



Installing the Cisco VG420 Voice Gateway

This chapter provides the prerequisites and the procedure for installing the Cisco VG420 Voice Gateway in an equipment rack.

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Prerequisites for the Installation

Before installing the device, read the safety warnings and gather the required tools and equipment. For more information about the required tools and equipment, see the *Tools and Equipment* section in this hardware installation guide.

Safety Recommendations



Note Statement 407—Japanese Safety Instruction

You are strongly advised to read the safety instruction before using the product.

<https://www.cisco.com/web/JP/techdoc/pldoc/pldoc.html>

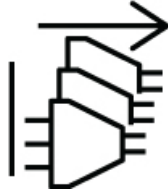
When installing the product, use the provided or designated connection cables/power cables/AC adapters.

〈製品仕様における安全上の注意〉
www.cisco.com/web/JP/techdoc/index.html

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Warning Statement 1028—More Than One Power Supply

This unit might have more than one power supply connection. To reduce risk of electric shock, remove all connections to de-energize the unit.



Unpack the Device

Do not unpack the device until you are ready to install it. If the final installation site will not be ready for some time, keep the chassis in its shipping container to prevent accidental damage. When you are ready to install the chassis, proceed with unpacking it.

The chassis, accessory kit, publications, and any optional equipment you ordered may be shipped in more than one container. When you unpack the containers, check the packing list to ensure that you received all of the items on the list.

If anything appears damaged, or if you encounter problems when installing or configuring your system, contact a customer service representative.

Mounting the Voice Gateway in Rack

You can install the Cisco VG420 Voice Gateway in 19-inch (48.26-cm) EIA and 23-inch (58.42-cm) Southwestern Bell Corporation (SBC) racks. You can also mount the voice gateway in a 600-mm ETSI rack. Use the standard brackets shipped with the hardware for mounting the chassis in a 19-inch EIA rack; you can order optional larger brackets for mounting the chassis in a 23-inch SBC rack.

You can mount the voice gateway in the following ways:

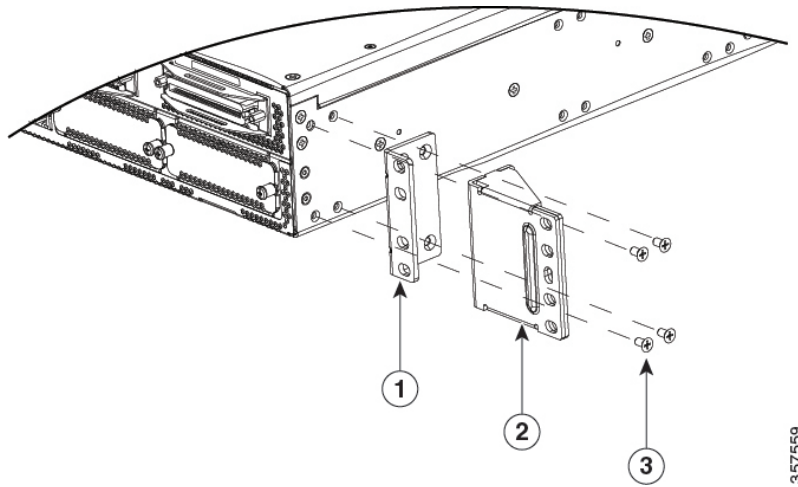
- Center-front mounting: Brackets attached in the center front of the chassis with only the front panel facing forward.
- Center-back mounting: Brackets attached in the center back of the chassis with only the back panel facing forward.
- Front mounting: Brackets attached at the front of the chassis with the front panel facing forward.
- Back mounting: Brackets attached at the back of the chassis with the back panel facing forward.

Perform the following steps to mount the device on the rack:

Step 1 Attach the mounting brackets to the chassis as shown in the following images, using the screws provided.

Caution Do not over-torque the screws. The recommended torque is 15 to 18 inch-lb (1.7 to 2.0 N-m).

Figure 1: Attaching the Brackets to the Chassis



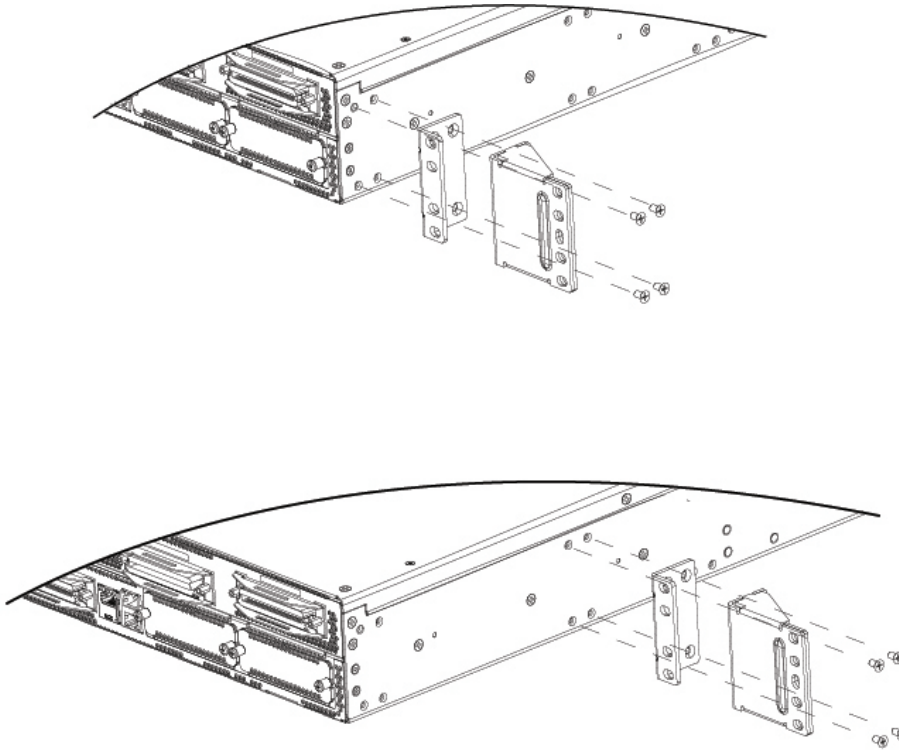
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1	19-inch Rack Mount Bracket
2	23-inch Rack Mount Bracket
3	#6-32 Screws

Step 2 Attach the second bracket to the opposite side of the chassis. Use a number-2 Phillips screwdriver to install the number-8 bracket screws.

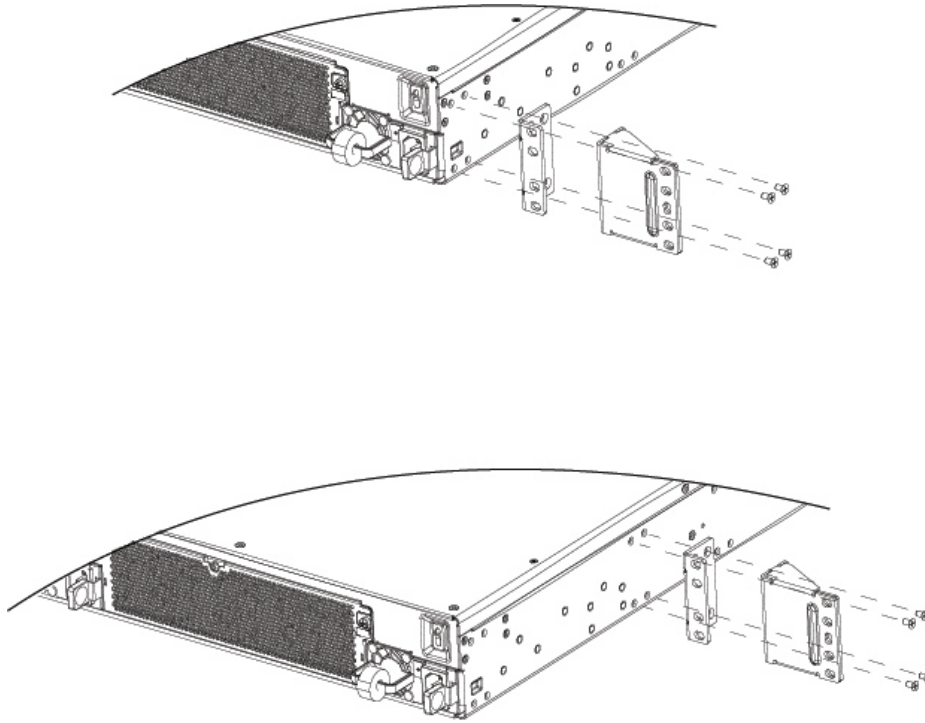
Attention Your chassis installation must allow unrestricted airflow for chassis cooling.

Step 3 Use the screws provided with the rack to install the chassis in the rack. For both the 19-inch EIA brackets and the 23-inch SBC brackets, start the lower pair of screws first, and rest the brackets on the lower screws while you insert the upper pair of screws.

Figure 2: I/O Side Mounting

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Figure 3: PS and Middle Side Mounting

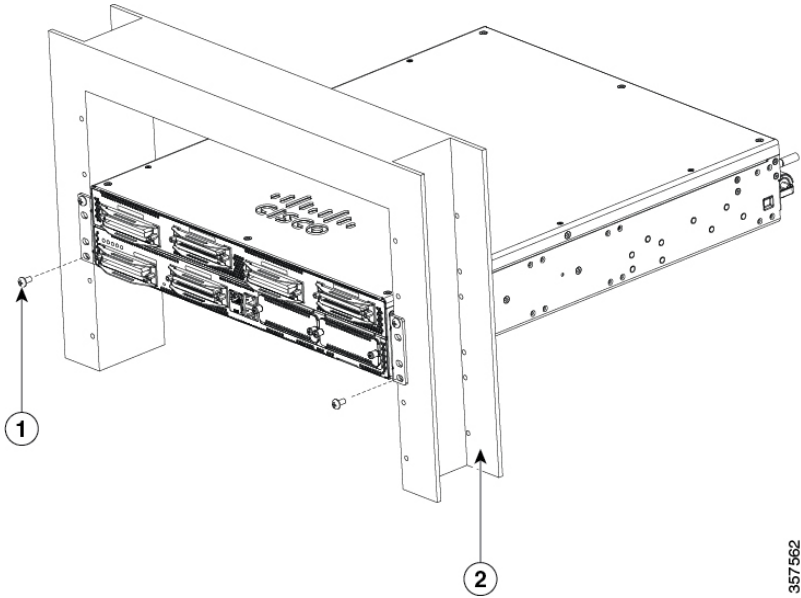


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The screw slots in the brackets are spaced to line up with every second pair of screw holes in the rack. When the correct screw holes are used, the small, threaded holes in the brackets line up with unused screw holes in the rack. If the small holes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

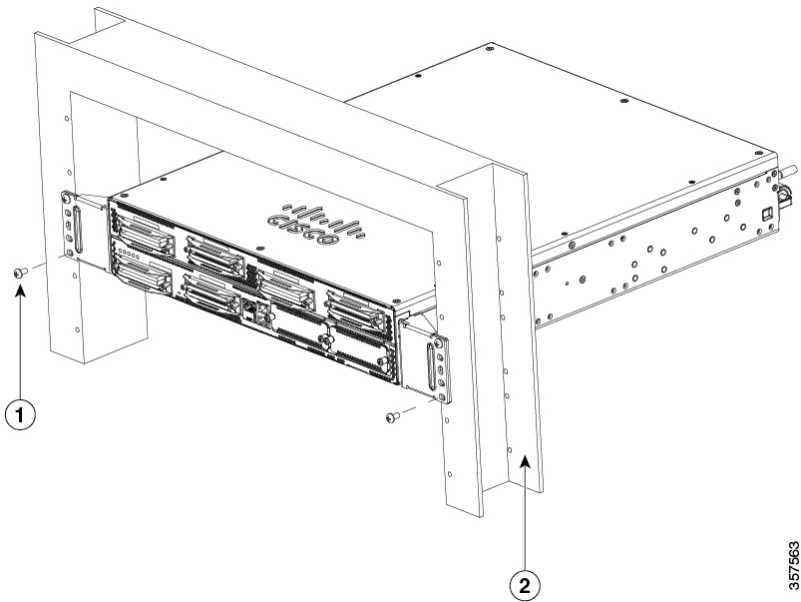
The following images represent rack mounting for the Cisco VG420 Voice Gateway:

Figure 4: Rack Mounting



1	Rack Mount Screw
2	23-inch Rack

Figure 5: Rack Mounting



1	Rack Mount Screw
2	23-inch Rack

Warning Statement 1047—Overheating Prevention

To reduce the risk of fire or bodily injury, do not operate the unit in an area that exceeds the maximum recommended ambient temperature of: 40 degrees C.

What to do next

After you install the voice gateway, you must connect the chassis to a reliable earth ground. For the chassis ground connection procedures, see the *Chassis Grounding* section in this hardware installation guide.

Chassis Grounding

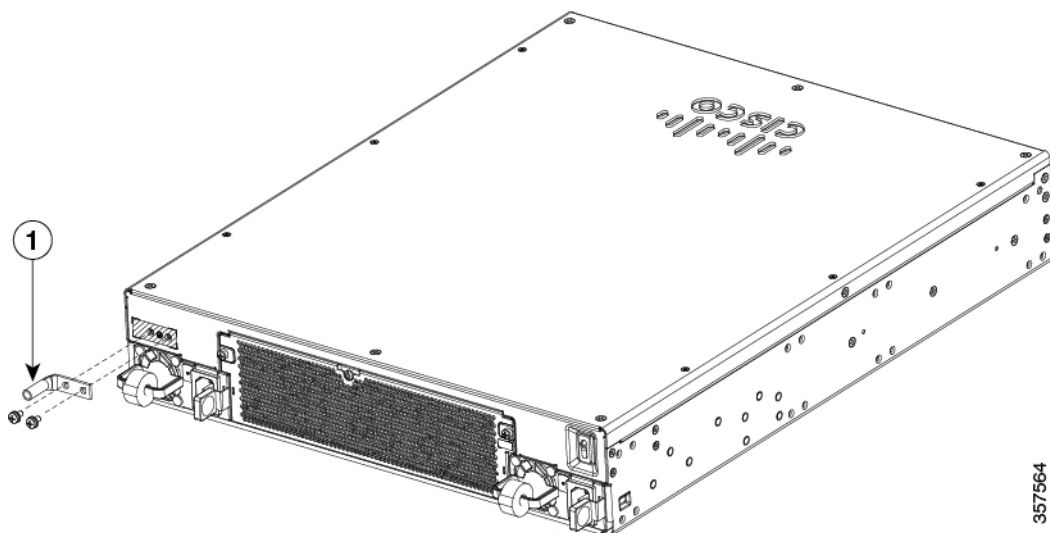
To install the ground connection for your router, perform the following steps:

Before you begin

Use a size 10 AWG (4 mm²) or larger copper wire and an appropriate user-supplied ring terminal with an inner diameter of 1/4 in. (5–7 mm).

- Step 1** Strip one end of the ground wire to the length required for the ring terminal.
- Step 2** Crimp the ground wire to the ring terminal, using a crimp tool of the appropriate size.
- Step 3** Attach the ground lug or ring terminal to the chassis as shown in the following image. Use one of the screws provided. Tighten the screws to a torque of 8 to 10 in-lb (0.9 to 1.1 N-m).
- Step 4** Connect the other end of the ground wire to a known reliable earth ground point at your site.

Figure 6: Chassis Grounding



In the above image, 1 indicates Ground Lug.

