

Zigbee2MQTT / ZHA Settings

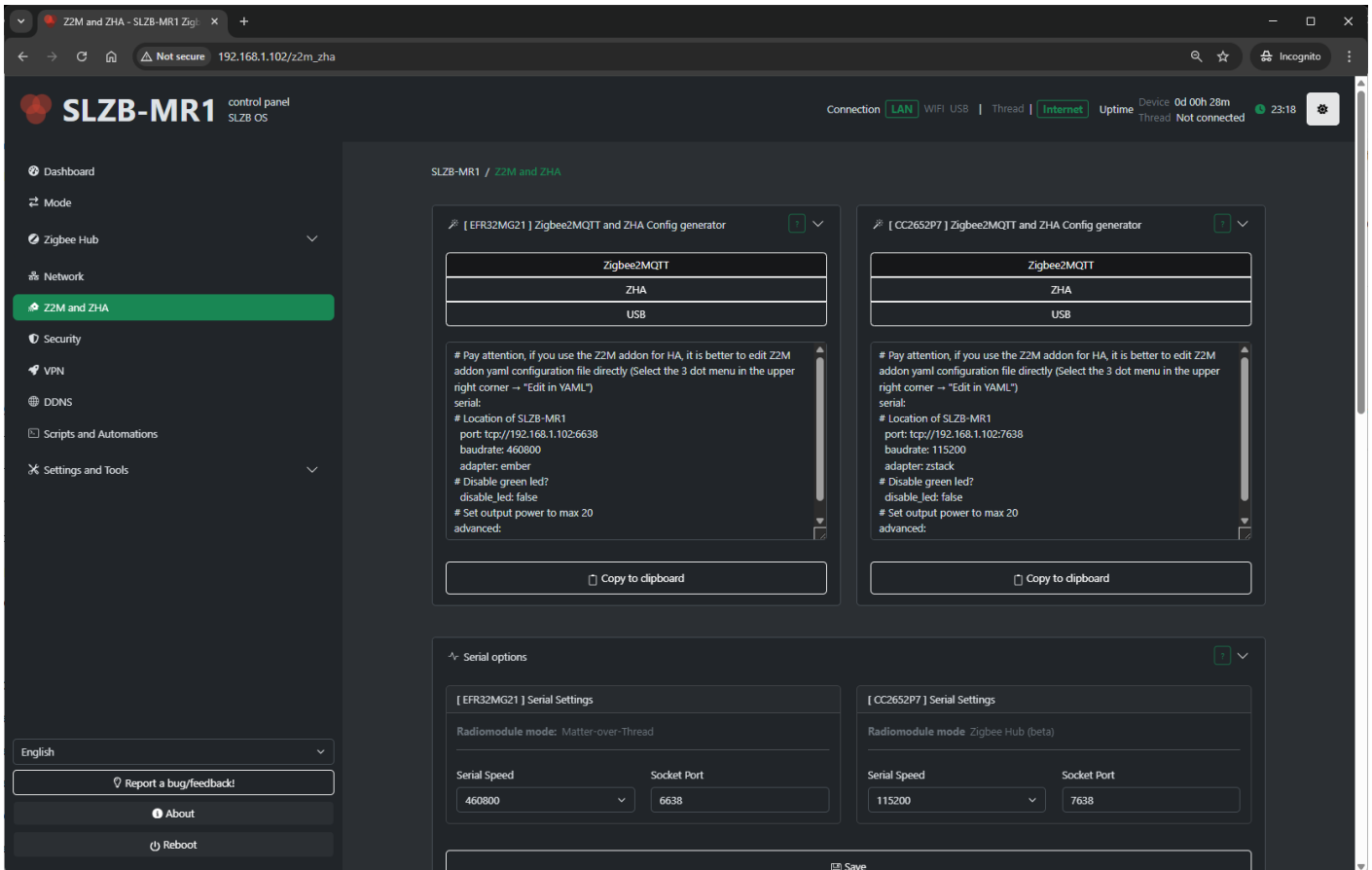
6. Zigbee2MQTT and ZHA Configuration

The **Z2M and ZHA** page in SLZB-OS provides configuration tools for connecting your device's Zigbee coordinator to an external server running either **Zigbee2MQTT (Z2M)** or **Zigbee Home Automation (ZHA)**.

It also contains advanced options for connection methods and device identity.

“ Note:

- On **single-radio devices** (e.g., SLZB-06x and SLZB-06xU series), these settings apply to that one radio.
- On **dual-radio devices** (e.g., SLZB-MRx and SLZB-MRxU series), settings will appear for **both radios**, and each must be configured separately.



7.1 Configuration Generator – Purpose and Output

This section provides **ready-to-use parameters** for integrating your coordinator with an external Zigbee2MQTT or ZHA setup via Ethernet.

What it does:

- Reads the current radio configuration.
- Generates adapter type, connection interface, baud rate, and socket settings.
- Reduces manual input errors when configuring your external Z2M/ZHA installation.

What it provides:

- **Adapter type** (e.g., CC2652P7 = ZNP, EFR32MG21 = EZSP).
- **Serial settings** (port, baud rate).
- **Socket details** (IP, port) if using Ethernet bridge mode.

You simply copy these values into your external Z2M `configuration.yaml` or ZHA connection string.

7.2 Serial Options

If you use **USB or direct serial** mode, the **Serial Settings** section appears.

Available fields:

- **Serial port** - socket port to which the external server has to connect. Default is
 - **Serial Speed** - Choose from:
 - 115200 (*default for most Zigbee firmwares*)
 - 460800 (*default for most Thread firmwares*)Select the baud rate supported by your firmware and integration.
 - **Save** - Apply changes.
-

7.3 Advanced Socket Connection Options

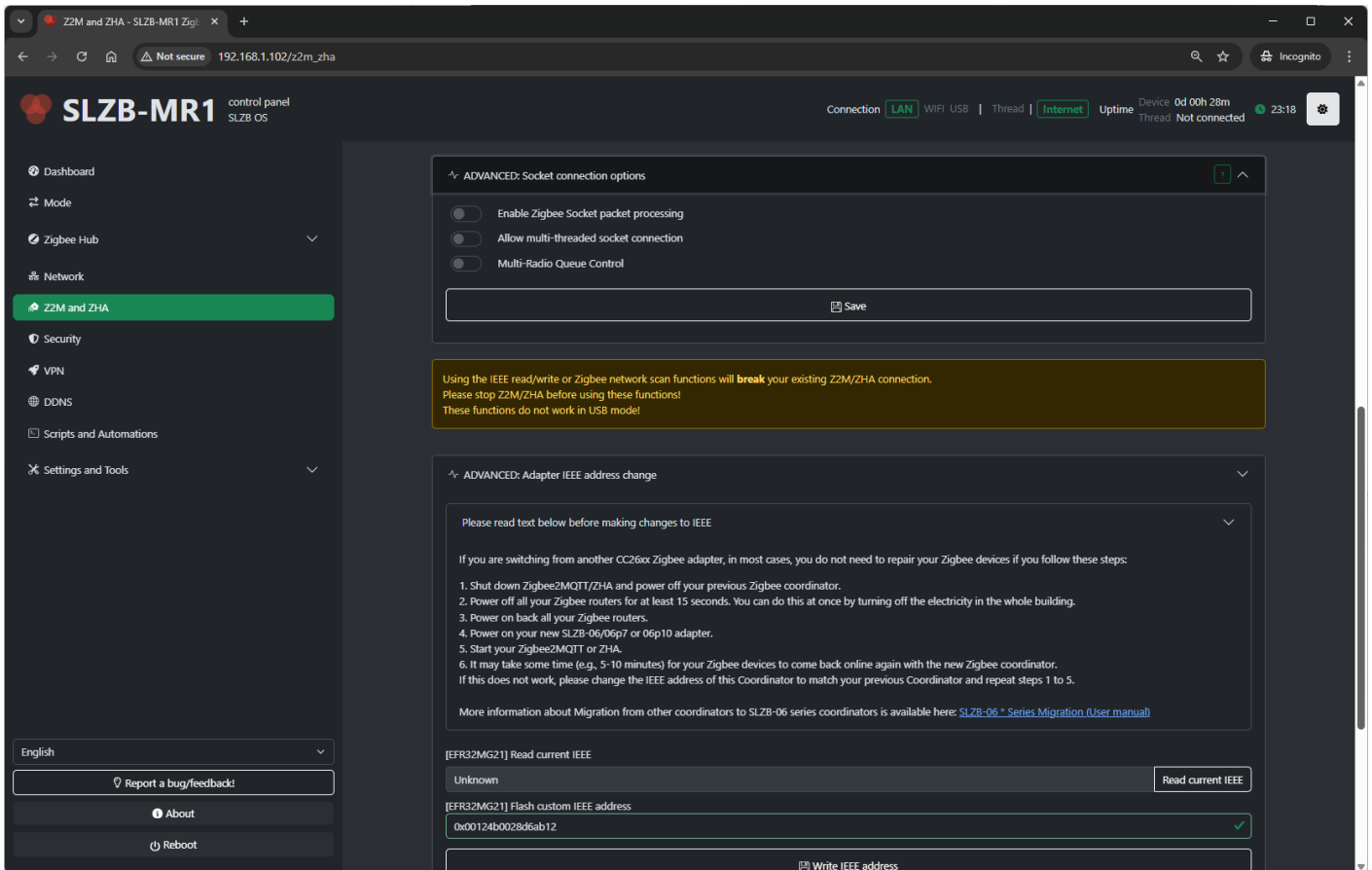
The **ADVANCED: Socket options - helper** section controls how the coordinator's serial data is forwarded over TCP.

Available options:

1. **Enable Zigbee Socket packet processing**
 - Instead of forwarding raw bytes, SLZB-OS assembles complete **EZSP/ZNP frames** before sending them.
 - Only valid Zigbee frames are forwarded — other traffic is ignored.
 2. **Allow multi-threaded socket connection**
 - Up to **5 clients** can connect to the socket at once.
 - **Important:** Only **one client** can actively communicate with the Zigbee chip at a time. If multiple clients send data simultaneously, the connection will not function correctly.
 3. **Multi-Radio Queue Control** (*only shown on dual-radio devices*)
 - Balances socket traffic between radios.
-

7.4 IEEE Address Change

The **ADVANCED: Adapter IEEE address change** section allows you to read or modify the coordinator's IEEE (extended) address.



Important notes from the UI:

- **Using IEEE read/write or Zigbee network scan will break your current Z2M/ZHA connection.**
- **Stop Z2M/ZHA before using these functions.**
- **Does not work in USB mode.**

Migration tip from SLZB-OS:

If migrating from another CC26xx adapter, you may avoid re-pairing devices if you:

1. Shut down Zigbee2MQTT/ZHA and power off your old coordinator.
2. Power off all Zigbee routers for ≥ 15 seconds (e.g., cut building power briefly).
3. Power on the new coordinator.
4. Power on routers.
5. Start Zigbee2MQTT/ZHA.
Devices may take **5-10 minutes** to reconnect.
6. If they do not, set the **IEEE address** of your new coordinator to match the old one, and repeat steps 1-5.

IEEE tools in UI:

- **Read factory IEEE**
- **Read current IEEE**
- **Flash custom IEEE address**
- **Write IEEE address**

Revision #1

Created 14 August 2025 20:19:16 by Support3

Updated 14 August 2025 20:27:40 by Support3