

SMHUB Early Adopter – Quick Start Guide

The **SMHUB Early Adopter Version** is the first public release of our multi-radio smart hub. It's designed for early buyers who want to explore the platform before the full release.

#	Date	Type	Version	Updates / Changes
---	------	------	---------	-------------------

17	28 Feb 2026	smhub-os smhub-services openthread	0.9.6dev0.2.11 0.3.0-1	smhub-services, smhub-web & SMHUB OS Released - Key Features: • Linux Kernel 6.18 (upgrade from vendor kernel 5.4.x) for better stability, performance, and hardware support • Base for the pre-1.0.0 release candidate (DEV channel, but recommended as a strong daily version) • Factory Reset via hardware button (hold the middle button for 10 seconds on SMHUB Essentials /Premium) • User data backup & restore support added • New “Backups” page in the Web UI for managing backups For more details and to update, follow this guide: https://smlight.tech/s
----	-------------	--	---------------------------	---

16	22 Jan 2026	smhub-os smhub-services openthread	0.3.11 0.2.8 0.2.1-2	smhub-services, smhub-web & SMHUB OS Released - Key Features: • Fixed issue with <code>cron.daily</code> preventing daily package updates • Improved kernel options required for OTBR firewall functionality • Migrated autostart files to new structure for improved service handling • Added support for configuring the OTBR app directly • Improved logging and debugging output • Improved pairing flow for new Thread devices • Added support for firewall and NAT64 configuration 📖 How to update: SMHUB-OS: Settings -> Update and restore smhub-services/smhub-
----	-------------	--	----------------------------	--

15	19 Jan 2026	smhub-os smhub-services smhub-web	0.3.10 0.2.7 0.2.23	smhub-services, smhub-web & SMHUB OS Released - Key Features: • Added nftables (+ iptables compat) for Tailscale/firewall • Auto log truncation (daily / size limit) – to resolve freezes issue • Improved NanoMR4 EFR flashing (CC flash reset) • Zigbee2MQTT default logs set to info • Fixed rare boot into backup partition • Faster startup (deferred component loading) • Increased flasher load timeout • Updated GPIO mapping for kernel 6.18 • Updated Buildroot to 2025.11.x 📖 How to update: SMHUB-OS: Settings -> Update and restore smhub-services/smhub-web: Apps-> smhub-
----	-------------	---	---------------------------	--

13	26 Nov 2025	smhub-os smhub-services smhub-web	0.3.7 0.2.2 0.2.16	smhub-services, smhub-web & SMHUB OS Released - Key Features: • smhub-services v0.2.2 • Added support for reading EEPROM v1 format • Radio flashing endpoints updated to support model-based flashing • Updated pysmilight v0.2.11 for Nano flashing • Corrected some default Zigbee2MQTT settings • smhub-web v0.2.16 • Radio page now supports Nano Mg24 flashing • Device model displayed in sidebar • Updated default Zigbee2MQTT settings • App status displayed on Apps settings page • Progress
----	-------------	---	--------------------------	--

12	22 Nov 2025	smhub-os smhub-services smhub-web	0.3.6 0.2.1 0.2.15	smhub-services v0.2.0 & smhub- web v0.2.14 - Key Features • CC Radio Flashing: Added full support for flashing TI CC radios (CC26xx) directly from the Web UI. • Improved Radio Flashers: Better progress bar behaviour and clearer error messages during flashing of CC and EFR32 radios. • App Logs & Restart Buttons: Iframe improvements and new App Logs + Restart controls added for supported apps. • Run/Stop App Fixes: Run/Stop buttons now work more reliably across all apps. • Log Formatting Fix: Resolved issue where logs were
----	-------------	---	--------------------------	--

11	15 Nov 2025	smhub-services smhub-web	0.2.0 0.2.14	smhub-services v0.2.0 & smhub-web v0.2.14 - Key Features • EFR32 Firmware Flashing: Built-in flasher for Silicon Labs radios, fully integrated into the UI. • New Radio Page: Central place to manage radios and perform flashing operations. • Run/Stop App Controls: Start or stop apps directly from the Apps page. • OpenThread Support: SMHUB can now be configured as an OpenThread Border Router via the UI (flashing + app installation + launch). 📖 How to update: smhub-services/smhub-web: Apps-> smhub-services/web or via SSH (either
----	-------------	-----------------------------	-----------------	--

10	09 Nov 2025	smhub-os	0.3.4	smhub-os Released - Key Features: ☐ SMHUB OS v0.3.4 • Set the default apps update channel to <i>stable</i> • Fixed OTA upgrade issue affecting users on firmware v0.3.2/v0.3.3 (update to v0.3.4 now available and functional across all installations) • Fixed UART communication for baud rates above 115200 ☐ How to update: SMHUB-OS: Settings -> Update and restore For more details and to update, follow this guide: https://smlight.tech/support/manuals/books/smhub/page/smhub-os-release-notes#bkmrk-smhub-os-0.3.3%2C-smhu
----	-------------	----------	-------	---

9	07 Nov 2025	smhub-services smhub-web	0.1.20 0.2.12	smhub-services, smhub-web Released - Key Features: ☐ smhub-web v0.2.12 • Added Timezone Selector in <i>Settings</i> → <i>General</i> • LTE page fixes: corrected status display and connectivity info • Z-Wave JS page: now indicates if module is installed • App tiles: fixed version comparison bug on app overview page ☐ smhub-services v0.1.19 • Timezone management: added backend support for listing and setting timezone • EEPROM integration: added support to read product data from device EEPROM • App update stability: fixed bugs related to
---	-------------	-----------------------------	------------------	--

8	03 Nov 2025	smhub-os smhub-services smhub-web	0.3.3 0.1.18 0.2.11	smhub-os, smhub-services, smhub-web Released - Key Features: ☐ smhub-web v0.2.11-1 • New Ethernet settings page • New 4G/LTE management page ☐ smhub-services v0.1.18-1 • Added backend support for 4G/LTE • Added peripheral backend layer for future hardware features ☐ SMHUB OS v0.3.3 • Added timezone data to the base system (<i>frontend integration coming soon</i>) • Added 4G/LTE modem support ☐ How to update: SMHUB-OS: Settings -> Update and restore smhub-services/smhub-web: Apps-> smhub-services/web or via SSH (either Internal console or external SSH client - manual is here) by executing these commands: <pre>sudo opkg update sudo opkg upgrade</pre> For more details and to update, follow this guide: https://smlight.tech/support/manuals/books/smhub/page/smhub-os-release-notes#bkmrk-smhub-services-v0.1.-1
---	-------------	---	---------------------------	---

7	28 Oct 2025	smhub-os smhub-services smhub-web	0.3.2 0.1.17 0.2.10	smhub-os, smhub-services, smhub-web Released - Key Features: ☐ Wi-Fi setup in UI - scan & connect to 2.4 GHz networks (5 GHz in testing mode) - IPv6 works so far) ☐ USB Device/Host selector - switch modes in Settings <i>(requires reboot)</i> ☐ USB device list - view connected devices (up to 127 supported) ☐ Change device hostname - directly from the Web UI ☐ WireGuard - now supports hostnames + IPv4 and IPv6 ☐ Improved recovery - fixed Type-C / SD-Card flashing, added U-Boot realignment & auto-reinstall scripts ☐ Wi-Fi MAC fix - persistent across reboots ☐ Added gpiod utilities ☐ Blue LED indicators during Type-C / SD flashing ☐ How to update: SMHUB-OS: Settings -> Update and restore smhub-services/smhub-web: Apps-> smhub-services/web or via SSH (either Internal console or external SSH client - manual is here) by executing these commands: <pre>sudo opkg update sudo opkg upgrade</pre> For more details and to update, follow this guide: https://smlight.tech/support/manuals/book
---	-------------	---	---------------------------	--

6	24 Oct 2025	smhub-service smhub-web	0.1.16 0.2.9	smhub-services, smhub-web Released - Key Features: •  Wireguard client Settings in UI: Configure SMHUB's internal Wireguard client from the UI (Settings → Wireguard). •  Small, but helpful tweak - Reboot button at the left bottom corner of the UI :) Important: Please update via SSH (either Internal console or external SSH client - manual is here) by executing these commands: <pre>sudo opkg update sudo opkg upgrade</pre> For more details and to update, follow this guide: https://smlight.tech/support/manuals/books/smhub/page/smhub-os-release-notes#bkmrk-2025-oct-13%3A
---	-------------	----------------------------	-----------------	--

5	18 Oct 2025	OS smhub-service smhub-web	0.3.0 0.1.13 0.2.8	New SMHUB-OS, smhub-services, smhub-web Released - Key Features: •  MQTT Broker Settings: Configure SMHUB's internal MQTT broker directly from the UI (Settings → Mqtt) or link it to an external broker in bridge mode. •  Read-only RootFS: The system partition is now read-only for higher reliability; all settings remain saved after OS updates. •  Improved Stability: Fixed MQTT user saving, web upgrade errors, and refined translations and form handling. •  Improved Resets: Deleting the
---	-------------	----------------------------------	--------------------------	---

4	13 Oct 2025	smhub-service smhub-web	0.1.9 0.2.5	New SMHUB Services v0.1.9 & SMHUB Web v0.2.5 Released - Key Features: •  Web Console (Console Tab): Run Linux commands directly from the Web UI — no SSH required. •  Improved Logs: Fixed log visibility for Web and Z-Wave apps. •  Fixed Service Installation Hang: Updates now install reliably via Web UI. •  401 Error Fix: Prevented HEAD request spam in system logs. •  Added <code>opkg update</code> Endpoint : Enables smoother package refresh via backend. •  Web terminal now logs in as <code>smlight</code> with color-enabled shell.
---	-------------	----------------------------	----------------	---

3	12 Oct 2025	OS smhub-service smhub-web	0.2.2 0.1.7-1 0.2.3-1	New SMHUB OS 0.2.2 Released - Key Features: • Full Kernel OTA Support: Until now, only WebUI and backend (smhub-services, smhub-web) could be updated via OTA. Starting with version 0.2.2, the Linux kernel is now also OTA-upgradable - no Type-C flashing needed. • New Logs Tab: Apps such as Zigbee2MQTT now have live log viewing directly in the Web UI. • Improved System Boot: Fixed Z-Wave JS startup issue. • Dashboard Improvements: Added explanatory notes for clarity. • Settings Layout Update:
---	-------------	----------------------------------	-----------------------------	--

2	06 Oct 2025	OS	0.2.1c	New SMHUB OS 0.2.1c Released - Key Features: • Kernel OTA Support: Previously , only the WebUI, backend, and apps supported OTA updates - the kernel did not. Starting with version 0.2.1c, kernel updates now work as well. After this update, the entire system can be updated via OTA, with no need for USB flashing. • LED Animation During Boot: After powering on (in about 3-5 seconds), the LEDs display a blue chasing animation . When this animation stops, it indicates that the device is accessible via SSH. Shortly after, all green LEDs turn
---	-------------	----	--------	---

1	26 Sep 2025	OS	0.2.0	Initial release
---	-------------	----	-------	-----------------

What's Already Installed (Ready to Use)

- **Zigbee2MQTT** (for CC26XX or EFR32XX radios)
 - **Mosquitto MQTT broker**
 - **Matterbridge**
 - **Node-RED**
-

Hardware – Working Now

- CC26XX radio
 - EFR32MGXX radio
 - 100 Mb Ethernet port
 - 12× WS2812B RGB LEDs (Ambilight effects)
 - eMMC storage
 - PoE module support (optional)
 - Z-Wave module support (optional)
-

Hardware – Present but Still in Development

- Wi-Fi 6 (2.4 / 5 GHz) and Bluetooth (currently CLI only, UI support coming)
 - IR receiver and transmitter
 - USB ports: 2× USB-C (1 for power/upstream, 1 downstream), 1× USB-A
 - SD card slot
 - 3.5 mm audio jack
 - 4× Service LEDs
 - 3× Hardware buttons
 - Expansion connectors: UART, I²C, SPI, DIY pinouts
-

Updates & Roadmap

- More hardware functions will be enabled gradually via **SMHUB-OS updates**.
 - New features will roll out continuously (but availability is not guaranteed).
 - **Early adopters receive updates and improvements first.**
-

Updating SMHUB Firmware

This section is moved to the dedicated page here

<https://smlight.tech/support/manuals/books/smhubs/page/smhubs-os-update-restore-methods>

Updating Zigbee Firmware

EFR32

1. Connect to device via SSH terminal

<https://smlight.tech/support/manuals/books/smhubs/page/3-getting-started#bkmrk-ssh-access>

2. Type following commands:

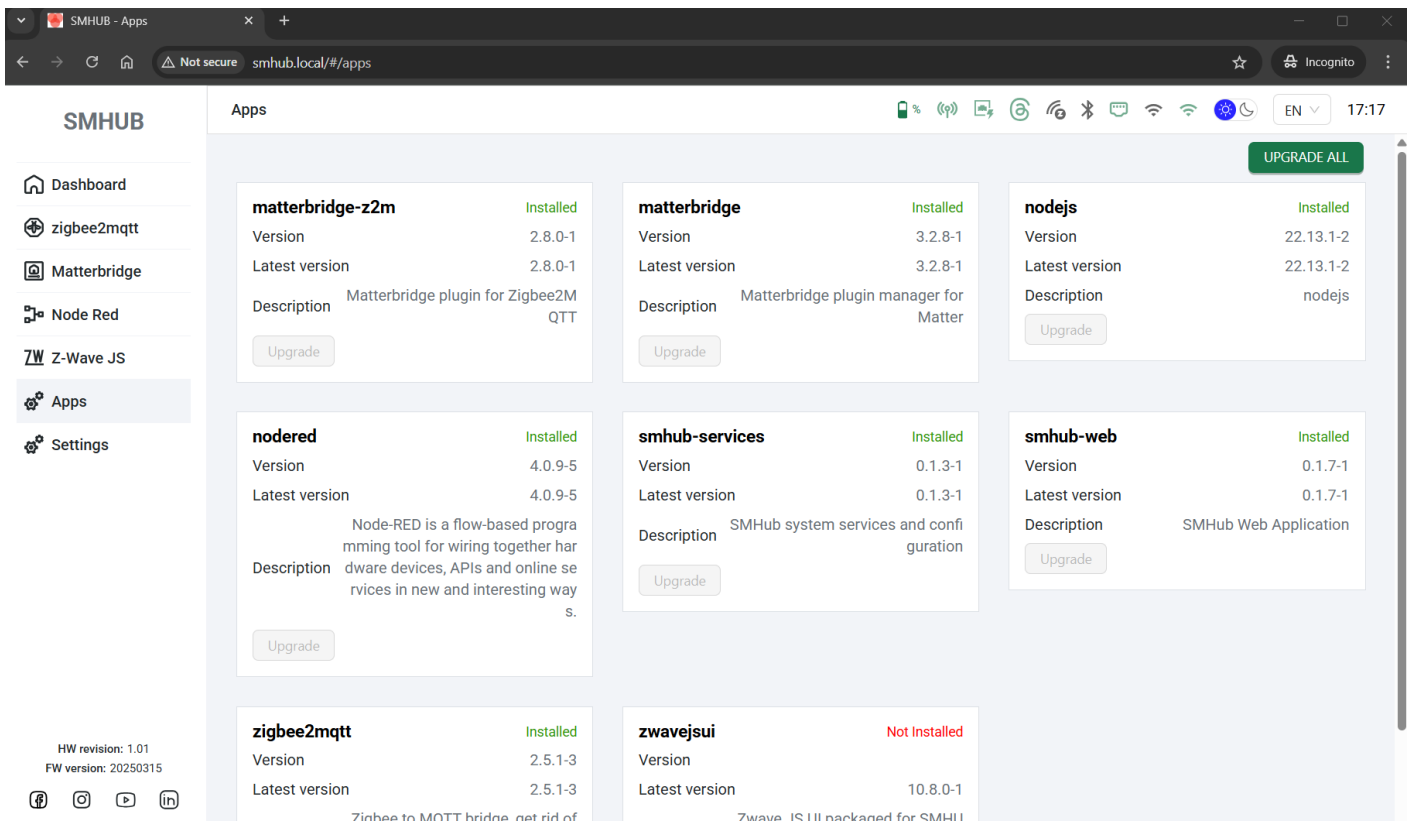
3.

```
sudo pip install python_magic~=0.4.27 && sudo pip install pysmlight~=0.1.3 && sudo
pip install universal-silabs-flasher
cd /home/
sudo wget -O ncp-uart-hw-v7.4.1.0-slzb-07-115200.gbl
http://updates.smlight.tech/firmware/slzb-07/ncp-uart-hw-v7.4.1.0-slzb-07-115200.gbl
sudo wget -O efr_btl_enabler.sh
http://updates.smlight.tech/firmware/smhubs/efr_btl_enabler.sh
sudo chmod 777 efr_btl_enabler.sh
sudo ./efr_btl_enabler.sh
universal-silabs-flasher --device /dev/ttyS2 --probe-method bootloader flash --
firmware ncp-uart-hw-v7.4.1.0-slzb-07-115200.gbl
```

EFR32 firmware will be updated to **v7.4.1.0**

Accessing the Web Interface

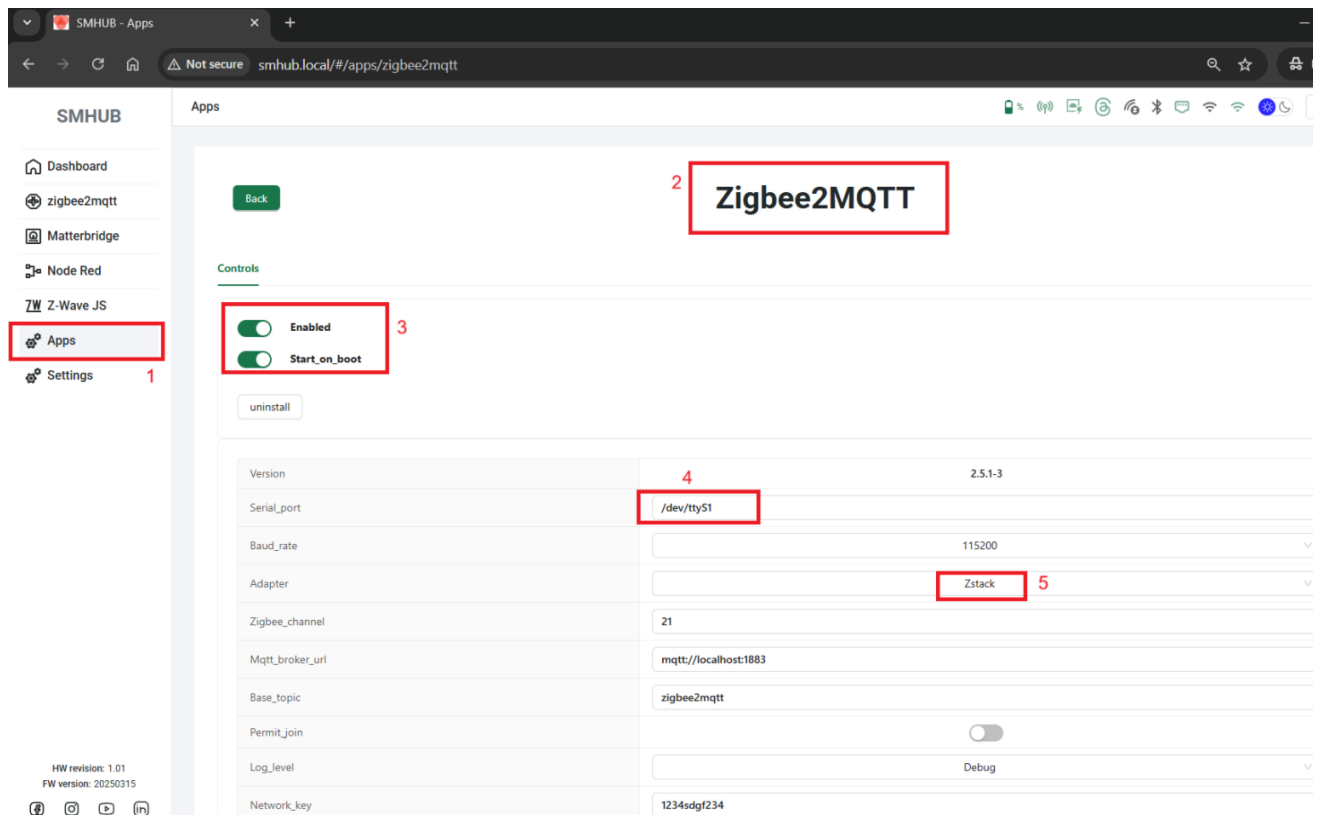
- Open: <http://smhubs.local>



On first boot, **no apps are running**. You must enable them.

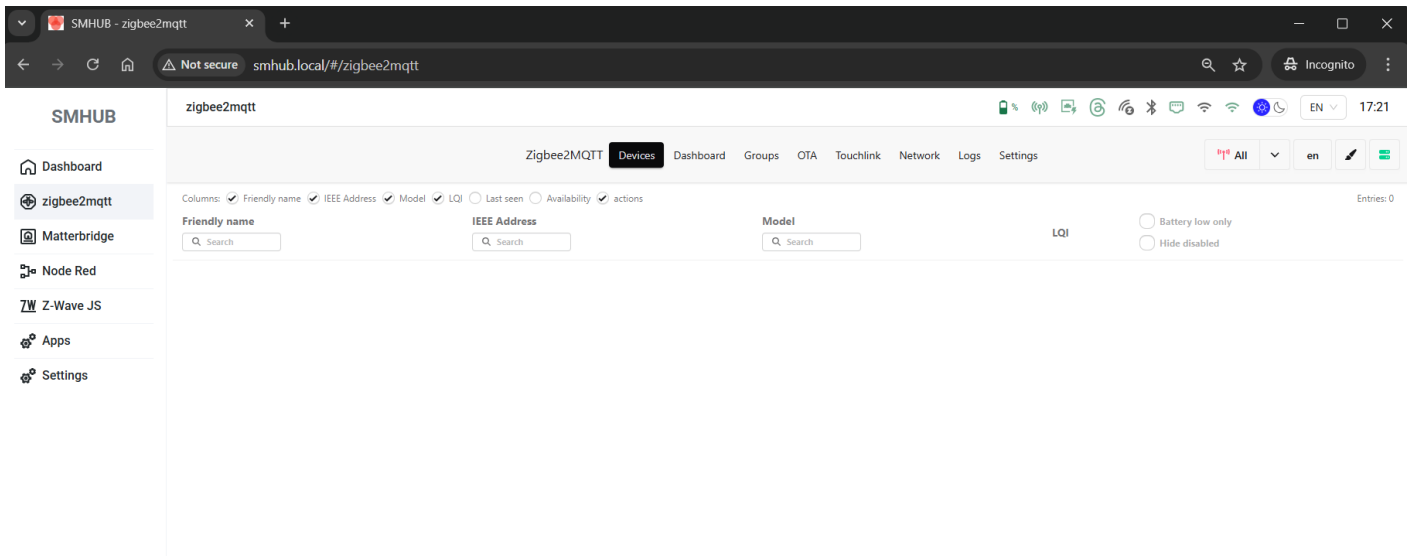
Running Apps (Example: Zigbee2MQTT)

1. Open the **Apps** tab.
2. In **Z2M app settings**:
 - Choose your Zigbee chip:
 - `ttyS1` → CC26XX SoC
 - `ttyS2` → EFR32XX SoC
 - Configure MQTT broker if needed.
3. Toggle:
 - **Enabled** → allows the app to run.
 - **Start on boot** → app starts automatically after reboot.



4. **Reboot SMHUB** (press Reset or power cycle).

5. Once booted, open the **Zigbee2MQTT tab** - you'll see the configuration page.



You can repeat the same steps for:

- **Matterbridge**
- **Node-RED**

SMHUB - Matterbridge

Not secure smhub.local/#/matterbridge

Incognito

SMHUB

Dashboard

zigbee2mqtt

Matterbridge

Node Red

Z-Wave JS

Apps

Settings

HW revision: 1.01

FW version: 20250315

Matterbridge

Home Devices Logs Settings

V3.2.8 bridge

QR pairing code

Matterbridge

TURN ON PAIRING

Serial number

System Information

InterfaceName

usb0

macAddress

IPv4Address

IPv6Address

nodeVersion

22.13.1

hostname

SMHUB

user

smilight

osType

Linux (5.10.4)

osPlatform

linux (riscv64)

freeMemory

217.73 MB / 491.35 MB

systemUptime

22 minutes

processUptime

22 minutes

cpuUsage

0.90 %

rss

141.82 MB

heapUsed

76.14 MB / 79.47 MB

Install plugins

Plugin name or plugin path

matterbridge-

INSTALL

UPLOAD

ADD

Plugins

Name	Description	Version	Author	Type	Devices	Actions	Status
matterbridge-zigbee2mqtt	Matterbridge zigbee2mqtt plugin	2.8.0	Luligu	Dynamic	1		Running

Devices

Plugin	Name	Serial	Availability	Power	Actions
matterbridge-zigbee2mqtt	Coordinator	0x00124b0030bf9639	Online		

Registered devices: 1/1

SMHUB - Node Red

Not secure smhub.local/#/nodered

Incognito

SMHUB

Dashboard

zigbee2mqtt

Matterbridge

Node Red

Z-Wave JS

Apps

Settings

HW revision: 1.01

FW version: 20250315

Node Red

Node-RED

Deploy

filter nodes

common

inject

debug

complete

catch

status

link in

link call

link out

comment

function

function

switch

change

range

template

delay

trigger

exec

Flow 1

info

Search flows

Flows

Flow 1

Subflows

Global Configuration Nodes

Flow 1

Flow

"36ab82122ab38f03"

Dragging a node onto a wire splice it into the link

Note 1

- The **Settings tab** is under development – more options will appear in future updates.
- Once per day, the device automatically runs `opkg update` to check for available updates.
- If you do not see package updates in the web interface, you can force an update manually:
 1. Connect to the device using an **SSH terminal** (e.g., PuTTY).
 2. Log in with credentials:
 - **User:** `smlight`
 - **Password:** `smlight`
 3. Run the command:

```
sudo opkg update
```

using password ``smlight``
 4. Return to the web interface and **refresh the Apps page**.
 5. Please note that this update feature is applicable only for packages (apps) and is not applicable for SMHUB-OS.
SMHUB-OS OTA is planned to be released in the coming weeks.

Note 2

If you cannot flash the device and the `flash.bat` window disappears, follow the steps below to get more information about why the process stops. This can help in troubleshooting:

1. Check drivers

Make sure the required drivers are installed (see the manual above).

2. Open Command Prompt as Administrator

- Click the **Windows button**, type **CMD**.
- Right-click **Command Prompt** and select **Run as Administrator**.

3. Navigate to the flash.bat folder

Type the following command:

```
cd full_path_to_the_file_flash.bat
```

Replace `full_path_to_the_file_flash.bat` with the actual folder path where `flash.bat` is located.

Example:

```
cd C:\Users\zigbee\Downloads\smhub_v0.1.3
```

4. Run the flashing script

Type:

```
flash.bat
```

and press **Enter**.

5. Check the error message

Review the output in the Command Prompt window to identify the error.

Revision #62

Created 8 September 2025 17:05:28 by Support3

Updated 28 February 2026 21:48:54 by Support3