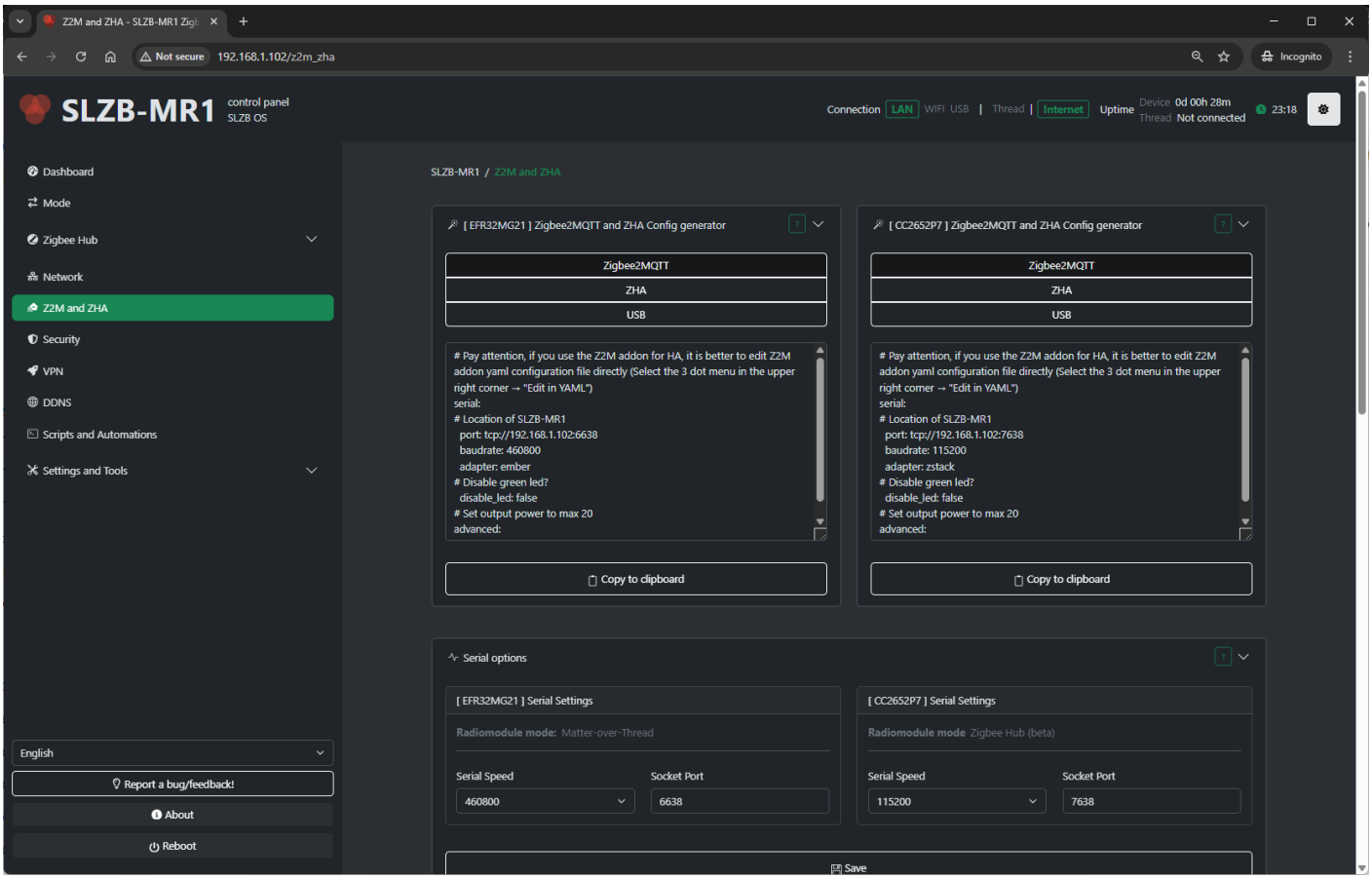
# Zigbee2MQTT / ZHA Settings

# 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 `6638`
- **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.

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# 7.3 Advanced Socket Connection Options

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

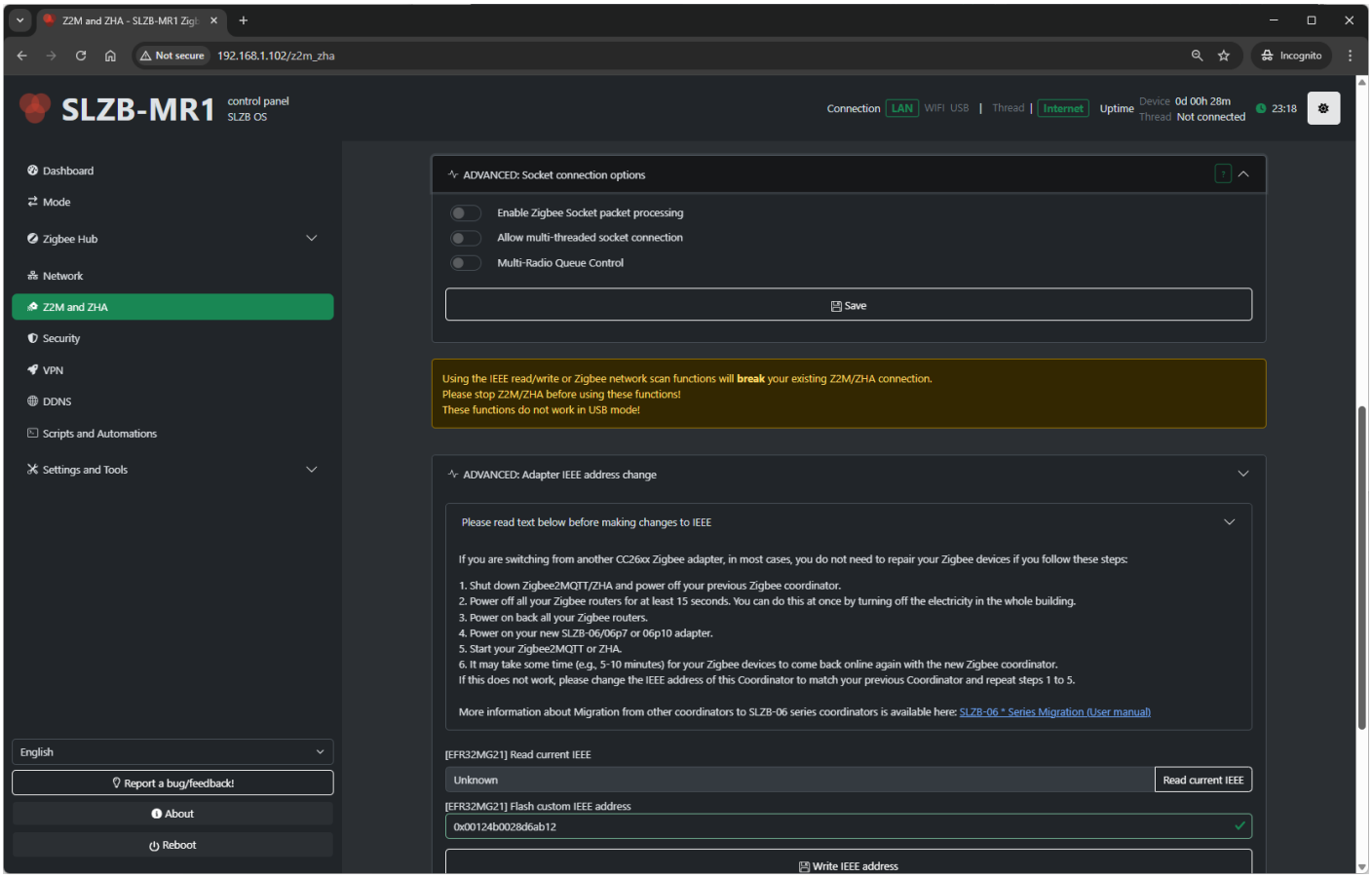
Available options:

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.

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# 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**

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