

Management Center Quick Start Guide

MC-S400 Appliance

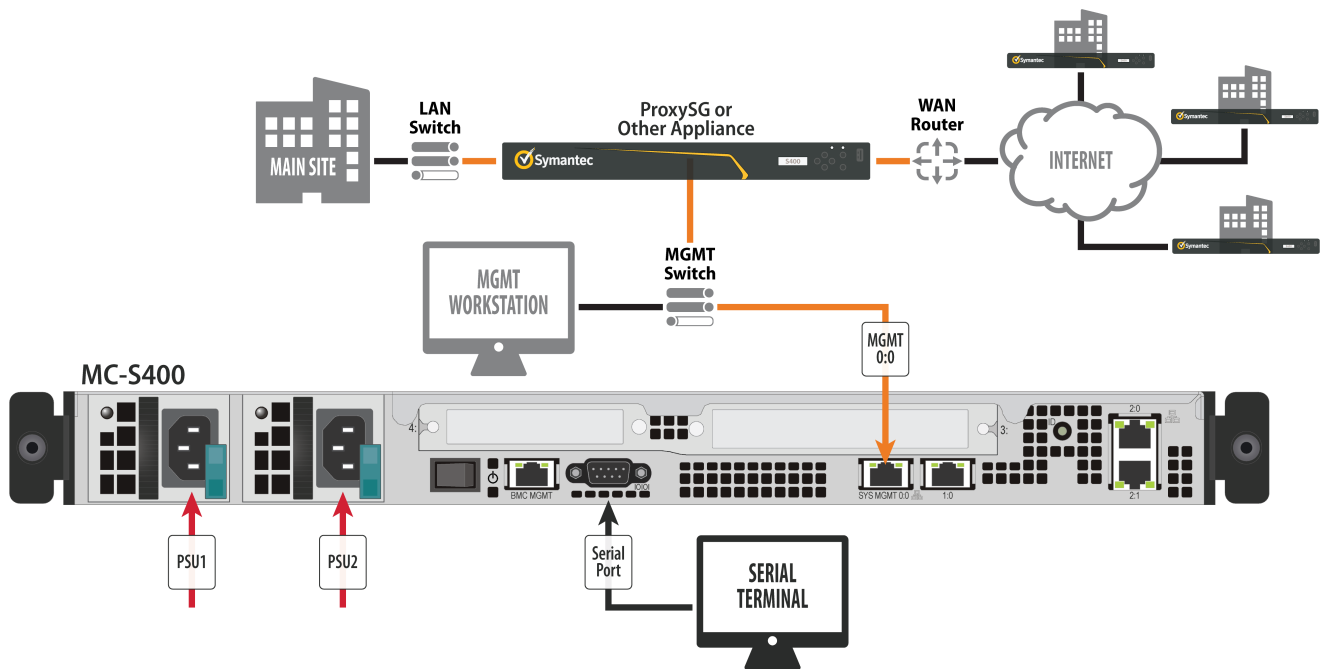


Figure 1: MC-S400 Deployment

1 — Unpack the Appliance

Unpack the shipping package for the appliance and verify it includes the following:

- MC-S400 appliance
- (2) AC power cords
- (1) Null-modem serial cable
- Grounding Hardware
- 2- and 4-post slide-rail kit
- *Accessing Appliance Documentation*
- *Software License Agreement*
- *Hardware Warranty Information*

2 — Connect Cables

It is recommended that you plug in cables, verify LEDs, and configure and license the appliance before mounting it in an equipment rack. Make sure the appliance is on a flat, level surface when performing the initial configuration. If you would rather mount the appliance before performing configuration tasks, skip to [Mount the Appliance](#).

The following procedure describes a typical deployment for MC-S400 appliances (as shown in [Figure 1](#)). For information on other deployments, see the Management Center software documentation, available at: techdocs.broadcom.com

NOTE: Network cables are not included with the appliance. Make sure to use only straight-through Ethernet cables. Category 5E cables or better are recommended for 1000Base-T operation. Category 6A cables are recommended for 10GBase-T operation.

To deploy the appliance and connect cables:

1. Deploy the ProxySG appliance per the instructions in the *ProxySG Quick Start Guide*.
2. Connect an Ethernet cable to the MC-S400's **LAN 1:0** port and connect the other end of the cable to the LAN switch. The appliance auto-negotiates 10/100/1000 Base-T speed and duplex settings.
3. Connect an Ethernet cable to the MC-S400's **MGMT 0:0** port and connect the other end of the cable to the management network switch.
4. Connect the included null-modem cable to the MC-S400's **DB9 Serial** port and connect the other end of the cable to a serial terminal or workstation with terminal emulation software. The serial connection is used to perform the appliance's initial configuration.
5. Connect the included power cords to the MC-S400's power inlets and connect the other ends of the power cords to a power source.

3 — Power On the Appliance and Verify LEDs

To verify the appliance is operational:

1. Confirm the appliance's power cords are securely connected to a power source.
2. If the appliance does not automatically power on, press the rear soft power switch.
NOTE: The state of the appliance's soft power switch (on or off) is retained when power is removed. This may necessitate pressing the power switch when reapplying power to the appliance.
3. As the appliance boots, verify the following:
 - The power LED turns amber.
 - Near the end of the boot cycle, the Power LED alternates between amber and green, indicating an unconfigured state.
 - After the boot cycle has completed, the LCD panel displays information about the appliance, such as model, serial number, and IP address, which can be scrolled through with the Right and Left Arrows.
 - Following the initial configuration and licensing, the Power LED turns green.

During operation, the front-panel status LEDs indicate the following states:

LED	Color	Description
Power Status	Off	Powered off or no power present
	Amber	Booting
	Amber/green alternating	Not yet initialized
	Green	Powered on and configured
System Status	Off	Powered off or no power present
	Green	Normal
	Amber	System fault or not yet licensed
	Amber blinking	Critical fault

4 — Perform the Initial Configuration

NOTE: To initialize the appliance, you need the following: appliance IP address; primary DNS server IP address; default gateway IP address; subnet mask; console password for advanced CLI commands.

To perform the initial configuration for the appliance:

1. Confirm the appliance's **DB9 Serial** port is connected to a serial terminal or workstation with terminal emulation software.
2. Open a terminal emulation program, such as Microsoft HyperTerminal®, PuTTY, Tera Term, or ProComm™, and configure it to use the following settings:
 - **Baud rate:** 9600 bps
 - **Data bits:** 8
 - **Parity:** none
 - **Stop bits:** 1
 - **Flow control:** none
3. Power on the appliance (if it is not already powered on) and, when prompted, press **Enter** three times.
4. When prompted, enter network configuration parameters. If the appliance is connected to a network, the Configuration Wizard attempts to verify the DNS server address and auto-detect link settings.

NOTE: The first time the MC-S400 boots, it requires approximately 5 minutes to initialize the RAID array, after which the appliance begins a one-time RAID synchronization that takes approximately 4–5 hours. You can view the status of

the RAID synchronization with the **show raid array** command in the Management Center CLI. The appliance is fully operational during RAID synchronization.

5 — License the Appliance

After the appliance has been initialized, complete the installation by licensing the appliance. Typical Management Center deployments require configuration of an HTTP Proxy to connect to the licensing servers. If the deployment includes access to the Internet, you do not need to configure the HTTP Proxy.

To license the appliance:

1. Open a terminal emulation program and log in to the appliance.
NOTE: Confirm the appliance's **DB9 Serial** port is connected to a serial terminal or workstation and that the terminal emulation software is configured as in [Perform the Initial Configuration](#).
2. When prompted with the Serial Console welcome screen, to access CLI, press: 1
3. To access privileged commands, enter: `enable`
4. When prompted, enter the enable **Password** specified during the initial configuration.
5. (Optional) If the appliance requires an HTTP Proxy to access the licensing server, configure HTTP Proxy settings by entering:

```
# configure t
(config)# proxy-settings
(config-proxy-settings)# host <proxy-IP address>
(config-proxy-settings)# port <proxy port>
(config-proxy-settings)# enable
```
6. To license the appliance, enter: `licensing load`
7. To verify the license, enter: `license details`
8. Exit CLI.

NOTE: After the license has been successfully installed, wait at least one minute for services to start before attempting to log in to the Management Console window.

6 — Verify Connectivity

Once the appliance has been initialized and licensed, verify you can log in to the appliance's Management Console window.

To log in to the appliance's Management Console window:

1. Open a browser and enter the appliance's IP address and port number. For example, an IP address of 192.168.2.42 with a port number of 8082 (the default), would be: `https://192.168.2.42:8082`
2. When prompted, enter the admin **Username** and **Password**, then click **Login**. The Management Console window opens.

NOTE: The admin username and password for the Management Console is unique and separate from the admin username and password for CLI.

7 — Perform a Graceful Shutdown

Before mounting the appliance, log in to CLI and perform a graceful shutdown of the appliance.










To perform a graceful shutdown:

1. Open a terminal emulation program and log in to the appliance.
NOTE: Confirm the appliance's **DB9 Serial** port is connected to a serial terminal or workstation and that the terminal emulation software is configured as in [Perform the Initial Configuration](#).
2. When prompted with the Serial Console welcome screen, to access CLI, press: 1
3. To access privileged commands, enter: `enable`
4. When prompted, enter the enable **Password** specified during the initial configuration.
5. Enter: `shutdown`

WARNING! Do not power off the appliance with the soft power switch or by removing the power cables! Abruptly removing power can result in irreparable data loss. Always use the **shutdown** command from CLI to power off the appliance.

8 — Mount the Appliance

The slide-rail kit included with the appliance allows it to be mounted in a 4- or 2-post equipment rack. The slide-rail kit includes the following parts:

Item	
(2) Front brackets	
(2) Inner rails	
(2) Rear brackets	
(2) Center brackets	
(2) Rack ears	
(8) M6x13 screws	
(8) M6 cage nuts	
(10) M4x4L screws	
(4) M3L4 screws	

MC-S400 Rail Kit

NOTE: Installation of the slide rails requires an M4 nut driver or adjustable wrench and a #2 Phillips head screwdriver. If you are working alone, a mechanical lift is also required.

NOTE: The following procedure documents installation for 4-post equipment racks (as shown in [Figure 3](#)). For 2-post instal-

lation, see the *S-Series WebGuide*, available at: techdocs.broadcom.com/sseries

Rack Warnings and Precautions

CAUTION! Before mounting the appliance:

- Power off the appliance (see [Perform a Graceful Shutdown](#)) and disconnect all cables.
- Verify that the weight of the system does not exceed the rack's fully populated weight limit. For more information, refer to the manufacturer's instructions included with the rack.
- For weight stability, load the rack from the bottom up.
- Read the "Rack Mount Warnings" section of the *Safety and Compliance Guide*.
- Take adequate safety and grounding measures to avoid creating an electrical shock hazard and to prevent bodily injury.
- The appliance is heavy. A two-person lift or mechanical aid is recommended to lift the appliance from the carton and install it in the rack.
- Do not place objects on the appliance or use it as a work surface. Its mounting hardware does not support additional weight.

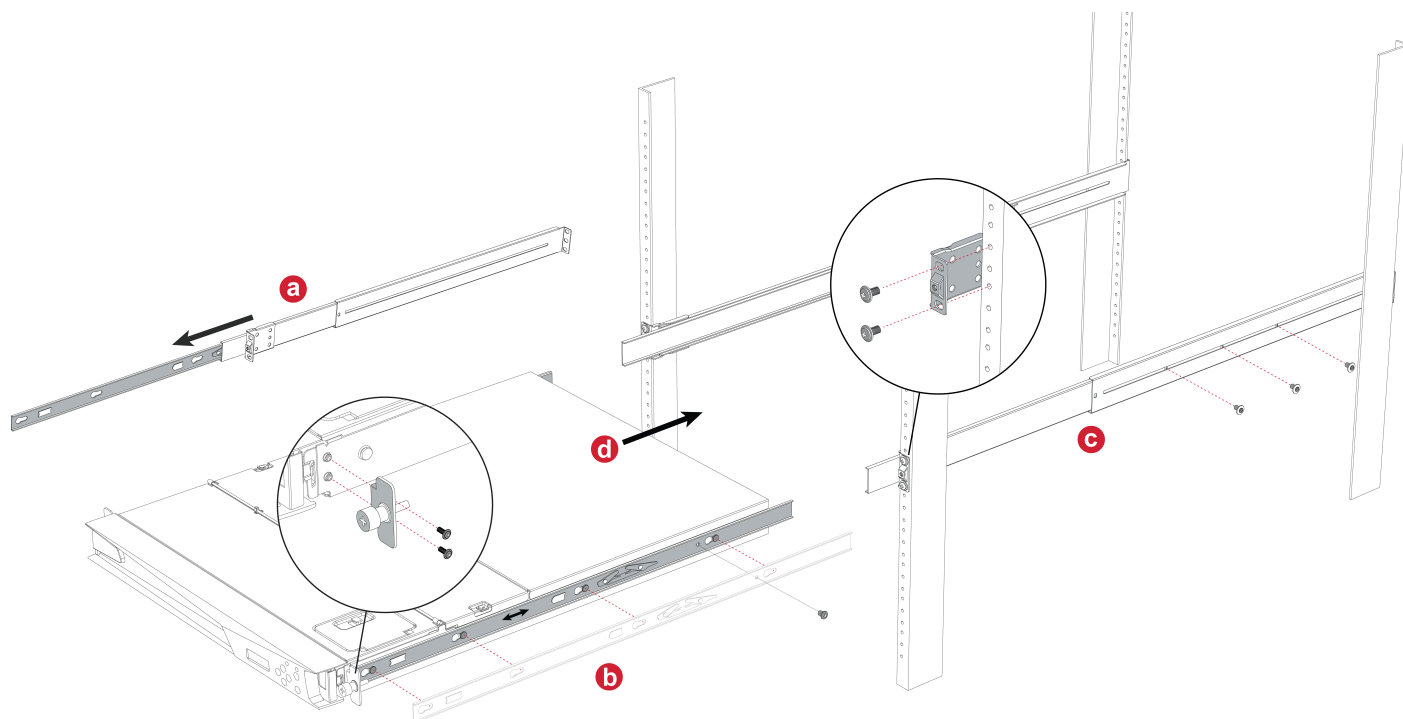


Figure 2: MC-S400 Slide-Rail Installation

Install the Appliance into the Rack

To install the appliance into a 4-post equipment rack:

1. Disassemble the two slide-rail assemblies. Extend the inner rails while pressing the center release tabs, then fully remove them **(a)**.
2. Attach the two inner rails to the chassis sides, aligning the rails with the mounting posts on the chassis, then slide the rails forward until they snap into place. Secure each rail with two M4x4L screws **(b)**.
3. Attach the two rack ears to the chassis, aligning them with the raised screw holes and orienting them with the captive screw heads toward the front of the appliance. Secure each rack ear with two M3L4 screws.
4. Install the two outer rails into the 4-post equipment rack **(c)**:
 - Secure the rear brackets to the front brackets with six M4x4L screws, three per side, placed equidistantly. Do not yet fully tighten the side-mounting screws.
 - Attach the two outer rails to the rack, extending the rails as necessary to fit the rack. Secure the front and rear brackets with two M6 rack screws each. Do not yet fully tighten the rack screws.
 - Fully tighten the side-mounting screws, three per side, securing the rear brackets to the front brackets.
 - Inspect the outer rails, making sure they are installed at the same level in the rack and free of defects, damage, and debris. Verify the rails extend and retract smoothly and stop at the slide-stop.
5. Install the chassis into the 4-post equipment rack **(d)**:
 - Align the inner rails attached to the appliance with the outer rails in the rack and slide the appliance half-way into the rack.
 - Fully tighten the M6 rack screws securing the outer rails to the rack.
 - Press the release tabs on the inner rails and gently slide the appliance all the way into the rack.
 - Tighten the captive thumbscrews on the appliance's rack ears to prevent the appliance from sliding out of the rack.
6. Reconnect the cables as documented in [Connect Cables](#) and verify the appliance is functioning as in [Power On the Appliance and Verify LEDs](#).

See below for support and additional documentation.

Symantec Technical Support

- For Symantec technical support, case management, licenses, and product downloads, go to:
support.broadcom.com/security

Management Center Software Documentation

- Go to techdocs.broadcom.com and type "management center" in the search field, then click **Management Center**.

Appliance Documentation

- **S Series WebGuide** (Maintenance and Upgrades)
techdocs.broadcom.com/sseries
- **S400 Series Safety and Compliance Guide**
techdocs.broadcom.com/s400