# Change IEEE address on SMHUB radio

## EFR32 IEEE Address change

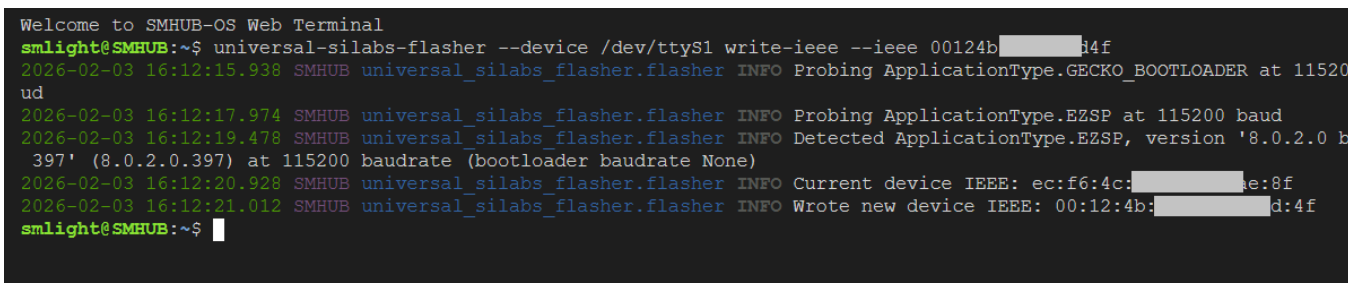
**Minimum firmware requirements for this change**:

- smhub-os: 0.3.11 (prod) or 0.9.3 (dev)
- smhub-services: 0.2.8-1
- smhub-web: 0.2.24-1

1. **Stop all applications using the EFR32 SoC**, including internal apps on SMHUB (e.g. Zigbee2MQTT) or any external applications if the EFR32 is used remotely (for example, Zigbee2MQTT running on another server).
2. Open **SMHUB-OS Console** (main Menu, tab Console).
3. Run the command below (replace the IEEE address `00124b1209d43d4f` if needed):
   **SMHUB Nano Mg24**:
   `universal-silabs-flasher --device /dev/ttyS1 write-ieee --ieee 00124b1209d43d4f`

   **SMHUB Essential/Premium**:
   `universal-silabs-flasher --device /dev/ttyS2 write-ieee --ieee 00124b1209d43d4f`
4. Wait until the EFR32 SoC is detected and the IEEE address is written.
5. Confirm the operation by checking the output.

```
INFO Probing ApplicationType.EZSP at 115200 baud
INFO Detected ApplicationType.EZSP, version: 8.0.2.0
INFO Current device IEEE: ec:f6:4c:ae:fe:21:ae:12
INFO Wrote new device IEEE: 00:12:4b:12:09:d4:3d:4f
```



6. Should work without a restart, but if not, please reboot with a power cycle (e.g., power off from the power and then power it on).

# CC26xx IEEE Address change

**Minimum firmware requirements for this change**:

- smhub-os: 0.3.11 (prod) or 0.9.3 (dev)
- smhub-services: 0.2.9-1
- smhub-web: 0.2.24-1

1. **Stop all applications using the CC26xx chip**, including internal apps on SMHUB (e.g. Zigbee2MQTT) or any external applications if the CC26xx is used remotely.
2. Open **SMHUB-OS Console** (main Menu, tab Console).
3. Choose the required operation and run **one** of the commands below depending on the variant you have:

| **SMHUB Essential, SMHUB NanoP7** (CC2652X SoC) | **SMHUB Premium** (CC2674X SoC) |
|---|---|
| **Set IEEE only** (works only if custom IEEE is blank, e.g. custom IEEE never set before):<br>`smlight_cc_flasher -d /dev/ttyS1 -i 00:12:4b:00:30:12:16:53`<br><br>**Set IEEE and flash firmware** (can change IEEE even if already set):<br>`smlight_cc_flasher -ewv -d /dev/ttyS1 -i 00:12:4b:00:23:bf:32:48:5d znp.hex`<br>where `znp.hex` is a CC firmware file. | **Set IEEE only** (works only if custom IEEE is blank, e.g. custom IEEE never set before):<br>`smlight_cc_flasher -m33 -d /dev/ttyS1 -i 00:12:4b:00:30:12:16:53`<br><br>**Set IEEE and flash firmware** (can change IEEE even if already set):<br>`smlight_cc_flasher -ewv -m33 -d /dev/ttyS1 -i 00:12:4b:00:23:bf:32:48:5d znp.hex`<br>where `znp.hex` is a CC firmware file. |

4. Wait until flashing completes and verify that the operation finished without errors.
5. If required by your SMHUB-OS version, add the correct bootloader reset option:
   - **SMHUB-OS 0.9.x**
     `--bootloader-reset smhub`
   - **SMHUB-OS 0.3.x**
     `--bootloader-reset smhub-1`

The IEEE address is stored permanently on the CC26xx chip.
Always ensure the IEEE address is **unique** within your Zigbee network.

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