



CHAPTER 3

Router Mounting Procedures

This chapter provides the procedures for mounting the Cisco Secure Router 520 Series routers. It contains the following sections:

- [Connecting a Radio Antenna to a Wireless Router, page 3-1](#)
- [Placing the Router on a Desktop, page 3-1](#)
- [Mounting the Router on a Wall, page 3-2](#)
- [Mounting the Router in a Rack, page 3-3](#)
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Connecting a Radio Antenna to a Wireless Router

Before you mount the wireless router on a wall or rack, we recommend that you first connect the antenna to the router. It is difficult to connect the antenna after the router is mounted.

To connect the antenna to a router, follow these steps:

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- Step 1** Attach the antenna to the reverse-polarity threaded Neill-Concelman (RP-TNC) connector on the front of the router, and then tighten the antenna.
 - Step 2** Orient the antenna vertically (straight up).
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Placing the Router on a Desktop



Caution

The router installation must allow unrestricted airflow for cooling. When placing the router on a desktop, make sure there is at least 1 in. (2.54 cm) of clear space between the cooling inlet and exhaust vents.



Caution

Do not place any items that weigh more than 10 lb (4.5 kg) on top of the router.

To install the router on a desktop, table, or other flat surface, follow these steps:

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- Step 1** Place the unit upside-down on the flat surface.
 - Step 2** Attach the four rubber pads to the recessed areas on the bottom of the unit.
 - Step 3** Place the unit right-side-up on the flat surface.
 - Step 4** If you have a wireless router, connect the radio antenna to the router (see the [“Connecting a Radio Antenna to a Wireless Router”](#) section on page 3-1).
 - Step 5** Place the power supply unit on a desktop near an AC power source. Do not stack the power supply on the router.
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Mounting the Router on a Wall

You can mount the Cisco Secure Router 520 Series router on a wall or other vertical surface. There are two mounting-screw holes on the bottom of the router for mounting the unit. [Figure 3-1](#) shows the mounting-screw holes.

Figure 3-1 Mounting-Screw Holes on the Bottom of the Cisco Secure Router 520 Series Router



1	Front panel facing upward	2	Mounting-screw holes
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**Warning**

This unit is intended to be mounted on a wall. Please read the wall mounting instructions carefully before beginning installation. Failure to use the correct hardware or to follow the correct procedures could result in a hazardous situation to people and damage to the system. Statement 248

Guidelines for Mounting the Router on a Wall

- When choosing a location for mounting the router on a wall, consider cable limitations and wall structure.
- Mount the router with the front panel facing upward. Make sure to mount the router low enough so that you can see the LEDs.
- Make sure that the power supply rests on a horizontal surface such as the floor or a table. If the power supply is not supported, the strain on the power adapter cable could cause it to disconnect from the router.
- Do not install the router or its power supply next to a heat source of any kind, including heating vents.

You can mount the router on a hollow wall or a wall stud. To mount the router, follow these steps:

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- Step 1** If you have a wireless router, connect the radio antenna to the router (see the [“Connecting a Radio Antenna to a Wireless Router”](#) section on page 3-1).
- Step 2** Position the router on the wall to determine where to attach the two mounting screws. Make sure the distance between the screws is 8.25 in. (see [Figure 3-1](#) on page 3-2).
- Step 3** Mount the router on a wall stud or a hollow wall. Perform one of the following, as appropriate:
- To mount the router on a wall stud, attach two #10 wood screws (round or pan-head) with #10 washers, or two #10 washer-head screws to the wall. Make sure that the screws are long enough to penetrate at least 3/4 in. (20 mm) into the supporting wood or into a metal wall stud.
 - To mount the router on a hollow wall, attach two wall anchors with washers to the wall. Make sure that the wall is at least 1/2 in. (12.7 mm) thick and that the wall anchors and washers are a size suitable for the wall to which they are attached.
- Step 4** Insert the wood screws or wall anchors (whichever you used) into the mounting-screw holes on the router. Mount the router vertically, with the front panel facing upward and the connection to the power cord facing downward.
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Mounting the Router in a Rack

The Cisco Secure Router 520 Series routers can be front-mounted in 19-inch racks only. The mounting brackets are not included with the router. If you choose to mount the router into a rack, you must order the mounting brackets separately.

**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

**Caution**

The router installation must allow unrestricted airflow for cooling. When mounting the router in a rack, make sure there is at least 1 in. (2.54 cm) of clear space between the cooling inlet and exhaust vents.

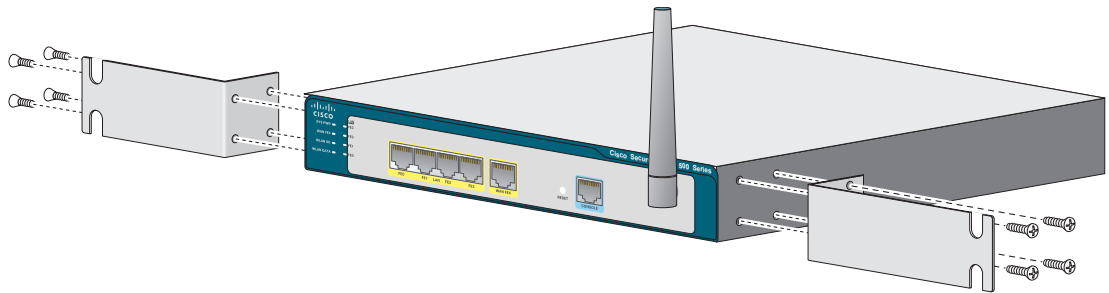
To attach brackets for mounting a Cisco Secure Router 520 Series router in a 19-inch rack, follow these steps:

- Step 1** If you have a wireless router, first connect the radio antenna to the router (see the [“Connecting a Radio Antenna to a Wireless Router”](#) section on page 3-1).
- Step 2** Using a number 2 Phillips screwdriver and four screws, install a bracket to each side of the router as shown in [Figure 3-2](#).



Note Do not overtorque the screws. The recommended torque is 6 to 8 in-lb (0.7 to 0.9 N-m).

Figure 3-2 Attaching Rack-Mount Brackets to a Cisco Secure Router 520 Series Router



- Step 3** Using two pairs of screws on each side (supplied with the rack) attach the router to a 19-inch rack. Install the lower pair of screws on each side first. Then, with the brackets resting on the lower screws, install the upper pair of screws on each side.



Tip The screw slots in the brackets are spaced to line up with every second pair of screw holes in the rack. When the correct screw holes are used, the small threaded holes in the brackets line up with unused screw holes in the rack. If the small holes do not line up with the rack holes, you must raise or lower the brackets to the next rack hole.

What to Do Next

Install the router by following the instructions in [Chapter 4, “Router Installation.”](#)

