1. Before you start

Confirm that you have the following tools and cables:
- Phillips #2 screwdriver
- Console cable
- ESD cable

2. Unpack the equipment and verify package content

Esd precautions when unpacking.

3. Verify power supply unit (PSU) specifications

Order a redundant PSU to provide redundancy, load sharing, and add Power over Ethernet Plus (PoE+). The VSP 4850GTS Series switch supports two field-replaceable power supplies. One power supply is installed. You can optionally install a redundant power supply. The VSP 4850GTS switch comes in AC and DC power variants. Use this procedure to install a redundant power supply.

**VSP 4850GTS Series AC power specifications**

**VSP 4850GTS model**

<table>
<thead>
<tr>
<th>Primary PSU</th>
<th>Redundant PSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>300W AC power supply</td>
<td>300W AC power supply</td>
</tr>
<tr>
<td>(replacement order code: AL1905A08-ES5)</td>
<td>(replacement order code: AL1905A08-ES5)</td>
</tr>
</tbody>
</table>

PoE+ specifications:
- Maximum PoE+ Wattage:
  - 855W with one power supply
  - 1855W with two power supplies

Average PoE+ Wattage on 50 port models:
- 15.4W (802.3af) — 1 power supply
- 32.4W (802.3at) — 2 power supplies

5. Mount the VSP 4850GTS switch

**a. Table or Shelf mounting**

If you mount the switch on a table or shelf, attach the rubber feet to the device as indicated. The surface must support the combined weight of the switch and attached cables (from 15 to 20 pounds (7 to 9 kilograms)).

Set the device on a flat surface near an AC power source, making sure there is at least 2 inches (5.1 cm) of space on all sides for proper air flow, and at least 5 inches (12.7 cm) at the back for power cord clearance.

**b. Rack mounting**

1. Prepare the rack:
   - Provide the equivalent of one RU of vertical space for each switch in an EIA or IEC-standard 19-inch (48.2-centimeter) equipment rack.
   - Ensure that the equipment rack is stable and securely attached to a permanent structure.

2. Ground the rack to the same grounding electrode used by the power service in the area. The ground path must be permanent and must not exceed 1 ohm of resistance from the rack to the grounding electrode. It is recommended using a filter or surge suppressor.

3. Mount the switch:
   - Attach a bracket to each side of the switch using the #2 Phillips screw-driver as illustrated. The bracket goes over the USB cover.
   - Install the switch in an EIA or IEC-standard 19-inch (48.2-centimeter) equipment rack.
   - Provide the equivalent of one RU of vertical space for each switch in an EIA or IEC-standard 19-inch (48.2-centimeter) equipment rack.

4. (Optional) Install redundant power supply unit

The VSP 4850GTS Series switch supports two field-replaceable power supplies. One power supply is installed. You can optionally install a redundant power supply. The VSP 4850GTS switch comes in AC and DC power variants.

1. If a blanking plate covers the required power supply slot, remove the blanking plate before attempting to insert the power supply.
2. Insert the power supply into a rear power supply slot as shown below.

3. Secure the power supply with the two thumb screws.

**Note:** The switch chassis can prevent an incorrect installation of a power supply. If you insert a power supply upside down, it will not fully insert and the thumb screws will not engage.

4. After you install a power supply, proceed with connecting AC power.

**VSP 4850GTS DC power specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Primary PSU</th>
<th>Redundant PSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>VSP 4850 GTS DC</td>
<td>300W DC power supply</td>
<td>300W DC power supply</td>
</tr>
<tr>
<td>(replacement order code: AL1905005-ES5)</td>
<td>(replacement order code: AL1905005-ES5)</td>
<td></td>
</tr>
</tbody>
</table>

DC Power supply specifications:
- Input voltage: 48 V DC
- Input current: 10 A
- Output voltage: 12 V DC
- Output current 25 A

4. After you install a power supply, proceed with connecting AC power.

**b. Rack mounting**

1. Provide the equivalent of one RU of vertical space for each switch in an EIA or IEC-standard 19-inch (48.2-centimeter) equipment rack.
2. Ensure that the equipment rack is stable and securely attached to a permanent structure.
3. Ground the rack to the same grounding electrode used by the power service in the area. The ground path must be permanent and must not exceed 1 ohm of resistance from the rack to the grounding electrode. It is recommended using a filter or surge suppressor.

**Mount the switch:**

1. Remove the screws that hold the USB cover for rack mounting, but do not remove the USB cover.
2. Attach a bracket to each side of the switch using the #2 Phillips screw-driver as illustrated. The bracket goes over the USB cover.
3. Slide the switch into the rack as illustrated. Insert and tighten the rack-mount screws.

For more details on installing the VSP 4850GTS Series, see Installing the Virtual Services Platform VSP4850GTS Series.

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**Virtual Services Platform 4850GTS Series Quick Install Guide**

This document provides information and instructions to install and commission a factory-supplied Extreme Networks Virtual Services Platform 4850GTS Series switch. You can download all referenced documents at http://www.extremenetworks.com/support/documentation/.

1. Before you start
2. Unpack the equipment and verify package content
3. Verify power supply unit (PSU) specifications
4. (Optional) Install redundant power supply unit
5. Mount the VSP 4850GTS switch

**Virtual Services Platform 4850GTS Series Quick Install Guide**

- ESD precautions when unpacking.
- Phillips #2 screwdriver
- Console cable
- ESD cable
- Locating the latest software and product release notes.
- The Regulatory guide.
- The Quick Install guide (this document).
- The China RoHS paper.

---

**Esd precautions when unpacking.**

- Phillips #2 screwdriver
- Console cable
- ESD cable

**Verify power supply unit (PSU) specifications**

Order a redundant PSU to provide redundancy, load sharing, and add Power over Ethernet Plus (PoE+) power budget on PSW+ models.

**VSP 4850GTS Series AC power specifications**

- ESD cable
- Console cable
- Phillips #2 screwdriver
- Locating the latest software and product release notes.
- The Regulatory guide.
- The China RoHS paper.
6 Power up
1. Connect the AC power cord to the back of the switch, and then plug the other end of the cord into an AC power outlet.

Note: You will need two power cords if you have installed a redundant PSU.

Warning: You must use a power cord set approved for the 4850GTS Series switch and the power receptacle type in your country.

2. Connect the console cable to the switch.

Commissioning the VSP 4850GTS Series

1 Connect the console cable to the VSP 4850GTS Series

Console port cabling specifications:

Ensure the use of Category 5E or higher specification cabling for 1 Gbps/1000 Mbps operation. RJ-45 console port cables are as follows:

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Name</th>
<th>Short Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AL2011022-EE</td>
<td>RJ-45/DB-9 CONSOLE CABLE</td>
<td>The VSP 4850GTS has an RJ-45 female connector, or a serial cable with RJ-45 connectors, or a serial cable with a DB-9 female connector on one end and an RJ-45 on the other is appropriate. Maximum length for the console port cable is 25 feet (7.6 meters).</td>
</tr>
<tr>
<td>AL2011022-EE</td>
<td>RED DB-9 FEMALE TO RJ-45 ADAPTOR</td>
<td>Converts DB-9 MALE to RJ-45 serial port. Also, can be used with Category 5 RJ-45 straight cable to provide console connection.</td>
</tr>
</tbody>
</table>

On your VSP 4850GTS Series switch, the console port is the RJ-45 port outlined with a blue border on the front of your switch (note orientation). Use an RJ-45 to DB-9 cable to connect the switch console port to your management device. Use adaptors to provide different connection options. The maximum length of a console cable is 25 feet (7.6 meters). The following tables describe the RJ-45 and DB-9 console port pin-out information. You can use the pin-out information to verify or create a console cable for use with your maintenance terminal.

DB-9 Console port pin assignments

<table>
<thead>
<tr>
<th>Connector</th>
<th>Pin Number</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Carrier detect (not used)</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>Transmit Data (TXD)</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>Receive Data (RXD)</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>Data terminal ready (not used)</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>Signal ground (GND)</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
<td>Not used</td>
</tr>
<tr>
<td>7</td>
<td>7</td>
<td>Request to send (not used)</td>
</tr>
<tr>
<td>8</td>
<td>8</td>
<td>Not used</td>
</tr>
<tr>
<td>9</td>
<td>9</td>
<td>Ring indicator (not used)</td>
</tr>
</tbody>
</table>

2 Configure an in-band VLAN and a management IP interface for the VLAN

Note: In the following procedure you create a VLAN with ID 20 and name ExtremeNetworks.

1. Create a VLAN:
   VSP-4850GTS-PWR+:1(config)#vlancreate 20 name ExtremeNetworks

2. Add VLAN members:
   VSP-4850GTS-PWR+:1(config)#vlan members add 20 1/4

3. Configure a management IP interface for the VLAN:
   (for example, 192.0.2.2)
   VSP-4850GTS-PWR+:1(config)#interface vlan 20
   VSP-4850GTS-PWR+:1(config)#ip address 192.0.2.2 255.255.255.0

7 Install SFP adn SFP+ transceivers

Note: Before installing, ensure the switch is up and running, and operating normally. Verify that the SFP or SFP+ transceivers and network cabling support your network configuration.

1. Remove the transceiver from the protective packaging.

2. Grasp the transceiver between your thumb and forefinger.

3. Insert the transceiver into the proper SFP/SFP+ slot on the switch, until it clicks and locks into position in the slot.

4. Connect the AC power cord to the back of the switch, and then plug the other end of the cord into an AC power outlet.

5. Check the front-panel LEDs as the device powers on to be sure the switch is operating normally. Verify that the SFP or SFP+ transceivers and network cabling support your network configuration.

6. Before installing, ensure the switch is up and running, and operating normally. Verify that the SFP or SFP+ transceivers and network cabling support your network configuration.

Warning: You must use a power cord set approved for the 4850GTS Series switch and the power receptacle type in your country.

8 Connect the console cable to the VSP 4850GTS Series

Console port cabling specifications:

Ensure the use of Category 5E or higher specification cabling for 1 Gbps/1000 Mbps operation. RJ-45 console port cables are as follows:

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<td>2</td>
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</tr>
<tr>
<td>3</td>
<td>3</td>
<td>Receive Data (RXD)</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>Data terminal ready (not used)</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>Signal ground (GND)</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
<td>Not used</td>
</tr>
<tr>
<td>7</td>
<td>7</td>
<td>Request to send (not used)</td>
</tr>
<tr>
<td>8</td>
<td>8</td>
<td>Not used</td>
</tr>
<tr>
<td>9</td>
<td>9</td>
<td>Ring indicator (not used)</td>
</tr>
</tbody>
</table>

RJ-45 Console port pin assignments

<table>
<thead>
<tr>
<th>Connector</th>
<th>Pin Number</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Ready to send (RTS) — optional</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>Data terminal ready (DTR) — optional</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>Carrier detect (DCD) — optional</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>Flow Control None</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>Data set ready (DSR) — optional</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
<td>Request to send (CTS) — optional, can swap or link with pin 1.</td>
</tr>
</tbody>
</table>

1. Install SFP adn SFP+ transceivers

Note: Before installing, ensure the switch is up and running, and operating normally. Verify that the SFP or SFP+ transceivers and network cabling support your network configuration.

1. Remove the transceiver from the protective packaging.

2. Grasp the transceiver between your thumb and forefinger.

3. Insert the transceiver into the proper SFP/SFP+ slot on the switch, until it clicks and locks into position in the slot.

4. Connect the console cable to the switch, using the terminal or terminal emulator program to VT100 or VT100/ANSI.

5. Connect to the switch using the terminal or terminal emulator application.

Terminal emulation settings

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baud Rate</td>
<td>9600 bps</td>
</tr>
<tr>
<td>Data Bits</td>
<td>8</td>
</tr>
<tr>
<td>Stop Bits</td>
<td>1</td>
</tr>
<tr>
<td>Parity</td>
<td>None</td>
</tr>
<tr>
<td>Flow Control</td>
<td>None</td>
</tr>
</tbody>
</table>

6 Shutting down the VSP 4850GTS Series

Caution: Before you unplug the AC power cord, always perform the following shutdown procedure. This procedure flushes any pending data to ensure data integrity.

1. Enter the Privileged EXEC command mode: enable

2. Shutdown the VSP 4850GTS Series: sys shutdown

3. Before you unplug the power cord, wait until you see the following message: System Halted, OK to turn off power.

For more information on this and other administration procedures, see Administering VSP Operating System Software (NN47227-600).

Recommended reading

For more information, go to: http://www.extremenetworks.com/support/documentation/ and download the following VSP 4850GTS Series guides:

- Regulatory Information
- Locating the latest software and product Release Notes
- Documentation Reference
- Installation
- Quick Start Configuration
- Release Notes
- Administration