



# Regulatory Compliance (Rest of the World) for Domain Reduction

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## Information About Regulatory Compliance Domain

Controllers and access points (AP) are designed for use in many countries with varying regulatory requirements. Country code enables 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.

This feature helps to reduce the number of regulatory domains by modifying the existing pre-provision domains workflow to determine the regulatory domain at runtime for each country code. A new Rest of World (RoW) domain has been introduced and merged to include the nine pre-existing domains. Every AP can determine its own regulatory domain from one of these domains, with the regulated power table and the allowed radio channels.



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**Note** The transmission power value in the TPC IE of the beacon can differ from that of the transmission power value of the AP displayed in the **show controllers dot11radio** command, by a maximum difference of 2 dB. The maximum deviation allowed in TPC IE of beacon is 2 dB.

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## Global Country-Level Domains

*Table 1: Power Table and Supported Channels of Countries in Global Domain (2.4-GHz and 5-GHz)*

Country and Code	Outdoor Power Table 2.4-GHz	Outdoor Power Table 5-GHz	Supported Channels 2.4-GHz	Supported Secondary Channels 5-GHz
Albania: AL	2G-E	5G-E	1-2-3-4-5 -6-7-8-9-10-11-12-13	100-104-108- 112-116-132-136-140
Belgium: BE	2G-E	5G-E	1-2-3-4-5- 6-7-8-9-10-11-12-13	100-104-108- 112-116-132-136-140
Bulgaria: BG	2G-E	5G-E	1-2-3-4-5-6, 7-8-9-10-11-12-13	100-104-108- 112-116-132-136-140
Canada: CA	2G-A	5G-A	1-2-3-4-5-6 7-8-9-10-11	100-104-108-112-116- 132-136-140-149-153-157- 161-165
Croatia: HR	2G-E	5G-E	1-2-3-4-5- 6-7-8-9-10-11-12-13	100-104-108- 112-116-132-136-140
Czech Republic: CZ	2G-E	5G-E	1-2-3-4-5- 6-7-8-10-11-12-13	100-104-108- 112-116-132-136-140
Estonia: EE	2G-E	5G-E	1-2-3-4-5- 6-7-8-9-10-11-12-13	100-104-108- 112-116-132-136-140
Finland: FI	2G-E	5G-E	1-2,-3-4-5 6-7-8-9-10-11-12-13	100-104-108 112-116-132-136-140
France: FR	2G-E	5G-E	1-2-3-4-5-6 7-8-9-10-11-12-13	100-104-108- 112-116-132-136-140
Germany: DE	2G-E	5G-E	1-2-3-4-5-6 7-8-9-10-11-12-13	100-104-108- 112-116-132-136-140
Greece: GR	2G-E	5G-E	1-2-3-4-5-6 7-8-9-10-11-12-13	100-104-108- 112-116-132-136-140
Hungary: HU	2G-E	5G-E	1-2-3-4-5- 6-7-8-9-10-11-12-13	100-104-108 112-116-132-136-140

Country and Code	Outdoor Power Table 2.4-GHz	Outdoor Power Table 5-GHz	Supported Channels 2.4-GHz	Supported Secondary Channels 5-GHz
Iceland: IS	2G-E	5G-E	1-2-3-4-5-6 7-8-9-10-11-12-13	100-104-108 112-116-132-136-140
Indonesia: ID	2G-F	5G-F	1-2-3-4-5-6 7-8-9-10-11-12-13	149-153-157-161
Italy: IT	2G-E	5G-E	1-2-3-4-5- 6-7-8-9-10-11-12-13	100-104-108 112-116-132-136-140
Japan: JP	2G-Q	5G-Q	1-2-3-4-5-6 7-8-9-10-11-12-13	100-104-108- 112-116-120-124-128-132- 136-140-144
Latvia: LV	2G-E	5G-E	1-2-3-4-5- 6-7-8-9-10-11-12-13	100-104-108 112-116-132-136-140
Liechtenstein: LI	2G-E	5G-E	1-2-3-4-5- 6-7-8-9-10-11-12-13	100-104-108- 112-116-132-136-140
Lithuania: LT	2G-E	5G-E	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, and 13	100-104-108-112 -116-132-136-140
Luxembourg: LU	2G-E	5G-E	1-2-3-4-5-6 7-8-9-10-11-12-13	100-104-108 112-116-132-136-140
Malta: MT	2G-E	5G-E	1-2-3-4-5- 6-7-8-9-10-11-12-13	100-104-108- 112-116-132-136-140
Netherlands: NL	2G-E	5G-E	1-2-3-4-5- 6-7-8-9-10-11-12-13	100-104-108- 112-116-132-136-140
New Zealand: NZ	2G-A	5G-E	1-2-3-4-5- 6-7-8-9-10-11	100-104-108-112- 116-132-136-140- 149-153-161-165
Norway: NO	2G-E	5G-E	1-2-3-4-5-6 7-8-9-10-11-12-13	100-104-108- 112-116-132-136-140
Poland: PL	2G-E	5G-E	1-2-3-4-5- 6-7-8-9-10-11-12-13	100-104-108- 112-116-132-136-140

Country and Code	Outdoor Power Table 2.4-GHz	Outdoor Power Table 5-GHz	Supported Channels 2.4-GHz	Supported Secondary Channels 5-GHz
Portugal: PT	2G-E	5G-E	1-2-3-4-5- 6-7-8-9-10-11-12-13	100-104-108- 112-116-132-136-140
Puerto Rico: PR	2G-A	5G-B	1-2-3-4-5- 6-7-8-9-10-11	36-40-44-48- 52-56-60-64-100-104- 108-112-116-120-128-132-140- 144-149-153- 157-161-165
Romania: RO	2G-E	5G-E	1-2-3-4-5-6-7-8 -9-10-11- 12-13	100-104-108-112- 116-132-136-140
Russian Federation: RU	2G-R	5G-R	1-2-3-4-5- 6-7-8-9-10-11-12-13	36-40-44-48- 52-56-60-64-136-140- 144-149-153-157-161-165
Slovak Republic: SK	2G-E	5G-E	1-2,-3-4-5- 6-7-8-9-10-11-12-13	100-104-108-112- 116-132-136-140
Slovenia: SI	2G-E	5G-E	1-2-3-4-5- 6-7-8-9-10-11-12-13	100-104-108- 112-116-132-136-140
Spain: ES	2G-E	5G-E	1-2-3-4-5- 6-7-8-9-10-11-12-13	100-104-108- 112-116-132-136-140
Sweden: SE	2G-E	5G-E	1-2-3-4-5- 6-7-8-9-10-11-12-13	100-104-108- 112-116-132-136-140
Switzerland: CH	2G-E	5G-E	1-2-3-4-5- 6-7-8-9-10-11-12-13	100-104-108- 112-116-132-136-140
United States of America: US	2G-A	5G-B	1-2-3-4-5- 6-7-8-9-10-11	36-40-44-48-52-56-60-64- 100-104-108-112-116-120-128- 132-140-144-149-153 157-161-165

## Restrictions on Regulatory Compliance Domain

- Cisco Catalyst 9124 AXE APs (9124AXE-F) are not supported in Indonesia. The AP radios are operationally down.

## Rest of World Domain

Until Cisco IOS XE Bengaluru 17.5.1, APs used the global controller country list to configure and validate the country codes. From Cisco IOS XE Bengaluru 17.6.1 onwards, RoW domain support was added.

The following APs support RoW domain:

- Cisco Catalyst 9124AX outdoor Access Points
- Cisco Catalyst 9136 Access Points
- Cisco Catalyst 9164 Series Access Points
- Cisco Catalyst 9166 Series Access Points

**Table 2: Power Table and Supported Channels of Countries in RoW Domain**

Country and Code	Outdoor Power Table 2.4-GHz	Outdoor Power Table 5-GHz	Supported Channels 2.4 GHz	Supported Channels 5 GHz
Algeria: DZ	2G-E	5G-C1	1-2-3-4-5-6-7-8-9-10-11-12-13	52-56-60-64-100-104-108-112-116-132
Argentina: AR	2G-Z	5G-A1	1-2-3-4-5-6-7-8-9-10- 11	36-40-44-48-52-56-60-64-100-104-108-112-116-132-136-140-149-153-157-161-165
Bahamas: BS	2G-A	5G-B1	1-2-3-4-5-6-7-8-9-10-11	36-40-44-48-52-56-60-64-149-153-157-161-165
Bahrain: BH	2G-E	5G-C1	1-2-3-4-5-6-7-8-9-10-11-12-13	149-153-157-161-165
Bangladesh: BD	2G-A	5G-A2	1-2-3-4-5-6-7-8-9-10- 11	149-153-157-161-165
Barbados: BB	2G-A	5G-B1	1-2-3-4-5-6-7-8-9-10- 11	36-40-44-48-52-56-60-64-149-153-157-161-165
Bolivia: BO	2G-A	5G-A10	1-2-3-4-5-6-7-8-9-10- 11	149-153-157-161-165
Bosnia: BA	2G-E	5G-E	1-2-3-4-5-6-7-8-9-0-11-12-13	100-104-108-112-116-132-136-140
Brazil: BR	2G-Z	5G-Z1	1-2-3-4-5-6-7-8-9-10-11-12-13	100- 104-112-116-120-124-128-132-136-140-149-153-157- 161-165

Country and Code	Outdoor Power Table 2.4-GHz	Outdoor Power Table 5-GHz	Supported Channels 2.4 GHz	Supported Channels 5 GHz
Brunei: BN	2G-V1	5G-M3	1-2-3-4-5-6-7-8-9-10 11-12-13	36-40-44-48-52-56-60-64- 116-120-124-128-132-136-140- 149-153-157-161-165
Cameroon: CM	2G-E	5G-E	1-2-3-4-5-6-7-8-9-10 11-12-13	100-104-108-112-116-132-136-140
Chile: CL	2G-A	5G-A3	1-2-3-4-5-6-7-8-9-10- 11	52-56-60-64-100-104- 108-112-116-120-124-128-132- 136 140-149-153-157-161-165
China: CN	2G-E	5G-H1	1-2-3-4-5-6-7-8-9-10 11-12-13	149-153-157-161-165
Colombia: CO	2G-A	5G-B2	1-2-3- 4-5-6-7-8-9-10- 11	36-40-44-48-52-56-60-64-100-104-108-112-116-120-124-128- 132 136-140-149-153-157-161-165
Cost Rica: CR	2G-A	5G-A4	1-2-3-4-5-6-7-8-9-10- 11	36-40-44-48-52-56-60-64- 100-104-108-112-116-120-124- 128-132-136-140-149-153-157-161-165
Dominican Republic: DO	2G-A	5G-A5	1-2-3-4-5-6-7-8-9-10- 11	36-40-44-48-52-58-60-64- 100-104-108-112- 116-120-124-128- 132-136-140-149-153-157-161-165
Ecuador: EC	2G-A	5G-A4	1-2-3-4-5-6-7-8-9-10-11	36-40-44-48-52-56-60-64- 100-104-108-112- 116-120-124-128- 132-136-140-149-153-157-161-165
Egypt: EG	2G-E	5G-C1	1-2-3-4-5-6-7-8-9-10- 11-12-13	36-40-44-48-52-56-60-64
El Salvador: SV	2G-A	5G-A	1-2-3-4-5-6-7-8-9-10- 11	52-56-60-64-149-153- 157-161-165
Ghana: GH	2G-E	5G-E	1-2-3-4-5-6-7-8-9-10- 11-12-13	100-104-108-112-116- 132-136-140
Gibraltar: GI	2G-E	5G-E	1-2-3-4-5- 6-7-8-9-10-11-12-13	100-104-108 112-116-132-136-140

Country and Code	Outdoor Power Table 2.4-GHz	Outdoor Power Table 5-GHz	Supported Channels 2.4 GHz	Supported Channels 5 GHz
Hong Kong: HK	2G-Z	5G-Z1	1-2-3-4-5-6-7-8-9-10- 11	100-104-108-112-116-120-124-128-132-136-140-149-153-157-161-165
India: IN	2G-Z	5G-D1	1-2-3-4-5-6-8-9-10-11	36-40-44-48-52-56-60- 100-104-108-112-116-124-128-132-136-140-144-153-157-161-165-169
Israel: IL	2G-E	5G-E	1-2-3-4-5-6-7-8-9-10-11-12-13	—
Jamaica: JM	2G-E	5G-Z	1-2-3-4-5-6-7-8-9-10- 11	52-56-60-64-100-104-108-112-116-120-124-128-132-136-140-153-161-165
Jordan: JO	2G-E	5G-E	1-2-3-4-5-6-7-8-9-10-11-12-13	100-104-108-112-116-132-136-140
Kenya: KE	2G-E	5G-E	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, and 13	100-104-108-112-116-132-136-140
Korea: KR	2G-E	5G-K1	1-2-3-4-5-6-7-8-9-10-11-12-13	36-40-44-48-52-56-60 64-100-104-108-112-116-120-124-128-132-136-140-149-153-157-161-165
Lebanon: LB	2G-E	5G-E	1-2-3-4-5-6-7-8-9-10-11-12-13	100-104-108-112-116-132-136-140
Macedonia: MK	2G-E	5G-E	1-2-3-4-5-6-7-8-9-10-11-12-13	100-104-108-112-116-132-136-140
Macao: MO	2G-V1	5G-M3	1- 2-3-4-5-6-7-8-9-10-11-12-13	36-40-44-48-52-56-60-64-116-120-124-128-132-140-149-153-157-161-165
Malaysia: MY	2G-F	5G-C2	1-2-3-4-5-6-7-8-9-10-11-12-13	100-104-108-112-116-120-124-128-149-153-157-161-165
Mexico: MX	2G-A1	5G-A6	1-2-3-4-5-6-7-8-9-10-11-12-13	36-40-44-48-52-56-60-64-149-153-157-161-165

Country and Code	Outdoor Power Table 2.4-GHz	Outdoor Power Table 5-GHz	Supported Channels 2.4 GHz	Supported Channels 5 GHz
Mongolia: MN	2G-E1	5G-E6	1-2-3-4-5-6-7-8-9-10 11-12-13	36-40-44-48-52-56-60-64 116-120-124-128- 132-140-149-153 157-161-165
Monaco: MC	2G-E	5G-E	1-2-3-4-5- 6-7-8-9-10-11-12-13	100-104-108 112-116-132-136-140
Montenegro: ME	2G-E	5G-E	1-2-3-4-5- 6-7-8-9-10-11-12-13	100-104-108 112-116-132-136-140
Oman: OM	2G-E	5G-E	1-2-3-4-5-6 7-8-9-10-11-12-13	100-104-108- 112-116-132-136-140
Pakistan: PK	2G-A1	5G-E7	1-2-3-4-5-6-7-8-9-10- 11	149-153-157-161
Panama: PA	2G-A	5G-B2	1-2-3-4-5-6-7-8-9-10-11	36-40-44-48-52-56-60- 64-100-104-108-112- 116-120-124-128 132-136-140-149-153-157-161-165
Paraguay: PY	2G-A	5G-Z1	1-2-3-4-5-6-7-8-9-10- 11	36-40-44-48-52-56-60- 64-100-104-108-112- 116-120-124-128- 132-136-140-149-153-157-161-165
Peru: PE	2G-A	5G-A	1-2-3-4-5-6-7-8-9-10- 11	56-60-64-100-104-108 112-116-132-136-140- 149-153-157 161-165
Philippines: PH	2G-E	5G-A7	1-2-3-4-5-6-7-8-9-10- 11	36-40-44-48-52-56-60-64 100-104-108-112-116-120-128-136 140-149-153-157-161-165
Rest of the World (Default)	2G-RW	5G-RW	1-2-3-4-5-6-7-8-9-10 11-12-13	—
Saudi Arabia: SA	2G-E	5G-M1	1-2-3-4-5-6-7-8-9-10 11-12-13	100-104-108-112-116 120-124-128-132-136-140
Serbia: RS	2G-E	5G-E	1-2-3-4-5- 6-7- 8-9-10-11-12-13	100-104-108- 112-116-132-136-140



Country and Code	Outdoor Power Table 2.4-GHz	Outdoor Power Table 5-GHz	Supported Channels 2.4 GHz	Supported Channels 5 GHz
Singapore: SG	2G-V1	5G-M3	1-2-3-4-5-6-7-8-9-10 11-12-13	36-40-44-48-52-56-60-64 116-120-124-128- 132-136-140-144 149-153-157-161-165
Slovak Republic: SK	2G-E	5G-E	1-2-3-4-5-6-7-8-9-10 11-12-13	100-104-108-112-116- 132-136-140
South Africa: ZA	2G-E	5G-Z	1-2-3-4-5-6-7-8-9-10- 11-12-13	100-104-108-112-116- 132-136-140-149-153- 157-161-165
Taiwan: TW	2G-Z	5G-B	1-2-3-4-5-6-7-8-9-10- 11	36-40-44-48-52-56-60-64- 100-104-108-112- 116-120-128-132 140-144-149-153-157-161-165
Thailand: TH	2G-E	5G-M3	1-2-3-4-5-6-7-8-9-10 11-12-13	36-40-44-48-52-56-60- 64- 116-120-124-128-132-136- 140-149- 153-157-161-165
Trinidad: TI	2G-A1	5G-M2	1-2-3-4-5-6-7-8-9-10- 11-12-13	100-104-108-112-116 124-128-132-136-140
Tunisia: TN	2G-E	5G-C1	1-2-3-4-5-6-7-8-9-10- 11-12-13	100-104-108-112-116- 132-136-140
Turkey: TR	2G-E	5G-E	1-2-3-4-5- 6-7-8-9-10-11-12-13	100-104-108- 112-116-132-136-140
United Arab Emirates: AE	2G-E	5G-E	1-2-3-4-5- 6-7-8 9-10-11-12-13	100-104-108- 112-116-132-136-140
United Kingdom: GB	2G-E	5G-E1	1-2-3-4-5-6-7-8-9-10- 11-12-13	100-104-108-112-116- 132-136-140
Venezuela: VE	2G-A	5G-A8	1-2-3-4-5-6-7-8-9-10- 11	36-40-44-48-52-56-60-64- 149-153-157-161-165
Vietnam: VN	2G-V1	5G-M2	1-2-3-4-5-6-7-8-9-10- 11-12-13	52-56-60-64-100-104- 112-116-124-128-132-136- 140-153- 157-161-165

# Configuring Country Code for Rest of the World (CLI)

This configuration is mandatory for the RoW.

Follow the procedure given below to configure the country code.

## Before you begin

- Before configuring the country code in the AP profile, ensure that the country is present in the global country list. If the configured country code is not present in the global list, the AP retains the previous country code configuration. In addition, the misconfigured operation triggers a default flag and brings the radio operations down.
- If the configured country code does not match with the regulatory domain of one or more radio slots, the AP retains the previous country code configuration. In addition, the misconfigured operation triggers a default flag and brings the radio operations down.

## Procedure

	Command or Action	Purpose
<b>Step 1</b>	<b>configure terminal</b> <b>Example:</b> Device# configure terminal	Enters global configuration mode.
<b>Step 2</b>	<b>ap profile <i>ap-profile</i></b> <b>Example:</b> Device(config)# ap profile default-ap-profile	Configures an AP profile and enters AP profile configuration mode. <b>Note</b> The Cisco Embedded Wireless Controller (EWC) supports only the default AP profile.
<b>Step 3</b>	<b>country <i>code</i></b> <b>Example:</b> Device(config-ap-profile)# country IN	Sets the country code. Use the <b>no</b> form of this command to delete the country code. <b>Note</b> From Cisco IOS XE Bengaluru 17.6.1, the <b>ap country code</b> command was modified. The <b>ap</b> keyword was removed. The modified command is <b>country code</b> .
<b>Step 4</b>	<b>end</b> <b>Example:</b> Device(config-ap-profile)# end	Returns to privileged EXEC mode.
<b>Step 5</b>	<b>show ap profile name default-ap-profile detailed</b> <b>Example:</b>	Displays the AP country code for the AP join profile.

	<b>Command or Action</b>	<b>Purpose</b>
	<pre>Device# show ap profile name default-ap-profile detailed  AP Profile Name           : default-ap-profile Description                : default   ap profile . . . Country code              : IN</pre>	<p>If a country is not configured in the AP join profile, the country code will be displayed as “Not configured”.</p> <p>The regulatory domain of RoW APs will be displayed as ROW.</p>

