

# 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
```

```
Welcome to SMHUB-OS Web Terminal
smlight@SMHUB:~$ universal-silabs-flasher --device /dev/ttyS1 write-ieee --ieee 00124b[REDACTED]4f
2026-02-03 16:12:15.938 SMHUB universal_silabs_flasher.flasher INFO Probing ApplicationType.GECKO_BOOTLOADER at 115200 baud
2026-02-03 16:12:17.974 SMHUB universal_silabs_flasher.flasher INFO Probing ApplicationType.EZSP at 115200 baud
2026-02-03 16:12:19.478 SMHUB universal_silabs_flasher.flasher INFO Detected ApplicationType.EZSP, version '8.0.2.0.397' (8.0.2.0.397) at 115200 baudrate (bootloader baudrate None)
2026-02-03 16:12:20.928 SMHUB universal_silabs_flasher.flasher INFO Current device IEEE: ec:f6:4c:[REDACTED]:e:8f
2026-02-03 16:12:21.012 SMHUB universal_silabs_flasher.flasher INFO Wrote new device IEEE: 00:12:4b:[REDACTED]:d:4f
smlight@SMHUB:~$ █
```

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:

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

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.

---

Revision #14

Created 3 February 2026 16:25:17 by Support3

Updated 4 February 2026 10:11:13 by Support3