



Country Codes

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Information About Country Codes

Controllers and access points are designed for use in many countries with varying regulatory requirements. The radios within the access points are assigned to a specific regulatory domain at the factory (such as -E for Europe), but the country code enables you to specify a particular country of operation (such as FR for France or ES for Spain). Configuring a country code ensures that each radio's broadcast frequency bands, interfaces, channels, and transmit power levels are compliant with country-specific regulations.

Information About Japanese Country Codes

Country codes define the channels that can be used legally in each country. These country codes are available for Japan:

- J2: Allows only -P radios to join the controller
- J4: Allows 2.4G JPQU and 5G PQU to join the controller.

Prerequisites for Configuring Country Codes

- Generally, you should configure one country code per device; you configure one code that matches the physical location of the device and its access points. You can configure up to 200 country codes per device. This multiple-country support enables you to manage access points in various countries from a single device.
- When the multiple-country feature is used, all the devices that are going to join the same RF group must be configured with the same set of countries, configured in the same order.
- Access points are capable of using all the available legal frequencies. However, access points are assigned to the frequencies that are supported in their relevant domains.

- The country list configured on the RF group leader determines which channels the members will operate on. This list is independent of which countries have been configured on the RF group members.
- For devices in the Japan regulatory domain, you should have one or more Japan country codes (JP, J2, or J3) configured on your device at the time you last booted your device.
- For devices in the Japan regulatory domain, you should have one or more Japan country codes (J2, or J4) configured on your device at the time you last booted your device.
- For devices in the Japan regulatory domain, you must have at least one access point with a -J regulatory domain joined to your device.
- You cannot delete any country code using the configuration command **wireless country country-code** if the specified country was configured using the **ap country list** command and vice-versa.

Configuring Country Codes (GUI)

Procedure

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- Step 1** Choose **Configuration > Wireless > Access Points > Country**.
- Step 2** On the **Country** page, select the check box for each country where your access points are installed. If you selected more than one check box, a message is displayed indicating that RRM channels and power levels are limited to common channels and power levels.
- Step 3** Click **Apply**.
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Configuring Country Codes (CLI)

Procedure

	Command or Action	Purpose
Step 1	enable Example: Device# enable	Enters privileged EXEC mode.
Step 2	show wireless country supported Example: Device# show wireless country supported	Displays a list of all the available country codes.
Step 3	configure terminal Example: Device# configure terminal	Enters global configuration mode.

	Command or Action	Purpose
Step 4	ap dot11 { 24ghz 5ghz } shutdown Example: Device(config)# ap dot11 5ghz shutdown	Disables the 802.11b/g network, if you use 24ghz. Disables the 802.11a network, if you use 5ghz.
Step 5	ap country <i>country_code</i> Example: Device(config)# ap country IN	Configures country code on the controller, so that access points joining controller matches the country code and its corresponding regulatory domain codes for the AP. Note More than one country code can be configured.
Step 6	wireless country <i>country_code</i> Example: Device(config)# wireless country IN	Configures 200 country codes per device. Note This CLI is applicable for deployments having more than 20 countries.
Step 7	exit Example: Device(config)# exit	Returns to privileged EXEC mode.
Step 8	show wireless country configured Example: Device# show wireless country configured	Displays the configured countries.
Step 9	show wireless country channels Example: Device# show wireless country channels	Displays the list of available channels for the country codes configured on your device. Note Perform Steps 9 through 17 only if you have configured multiple country codes in Step 6.
Step 10	configure terminal Example: Device# configure terminal	Enters global configuration mode.
Step 11	no ap dot11 { 24ghz 5ghz } shutdown Example: Device(config)# no ap dot11 5ghz shutdown	Enables the 802.11b/g network, if you use 24ghz. Enables the 802.11a network, if you use 5ghz.
Step 12	ap name <i>cisco-ap</i> shutdown Example: Device# ap name AP02 shutdown	Disables the access point. Note Ensure that you disable only the access point for which you are configuring country codes.


```
Auto-RF      : . . . . .
-----:+++++
4.9GHz 802.11a :
Channels      :
               1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2
               1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
-----:+++++
US (-A , -AB ) : * * * * * * * * * * * * * * * * A * * * * * A
Auto-RF      : . . . . .
```

