Full Command Reference

MeshCore has two command surfaces. The device-side **serial CLI** (canonical reference: `docs.meshcore.io/cli_commands`) uses bare `get`/`set` verbs and is used to configure repeaters and room servers over USB serial. The host tool **meshcore-cli** (invoked as `meshcore-cli`/`meshcli`) connects to a companion radio over BLE, TCP, or Serial; commands can be passed on the command line or entered in interactive chat mode. The tables below note which surface each command belongs to.

Device Information & Status

Command	Purpose
`infos` (alias `i`)	meshcore-cli: print node info (public key, TX power, radio params, name, location). For firmware version use `ver`; for battery/telemetry use `self_telemetry` / `req_status`.
`stats-radio` / `stats-core` / `stats-packets`	Serial CLI: radio stats (noise floor, RSSI/SNR, airtime), core stats (battery, uptime, queue), and packet counters. There is no bare `status` command.
`contacts` / `list` (alias `lc`)	meshcore-cli: list known contacts (nodes you have received adverts from). Use `node_discover <filter>` (`nd`) to discover nodes by type, or `neighbors` on a repeater's serial CLI.
`get <param>`	Read a setting (e.g. `get radio`, `get name`, `get tx`). Run `get help` for the parameter list. There is no `config get` command.

Configuration

Command	Purpose
`set name <name>`	Set the node name (no `config set` prefix).
`set tx <dbm>`	Set LoRa transmit power in dBm (valid 1–22 for SX1262). Choose a value that keeps EIRP within your region's limit — 36 dBm EIRP in the US per FCC Part 15.247. Setting too high may violate local law.
`erase`	Restore factory defaults. **Serial-only and destructive.** There is no `config reset` command.

Command	Purpose
`set lat <degrees>`	Set latitude in degrees.
`set lon <degrees>`	Set longitude in degrees.
`password <new_password>`	Set the admin password. Any node presenting this password is added to the admin ACL.

Messaging

Command	Purpose
`msg <name> <message>` (alias `m`)	meshcore-cli: send a direct message to a contact by name.
`public <message>` or `chan <nb> <message>`	meshcore-cli: send to the public channel (0) or to channel number <nb>. Channel messages flood to subscribers. There is no `broadcast` command.
`msgs_subscribe` (alias `ms`)	meshcore-cli: display messages as they arrive. Use `recv` (`r`) / `wait_msg` (`wm`) to read them, or chat mode. There is no `listen` command.

Network & Routing

Command	Purpose
`advert`	Trigger immediate advertisement broadcast (flood). Use `advert.zerohop` for a zero-hop advert.
`set flood.advert.interval <hours>`	Flood advert interval in hours (valid 3–168; default 12).
`set path.hash.mode <0|1|2>`	Advert path hash size (0=1-byte, 1=2-byte, 2=3-byte; **default 0**). Affects only this node's own adverts, not forwarding or routing-table behaviour; requires firmware ≥ 1.14.
`region put <name> [parent]`	Create a region. Names are user-defined (e.g. `region put #USA`) — there are no predefined US/state scopes. Flooding must be enabled separately.
`region put <child> <parent>`	Create a nested region under a parent (e.g. `region put #Colorado #USA`). Names are user-defined, not ISO/region codes.
`region save`	Save region configuration.

Repeater & Room Server

Command	Purpose
`set agc.reset.interval <seconds>`	AGC reset interval in **seconds** (rounded down to a multiple of 4; 0 disables). Helps with receiver desensitization.
`set repeat <on|off>`	Enable/disable packet repeating on a repeater or room server (default on).

Firmware & Maintenance

Command	Purpose
`reboot`	Restart the device.
`start ota`	Initiate an over-the-air firmware update (nRF52). Otherwise flash via the MeshCore web flasher or esptool/UF2. There is no `flash` command.

Revision #3
Created 2026-05-03 03:00:19 UTC by Mesh America Admin
Updated 2026-06-09 14:21:23 UTC by Mesh America Admin