



AP Deployment Mode

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AP deployment mode

An AP deployment mode is a configuration feature that

- enables Cisco Catalyst 9124AX Series Outdoor AP to operate in indoor mode within the -E regulatory domain
- expands available channels to include U-NII-1 and U-NII-2 in addition to U-NII-2C channels, and
- applies specifically to the -E regulatory domain for increased channel availability.

Supporting reference information

- For more information on the regulatory domain, see [Countries and Regulations](#).

For more information on U-NII-1 and U-NII-2, see https://en.wikipedia.org/wiki/Unlicensed_National_Information_Infrastructure.

Restrictions for AP deployment mode

- This feature applies to Cisco Catalyst 9124AX Series Outdoor APs only.
- We recommend operating Cisco Catalyst 9124AX Series Outdoor APs in Indoor mode in environments such as greenhouses or walk-in freezers to ensure optimal network performance and equipment longevity.

Configure an AP deployment mode (GUI)

Configure the deployment mode of an AP to fit the intended environment using GUI.

Use these steps to configure the AP deployment mode:

Procedure

Step 1 Choose **Configuration > Tags & Profiles > AP Join**.

To add a new AP join profile, see *Configuring an AP Profile (GUI)*. To modify an existing AP join profile, select the required AP join profile.

Step 2 Click **General** tab.

Step 3 From the **Deployment mode** drop-down list, select one of these options:

- *Default or Outdoor*: Select this option if you want to configure the AP in outdoor mode. By default, Cisco Catalyst 9124AX Series APs are configured in outdoor mode.
- *Indoor*: Select this option if you want to configure the AP in indoor mode for enclosed spaces like greenhouses or walk-in freezers.

Note

When the deployment mode is changed, the system prompts you to confirm the change. Select **Yes** to accept the change.

Step 4 Click **Apply to Device**.

The AP deployment mode is successfully configured to match its environment, ensuring optimal performance.

View deployment status

View the deployment status after configuring the AP deployment mode.

Before you begin

Use these steps to view deployment status:

Procedure

Step 1 Choose **Configuration > Wireless > Access Points**.

Step 2 On the **All Access Points** tab, click on a Cisco Catalyst 9124AX Series Access Point access point.

Step 3 In the **Edit AP** window, select the **Advanced** tab to view the default and current mode of the AP.

The deployment status is displayed.

Configure AP deployment mode (CLI)

Configure the deployment mode for an AP using CLI commands to ensure it operates effectively in the desired mode.

Procedure

-
- Step 1** Enter global configuration mode.
- Example:**
- ```
Device# configure terminal
```
- Step 2** Configure an AP profile and enter the AP profile configuration mode.
- Example:**
- ```
Device(config)# ap profile ap-profile1
```
- Step 3** Configure the outdoor AP to operate in indoor mode.
- Example:**
- ```
Device(config-ap-profile)# dual-mode-ap-deployment-mode indoor
```
- Step 4** Exit configuration mode and return to privileged EXEC mode.
- Example:**
- ```
Device(config-ap-profile)# end
```
-

The AP is successfully set to the specified indoor mode, ensuring that it operates under the correct deployment configuration.

Verify AP deployment mode

To verify whether the AP indoor mode is enabled or not, use this command:

```
Device# show ap name APXXXX.31XX.83XX config general
Cisco AP Name      : APXXXX.31XX.83XX
=====
Cisco AP Identifier      : 4ca6.4d22.f140
Country Code            : Multiple Countries : CZ,US
Regulatory Domain Allowed by Country : 802.11bg:-AE 802.11a:-ABE 802.11
6GHz:-BE
Radio Authority IDs      : None
AP Country Code          : CZ - Czech Republic
AP Regulatory Domain
    802.11bg              : -E
    802.11a               : -E
.
.
.AP Indoor Mode          : Enabled
```

To verify the available channel list in AP console, use this command:

```
AP# show rrm receive configuration
RRM configuration slot 1
=====
Group Id
Switch Id              :0904640500ff
Group Cnt              :57454
IP address              :9.4.100.5
```

```

Encrypted           :0
Version            :1
Key                :ff3fff55ffffff42ffff2cff6d0affff
Domain             :default
Key Name           :Channel Count      :19
TX Chans           :36 40 44 48 52 56 60 64 100 104 108 112 116 120 124 128 132 136 140

```

To view the indoor deployment details in AP console, use this command:

```

AP# show capwap client configuration
AdminState          : ADMIN_ENABLED(1)
Name                : AP3C57.31C5.9478
Location            : default location
Primary controller name : Rack10_katar
Primary controller IP  : 9.4.100.5
Secondary controller name :
Tertiary controller name :
.
.
.Indoor Deployment   : 2!Indoor Deployment: 2 signifies that the AP is in
Indoor mode.
!Indoor Deployment: 0 signifies that the AP is in Outdoor mode.

```