

Installing the Access Point

Installing an AP involves the following high-level tasks.

- Unpacking the Package, on page 1
- Preinstallation Checks and Installation Guidelines, on page 5
- Mounting the Access Point, on page 6
- Powering the Access Point, on page 7

Unpacking the Package

Package Contents

Each AP package contains the following items:

- One CW9162I AP
- Default mounting brackets: Adjustable ceiling-rail clips AIR-AP-T-RAIL-R and AIR-AP-BRACKET-1=
- Orderable optional mounting brackets: AIR-AP-T-RAIL-F, and AIR-AP-BRACKET-2=
- Cisco product documentation and pointer card



Note When Cisco CW9162I-MR AP is ordered, mounting bracket AIR-AP-BRACKET-2= is included by default.

Unpacking the Access Point

Procedure

Step 1 Unpack and remove the access point and the selected mounting accessory kit from the shipping box.Step 2 Return the packing material to the shipping container and save it for future use.

Step 3 Verify that you have received all the items you ordered. If any item is missing or is damaged, contact your Cisco representative or reseller for instructions.

Cisco Orderable Accessories

You can order the following accessories separately, from Cisco:

· AP-mounting brackets to mount the AP

Mounting Brackets	Description
AIR-AP-BRACKET-1=	For low-profile non-pivoting installations
AIR-AP-BRACKET-2=	For electrical or network boxes above ceiling mounts
AIR-AP-T-RAIL-F=	Flush ceiling grid clip
AIR-AP-T-RAIL-R=	Recessed ceiling grid clip
AIR-CHNL-ADAPTER=	T-RAIL channel adapter

• Power injectors when Power over Ethernet (PoE) is not available

Power Supply	Description	
AIR-PWRINJ7=	Mid-span power injector AIR-PWRINJ7= when (PoE) is not available	
	Power specifications: 50W, 56VDC	
	For more information, see the power injector data sheet.	
AIR-PWRINJ5=	A 802.3af power injector	
	Power Specifications: 15.4W, 48VDC	
	For more information, see the power injector data sheet.	
AIR-PWRINJ6=	A 802.3at power injector when PoE is not available	
	Power Specifications: 30W, 55VDC	
	For more information, see the power injector data sheet.	
MA-INJ-4-US	Meraki 802.3at PoE injector	
	Power Specifications: 30W, 55VDC	
	For more information, see the power injector data sheet.	
MA-INJ-6-x	Meraki 802.3bt PoE injector	
	Power Specifications: 60W, 55VDC	
	For more information, see the power injector data sheet.	

Power Supply	Description	
MA-PWR-30W	DC power adapter	
	Power Specifications: 30W, 12VDC	
	For more information, see the power injector data sheet.	

Performing a Preinstallation Configuration (Optional)

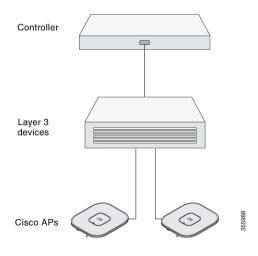
The following procedures describe the processes to ensure that your AP installation and initial operation go as expected.



Note

Performing a preinstallation configuration is an optional procedure. If your network controller is properly configured, you can install your AP in its final location and connect it to the network from there. For more information, see Deploying the Access Point on the Wireless Network.

The following illustration shows the preinstallation configuration setup:

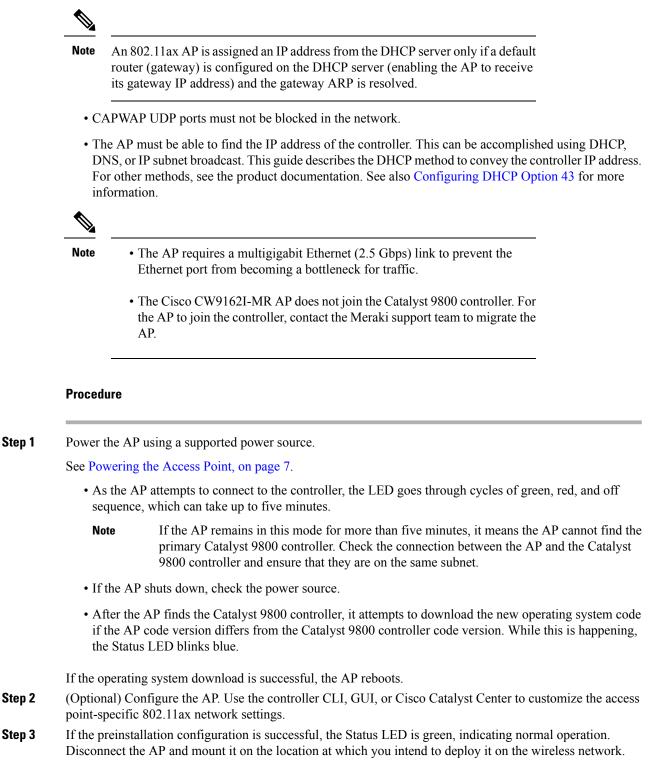


Perform the following steps:

Before you begin

Ensure that the Cisco Controller Distribution System (DS) port is connected to the network. Use the procedure for CLI or GUI, as described in the release-appropriate Cisco Catalyst 9800 Series Wireless Controller Software Configuration Guide.

- Enable Layer 3 connectivity between APs, Cisco Controller Management, and AP-Manager interface.
- Configure the switch to which your AP has to attach. See the Cisco Wireless Controller Configuration Guide for the release you are using, for additional information.
- Ensure that the DHCP is enabled on the network. The AP must receive its IP address through DHCP.



Step 4 If your AP does not indicate normal operation, turn it off and repeat the preinstallation configuration.

Note When you are installing a Layer 3 access point on a subnet that is different from the Catalyst 9800 controller, ensure that the following setup is configured:

- A DHCP server is reachable from the subnet on which you plan to install the AP.
- The subnet has a route back to the controller.
- This route has destination UDP ports 5246 and 5247 open for CAPWAP communications.
- The route back to the primary, secondary, and tertiary controller allows IP packet fragments.
- If address translation is used, the access point and the controller have a static 1-to-1 NAT to an outside address. Port Address Translation is not supported.

Preinstallation Checks and Installation Guidelines

Before you mount and deploy your access point, we recommend that you perform a site survey (or use the Site Planning tool) to determine the best location to install your access point.

You should have the following information about your wireless network available:

- Access point locations
- Access point mounting options:
 - · Below a suspended ceiling
 - on a flat horizontal surface
 - · on top of a desk

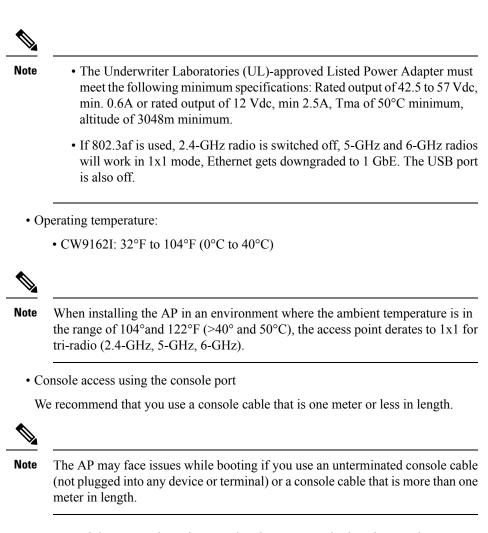


Note

You can mount the access point above a suspended ceiling, but you must purchase additional mounting hardware. For more information, see Mounting the Access Point, on page 6.

• Access point power options: Use either of the following options to power the AP:

- · Cisco-approved power injector
- · PoE with a supporting switch



We recommend that you make a site map showing access point locations so that you can record the device MAC addresses from each location and return them to the person who is planning or managing your wireless network.

Mounting the Access Point

Cisco Catalyst Wireless 91621 Wi-Fi 6E Access Point can be mounted in the following places:

- Suspended ceiling
- Hard ceiling
- Wall
- · Electrical or network box
- Above a suspended ceiling
- · Desk mount

For detailed instructions on mounting the AP, see the Access Point Mounting Instructions document at:

http://www.cisco.com/c/en/us/td/docs/wireless/access_point/mounting/guide/apmount.html.

The standard mounting hardware supported by the AP are listed in the following table.

Table 1: Brackets and Clips to Mount the AP

Mounting Type	Part Number	Description
Brackets ¹²³	AIR-AP-BRACKET-1	Low-profile bracket: Used for ceiling-mount installations. (This is the default option.)
	AIR-AP-BRACKET-2	Universal bracket: Used for wall or electrical box installations.
Clips	AIR-AP-T-RAIL-R	Ceiling grid clip (recessed mounting). (This is the default option.)
	AIR-AP-T-RAIL-F	Ceiling grid clip (flush mounting).
	AIR-CHNL-ADAPTER	Optional adapter for channel-rail ceiling grid profile.
Desk mount	—	Desk mount rubber feet using screw size 8-32x.28"

¹ Mount the AP using no less than four screw holes on a bracket.

- ² AIR-AP-BRACKET-3 is not compatible for use with Cisco CW9162I access points.
- ³ You can also use the *in-tile* mounting options available from third parties. For more information, see the access point data sheet.

When mounting the AP in areas where there is a possibility of the AP being knocked off the mounting bracket, use the lock hasp at the back of the AP to lock it to the bracket.

Powering the Access Point



Caution

on Ensure that the AP is powered using a Underwriters' Laboratories-compliant (UL-compliant) PoE power source. You must connect the unit only to the PoE network, without routing to the outside plant.

The AP can be powered only through PoE using the following:

- 802.3bt: Any 802.3bt-compliant switch port or supported Cisco Power Injector
- Cisco Universal PoE (Cisco UPoE)
- 802.3at (PoE+): Any 802.3at-compliant (30.0 W) switch port
- 802.3af: Any 802.3af-compliant (15.4 W) switch port



Note If 802.3af power injector is used, 2.4-GHz radio is switched off, and both 5-GHz and 6-GHz radios derate to 1x1 radio. The Ethernet port gets downgraded to 1 GbE, and the USB port is switched off.

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• DC power jack