Cisco 380 and Cisco 680 Series Hardware Installation Guide


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Cisco 380 and Cisco 680 Series Hardware Installation Guide
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CONTENTS

Preface  ii-v
   Objectives  v
   Audience  v
   Organization  vi
   Command Syntax Conventions  vi
   Conventions  vii
   Where to Find Safety and Warning Information  xii
   Related Documentation  xii
   Contacting Service and Support  xiii
   Obtaining Documentation and Submitting a Service Request  xiii

Chapter 1  1-1
   Overview  1-1
      Cisco 380 and Cisco 680 Series Overview  1-1
         Cisco C380 and Cisco C680 Email Security Appliance  1-1
         Cisco M380 and M680 Content Security Management Appliance  1-2
         Cisco S380 and S680 Web Security Appliance  1-2
      External Features  1-2
      PCI NIC Slot Configurations  1-4
         Cisco C380 and Cisco C680 Email Security Appliance NIC Options  1-4
         Cisco M380 and M680 Content Security Management Appliance NIC Options  1-5
         Cisco S380 and S680 Web Security Appliance NIC Options  1-5
      Status LEDs and Buttons  1-7
         Front Panel LEDs  1-7
         Rear Panel LEDs and Buttons  1-10

Chapter 2  2-1
   Installing the Appliance  2-1
      Installation Overview  2-2
      Unpacking and Inspecting the Appliance  2-2
      Preparing for Appliance Installation  2-3
         Installation Guidelines  2-3
         Rack Requirements  2-4
Contents

Equipment Requirements 2-5
Slide Rail Adjustment Range 2-5
Installing the Appliance in a Rack 2-5
Connecting the Interface Cables and Verifying Connectivity 2-7

CHAPTER 3
Maintaining the Appliance 3-1
Power Supplies 3-1
Remote Power Management 3-2
  Enable Remote Power Management 3-2
Replacing Hard Drives 3-3
  Replacing Hard Drives 3-4
  Contacting Service and Support 3-5

APPENDIX A
Appliance Specifications A-1
  Physical Specifications A-1
  Hardware and Technical Specifications A-2
  Power Specifications A-3
  Environmental Specifications A-4

APPENDIX B
Identifying Cable Pinouts B-1
  10/100/1000BaseT Connectors B-1
  Console Port (RJ-45) B-2
  RJ-45 to DB-9 B-4

APPENDIX C
Power Cord Specifications C-1
  Supported Power Cords and Plugs C-1
  AC Power Cord Illustrations C-3
Preface

This preface describes the audience, organization, and conventions of the *Cisco 380 and Cisco 680 Series Hardware Installation Guide*. It also provides information about how to obtain related documentation.

Objectives

This guide describes how to install and maintain the Cisco 380 and Cisco 680 series appliance. The information in this guide applies to the following Cisco 380 and Cisco 680 series appliance models:

- Cisco C380 and Cisco C680 Email Security Appliance (Cisco C380 and Cisco C680)
- Cisco S380 and Cisco S680 Web Security Appliance (Cisco S380 and Cisco S680)
- Cisco M380 and Cisco M680 Content Security Management Appliance (Cisco M380 and Cisco M680)

References to “Cisco 380 and Cisco 680 series” and “appliance” applies to the listed models, unless specifically noted otherwise.

Audience

This guide is intended primarily for experienced network security administrators who install, configure and maintain Cisco content security appliances in their network.
Organization

This guide is organized as follows:

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 1</td>
<td>Overview</td>
<td>Provides an overview of the appliance(s).</td>
</tr>
<tr>
<td>Chapter 2</td>
<td>Installing the Appliance</td>
<td>Describes how to install the appliance in a rack and provides information about how to connect the interface cables.</td>
</tr>
<tr>
<td>Chapter 3</td>
<td>Maintaining the Appliance</td>
<td>Describes the power supply provided with the appliance and how to remove and replace hard disk drives (HDDs).</td>
</tr>
<tr>
<td>Appendix A</td>
<td>Appliance Specifications</td>
<td>Lists physical, power, and environmental specifications for the appliance.</td>
</tr>
<tr>
<td>Appendix B</td>
<td>Power Cord Specifications</td>
<td>Lists specifications for the supported international power cords.</td>
</tr>
<tr>
<td>Appendix B</td>
<td>Identifying Cable Pinouts</td>
<td>Describes the cable pinouts.</td>
</tr>
</tbody>
</table>

Command Syntax Conventions

Table 2 describes the syntax used with the commands in this document.

<table>
<thead>
<tr>
<th>Convention</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>boldface</strong></td>
<td>Commands and keywords.</td>
</tr>
<tr>
<td><em>italic</em></td>
<td>Command input that is supplied by you.</td>
</tr>
<tr>
<td>[ ]</td>
<td>Keywords or arguments that appear within square brackets are optional.</td>
</tr>
<tr>
<td>{ x</td>
<td>x</td>
</tr>
<tr>
<td>^ or Ctrl</td>
<td>Represent the key labeled Control. For example, when you read ^D or Ctrl-D, you should hold down the Control key while you press the D key.</td>
</tr>
<tr>
<td>screen font</td>
<td>Examples of information displayed on the screen.</td>
</tr>
<tr>
<td><strong>boldface screen font</strong></td>
<td>Examples of information that you must enter.</td>
</tr>
<tr>
<td>&lt; &gt;</td>
<td>Nonprinting characters, such as passwords, appear in angled brackets.</td>
</tr>
<tr>
<td>[ ]</td>
<td>Default responses to system prompts appear in square brackets.</td>
</tr>
</tbody>
</table>
# Conventions

This document uses the following conventions for notes, cautions, and safety warnings. Notes and cautions contain important information that you should know.

### Note

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

### Caution

Means *reader be careful*. Cautions contain information about something you might do that could result in equipment damage or loss of data.

Safety warnings appear throughout this guide in procedures that, if performed incorrectly, can cause physical injuries. A warning symbol precedes each warning statement.

### Warning

**IMPORTANT SAFETY INSTRUCTIONS**

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device. Statement 1071

**SAVE THESE INSTRUCTIONS**

Belangrijke veiligheidsinstructies

Dit waarschuwingssymbool betekent gevaar. U verkeert in een situatie die lichamelijk letsel kan veroorzaken. Voordat u aan enige apparatuur gaat werken, dient u zich bewust te zijn van de bij elektrische schakelingen betrokken risico’s en dient u op de hoogte te zijn van de standaard praktijken om ongelukken te voorkomen. Gebruik het nummer van de verklaring onderaan de waarschuwing als u een vertaling van de waarschuwing die bij het apparaat wordt geleverd, wilt raadplegen.

Bewaar deze instructies

Tärkeitä turvallisuusohjeita


Säilytä nämä ohjeet
Conventions

Attention IMPORTANTES INFORMATIONS DE SÉCURITÉ


CONSERVEZ CES INFORMATIONS

Warnung WICHTIGE SICHERHEITSHINWEISE


BEWAHREN SIE DIESE HINWEISE GUT AUF.

Avvertenza IMPORTANTI ISTRUZIONI SULLA SICUREZZA

Questo simbolo di avvertenza indica un pericolo. La situazione potrebbe causare infortuni alle persone. Prima di intervenire su qualsiasi apparecchiatura, occorre essere al corrente dei pericoli relativi ai circuiti elettrici e conoscere le procedure standard per la prevenzione di incidenti. Utilizzare il numero di istruzione presente alla fine di ciascuna avvertenza per individuare le traduzioni delle avvertenze riportate in questo documento.

CONSERVARE QUESTE ISTRUZIONI

Advarsel VIKTIGE SIKKERHETSINSTRUKSJONER

Dette adversselssymbolet betyr fare. Du er i en situasjon som kan føre til skade på person. Før du begynner å arbeide med noe av utstyret, må du være oppmerksom på farene forbundet med elektriske kretser, og kjenne til standardprosedyrer for å forhindre ulykker. Bruk nummeret i slutten av hver advarsel for å finne oversettelsen i de oversatte sikkerhetsadvarslene som fulgte med denne enheten.

TA VARE PÅ DISSE INSTRUKSJONENE

Aviso INSTRUÇÕES IMPORTANTES DE SEGURANÇA

Este símbolo de aviso significa perigo. Você está em uma situação que poderá ser causadora de lesões corporais. Antes de iniciar a utilização de qualquer equipamento, tenha conhecimento dos perigos envolvidos no manuseio de circuitos elétricos e familiarize-se com as práticas habituais de prevenção de acidentes. Utilize o número da instrução fornecido ao final de cada aviso para localizar sua tradução nos avisos de segurança traduzidos que acompanham este dispositivo.

GUARDE ESTAS INSTRUÇÕES
¡Advertencia! INSTRUCCIONES IMPORTANTES DE SEGURIDAD

Este símbolo de aviso indica peligro. Existe riesgo para su integridad física. Antes de manipular cualquier equipo, considere los riesgos de la corriente eléctrica y familiarícese con los procedimientos estándar de prevención de accidentes. Al final de cada advertencia encontrará el número que le ayudará a encontrar el texto traducido en el apartado de traducciones que acompaña a este dispositivo.

GUARDE ESTAS INSTRUCCIONES

Warning! VIKTIGA SÄKERHETSANVISNINGAR


SPARA DESSA ANVISNINGAR

FONTOS BIZTONSÁGI ELŐÍRÁSOK

Ez a figyelmezetel jel veszélyre utal. Sérülésveszélyt rejto helyzetben van. Mielott bármely berendezésen munkát végezte, legyen figyelemmel az elektromos áramkörök okozta kockázatokra, és ismerkedjen meg a szokásos balesetvédelmi eljárásokkal. A kiadványban szereplő figyelmezetetések fordítása a készülékhez melléktelt biztonsági figyelmezetések között található; a fordítás az egyes figyelmezetetések végén látható szám alapján kereshető meg.

ORIZZE MEG EZEKET AZ UTASÍTÁSOKAT!

Предупреждение ВАЖНЫЕ ИНСТРУКЦИИ ПО СОБЛЮДЕНИЮ ТЕХНИКИ БЕЗОПАСНОСТИ

Этот символ предупреждения обозначает опасность. То есть имеет место ситуация, в которой следует опасаться телесных повреждений. Перед эксплуатацией оборудования выясните, каким опасностям может подвергаться пользователь при использовании электрических цепей, и ознакомьтесь с правилами техники безопасности для предотвращения возможных несчастных случаев. Воспользуйтесь номером заявления, приведенным в конце каждого предупреждения, чтобы найти его переведенный вариант в переводе предупреждений по безопасности, прилагаемом к данному устройству.

СОХРАНИТЕ ЭТИ ИНСТРУКЦИИ

警告 重要的安全性说明

此警告符号代表危险。您正处于可能受到严重伤害的工作环境中。在您使用设备开始工作之前，必须充分意识到触电的危险，并熟练掌握防止事故发生的标准工作程序。请根据每项警告结尾提供的声明号码来找到该设备的安全性警告说明的翻译文本。

请保存这些安全性说明
Conventions

Aviso
INSTRUÇÕES IMPORTANTES DE SEGURANÇA
Este símbolo de aviso significa perigo. Você se encontra em uma situação em que há risco de lesões corporais. Antes de trabalhar com qualquer equipamento, esteja ciente dos riscos que envolvem os circuitos elétricos e familiarize-se com as práticas padrão de prevenção de acidentes. Use o número da declaração fornecido ao final de cada aviso para localizar sua tradução nos avisos de segurança traduzidos que acompanham o dispositivo.

GARDE ESTAS INSTRUÇÕES

Advarsel
VIKTIGE SIKKERHEDSANVISNINGER

GEM DISSE ANVISNINGER

警告
安全上の重要な注意事項
「危険」の意味です。人身事故を予防するための注意事項が記述されています。装置の取り扱い作業を行うときは、電気回路の危険性に注意し、一般的な事故防止策に留意してください。警告の各国語版は、各注意事項の番号を基に、装置に付属の「Translated Safety Warnings」を参照してください。

これらの注意事項を保管しておいてください。

주의
중요 안전 지침
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이 지시 사항을 보관하십시오.

تحذير
إجراءات الأمان العامة
يوضح رمز التحذير هذا وجود خطر. وهذا يعني أنك متواجد في مكان قد ينتج عنه تعرض لإصابات. قبل بدء العمل، احذر مخاطر تعرض للإصابات الكهربائية وكن على علم بالإجراءات القياسية للحيولة دون وقوع أي حوادث. استخدم رقم البيان الموجود في أخر كل تحذير لتحديد مكان ترجمته داخل تحذيرات الأمان المترجمة التي تأتي مع الجهاز. قم بملاحظة هذه الإرشادات.
**Upozorenje**

VAŽNE SIGURNOSNE NAPOMENE

Ovaj simbol upozorenja predstavlja opasnost. Nalazite se u situaciji koja može prouzročiti tjelesne ozljede. Prije rada s bilo kojim uređajem, morate razumjeti opasnosti vezane uz električne sklopove, te biti upoznati sa standardnim načinima izbjegavanja nesreća. U prevedenim sigurnosnim upozorenjima, priloženima uz uređaj, možete prema broju koji se nalazi uz pojedino upozorenje pronaći i njegov prijevod.

**SAČUVAJTE OVE UPUTE**

**Upozornění**

DŮLEŽITÉ BEZPEČNOSTNÍ POKYNY

Tento upozornující symbol označuje nebezpečí. Jste v situaci, která by mohla přispět nebezpečí urazu. Před prací na jakémkoli vybavení si uvědomte nebezpečí související s elektrickými obvody a seznámení se se standardními opatřeními pro předcházení úrazům. Podle čísla na konci každého upozornění vyhledejte jeho překlad v přeložených bezpečnostních upozorněních, která jsou přiložena k zařízení.

**USCHOVEJTE TYTO POKYNY**

**Производные**

ΣΗΜΑΝΤΙΚΕΣ ΟΔΗΓΙΕΣ ΑΣΦΑΛΕΙΑΣ

Αυτό το προειδοποιητικό σύμβολο σημαίνει κίνδυνο. Βρίσκεστε σε κατάσταση που μπορεί να προκαλέσει τραυματισμό. Πριν εργαστείτε σε οποιαδήποτε έξοπλισμό, να έχετε υπόψη σας τους κίνδυνους που σχετίζονται με τα ηλεκτρικά κουκλώματα και να έχετε εξειδικευθεί με τις συνηθισμένες πρακτικές για την αποφυγή ατυχημάτων. Χρησιμοποιήστε τον αριθμό δήλωσης που παρέχεται στο τέλος κάθε προειδοποίησης, για να εντοπίσετε τη μετάφρασή της στις μεταφρασμένες προειδοποιήσεις ασφαλείας που συνοδεύουν τη συσκευή.

**ΥΠΑΝΤΩ ΤΙΣ ΟΔΗΓΙΕΣ**

**הוראות בטיחותشابות**

昀مؤכ זאזרה זא מסמל סכנת.leet זא מזא במצמ בציר עלום לזרום לפגיעה. לפנ ישתמוד עד ציו ציו כלשחה. עלי זא מזא לדון להזרום בצירים בציריים לזרום והזירום לאחרים המ¾lıkציים לזרום. השימש בציר הזרום המ¾lıkציים בצירים ולזרום ביותר כדי זאזרה צי לזרום את הזרום.

**انية הזוראה**

**Opomena**

ВАЖНИ БЕЗБЕДНОСНИ НАПАТСТВИЈА

Символот за предупредување значи опасност. Се наоѓате во ситуација што може да предизвика телесни повреди. Пред да работите со опремата, бидете свесни за ризикот што постои кај електричните кола и треба да ги познавате стандартните постапки за спречување на несреќни случаи. Искористете го бројот на изјавата што се наоѓа на крајот на секое предупредување за да го најдете неговиот период во преведените безбедносни предупредувања што се испорачани со уредот.

**ПУЊАЈТЕ ГИ ОВИЕ НАПАТСТВИЈА**
Where to Find Safety and Warning Information

For safety and warning information, see the Regulatory Compliance and Safety Information for Cisco Content Security Appliances and the Safety and Compliance Guide for Cisco IronPort Appliances.

These documents describe the international agency compliance and safety information for the Cisco 380 and Cisco 680 series. They also include translations of the safety warnings used in this guide.

Related Documentation

For additional documentation on the Cisco 380 and Cisco 680 series appliances, see the following:

- Cisco C380 and Cisco C680 Email Security Appliance:
- Cisco M380 and Cisco M680 Content Security Management Appliance:
- Cisco S380 and Cisco S680 Web Security Appliance:
Contacting Service and Support

You can contact support using one of the following methods:
U.S. Toll-Free Number: 1-800-553-2447 or 1-408-526-7209

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:

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.
Overview

This chapter provides an overview of the Cisco 380 and Cisco 680 series appliance features.

- Cisco 380 and Cisco 680 Series Overview, page 1-1
- External Features, page 1-2
- PCI NIC Slot Configurations, page 1-4
- Status LEDs and Buttons, page 1-7

Cisco 380 and Cisco 680 Series Overview

The Cisco 380 and Cisco 680 series is a family of next-generation 2U Content Security appliances capable of providing the following features and functionality for small businesses, branch offices, and organizations:

- Simplified and automated email security
- Web traffic and application visibility and control
- Flexible, comprehensive security control and management

Cisco C380 and Cisco C680 Email Security Appliance

Cisco C380 and Cisco C680 Email Security Appliance (Cisco C380 and C680) automatically stops spam, viruses, and other anomalies. It prevents and responds to multilevel threats and includes capabilities such as: spam and virus defense, policy enforcement, email authentication, and centralized and built-in GUI management tools. For information about Cisco C380 and C680, see:

Cisco M380 and M680 Content Security Management Appliance

Cisco M380 and M680 Content Security Management Appliance (Cisco M380 and M680) is a central platform for managing all policy, integrated reporting on traffic data, and email auditing information for the Cisco 380 and Cisco 680 Series appliances. For information about Cisco M380 and M680, see:

Cisco S380 and S680 Web Security Appliance

Cisco S380 and S680 Web Security Appliance (Cisco S380 and S680) is a secure web gateway that combines advanced malware protection, appliance visibility and control (AVC), acceptable user policy controls, insightful reporting, and secure mobility on a single platform. It is a single platform for administrators to set security policy, control applications on a granular level, and get visibility into web traffic trends at organizations and for remote and mobile users. For information about Cisco S380 and S680, see:

External Features

The figures in this chapter show an overview of external appliance features. The Cisco 380 and Cisco 680 series appliance uses small form-factor (SFF) drives in a 24-drive backplane and expander.

Note

Although the following figure shows drive slots 2 through 23 available, only certain drive slots can be populated for each model. None of the models support more than eight hard drives. Because each model supports a different maximum number of hard drives, see the “Hardware and Technical Specifications” section on page A-2 for the number of hard drives supported by each specific model.

Figure 1-1 shows the front panel features of the appliance.

Figure 1-1 Cisco 380 and Cisco 680 Series Appliance Front Panel Features
Figure 1-2 shows the rear panel features of the appliance (identical for all versions of the appliance).

### Figure 1-2  Cisco 380 and Cisco 680 Series Appliance Rear Panel Features

| 1 | Power supplies (two) | 6 | Remote Power Management port |
| 2 | PCIe slot on riser 2: PCIe 5—full-height, 3/4-length, x16 lane | 7 | USB 2.0 port |
| 3 | PCIe slot on riser 2: PCIe 4—half-height, 3/4-length, x8 lane | 8 | Quad 1-Gb Ethernet ports |
| 4 | Console port (RJ-45 connector) | 9 | PCIe slots on riser 1: PCIe 1—full-height, half-length, x8 lane PCIe 2—full-height, half-length, x16 lane PCIe 3—full-height, half-length, x8 lane |
| 5 | USB 2.0 port | 10 | Rear Identification button/LED (For more information, see “Replacing Hard Drives” section on page 3-3.) |
PCI NIC Slot Configurations

The following sections show the different PCI network interface card (NIC) installations and configurations.

Cisco C380 and Cisco C680 Email Security Appliance NIC Options

Note

The Cisco C380 Email Security appliance does not have NIC options.

The Cisco C680 has three configuration options:

- No NIC installed
- 1 GB dual port fiber NIC (quantity of 1)
- 10 GB dual port fiber NIC (quantity of 1)

For the Cisco C680, the NIC card is always installed into PCE slot 1 and labeled as “Data 4 Data 5.” See Figure 1-3.

Figure 1-3  Cisco C680 NIC Installed in PCI Slot 1

<table>
<thead>
<tr>
<th>Item</th>
<th>Port</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Management interface</td>
<td>Indicates the Gigabit Ethernet interface that is restricted to management use only. Connect with a RJ-45 cable.</td>
</tr>
<tr>
<td>2</td>
<td>Data 1</td>
<td>Indicates the Gigabit Ethernet customer data interface Data 1.</td>
</tr>
<tr>
<td>3</td>
<td>Data 2</td>
<td>Indicates the Gigabit Ethernet customer data interface Data 2.</td>
</tr>
<tr>
<td>4</td>
<td>Data 3</td>
<td>Indicates the Gigabit Ethernet customer data interface Data 3.</td>
</tr>
</tbody>
</table>
Cisco M380 and M680 Content Security Management Appliance NIC Options

**Note**
The Cisco M380 Content Security management appliance does not have NIC options.

The Cisco M680 has three configuration options:
- No NIC installed
- 1 GB dual port fiber NIC (quantity of 1)
- 10 GB dual port fiber NIC (quantity of 1)

For the Cisco M680, the NIC card is always installed into PCE slot 1 and labeled as “Data 4 Data 5.” See Figure 1-3.

*Figure 1-4  Cisco M680 NIC Installed in PCI Slot 1*

<table>
<thead>
<tr>
<th>Item</th>
<th>Port</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Management interface</td>
<td>Indicates the Gigabit Ethernet interface that is restricted to management use only. Connect with a RJ-45 cable.</td>
</tr>
<tr>
<td>2</td>
<td>Data 1</td>
<td>Indicates the Gigabit Ethernet customer data interface Data 1.</td>
</tr>
<tr>
<td>3</td>
<td>Data 2</td>
<td>Indicates the Gigabit Ethernet customer data interface Data 2.</td>
</tr>
<tr>
<td>4</td>
<td>Data 3</td>
<td>Indicates the Gigabit Ethernet customer data interface Data 3.</td>
</tr>
</tbody>
</table>

Cisco S380 and S680 Web Security Appliance NIC Options

The Cisco S380 has one 1 GB single port copper NIC via auto-expansion installed in PCI slot 1 and labeled as “Management.” See Figure 1-5.
The Cisco S680 has three configuration options:

- 1 GB dual port fiber NIC (quantity of 3)
- 10 GB dual port fiber NIC (quantity of 3)
- If neither of the above apply, the 1 GB single port copper NIC via auto-expansion is installed in PCI slot 1 and labeled as “Management.”
Status LEDs and Buttons

This section describes the location and meaning of LEDs and buttons and includes the following topics:

- Front Panel LEDs, page 1-7
- Rear Panel LEDs and Buttons, page 1-10

Front Panel LEDs

Figure 1-7 shows the front panel LEDs. Table 1-1 defines the LED states.

Note: Although the following figure shows drive slots 2 through 23 available, only certain drive slots can be populated for each model. None of the models support more than eight hard drives. Because each model supports a different maximum number of hard drives, see the “Hardware and Technical Specifications” section on page A-2 for the number of hard drives supported by each specific model.

<table>
<thead>
<tr>
<th>Item</th>
<th>Port</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>P1</td>
<td>Indicates proxy port. Connect P1 to the network for both incoming and outgoing traffic.</td>
</tr>
<tr>
<td>2</td>
<td>P2</td>
<td>Indicates proxy port. When both P1 and P2 are enabled, you must connect P1 to the internal network and P2 to the Internet. P1 and P2 can connect to L4 switch, WCCP router, or network switch.</td>
</tr>
<tr>
<td>3</td>
<td>T1</td>
<td>Indicates traffic monitor port T1 for Duplex Ethernet tap: One cable for all incoming and outgoing traffic.</td>
</tr>
<tr>
<td>4</td>
<td>T2</td>
<td>Indicates traffic monitor port. Simplex Ethernet tap: Ports T1 and T2. One cable for all packets destined for the internet (T1), and one cable for all packets coming from the Internet (T2).</td>
</tr>
</tbody>
</table>
# Table 1-1  Front Panel LEDs, Definitions of States

<table>
<thead>
<tr>
<th>LED Name</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hard drive fault</td>
<td>• Off—The hard drive is operating properly.</td>
</tr>
<tr>
<td></td>
<td>• Amber—This hard drive has failed.</td>
</tr>
<tr>
<td></td>
<td>• Amber, blinking—The device is rebuilding.</td>
</tr>
<tr>
<td>Hard drive activity</td>
<td>• Off—There is no hard drive in the hard drive sled (no access, no fault).</td>
</tr>
<tr>
<td></td>
<td>• Green—The hard drive is ready.</td>
</tr>
<tr>
<td></td>
<td>• Green, blinking—The hard drive is reading or writing data.</td>
</tr>
<tr>
<td>Network link activity</td>
<td>• Off—The Ethernet link is idle.</td>
</tr>
<tr>
<td></td>
<td>• Green—One or more Ethernet ports are link-active, but there is no activity.</td>
</tr>
<tr>
<td></td>
<td>• Green, blinking—One or more Ethernet ports are link-active, with activity.</td>
</tr>
<tr>
<td>Power supply status</td>
<td>• Green—All power supplies are operating normally.</td>
</tr>
<tr>
<td></td>
<td>• Amber, steady—One or more power supplies are in a degraded operational state.</td>
</tr>
<tr>
<td></td>
<td>• Amber, blinking—One or more power supplies are in a critical fault state.</td>
</tr>
<tr>
<td>Temperature status</td>
<td>• Green—The appliance is operating at normal temperature.</td>
</tr>
<tr>
<td></td>
<td>• Amber, steady—One or more temperature sensors have exceeded a warning threshold.</td>
</tr>
<tr>
<td></td>
<td>• Amber, blinking—One or more temperature sensors have exceeded a critical threshold.</td>
</tr>
<tr>
<td>Fan status</td>
<td>• Green—All fan modules are operating properly.</td>
</tr>
<tr>
<td></td>
<td>• Amber, steady—One fan module has failed.</td>
</tr>
<tr>
<td></td>
<td>• Amber, blinking—Critical fault, two or more fan modules have failed.</td>
</tr>
</tbody>
</table>
### Table 1-1  Front Panel LEDs, Definitions of States (continued)

<table>
<thead>
<tr>
<th>LED Name</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>System status</td>
<td>• Green—The appliance is running in normal operating condition.</td>
</tr>
<tr>
<td></td>
<td>• Green, blinking—The appliance is performing system initialization and memory check.</td>
</tr>
<tr>
<td></td>
<td>• Amber, steady—The appliance is in a degraded operational state. For example:</td>
</tr>
<tr>
<td></td>
<td>– Power supply redundancy is lost.</td>
</tr>
<tr>
<td></td>
<td>– CPUs are mismatched.</td>
</tr>
<tr>
<td></td>
<td>– At least one CPU is faulty.</td>
</tr>
<tr>
<td></td>
<td>– At least one DIMM is faulty.</td>
</tr>
<tr>
<td></td>
<td>– At least one drive in a RAID configuration failed.</td>
</tr>
<tr>
<td></td>
<td>• Amber, blinking—The appliance is in a critical fault state. For example:</td>
</tr>
<tr>
<td></td>
<td>– Boot failed.</td>
</tr>
<tr>
<td></td>
<td>– Fatal CPU and/or bus error is detected.</td>
</tr>
<tr>
<td></td>
<td>– Appliance is in over-temperature condition.</td>
</tr>
<tr>
<td>Identification</td>
<td>• Off—The Identification LED is not in use.</td>
</tr>
<tr>
<td></td>
<td>• Blue—The Identification LED is activated.</td>
</tr>
<tr>
<td></td>
<td>(For more information, see “Replacing Hard Drives” section on page 3-3.)</td>
</tr>
<tr>
<td>Power button/Power status LED</td>
<td>• Off—There is no AC power to the appliance.</td>
</tr>
<tr>
<td></td>
<td>• Amber—The appliance is in standby power mode.</td>
</tr>
<tr>
<td></td>
<td>• Green—The appliance is in main power mode. Power is supplied to all appliance components.</td>
</tr>
</tbody>
</table>
Rear Panel LEDs and Buttons

Figure 1-8 shows the rear panel LEDs and buttons. Table 1-2 defines the LED states.

### Table 1-2 Rear Panel LEDs, Definitions of States

<table>
<thead>
<tr>
<th>LED Name</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply fault</td>
<td>• Off — The power supply is operating normally.</td>
</tr>
<tr>
<td></td>
<td>• Amber, blinking — An event warning threshold has been reached, but the power supply continues to operate.</td>
</tr>
<tr>
<td></td>
<td>• Amber, solid — A critical fault threshold has been reached, causing the power supply to shut down (for example, a fan failure or an over-temperature condition).</td>
</tr>
<tr>
<td>Power supply AC OK</td>
<td>• Off — There is no AC power to the power supply.</td>
</tr>
<tr>
<td></td>
<td>• Green, blinking — AC power OK, DC output not enabled.</td>
</tr>
<tr>
<td></td>
<td>• Green, solid — AC power OK, DC outputs OK.</td>
</tr>
<tr>
<td>1-Gb Ethernet dedicated management link speed</td>
<td>• Off — Link speed is 10 Mbps.</td>
</tr>
<tr>
<td></td>
<td>• Amber — Link speed is 100 Mbps.</td>
</tr>
<tr>
<td></td>
<td>• Green — Link speed is 1 Gbps.</td>
</tr>
<tr>
<td>1-Gb Ethernet dedicated management link status</td>
<td>• Off — No link is present.</td>
</tr>
<tr>
<td></td>
<td>• Green — Link is active.</td>
</tr>
<tr>
<td></td>
<td>• Green, blinking — Traffic is present on the active link.</td>
</tr>
</tbody>
</table>
### Table 1-2  Rear Panel LEDs, Definitions of States (continued)

<table>
<thead>
<tr>
<th>LED Name</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Gb Ethernet link speed</td>
<td>- Off—link speed is 10 Mbps.</td>
</tr>
<tr>
<td></td>
<td>- Amber—link speed is 100 Mbps.</td>
</tr>
<tr>
<td></td>
<td>- Green—link speed is 1 Gbps.</td>
</tr>
<tr>
<td>1-Gb Ethernet link status</td>
<td>- Off—No link is present.</td>
</tr>
<tr>
<td></td>
<td>- Green—Link is active.</td>
</tr>
<tr>
<td></td>
<td>- Green, blinking—Traffic is present on the active link.</td>
</tr>
<tr>
<td>Identification</td>
<td>- Off—The Identification LED is not in use.</td>
</tr>
<tr>
<td></td>
<td>- Blue—The Identification LED is activated.</td>
</tr>
<tr>
<td></td>
<td>(For more information, see “Replacing Hard Drives” section on page 3-3.)</td>
</tr>
</tbody>
</table>
Installing the Appliance

This chapter describes how to install the appliance and includes the following sections:

- Installation Overview, page 2-2
- Unpacking and Inspecting the Appliance, page 2-2
- Preparing for Appliance Installation, page 2-3
- Installing the Appliance in a Rack, page 2-5

Before you install, operate, or service an appliance, review the Regulatory Compliance and Safety Information for Cisco Content Security Appliances and the Safety and Compliance Guide for Cisco IronPort Appliances for important safety information.

IMPORTANT SAFETY INSTRUCTIONS

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device. Statement 1071
## Installation Overview

To prepare for the installation of the Cisco 380 and Cisco 680 series appliance, perform the following steps:

<table>
<thead>
<tr>
<th>Step</th>
<th>Do This</th>
<th>More Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 2</td>
<td>Read the appropriate Cisco AsyncOS release notes for the Cisco 380 and Cisco 680 series appliance(s).</td>
<td>For the Cisco ESA, Cisco SMA, and Cisco WSA</td>
</tr>
<tr>
<td>Step 3</td>
<td>Unpack the appliance.</td>
<td>Unpacking and Inspecting the Appliance, page 2-2.</td>
</tr>
<tr>
<td>Step 4</td>
<td>Place the appliance on a stable work surface.</td>
<td>--</td>
</tr>
<tr>
<td>Step 5</td>
<td>View installation guidelines, rack requirements, and equipment requirements.</td>
<td>Preparing for Appliance Installation, page 2-3.</td>
</tr>
<tr>
<td>Step 6</td>
<td>Mount the appliance with the provided slide rails.</td>
<td>Installing the Appliance in a Rack, page 2-5.</td>
</tr>
</tbody>
</table>

## Unpacking and Inspecting the Appliance

### Caution

Do NOT open the appliance. Doing so violates your support agreement. The appliance does not contain any serviceable components.

### Tip

Keep the shipping container in case the appliance requires shipping in the future.

### 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.

To inspect the shipment, follow these steps:

<table>
<thead>
<tr>
<th>Step 1</th>
<th>Remove the appliance from its cardboard container and save all packaging material.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 2</td>
<td>Compare the shipment to the equipment list provided by your customer service representative. Verify that you have all items.</td>
</tr>
</tbody>
</table>
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

The shipping box contents include:
- Appliance
- Slide rail kit
- Power cables (2)
- Ethernet cable for connecting the appliance to your network
- RJ-45 to DB-9 cable for connecting a computer to the console port
- Quick Start Guide
- Regulatory Safety and Compliance Information

Note  Two locking keys are included with the locking faceplate version of the Cisco 680 series appliance.

Preparing for Appliance Installation

This section provides information about preparing for appliance installation, and it includes the following topics:
- Installation Guidelines, page 2-3
- Rack Requirements, page 2-4
- Equipment Requirements, page 2-5
- Slide Rail Adjustment Range, page 2-5

Installation Guidelines

Warning  To prevent the system from overheating, do not operate it in an area that exceeds the maximum recommended ambient temperature of: 35° C (95° F).
Statement 1047

Warning  The plug-socket combination must be accessible at all times, because it serves as the main disconnecting device.
Statement 1019
Warning Before performing any of the following procedures, ensure that power is removed from the DC circuit.

Statement 1003

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

Warning This product relies on the building’s installation for short-circuit (overcurrent) protection. Ensure that the protective device is rated not greater than: 250 V, 15 A.

Statement 1005

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

Statement 1074

Caution Do not block the air vents on the top of the appliance’s cover. Do not stack another appliance directly on top of the appliance. Doing so blocks the proper airflow, which could result in overheating, higher fan speeds, and higher power consumption.

Caution Avoid UPS types that use ferro resonant technology. These UPS types can become unstable with systems such as the Cisco 380 and Cisco 680 series appliance, which can have substantial current draw fluctuations from fluctuating data traffic patterns.

When you are installing a appliance, use the following guidelines:

• Plan your site configuration and prepare the site before installing the appliance.
• Ensure that there is adequate space around the appliance to allow for servicing the appliance and for adequate airflow. The airflow in this appliance is from front to back.
• Ensure that the air-conditioning meets the thermal requirements listed in Appliance Specifications.
• Ensure that the cabinet or rack meets the requirements listed in the “Rack Requirements” section on page 2-4.
• Ensure that the site power meets the power requirements listed in the Appliance Specifications. If available, you can use an uninterruptible power supply (UPS) to protect against power failures.

Rack Requirements

This section provides the requirements for the standard open racks.

The rack must be of the following type:

• A standard 19-in. (48.3-cm) wide, four-post EIA rack, with mounting posts that conform to English universal hole spacing, per section 1 of ANSI/EIA-310-D-1992.
• The rack post holes can be square 0.38-inch (9.6 mm), round 0.28-inch (7.1 mm), #12-24 UNC, or #10-32 UNC when you use the supplied slide rails.
• The minimum vertical rack space per appliance must be two RUs, equal to 3.5 in. (88.9 mm).

Equipment Requirements

The slide rails supplied by Cisco Systems for this appliance do not require tools for installation if you install them in a rack that has square 0.38-inch (9.6 mm), round 0.28-inch (7.1 mm), or #12-24 UNC threaded holes. The inner rails are pre-attached to the sides of the appliance.

However, if you install the slide rails in a rack that has #10-32 round holes, a bladed screwdriver is required to remove the larger square/round mounting pegs from the front of the slide rails.

Slide Rail Adjustment Range

The slide rails for this appliance have an adjustment range of 26 to 36 inches (660 to 914 mm).

Installing the Appliance in a Rack

This section describes how to install the appliance in a rack.

⚠️ 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

To install the slide rails and the appliance into a rack, follow these steps:

Step 1
Install the slide rails into the rack (see Figure 2-1):

a. Align the slide-rail assembly inside the rack posts with the length-adjustment bracket (Figure 2-1, item 4) toward the rear of the rack.

b. Compress the length-adjustment bracket until the mounting pegs (item 5) and locking clips (item 6) engage the desired rack holes on the front and rear rack posts.
   - The mounting pegs fit square 0.38-inch (9.6 mm), round 0.28-inch (7.1 mm), or #12-24 UNC threaded holes. They fit the shape of the hole when the pegs are compressed.
   - The smaller #10-32 round mounting pegs are enclosed in the center of the compressible rear pegs. However, to use the #10-32 pegs, you must use a bladed screwdriver to remove the square/round front pegs.
c. Attach the second slide-rail assembly to the opposite side of the rack. Ensure that the two slide-rail assemblies are level and at the same height with each other.

d. Pull the inner slide rails on each assembly out toward the rack front until they hit the internal stops and lock in place.

Step 2

Insert the appliance into the slide rails (see Figure 2-2):

Caution

This appliance weighs approximately 60 pounds (28 kilograms) when fully loaded with components. We recommend that you use a minimum of two people when lifting the appliance. Attempting this procedure alone could result in personal injury or equipment damage.

Note

The inner rails are pre-attached to the sides of the appliance at the factory. You can order replacement inner rails if these are damaged or lost (Cisco PID CCS-RAIL=).

a. Align the inner rails that are attached to the appliance sides with the front ends of the empty slide rails.

b. Push the appliance into the slide rails until it stops at the internal stops.

c. Push in the slide rail locking clip (item 2) on each inner rail, and then continue pushing the appliance into the rack until its front flanges latch onto the rack posts.
Connecting the Interface Cables and Verifying Connectivity

This section describes how to connect the cables to the console and management ports.

**Warning**

Only trained and qualified personnel should install, replace, or service this equipment. Statement 49

**Caution**

Read the safety warnings in the Regulatory Compliance and Safety Information for Cisco Content Security Appliances and the Safety and Compliance Guide for Cisco IronPort Appliances and follow proper safety procedures when performing any tasks in this document.

To connect cables to the ports, perform the following steps:

**Step 1**

Place the appliance on a flat, stable surface, or in a rack (if you are rack-mounting it).

**Step 2**

Before connecting a computer or terminal to the ports, determine the baud rate of the computer console port. The baud rate must match the default baud rate (9600 baud) of the console port of the Cisco 380 and Cisco 680 Series appliance. Set up the terminal as follows: 9600 baud (default), 8 data bits, no parity, 1 stop bits, and Flow Control (FC) set to Hardware.

**Step 3**

Connect the cables to the ports.

a. Management port—For more information, see the figures in PCI NIC Slot Configurations, page 1-4 for illustrations of the management port on the Cisco 380 and Cisco 680 appliance.
- Connect one RJ-45 connector to the management interface port.
- Connect the other end of the Ethernet cable to the management port on your computer and make sure that your computer is configured to obtain an IP address using DHCP.

b. Console port—for use with the CLI.
- Connect the console cable. The console cable has a DB-9 connector on one end for the console port on your computer and the other end is an RJ-45 connector.
- Connect the RJ-45 connector to the console port on the Cisco 380 and Cisco 680 appliance.
- Connect the other end of the cable, the DB-9 connector, to the console port on your computer.

c. Ethernet ports—direct connection.
- Connect the RJ-45 connector to the Ethernet port.
- Connect the other end of the Ethernet cable to your network device, such as a router, switch, or hub.

Step 4  Connect the power cord to the Cisco 380 and Cisco 680 appliance and connect the other end to your power source.

Step 5  Power on the appliance.

Note  If turned on quickly after connecting power to the appliance, the appliance powers up, the fans spin, and the LEDs turn on. Within 30-60 seconds, the fans stop and all LEDs turn off. The appliance powers on 31 seconds later. This behavior is by design to allow the system firmware and controller to synchronize.

Step 6  Check the Power LED on the front of the Cisco 380 and Cisco 680 appliance. When it is solid green, the appliance is powered on.

For additional information on installation and post-installation tasks, see the following hardware Quick Start Guides:

- Cisco M380 and M680 Content Security Management Appliance Quick Start Guide
- Cisco M380 and Cisco M680 Content Security Management Appliance Quick Start Guide
- Cisco S380 and Cisco S680 Web Security Appliance Quick Start Guide
Maintaining the Appliance

Revised: August 30, 2020  
Part Number: OL-29172-01

This chapter provides maintenance information about the Cisco 380 and Cisco 680 series appliance, including how to replace the pre-installed hard disk drives.

This chapter includes the following sections:

- Power Supplies, page 3-1
- Remote Power Management, page 3-2
- Replacing Hard Drives, page 3-3
- Replacing Hard Drives, page 3-4

Power Supplies

The Cisco 380 and Cisco 680 series appliance ships with either two AC power supplies or two DC power supplies installed.

Each AC power supply provides 650 watt output power. Each DC power supply provides 930 watt output power. For additional information, see the “Power Specifications” section on page A-3.

The AC power supplies can use any of the power cables listed in “Supported Power Cords and Plugs” section on page C-1. The DC power supplies use only one model of power cord, which is included with the power unit.

Note

You cannot add additional power supplies but you can replace a failed power supply. You cannot use a combination of AC and DC power supplies. When you replace a power supply, you must replace it with the same type of unit.
Remote Power Management

Remote power management allows remote reboot of the appliance. To perform the remote power cycle, you need to:

- Connect the appliance interface to a remotely accessible network
- Configure the interface via AsyncOS using the remotepower command
- When needed, perform the Power Rest directly to the chassis using software that speaks IPMI (Intelligent Platform Management Interface)

Enable Remote Power Management

To enable remote power management:

**Step 1** Connect the “remote power management” RPC interface port of the appliance to a remotely accessible network.

**Step 2** Using SSH, telnet, or the serial port to access the appliance AsyncOS CLI, enter the remotepower command. This command is only available through the CLI.

The access to IPMI remote power commands display as currently disabled.

**Step 3** From the setup prompt, enter setup to configure IPMI for chassis remote power access.

**Step 4** Type \( y \) and enter to enable remote access.

**Step 5** Enter the IP address (IPv4 only) for the chassis. For example:

\( 1.1.1.2 \)

**Step 6** Enter the netmask. For example:

\( 255.255.255.0 \)

**Step 7** Enter the gateway address. For example:

\( 1.1.1.1 \)

**Step 8** Enter the username and password that will be used to log in to the chassis. For example, username “admin” and password.

**Note**
The username and password entered here are independent of the AsyncOS.

This username and password are sent in clear text and will be visible to anyone who can monitor your network. You should take precautions to ensure the remote management port is connected directly to a secure network.

**Step 9** Enter the password again to confirm.

The current remote power settings are displayed.

**Step 10** At the setup prompt enter (or hit return key) and from the chassis prompt, enter commit to save your changes.
Once the change is committed, you can only control IPMI “chassis power” options.

Other IPMI Options

Other IPMI client software for is available that can be used to remotely power down and reboot the chassis.

- Ipmitool is available for Unix-type hosts and uses the following command:
  remotemachine$ ipmitool -I lanplus -H 1.1.1.2 -U admin -P password chassis power reset
- Software available for Windows, such as Supermicro’s IPMI View for Windows.

Replacing Hard Drives

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

Warning Class 1 laser product.

Statement 1008

Caution When handling appliance components, wear an ESD strap to avoid damage.

Tip You can press the Identification button on the front panel or rear panel to turn on a flashing Identification LED on the front and rear panels of the appliance. This allows you to locate the specific appliance that you are servicing when you go to the opposite side of the rack. See the “Status LEDs and Buttons” section on page 1-7 for locations of these LEDs. To use a serial number to locate a specific Cisco 380 or Cisco 680 appliance, look at the label on the back of the unit.
Replacing Hard Drives

This section includes the following information:

- Drive Population Guidelines, page 3-4
- Drive Replacement Procedure, page 3-5

You can only replace a failed drive. You cannot insert an addition drive. Additional user-installed drives will not be recognized by the system.

Drive Population Guidelines

The Cisco 380 and Cisco 680 series appliance includes up to eight small form-factor (SFF) drives, with a 24-drive backplane and expander. However, the various models of the Cisco 380 and Cisco 680 series appliance only support the use of between two to eight of the slots for the hard drives.

None of the models support more than eight hard drives. Because each model supports a different maximum number of hard drives, see the “Hardware and Technical Specifications” section on page A-2 for the number of hard drives supported by each specific model.

The drive-bay numbering is shown in Figure 3-1. It shows twenty-two hard drives, which is much more than the number supported by any model of the Cisco 380 and Cisco 680 series appliances.

![Figure 3-1 Drive Numbering, Small Form-Factor Drives](image)

Observe these drive population guidelines for optimal performance:

- None of the models support the use of drives in slots 10 through 23. The front bezel latches cover two of the drive slots (slot 1 and slot 24).
- You cannot install more drives than the number supported for your model. You can only replace drives that are no longer working.
- When you replace a drive, you must use the same slot as the drive that you replaced.
- Do not remove the panels that cover empty drive slots.
Drive Replacement Procedure

To replace or install a hot-pluggable hard drive, follow these steps:

**Tip**
You do not have to shut down or power off the appliance to replace hard drives because they are hot-pluggable.

**Step 1** Remove the drive that you are replacing or remove a blank drive tray from an empty bay:

a. Press the release button on the face of the drive tray. See Figure 3-2.

b. Grasp and open the ejector lever and then pull the drive tray out of the slot.

**Step 2** Install a new drive:

c. With the ejector lever on the drive tray open, insert the drive tray into the empty drive bay.

d. Push the tray into the slot until it touches the backplane, then close the ejector lever to lock the drive in place.

**Note**
You cannot use most of the slots for the hard drives. To see the maximum number of hard drives supported for each specific model, refer to the “Hardware and Technical Specifications” section on page A-2. When you replace a drive, you must use the same slot as the drive that you replaced.

![Figure 3-2 Replacing Hard Drives](image)

1  Release button  2  Ejector lever

Contacting Service and Support

You can contact support using one of the following methods:


U.S. Toll-Free Number: 1-800-553-2447 or 1-408-526-7209

Appliance Specifications

Revised: December 14, 2017
Part Number: OL-29172-01

This appendix lists the technical specifications for the appliance and includes the following sections:

- Physical Specifications, page A-1
- Hardware and Technical Specifications, page A-2
- Power Specifications, page A-3
- Environmental Specifications, page A-4

Physical Specifications

Table A-1 lists the physical specifications for the appliance.

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>3.5 in. (8.96 cm)</td>
</tr>
<tr>
<td>Width (including slam-latches)</td>
<td>19.0 in. (48.37 cm)</td>
</tr>
<tr>
<td>Depth</td>
<td>29.0 in. (73.77 cm)</td>
</tr>
<tr>
<td>Weight (fully loaded)</td>
<td>65.5 lbs. (29.7 Kg)</td>
</tr>
</tbody>
</table>
## Hardware and Technical Specifications

Table A-2 lists a summary of appliance features.

<table>
<thead>
<tr>
<th>Chassis</th>
<th>Two rack-unit (2RU) chassis.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processors</td>
<td>Two Intel Xeon E5-2620 Series processors (2.0 G, 6C).</td>
</tr>
</tbody>
</table>

**Note**  
The Cisco S680 has two Intel Xeon E5-2680 Series processors (2.7 G, 8C). The Cisco C380 and Cisco S380 each have one Intel Xeon E5-2620 Series processors (2.0 G, 6C).

<table>
<thead>
<tr>
<th>Memory</th>
<th>4 GB DDR3-1600-MHz RDIMM DRAM⁴.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Cisco C380 Email Security appliance includes four (4) 4 GB DDR3-1600-MHz RDIMM DRAM.</td>
</tr>
<tr>
<td></td>
<td>• Cisco C680 Email Security appliance includes eight (8) 4 GB DDR3-1600-MHz RDIMM DRAM.</td>
</tr>
<tr>
<td></td>
<td>• Cisco M380 Content Security Management appliance includes eight (8) 4 GB DDR3-1600-MHz RDIMM DRAM.</td>
</tr>
<tr>
<td></td>
<td>• Cisco M680 Content Security Management appliance includes eight (8) 4 GB DDR3-1600-MHz RDIMM DRAM.</td>
</tr>
<tr>
<td></td>
<td>• Cisco S380 Web Security appliance includes four (4) 4 GB DDR3-1600-MHz RDIMM DRAM.</td>
</tr>
<tr>
<td></td>
<td>• Cisco S680 Web Security appliance includes eight (8) 4 GB DDR3-1600-MHz RDIMM DRAM.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Network and management I/O</th>
<th>The appliance provides these connectors:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• One 1-Gb Ethernet dedicated management port</td>
</tr>
<tr>
<td></td>
<td>• Four 1-Gb Base-T Ethernet LAN ports</td>
</tr>
<tr>
<td></td>
<td>• One console port (RJ-45 connector)</td>
</tr>
<tr>
<td></td>
<td>• Two USB² 2.0 connectors</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Redundant AC Power</th>
<th>Two power supplies: Both 650 W each.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Redundant as 1+1. See Power Specifications, page A-3.</td>
</tr>
</tbody>
</table>

| Cooling                     | Two fan modules for front-to-rear cooling. |

| PCIe I/O                    | Five horizontal PCIe³ expansion slots on two risers. See PCI NIC Slot Configurations, page 1-4. |
Table A-2  
**Cisco 380 and Cisco 680 Series Appliance Features (continued)**

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hard Drives</td>
<td>Hard drives are installed into front-panel drive bays that provide hot-pluggable access. All appliances have small form-factor (SFF) drives with a 24-drive backplane and expander. The front latch bezels cover two drive slots (1 and 24). The appliance has the following 2.5-inch hard-drive configurations.</td>
</tr>
<tr>
<td></td>
<td>• Cisco C380 Email Security appliance includes two (2) 600 G HDDs.</td>
</tr>
<tr>
<td></td>
<td>• Cisco C680 Email Security appliance includes six (6) 300 G HDDs.</td>
</tr>
<tr>
<td></td>
<td>• Cisco M380 Content Security Management appliance includes four (4) 600 G HDDs.</td>
</tr>
<tr>
<td></td>
<td>• Cisco M680 Content Security Management appliance includes eight (8) 600 G HDDs.</td>
</tr>
<tr>
<td></td>
<td>• Cisco S380 Web Security appliance includes four (4) 600 G HDDs.</td>
</tr>
<tr>
<td></td>
<td>• Cisco S680 Web Security appliance includes eight (8) 600 G HDDs.</td>
</tr>
<tr>
<td>RAID Configuration</td>
<td>The RAID$^4$ will be configured as RAID 10 except in the case of two disk configurations, in which the RAID will be configured as RAID 1.</td>
</tr>
<tr>
<td>RAID Backup</td>
<td>The LSI battery backup unit.</td>
</tr>
</tbody>
</table>

1. DRAM = dynamic random-access memory
2. USB = universal serial bus
3. PCIe = peripheral component interconnect express
4. RAID = redundant array of independent disks

**Power Specifications**

Table A-3 lists the specifications for each 650 W AC power supply.

Table A-3  
**AC Power Supply Specifications**

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC input voltage range</td>
<td>90 to 264 VAC (self-ranging, 180 to 264 VAC nominal)</td>
</tr>
<tr>
<td>AC input frequency</td>
<td>Range: 47 to 63 Hz (single phase, 50 to 60Hz nominal)</td>
</tr>
<tr>
<td>AC line input current (steady state)</td>
<td>7.6 A peak at 100 VAC 3.65 A peak at 208 VAC</td>
</tr>
<tr>
<td>Maximum output power for each power supply</td>
<td>650 W</td>
</tr>
<tr>
<td>Power supply output voltage</td>
<td>Main power: 12 VDC Standby power: 12 VDC</td>
</tr>
</tbody>
</table>
Table A-4 lists the specifications for each 930 W DC power supply.

**Table A-4  DC Power Supply Specifications**

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class</td>
<td>RSP1</td>
</tr>
<tr>
<td>DC input voltage range</td>
<td>40 to 72 VDC (self-ranging, 48 to 60 VDC nominal)</td>
</tr>
<tr>
<td>DC line input current (steady state)</td>
<td>23 A peak at 48 VDC</td>
</tr>
<tr>
<td>12V main power output</td>
<td>930 W</td>
</tr>
<tr>
<td>12V standby power output</td>
<td>30 W</td>
</tr>
<tr>
<td>Power supply output voltage</td>
<td>Main power: 12 VDC</td>
</tr>
<tr>
<td></td>
<td>Standby power: 12 VDC</td>
</tr>
</tbody>
</table>

**Environmental Specifications**

Table A-5 lists the environmental specifications for the appliance.

**Table A-5  Environmental Specifications**

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature, operating:</td>
<td>41 to 104°F (5 to 40°C)</td>
</tr>
<tr>
<td></td>
<td>Derate the maximum temperature by 1°C per every</td>
</tr>
<tr>
<td></td>
<td>305 meters of altitude above sea level.</td>
</tr>
<tr>
<td>Temperature, non-operating</td>
<td>–40 to 149°F (–40 to 65°C)</td>
</tr>
<tr>
<td>Humidity (RH), noncondensing</td>
<td>10 to 90%</td>
</tr>
<tr>
<td>Altitude, operating</td>
<td>0 to 10,000 feet</td>
</tr>
<tr>
<td>Altitude, non-operating</td>
<td>0 to 40,000 feet</td>
</tr>
<tr>
<td>Sound power level</td>
<td>5.8</td>
</tr>
<tr>
<td>Measure A-weighted per ISO7779 LwAd</td>
<td></td>
</tr>
<tr>
<td>Operation at 73°F (23°C)</td>
<td></td>
</tr>
<tr>
<td>Sound pressure level</td>
<td>43</td>
</tr>
<tr>
<td>Measure A-weighted per ISO7779 LpAm</td>
<td></td>
</tr>
<tr>
<td>Operation at 73°F (23°C)</td>
<td></td>
</tr>
</tbody>
</table>
Identifying Cable Pinouts

Revised: October 4, 2013
Part Number: OL-29172-01

This appendix describes pinout information for the 10/100/1000BaseT ports, the RJ-45 to DB-9 ports, and the RJ-45 cables for the console port.

This chapter includes the following sections:

- 10/100/1000BaseT Connectors, page B-1
- Console Port (RJ-45), page B-2
- RJ-45 to DB-9, page B-4

10/100/1000BaseT Connectors

The Cisco 380 and Cisco 680 series appliance supports 10/100/1000BaseT ports. You must use at least a Category 5 cable for 100/1000BaseT operations, but a Category 3 cable can be used for 10BaseT operations.

The 10/100/1000BaseT ports use standard RJ-45 connectors and support MDI and MDI-X connectors. Ethernet ports normally use MDI connectors and Ethernet ports on a hub normally use an MDI-X connector. Use an Ethernet straight-through cable to connect an MDI to an MDI-X port. Use a cross-over cable to connect an MDI to an MDI port, or an MDI-X to an MDI-X port.
Figure B-1 shows the 10BaseT, 100BaseTX, and 1000BASE-T connector (RJ-45).

**Figure B-1  10/100/1000 Port Pinouts**

<table>
<thead>
<tr>
<th>Pin</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TP0+</td>
</tr>
<tr>
<td>2</td>
<td>TP0-</td>
</tr>
<tr>
<td>3</td>
<td>TP1+</td>
</tr>
<tr>
<td>4</td>
<td>TP2+</td>
</tr>
<tr>
<td>5</td>
<td>TP2-</td>
</tr>
<tr>
<td>6</td>
<td>TP1-</td>
</tr>
<tr>
<td>7</td>
<td>TP3+</td>
</tr>
<tr>
<td>8</td>
<td>TP3-</td>
</tr>
</tbody>
</table>

**Console Port (RJ-45)**

Cisco products use the following types of RJ-45 cables:

- Straight-through
- Crossover

**Note**

Cisco does not provide these cables, yet they are widely available from other sources.

Figure B-2 shows the RJ 45 cable.

**Figure B-2  RJ-45 Cable**
To identify the RJ-45 cable type, hold the two ends of the cable next to each other so that you can see the colored wires inside the ends, as shown in Figure B-3.

**Figure B-3  RJ-45 Cable Identification**

Examine the sequence of colored wires to determine the type of RJ-45 cable, as follows:

- **Straight-through**—The colored wires are in the same sequence at both ends of the cable.
- **Crossover**—The first (far left) colored wire at one end of the cable is the third colored wire at the other end of the cable.
Table B-1 lists the rolled (console) cable pinouts for RJ-45.

### Table B-1 RJ-45 Rolled (Console) Cable Pinouts

<table>
<thead>
<tr>
<th>Signal</th>
<th>Pin</th>
<th>Pin</th>
<th>Pin</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>7</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>6</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>5</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>4</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>3</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>2</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>1</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

### RJ-45 to DB-9

Table B-2 lists the cable pinouts for RJ-45 to DB-9.

### Table B-2 Cable Pinouts for RJ-45 to DB-9

<table>
<thead>
<tr>
<th>Signal</th>
<th>RJ-45 Pin</th>
<th>DB-9 Pin</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTS</td>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td>DTR</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>TxD</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>GND</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>GND</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>RxD</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>DSR</td>
<td>7</td>
<td>6</td>
</tr>
<tr>
<td>CTS</td>
<td>8</td>
<td>8</td>
</tr>
</tbody>
</table>
Power Cord Specifications

Revised: October 4, 2013
Part Number: OL-29172-01

This appendix provides supported power cable specifications.

Supported Power Cords and Plugs

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

Note

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

Table C-1 lists the power cords for the appliance power supplies.

Table C-1   Supported Power Cords for the Appliance

<table>
<thead>
<tr>
<th>Description</th>
<th>Length</th>
<th>Power Cord Reference Illustration</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAB-JPN-3PIN Power Cord, 3 PIN Japan</td>
<td>8.2</td>
<td>2.5</td>
</tr>
<tr>
<td>CAB-250V-10A-CN AC Power Cord, 250V 10 A - PRC China</td>
<td>8.2</td>
<td>2.5</td>
</tr>
<tr>
<td>SFS-250V-10A-AR Power Cord, 250 VAC 10 A IRAM 2073 Plug Argentina</td>
<td>8.2</td>
<td>2.5</td>
</tr>
<tr>
<td>CAB-9K10A-AU 250 VAC 10 A 3112 Plug, Australia</td>
<td>8.2</td>
<td>2.5</td>
</tr>
<tr>
<td>SFS-250V-10A-CN Power Cord, 250 VAC 10 A GB 2009 Plug China</td>
<td>8.2</td>
<td>2.5</td>
</tr>
</tbody>
</table>
### Table C-1  Supported Power Cords for the Appliance (continued)

<table>
<thead>
<tr>
<th>Description</th>
<th>Length</th>
<th>Power Cord Reference Illustration</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAB-9K10A-EU</td>
<td>8.2</td>
<td>Figure C-6</td>
</tr>
<tr>
<td>Power Cord, 250 VAC 10 A M 2511 Plug Europe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SFS-250V-10A-ID</td>
<td>8.2</td>
<td>Figure C-7</td>
</tr>
<tr>
<td>Power Cord, 250 VAC 16A EL-208 Plug South Africa, United Arab Emirates, India</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SFS-250V-10A-IS</td>
<td>8.2</td>
<td>Figure C-8</td>
</tr>
<tr>
<td>Power Cord, 250 VAC 10 A SI32 Plug Israel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAB-9K10A-IT</td>
<td>8.2</td>
<td>Figure C-9</td>
</tr>
<tr>
<td>Power Cord, 250 VAC 10 A CEI 23-16 Plug Italy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAB-9K10A-SW</td>
<td>8.2</td>
<td>Figure C-10</td>
</tr>
<tr>
<td>Power Cord, 250 VAC 10 A MP232 Plug Switzerland</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAB-9K10A-UK</td>
<td>8.2</td>
<td>Figure C-11</td>
</tr>
<tr>
<td>Power Cord, 250 VAC 10 A BS1363 Plug (13 A fuse) United Kingdom</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAB-AC-L620-C13</td>
<td>6.6</td>
<td>Figure C-12</td>
</tr>
<tr>
<td>Power Cord, 250 VAC 13 A IEC60320 Plug North America</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAB-N5K6A-NA</td>
<td>8.2</td>
<td>Figure C-13</td>
</tr>
<tr>
<td>Power Cord, 250 VAC 13 A NEMA 6-15 Plug, North America</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAB-9K12A-NA</td>
<td>8.2</td>
<td>Figure C-14</td>
</tr>
<tr>
<td>Power cord, 125 VAC, 13 A, NEMA 5-15 Plug North America</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAB-C13-CBN</td>
<td>2.2</td>
<td>Figure C-15</td>
</tr>
<tr>
<td>Cabinet Jumper Power Cord, 250 VAC 10 A, C13-C14 Connectors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAB-C13-C14-2M</td>
<td>6.6</td>
<td>Figure C-16</td>
</tr>
<tr>
<td>Cabinet Jumper Power Cord, 250 VAC 10 A, C13-C14 Connectors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAB-C13-C14-AC</td>
<td>9.8</td>
<td>Figure C-17</td>
</tr>
<tr>
<td>Cabinet Jumper Power Cord, 250 VAC 10 A, C13-C14 Connectors</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
AC Power Cord Illustrations

This section includes the AC power cord illustrations. See Figure C-1 through Figure C-17.

**Figure C-1**  
**CAB-JPN-3PIN**

- **Plug:** EL302 (JIS C8303)
- **Cordset rating:** 12A, 125V (2400 mm)
- **Connector:** EL701B (IEC 60320/C13)

**Figure C-2**  
**CAB-250V-10A-CN**

- **Plug:** EL-218
- **Cordset rating:** 10A, 250V (2500 mm)
- **Connector:** EL 701D

**Figure C-3**  
**SFS-250V-10A-AR**

- **Plug:** EL 219 (IRAM 2073)
- **Cordset rating:** 10 A, 250/500 V MAX
- **Length:** 8.2 ft
- **Connector:** EL 701 (IEC60320/C13)
**Figure C-4**  
**CAB-9K10A-AU**

- **Plug:** EL 206 (A.S. 3112-2000)
- **Connector:** EL 701C (IEC 60320/C15)
- **Cordset rating:** 10 A, 250 V/500V
- **Length:** 2500mm

---

**Figure C-5**  
**SFS-250V-10A-CN**

- **Plug:** EL 218 (CCEE GB2009)
- **Connector:** EL 701 (IEC60320/C13)
- **Cordset rating:** 10A, 250V (2500 mm)

---

**Figure C-6**  
**CAB-9K10A-EU**

- **Plug:** M2511
- **Connector:** VSCC15
- **Cordset rating:** 10A/16 A, 250 V
- **Length:** 8 ft 2 in. (2.5 m)
Figure C-7  
**SFS-250V-10A-ID**

- **Plug:** EL 208
- **Cordset rating:** 16A, 250V (2500mm)
- **Connector:** EL 701

Figure C-8  
**SFS-250V-10A-IS**

- **Plug:** EL 212 (SI-32)
- **Cordset rating:** 10A, 250V/500V MAX (2500 mm)
- **Connector:** EL 701B (IEC60320/C13)

Figure C-9  
**CAB-9K10A-IT**

- **Plug:** 1/3G (CEI 23-16)
- **Cordset rating:** 10 A, 250 V
- **Length:** 8 ft 2 in. (2.5 m)
- **Connector:** C15M (EN60320/C15)
Figure C-10 CAB-9K10A-SW

**Plug:**
MP232-R

Cordset rating: 10 A, 250 V
Length: 8 ft. 2 in (2.5 m)

**Connector:**
IEC 60320 C15

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Figure C-11 CAB-9K10A-UK

**Plug:**
EL 210 (BS 1363A) 13 AMP fuse

Cordset rating: 10 A, 250 V/500 V MAX
Length: 2500mm

**Connector:**
EL 701C (EN 60320/C15)

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Figure C-12 CAB-AC-250V/13A

**Plug:**
EL312MoldedTwistlock (NEMA L6-20)

Cordset rating 13A, 250V
(6.6 feet) (79±2m)

**Connector:**
EL 701 (IEC60320/C13)
**Figure C-13** CAB-N5K6A-NA

- **Plug:** NEMA 6-15P
- **Cordset rating:** 10 A, 250 V
- **Length:** 8.2 ft
- **Connector:** IEC60320/C13

**Figure C-14** CAB-9K12A-NA

- **Plug:** NEMA 5-15P
- **Cordset rating:** 13A, 125V (8.2 ft) (2.5m)
- **Connector:** IEC60320/C15

**Figure C-15** CAB-C13-CBN, Jumper Power Cord (0.68 m)

- **Plug:** SS10A
- **Cordset rating:** 10A, 250V (686mm)
- **Connector:** HS10S
**Figure C-16**  
*CAB-C13-C14-2M, Jumper Power Cord (2 m)*

![Diagram of CAB-C13-C14-2M Jumper Power Cord (2 m)]

- **Plug:** SS10A
- **Connector:** HS10S
- **Cordset rating:** 10A, 250V
- **Length:** 2.0 m

**Figure C-17**  
*CAB-C13-C14-AC, Jumper Power Cord (3 m)*

![Diagram of CAB-C13-C14-AC Jumper Power Cord (3 m)]

- **Plug:** SS10A
- **Connector:** HS10S
- **Cordset rating:** 10A, 250V
- **Length:** 3.0 m