



CHAPTER 2

Introduction to the SCE Platform

Revised: April 19, 2010, OL-21094-02

Introduction

This chapter provides an introduction to the SCE 1000 2xGBE Platform, the Service Control hardware component.

Information About The SCE Platform

The Service Control Engine (SCE) platform, which is the hardware component of the Cisco Service Control solution, is designed to support observation, analysis, and control of Internet/IP traffic. [Table 2-1](#) summarizes model information for the SCE 1000 platform.

Table 2-1 SCE Platform Model Information

Model number	SCE 1010 2xGBE
Link Type	Gigabit Ethernet
Number of Ports	2
Number of Links	1

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- [SCE 1000 Installation Checklist, page 2-6](#)

Front Panel

The SCE 1000 Front Panel consists of ports and LEDs as shown in [Figure 2-1](#) and [Table 2-2](#), [Table 2-3](#), and [Table 2-4](#).

Figure 2-1 SCE 1000 Front Panel

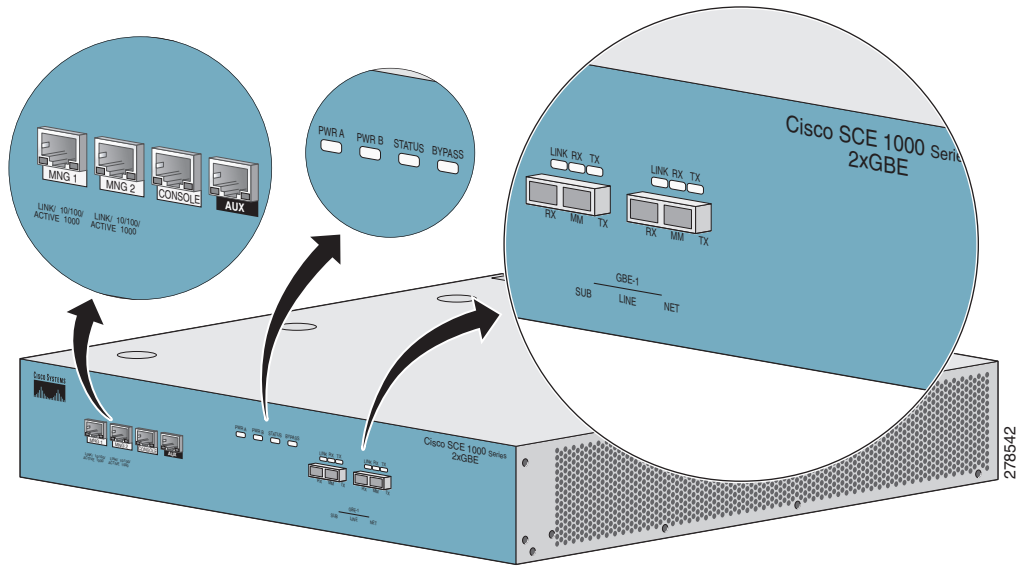


Table 2-2 SCE 1000 Ports

Port	Quantity	Description	Connect This Port To...
Mng1/ Mng2	2	10/100/1000 Ethernet RJ-45 ports for management of the SCE 1000. CLI designation: interface Management 0/1, 0/2.	A LAN using an FE cable with an RJ-45 connector. If both interfaces are used to provide a redundant management interface, connect both ports to the LAN via a switch.
Console	1	RS-232 RJ-45 port for use by technicians	A local terminal (console) using an RS-232 cable with an RJ-45 connector, as provided in the SCE 1000 kit.
AUX	1	RS-232 RJ-45 port used by technicians	
GBE ports 1-2	2	Gigabit Ethernet ports for connecting to the line CLI designation: interface Gigabit Ethernet 0/1 and 0/2	Refer to Cabling Diagrams for cabling diagrams for various topologies

Table 2-3 SCE 1000 LED Groups

LED Groups	Description
Power A	<ul style="list-style-type: none"> • Continuous green - Power supply A is functioning normally • Red - Power supply A present, but malfunctioning • Unlit - Power supply A is either not present or has failed.
Power B	<ul style="list-style-type: none"> • Continuous green - Power supply B is functioning normally • Red - Power supply B present, but malfunctioning • Unlit - Power supply B is either not present or has failed.
Status	<p>The Status LED indicates the operational status of the SCE 1000 system, as follows:</p> <ul style="list-style-type: none"> • Unlit - indicates no power from either power unit. • Orange - indicates that the system is booting up. • Flashing green - indicates that the system is fully operational. • Flashing orange - indicates that the system is operational, but is in a warning state. • Red - indicates that there is a problem or failure <p>Note that Alarms are hierarchical: Failure takes precedence over Warning, which takes precedence over operational.</p>
Bypass	<ul style="list-style-type: none"> • Continuous green - indicates that the traffic bypasses the SCE 1000 through an internal electrical bypass module. <p>The SCE 1000 is either in bypass or sniffing mode</p> <ul style="list-style-type: none"> • Unlit - traffic is not being bypassed Indicates normal operation of the SCE 1000

Table 2-4 SCE 1000 LED Groups

LED Groups	Description
GBE ports	<p>The GBE LEDs indicate the operational status of the SCE 1000 line ports, as follows:</p> <ul style="list-style-type: none"> • Link Green - indicates that the port link is up Unlit - indicates that the port link is down • Rx Flashing Green - indicates that there are incoming packets • Tx Flashing Green - indicates that there are outgoing packets
Mng	<p>The Mng port LEDs indicate the operational status of the SCE 1000 out-of-band LAN-based management port, as follows:</p> <ul style="list-style-type: none"> • Link/Active Green - indicates that the port link is up • Unlit - indicates that the port link is down o 10/100/1000 • Steady green - indicates that the port is set to 100 Mbps Unlit - indicates that the port is set to 10 Mbps • Orange - indicates that the port is set to 1000 Mbps

Back Panel

The SCE 1000 platform back-panel contains the following components:

- Two field-replaceable power supply units with ON/OFF switches
- A field-replaceable fan drawer
- Ground connections
- One connector to the external bypass module

The rear panels of both the AC- and DC-powered SCE 1000 platforms are shown in [Figure 2-2](#) and [Figure 2-3](#).

Figure 2-2 SCE 1000 Back Panel: AC Power

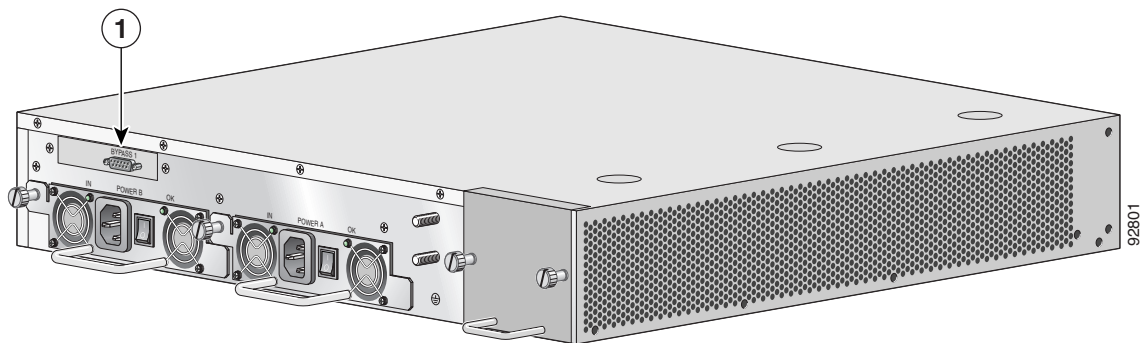
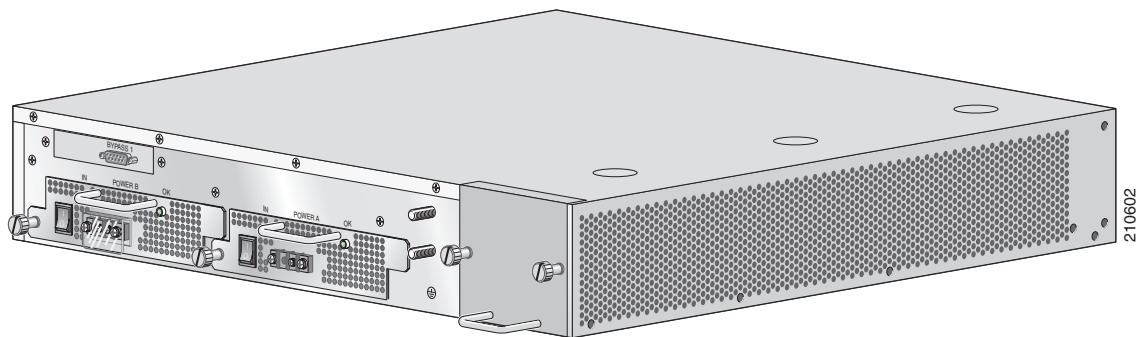


Figure 2-3 SCE Platform Back Panel: DC Power



Information About Checking the Shipping Container Contents

Use the SCE 1000 Component List to check the contents of the SCE 1000 platform shipping container. Do not discard the shipping container. You need the container if you move or ship the SCE 1000 platform in the future.

SCE 1000 Component List

Table 2-5 lists the SCE 1000 components.

Table 2-5 SCE 1000 Component List

Component	Description
SCE 1000 platform	SCE 1010 2xGBE platform configured with either AC or DC power supplies.
Accessories	The following accessories might arrive in separate shipping containers:
Rack mount kit	<ul style="list-style-type: none"> Two mounting brackets for 19" rack Six screws (Philips), 8-32 x 3/8" (for attaching the brackets to the SCE 1000 chassis) Supporting mounting brackets for 19" rack Two cross rail supports for 19" rack with front and back posts
Management cables	<ul style="list-style-type: none"> Fast Ethernet cable for connecting to the Management ports RS-232 serial cable (DB-9 to RJ-45) for connecting to a local terminal
Power cables	Two AC power supply cords, if ordered with AC-input power supply units
Grounding kit	<ul style="list-style-type: none"> Grounding cable Two Hex nuts (#1/4) Two spring washers (#1/4)
Documentation	If ordered, SCE 1000 hardware and software documentation set and the Cisco Documentation CD-ROM package ¹
Optional Equipment	Four rubber feet for tabletop installation
External Optical Bypass module kit	<ul style="list-style-type: none"> 1 External Optical Bypass module 1 19" rack mounting panel 1 control cable

1. Titles and quantities of documents will vary. You must order the type and quantity of documentation sets when you order the hardware.



Note

We no longer ship the entire SCE 1000 documentation set automatically with each system. You must specifically order the documentation as part of the sales order. If you ordered documentation and did not receive it, we will ship the documents to you within 24 hours. To order documents, contact a customer service representative.

SCE 1000 Installation Checklist

To assist you with your installation and to provide a historical record of what was done by whom, photocopy the following SCE 1000 Installation Checklist (Table 2-6). Indicate when each procedure or verification is completed. When the checklist is completed, place it in your site log along with the other records for your new SCE 1000 platform.

Table 2-6 SCE 1000 Installation Checklist

Task	Verified By	Date
Date SCE 1000 received		
SCE 1000 and all accessories unpacked		
Safety recommendations and guidelines reviewed		
Topology verified: number of SCE 1000 platforms, number of links, and whether inline or receive-only		
Installation Checklist copied		
Site log established and background information entered		
Site power voltages verified		
Site environmental specifications verified		
Required passwords, IP addresses, device names, and so on, needed for initial configuration available (refer to Setup Command Parameters)		
Required tools available		
Network connection equipment available		
SCE 1000 mounted in rack (optional)		
AC/DC power cables connected to AC/DC sources and SCE 1000 platform		
Console port set for 9600 baud, 8 data bits, no parity, and 1 stop bit (9600 8N1)		
ASCII terminal attached to console port		
FE management ports are operational		
GBE line ports operational		

Table 2-6 SCE 1000 Installation Checklist (continued)

Task	Verified By	Date
Task	Verified By	Date
Network interface cables and devices connected		
System power turned on		
System boot complete (SYSTEM-UP LED is on)		
Correct hardware configuration displayed after system banner appears		

