

# Regional Scoping with ISO Codes (MeshCore)

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Regional scoping is part of the [RegionMesh](#) system for applying ISO 3166-2 geographic identifiers to MeshCore repeaters. It allows repeaters to filter message routing by region, reducing cross-country network congestion.

### How It Works

- Messages *without* an explicit scope use a wildcard `*` region and reach all repeaters regardless of region configuration.
- When a message carries a scope: *"Repeaters only forward messages when the scope precisely matches a configured region."*
- This allows a regional community (e.g., Colorado) to create channels that stay within their region without polluting the national mesh.

### Configuration Limits

- The number of regions configurable per repeater depends on firmware version. Refer to MeshCore release notes for current limits.
- Region identifiers: lowercase, maximum 29 bytes
- Minimum scope: country code (`us`) plus state code (`us-co`)

### CLI Configuration Example (Colorado)

```
region put us
region put us-co us
region save
```

This configures the repeater to serve both the national US scope and the Colorado state scope.

# Standard ISO 3166-2 Region Codes

Code	Region
<code>us</code>	United States (national)
<code>us-co</code>	Colorado
<code>us-nd</code>	North Dakota
<code>us-or</code>	Oregon
<code>us-wa</code>	Washington
<code>ca</code>	Canada (national)

## Community-Defined Local Region Codes

Beyond ISO 3166-2 state/province codes, communities can define metro-area codes. These are registered by community consensus in the RegionMesh Discord:

Code	Area
<code>us-dfw</code>	Dallas/Fort Worth
<code>us-bay</code>	<a href="#">San Francisco Bay Area</a>
<code>us-atl</code>	Greater Atlanta

New local codes are established by community consensus and registered in the RegionMesh Discord at [meshcore.gg](https://meshcore.gg).

## After Changing Region Configuration

Always run `advert` after saving region changes to broadcast the updated configuration to the network immediately rather than waiting for the next scheduled advertisement.

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