Replace Chassis Components

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Replace Fan Modules for Cisco 8201 Routers

The fan module is designed to be removed and replaced while the system is operating without presenting an electrical hazard or damage to the system. Please keep the replacement fan modules ready prior to attempting this task.

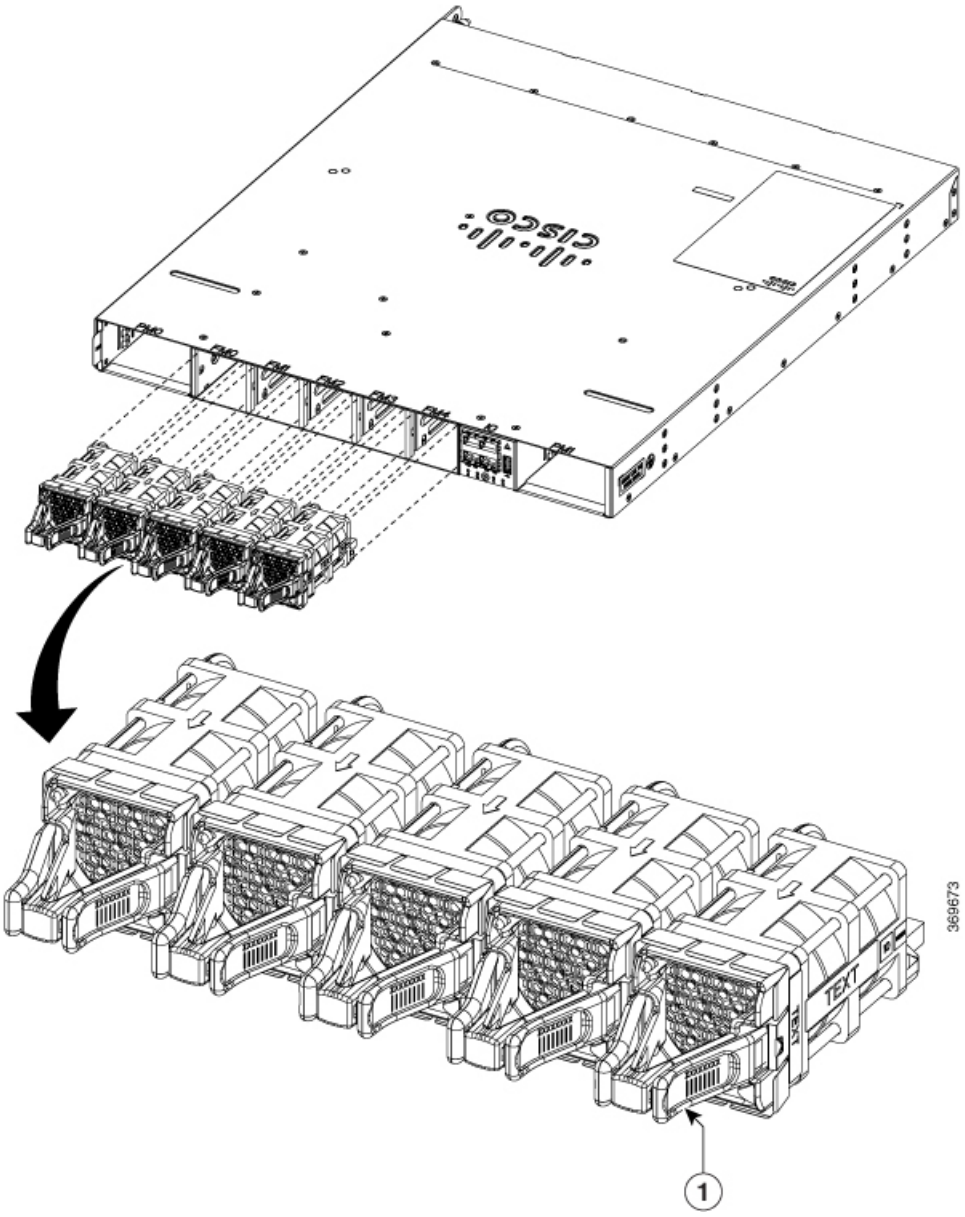
Note The routers support FAN-1RU-PI (port-side intake airflow) and FAN-1RU-PE (port-side exhaust airflow) fan modules.

Note The airflow direction must be the same for all power supply and fan modules in the chassis.

Step 1 To remove a fan module, follow these steps:

a) Press two latches on the fan module and grasp the handle of fan module.

Figure 1: Cisco 8201 Router — Remove Fans



1	Latched fan module

b) As you simultaneously press the latches pull the fan module fully out of the chassis.

Step 2 To install a fan module, follow these steps:

a) Hold the fan module with the LED at the top.

b) Align the fan module to the open fan tray slot in the chassis, and press the module all the way into the slot until the left and right latches click and are locked on the chassis.

Note If the fan module does not go all the way into the slot, do not force it. Remove the fan module and verify that it is the correct type for your router and in the correct orientation. To verify the status of fans and the speed, use the **show environment fan** command.

c) If the chassis is powered on, listen for the sound of the fans in operation. You should immediately hear them in operation. If you do not hear them, ensure that the fan module is inserted completely in the chassis.

Note During the fan module replacement, the other fans adjust their speed to allow for proper initialization of the new module. When you insert a new fan module, the fans may run at lower or higher speeds for a few minutes.

d) Verify that the fan module LED is green. If the LED is not green, one or more fans are faulty. If this situation occurs, contact your customer service representative for replacement parts.

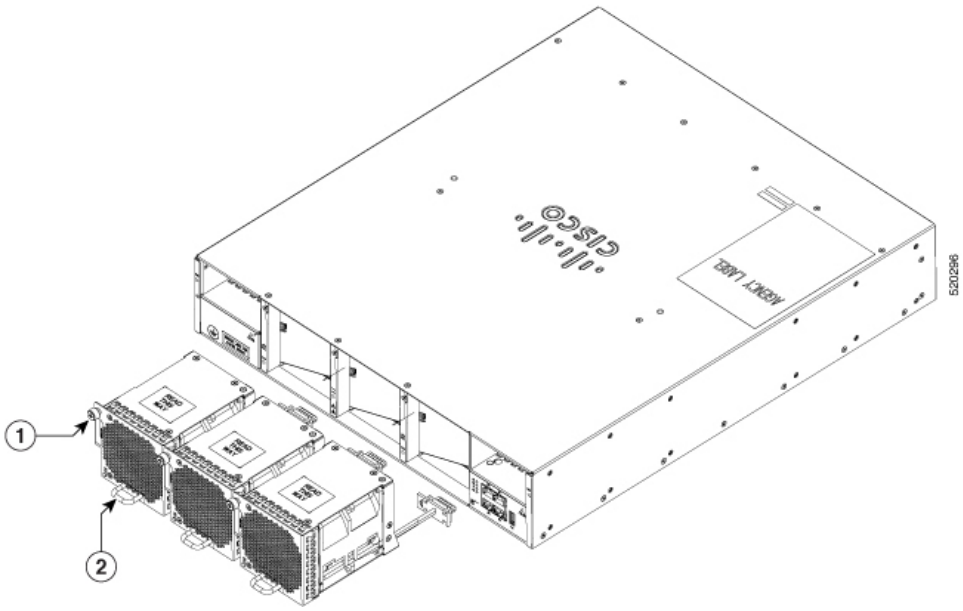
Replace Fan Modules for Cisco 8202 Routers

The fan module is designed to be removed and replaced while the system is operating without presenting an electrical hazard or damage to the system. Please keep the replacement fan modules ready prior to attempting this task.

Note The airflow direction must be the same for all power supply and fan modules in the chassis.

Step 1 Unscrew the thumbscrew on the fan.

Figure 2: Remove Cisco 8202 Fan Modules



1	Fan module thumbscrew	**2**	Handle

Step 2 Pull the handle to remove the fan to be replaced.

Step 3 Hold the fan module with the LED and PID label at the top.

Step 4 Align the fan module to the open fan slot in the chassis and press the module all the way into the slot until the front of the fan module touches the chassis.

Make sure that the thumbscrew on the fan module is aligned with the screw hole in the chassis.

Step 5 Tighten the thumbscrew to secure the fan module in the chassis.

Step 6 If the chassis is powered on, listen for the fans. You should immediately hear them operating. If you do not hear them, ensure that the fan module is inserted completely in the chassis.

Step 7 Verify that the fan module LED is green. If the LED is not green, one or more fans are faulty. If this situation occurs, contact your customer service representative for replacement parts.

Replace Fan Modules for Cisco 8201-32FH Router

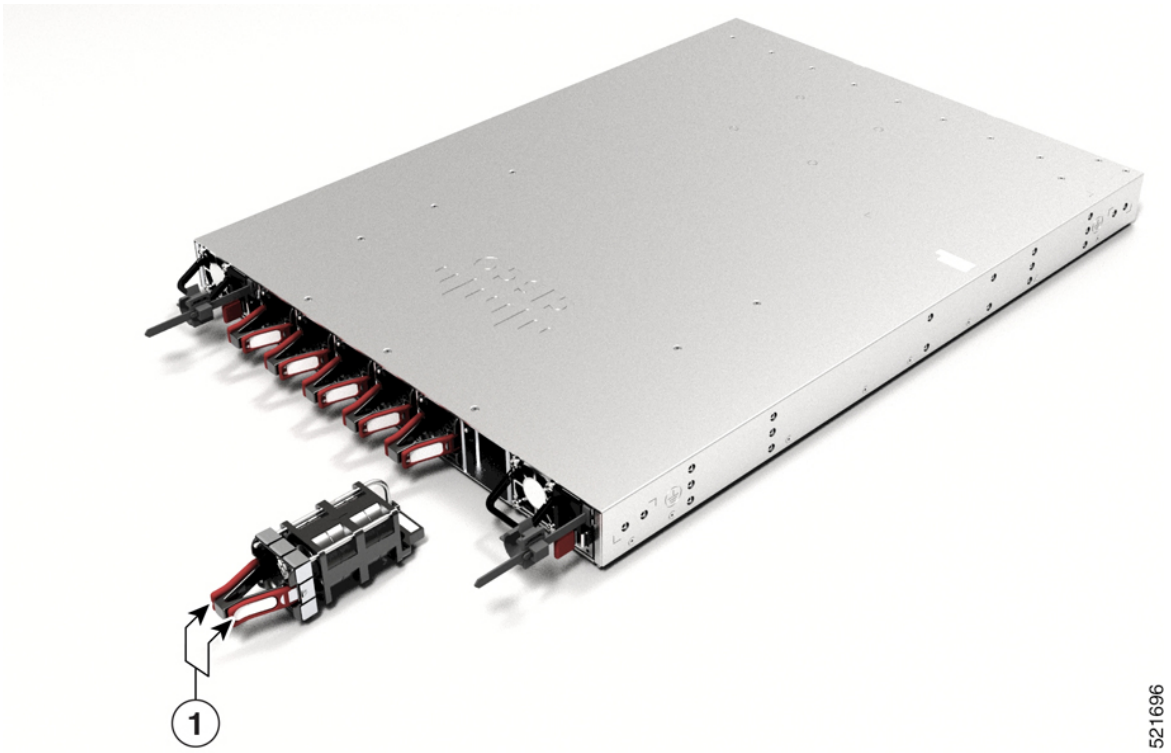
The fan module is designed to be removed and replaced while the system is operating without presenting an electrical hazard or damage to the system. Please keep the replacement fan modules ready prior to attempting this task.

Note The airflow direction must be the same for all power supply and fan modules in the chassis.

Note The routers support FAN-1RU-PI-V2 (port-side intake airflow) and FAN-1RU-PE-V2 (port-side exhaust airflow) fan modules.

Step 1 Unscrew the thumbscrew on the fan.

Figure 3: Remove Cisco 8201-32FH Fan Modules



1	Latched fan module

Step 2 Pull the handle to remove the fan to be replaced.

Step 3 Hold the fan module with the LED and PID label at the top.

Step 4 Align the fan module to the open fan slot in the chassis and press the module all the way into the slot until the front of the fan module touches the chassis.

Make sure that the thumbscrew on the fan module is aligned with the screw hole in the chassis.

Step 5 Tighten the thumbscrew to secure the fan module in the chassis.

Step 6 If the chassis is powered on, listen for the fans. You should immediately hear them operating. If you do not hear them, ensure that the fan module is inserted completely in the chassis.

Step 7 Verify that the fan module LED is green. If the LED is not green, one or more fans are faulty. If this situation occurs, contact your customer service representative for replacement parts.

Replace Power Supply

Note We recommend that you occupy both the power supply slots of the fixed port routers with power supplies. In case a power module fails, it is recommended to retain the failed power module in its slot until it is replaced with a new power module. This recommendation ensures that the system airflow is not impacted adversely, which may then result in the overheating of the router and its components.

Use this procedure to replace the AC or DC power supply units. Be sure to power down the fixed configuration PDU (power distribution unit) before removing it from the chassis.

Step 1 If the power supply is connected to a AC or DC circuit, shut off the circuit at the circuit breaker.

Step 2 Disconnect the PSU cable.

Step 3 Press the tab inward to unlatch the PSU, and pull the handle to remove the PSU.

Step 4 Insert the new PSU.

Note If the PSU does not go all the way into the slot, do not force it. Remove the PSU and verify that it is the correct type for your router and in the correct orientation.

Step 5 Connect the PSU cable.

Step 6 If the power supply is connected to a AC or DC circuit, turn on the circuit breaker for the AC or DC power source. After replacing the PSU, verify the power using the **show environment power** command.

Figure 4: Cisco 8101-32H Router — Remove Power Supply

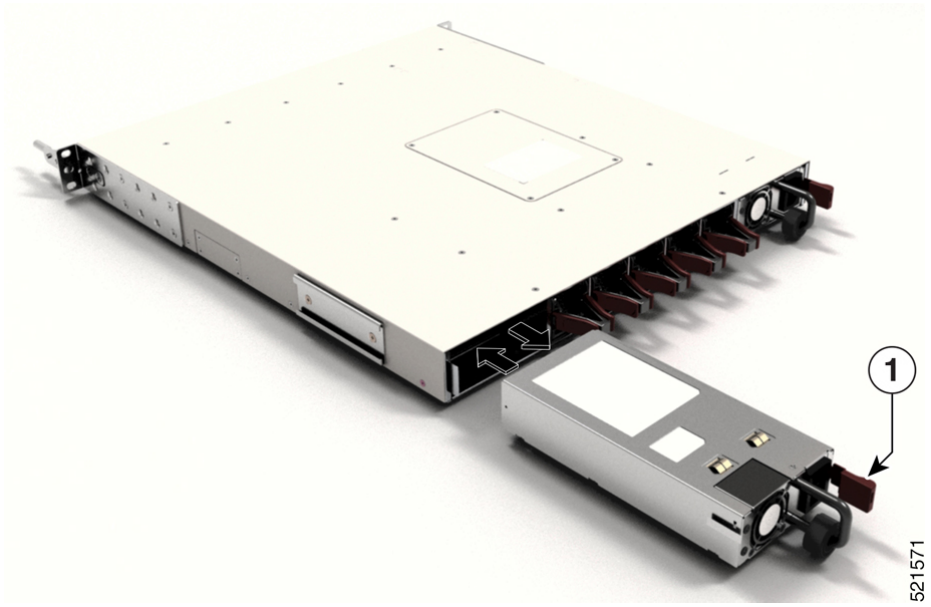


Figure 5: Cisco 8202 Router — Remove Power Supply

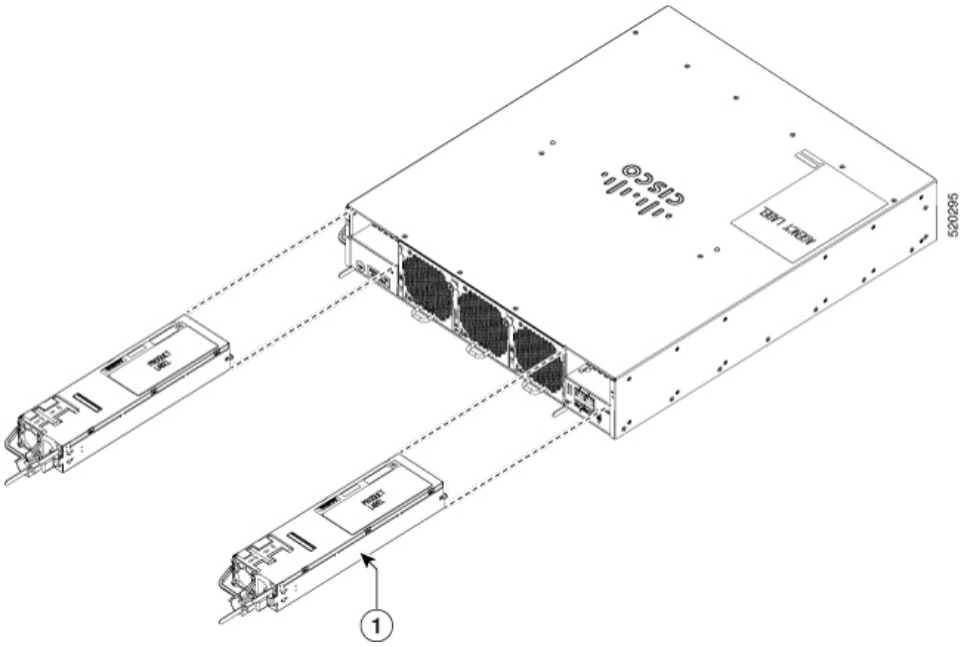
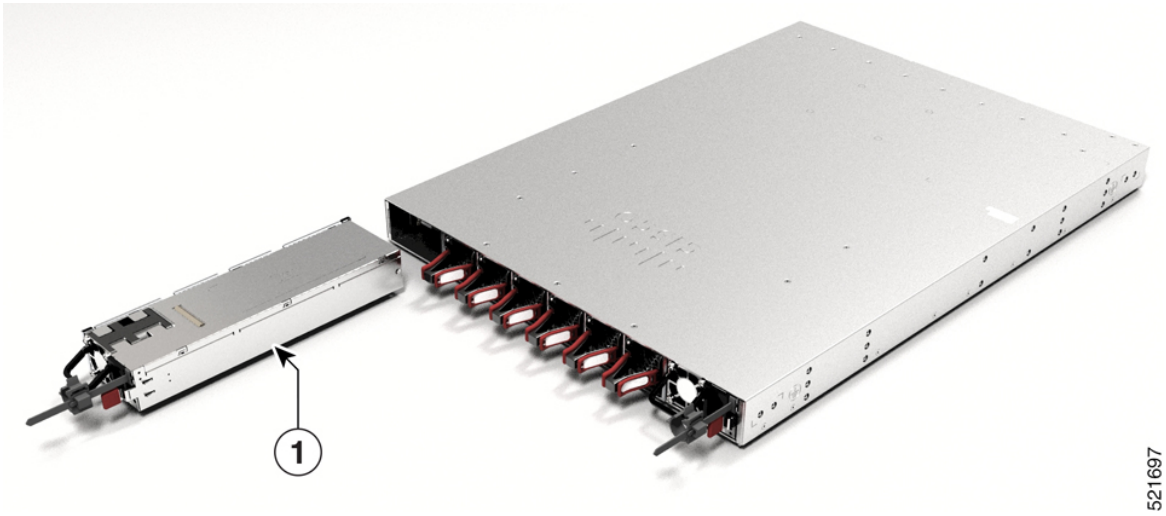


Figure 6: Cisco 8201-32FH Router — Remove Power Supply



1	Power supply