables, and continue with Step 5 below.

Note
When you toggle the power switch from ON to OFF, it takes several seconds for the system to power down. Do not remove the power cable until the power LED is off. After removing power from the chassis either by moving the power switch to OFF or unplugging the power cord, wait at least 10 seconds before turning power back ON.

Step 5 Route the cables through the openings in the cable management brackets as shown in the figure below.

Step 6 Attach the FIPS opacity shield to the cable management brackets using four of the 8-32 x 0.375-inch Phillips screws provided in the FIPS kit as shown in the figure below.

Figure 30: Install the FIPS cover



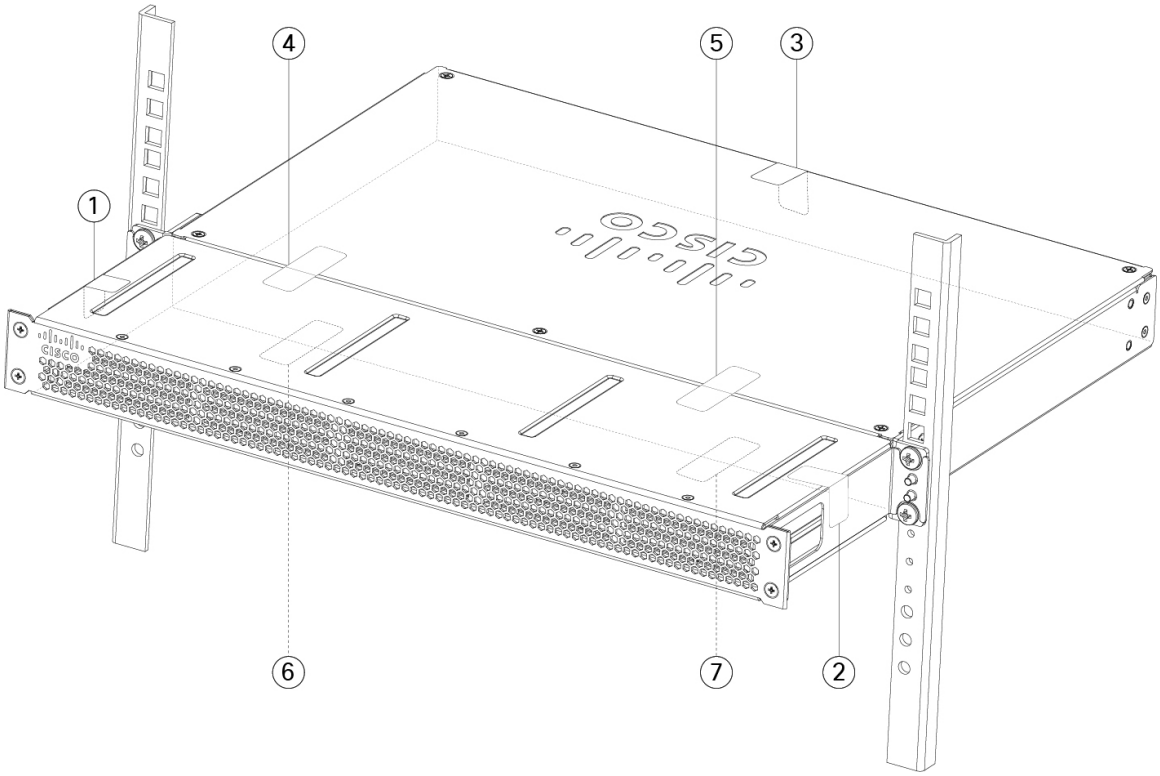
1	FIPS opacity shield	**2**	8-32 x 0.375-inch Phillips screws (two per side)
3	Cable management bracket		—

Step 7 Before you attach the TELs, clean the chassis and FIPS cover of any grease, dirt, or oil with alcohol-based cleaning pads .

Step 8 Attach seven of the TELs. See the figure below for the correct placement. Allow the TELs to cure for a minimum of 12 hours.

Caution
Any deviation in the placement of the TELs means the chassis is not in FIPS mode.

Figure 31: TELs placement on the chassis



1	TEL 1 on the left side and top of chassis	**2**	TEL 2 on the right side and top of chassis
3	TEL 3 on the top and back of chassis	**4**	TEL 4 across the FIPS shield and the chassis (towards the left of the chassis)
5	TEL 5 across the FIPS shield and the chassis (towards the right of the chassis)	**6**	TEL 6 on the bottom of the chassis towards the left side of the chassis
7	TEL 7 on the bottom of the chassis towards the right side of the chassis		—

Step 9 Attach the power cable to the chassis and connect it to an electrical outlet.

Step 10 Press the power switch on the rear panel.

Step 11 Check the power LED on the front panel. Solid green indicates that the chassis is powered on.

Step 12 Place the chassis in FIPS mode.

See the following procedures for how to place the chassis in FIPS mode:

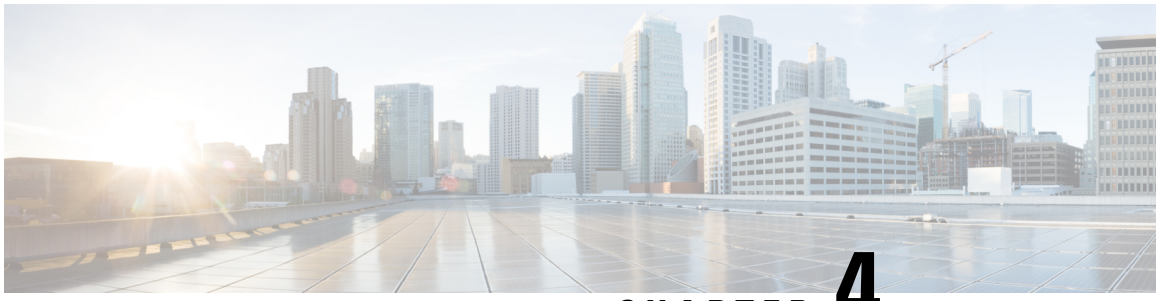
- ASA in Platform Mode
- ASA in Appliance mode
- FTD managed by FMC

What to do next

See the Cisco Firepower 1100 Getting Started Guide for further configuration information.

Related Topics

Serial Number Location, on page 5
Rear panel LEDs, on page 9



CHAPTER 4

Connect to the Console Port

- Connect to the console port with Microsoft Windows, on page 35
- Connect to the console port with Mac OS X, on page 37
- Connect to the console port with Linux, on page 37

Connect to the console port with Microsoft Windows

You must install a USB device driver the first time a Microsoft Windows-based PC is connected to the USB console port on the chassis, otherwise the connection fails.

To uninstall the driver, use the Add Remove Programs utility or the Setup-exe program.

Note Disconnect the console terminal before uninstalling the driver.

Procedure

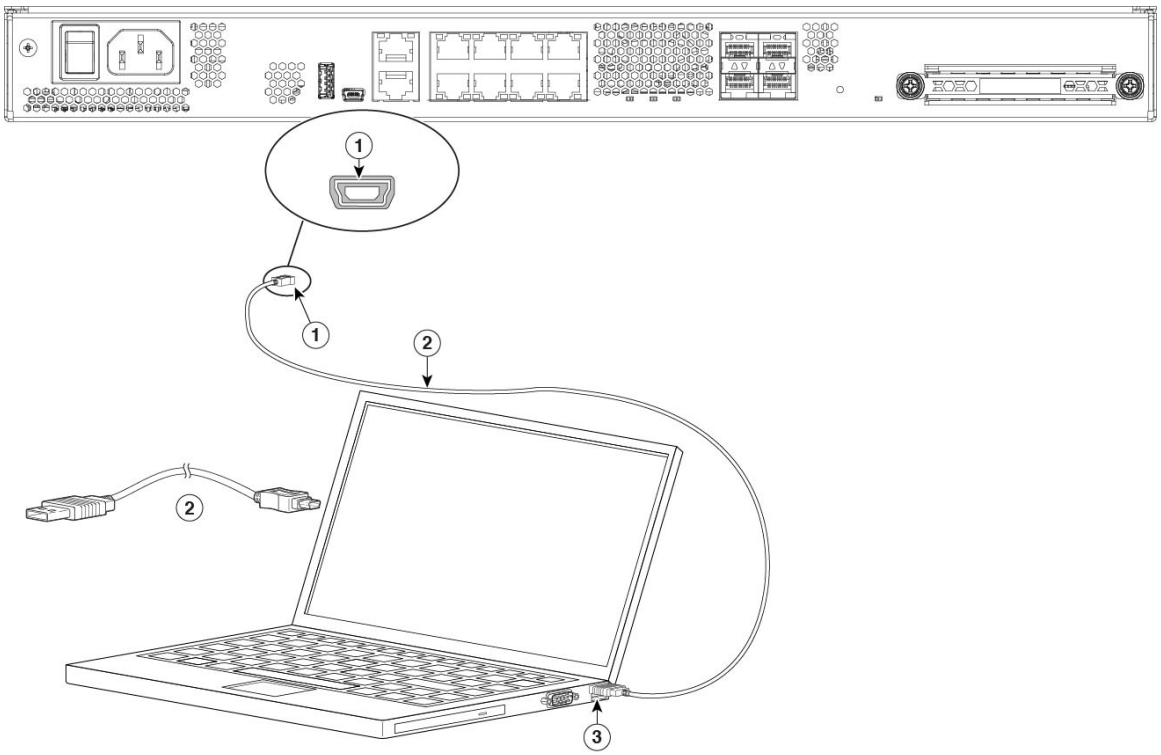
Step 1 Obtain the appropriate driver (Cisco_usbconsole_driver_X_X_zip, where X is a revision number) for your model from the Cisco Download Software site, USB Console Software category.

Note
The download site redirects you to a router download section where the drivers are also applicable to Firepower products. The drivers are OS-specific and not tied to the vendor of the console cable manufacturer.

Step 2 Install the driver.

Step 3 Connect a 5-pin USB Mini B to the console port as shown in the following figure.

Figure 32: Console port connection



1	USB Mini B console port	**2**	USB Mini B to USB Type A console cable
3	USB Type A		—

Step 4 Connect the end of the cable with the DB-9 connector (or USB Type A) to the terminal or PC. If your terminal or PC has a console port that does not accommodate a DB-9 connector, you must provide an appropriate adapter for that port. The LED for the console port turns green and within a few moments the Found New Hardware Wizard appears.

Step 5 Follow the instructions to complete the driver installation.

Step 6 To communicate with the chassis, start a terminal emulator application. This software should be configured with the following parameters:

- 9600 baud
- 8 data bits
- no parity
- 1 stop bit
- no flow control

Connect to the console port with Mac OS X

Follow these steps to connect a Mac OS X system USB port to the console using the built-in OS X Terminal utility, or alternatively you can use a separate terminal emulator application.

Procedure

Step 1 Use the Finder to go to **Applications > Utilities > Terminal**.

Step 2 Connect the OS X USB port to the chassis.

Step 3 Enter the following commands to find the OS X USB port number:

Example:

```
macbook:user$ cd /dev
macbook:user$ ls -ltr /dev/*usb*
crw-rw-rw- 1 root wheel 9, 66 Apr 1 16:46 tty.usbmodem1a21
DT-macbook:dev user$
```

Step 4 Connect to the USB port with the following command followed by the chassis USB port speed:

Example:

```
macbook:user$ screen /dev/tty.usbmodem1a21 9600
```

Step 5 Enter **Ctrl-a** followed by **d** to disconnect the OS X USB console from the Terminal window.

Connect to the console port with Linux

Follow these steps to connect a Linux system USB port to the console using the built-in Linux Terminal utility.

Procedure

Step 1 Open the Linux Terminal window.

Step 2 Connect the Linux USB port to the chassis.

Step 3 Enter the following commands to find the Linux USB port number:

Example:

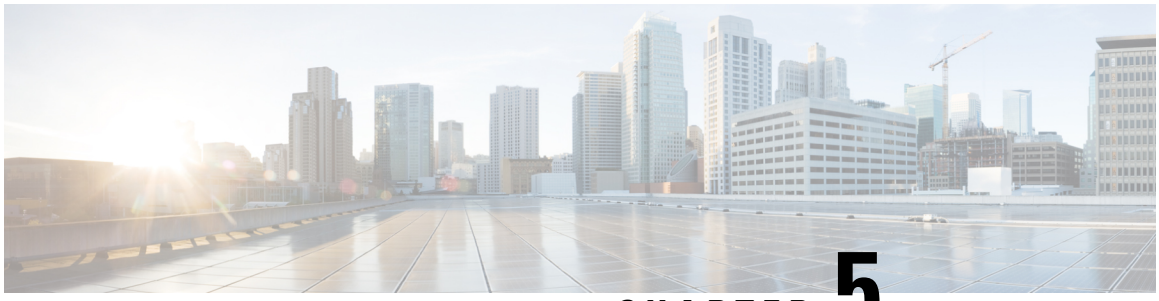
```
root@usb-suse# cd /dev
root@usb-suse /dev# ls -ltr *ACM*
crw-r--r-- 1 root root 188, 0 Jan 14 18:02 ttyACM0
root@usb-suse /dev#
```

Step 4 Connect to the USB port with the following command followed by the chassis USB port speed

Example:

```
root@usb-suse /dev# screen /dev/ttyACM0 9600
```

Step 5 To disconnect the Linux USB console from the Terminal window, enter **Ctrl-a** followed by : then **quit**.



CHAPTER 5

Installation, Maintenance, and Upgrade

- Replace the SSD, on page 39
- Install the FIPS opacity shield in a two-post rack, on page 40

Replace the SSD

The Firepower 1100 ships with an SSD installed. You can replace this SSD should it fail. Before replacing the SSD, you must power off the chassis by pressing the power switch on the rear panel.

Caution You will lose your configuration after you replace the existing SSD with a new SSD.

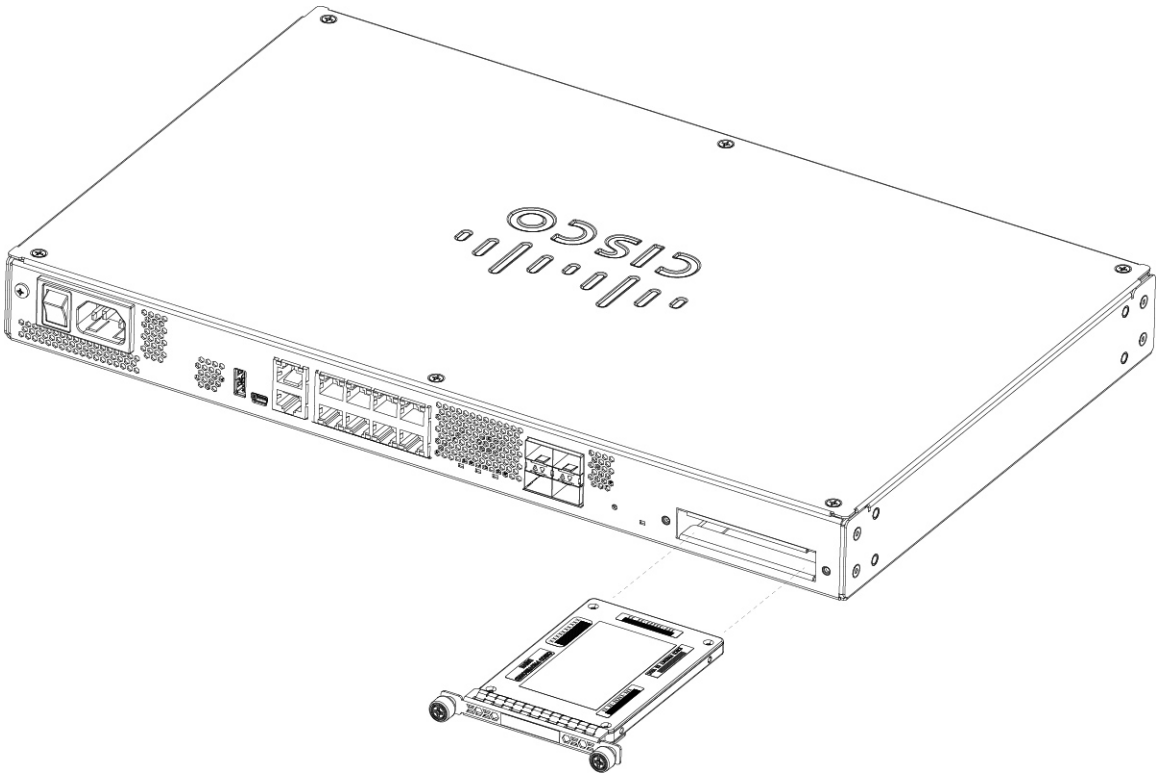
Follow these steps to replace an SSD in the chassis:

Procedure

Step 1 Loosen the thumb screws on both sides of the SSD bay and pull the existing SSD out of the bay.

Step 2 Insert the new SSD into the bay and push it in until it is seated.

Figure 33: Remove and install an SSD



Step 3 Tighten the thumb screws on both sides of the SSD bay.

Step 4 Check the SSD LED to make sure the SSD is seated properly and functioning.

Related Topics

Rear panel LEDs, on page 9

Install the FIPS opacity shield in a two-post rack

Note Because the FIPS opacity shield covers the serial number on the chassis, the CO should copy the serial number and store it in a secure place. The serial number is needed when you call Cisco TAC.

Before you begin

Caution This procedure should be performed only by the Crypto Officer (CO).

You need the following items to install the FIPS opacity shield:

- #1 Phillips screwdriver
- The following items from the FIPS kit:
  - One FIPS opacity shield
  - Two cable management brackets
  - Eight Phillips 8-32 x 0.375-inch screws used to attach the FIPS opacity shield to the cable management brackets
  - Ten Tamper Evidence Labels (TEL)



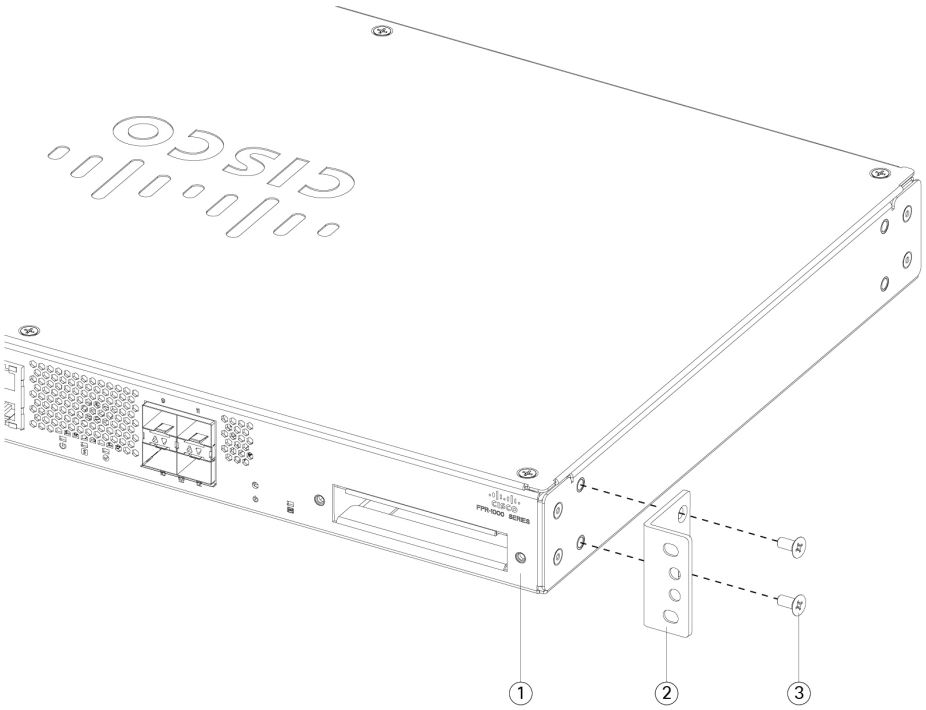
Note The TELs are made of a special thin gauge vinyl with self-adhesive backing. Once the CO attaches them on the chassis, any attempt to open the chassis damages the TELs or the chassis cover. Because the TELs have nonrepeated serial numbers, the CO can inspect them for damage and compare them against the applied serial numbers to verify whether the chassis has been tampered with. TELs with curled corners, rips, and slices indicate tampering. The word “FIPS” or “OPEN” may appear if the label has been peeled back.

Procedure

Step 1 Copy the serial number and store in a secure place.

Step 2 If you haven't already done so, attach both rackmount brackets to the sides of the chassis using the four M4 x 8-mm Phillips screws that shipped with your chassis.

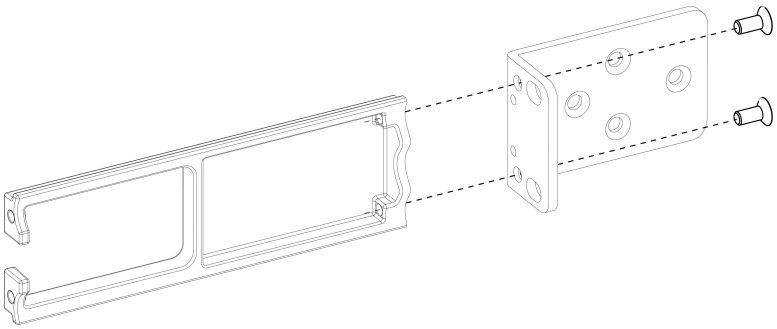
Figure 34: Attach brackets to chassis



1	Chassis back panel	**2**	Rackmount bracket
3	M4 x 8-mm Phillips screws (two per side)		—

Step 3 Install the cable management brackets.

Figure 35: Install the cable management screws into the Rackmount bracket



Step 4 Connect the cables to the ports. Make sure that the cables have enough slack to route them through the cable mounting brackets.

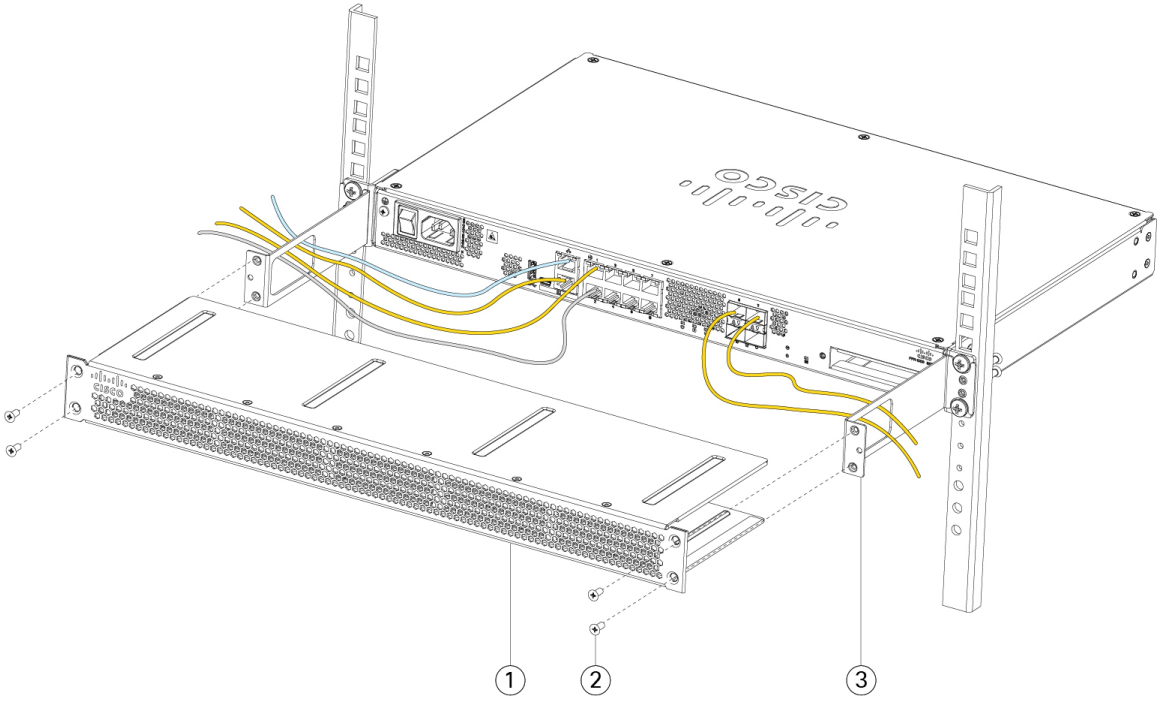
Note
If you are installing the FIPS opacity shield after the initial product installation, the cables are connected. If the attached cables do not have enough slack to route them through the cable mounting brackets (as shown in the figure below), you will have to turn the power off on the appliance, remove the cables, route the cables through the cable mounting brackets, reattach the cables, and continue with Step 5 below.

Note
When you toggle the power switch from ON to OFF, it takes several seconds for the system to power down. Do not remove the power cable until the power LED is off. After removing power from the chassis either by moving the power switch to OFF or unplugging the power cord, wait at least 10 seconds before turning power back ON.

Step 5 Route the cables through the openings in the cable management brackets as shown in the figure below.

Step 6 Attach the FIPS opacity shield to the cable management brackets using four of the 8-32 x 0.375-inch Phillips screws provided in the FIPS kit as shown in the figure below.

Figure 36: Install the FIPS cover



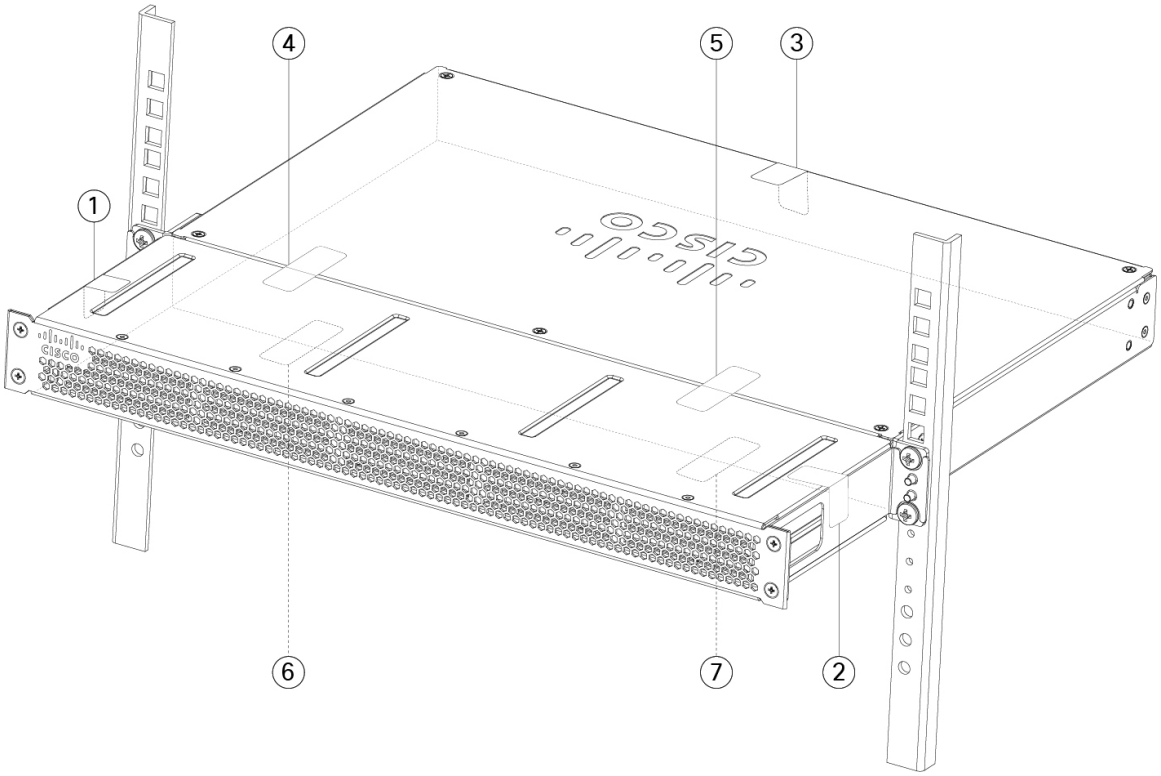
1	FIPS opacity shield	**2**	8-32 x 0.375-inch Phillips screws (two per side)
3	Cable management bracket		—

Step 7 Before you attach the TELs, clean the chassis and FIPS cover of any grease, dirt, or oil with alcohol-based cleaning pads .

Step 8 Attach seven of the TELs. See the figure below for the correct placement. Allow the TELs to cure for a minimum of 12 hours.

Caution
Any deviation in the placement of the TELs means the chassis is not in FIPS mode.

Figure 37: TELs placement on the chassis



1	TEL 1 on the left side and top of chassis	**2**	TEL 2 on the right side and top of chassis
3	TEL 3 on the top and back of chassis	**4**	TEL 4 across the FIPS shield and the chassis (towards the left of the chassis)
5	TEL 5 across the FIPS shield and the chassis (towards the right of the chassis)	**6**	TEL 6 on the bottom of the chassis towards the left side of the chassis
7	TEL 7 on the bottom of the chassis towards the right side of the chassis		—

Step 9 Attach the power cable to the chassis and connect it to an electrical outlet.

Step 10 Press the power switch on the rear panel.

Step 11 Check the power LED on the front panel. Solid green indicates that the chassis is powered on.

Step 12 Place the chassis in FIPS mode.

See the following procedures for how to place the chassis in FIPS mode:

- ASA in Platform Mode
- ASA in Appliance mode
- FTD managed by FMC

What to do next

See the Cisco Firepower 1100 Getting Started Guide for further configuration information.

Related Topics

Serial Number Location, on page 5
Rear panel LEDs, on page 9