Start-Up of the M2Smart® HMI Access Point

Version: 1.00

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1 M2Smart® HMI Access Point

The M2Smart® HMI Access Point is used to transmit non-safety-related data, such as visualization and operator data from the wireless M2Smart® HMI system. This is done optionally via 2.4 GHz or 5 GHz; Bluetooth can also be activated and used in combination. For special applications, only Bluetooth can be activated.

1.1 Configuration of the M2Smart® HMI Access Point

ACD Elektronik supplies the M2Smart® HMI Access Point in DHCP mode as standard, so the M2Smart® HMI Access Point obtains its own IP address from the DHCP server. To find and configure the M2Smart® HMI Access Point in the network, a corresponding tool from HMS must be used.
The “HMS IPconfig” tool can be downloaded from the homepage of the manufacturer HMS.

https://www.hms-networks.com/de/p/awb2030-b-anybus-wireless-bolt-ethernet-rj45-poe-black-version?tab=tab-support

The device on which the software is installed and the M2Smart® HMI Access Point must be connected to the same network.

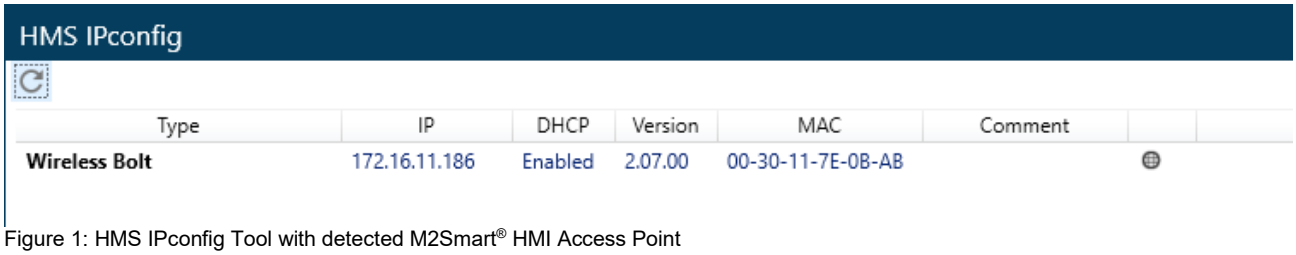

Figure 1: HMS IPconfig Tool with detected M2Smart® HMI Access Point

If an M2Smart® HMI Access Point has been detected, important information is displayed accordingly. Furthermore, a web browser can be opened directly via the globe icon, which allows the M2Smart® HMI Access Point to be configured.

1.2 Example for 2.4 GHz WiFi

The following figure shows the WiFi settings in the 2.4 GHz band.

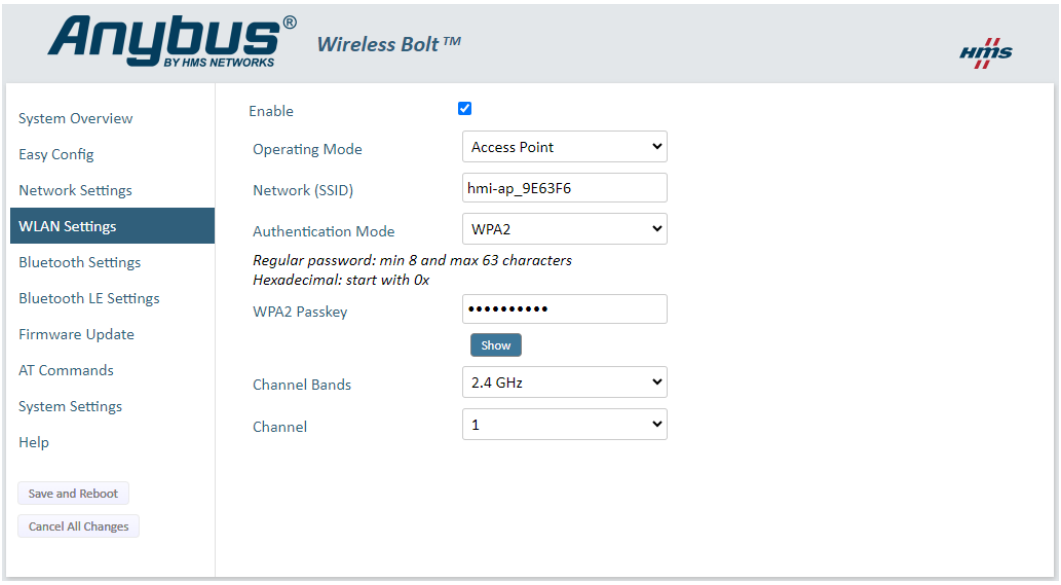

Figure 2: WiFi settings in the 2.4 GHz band

1.3 Example for 5 GHz WiFi

The following figure shows the WiFi settings in the 5 GHz band.

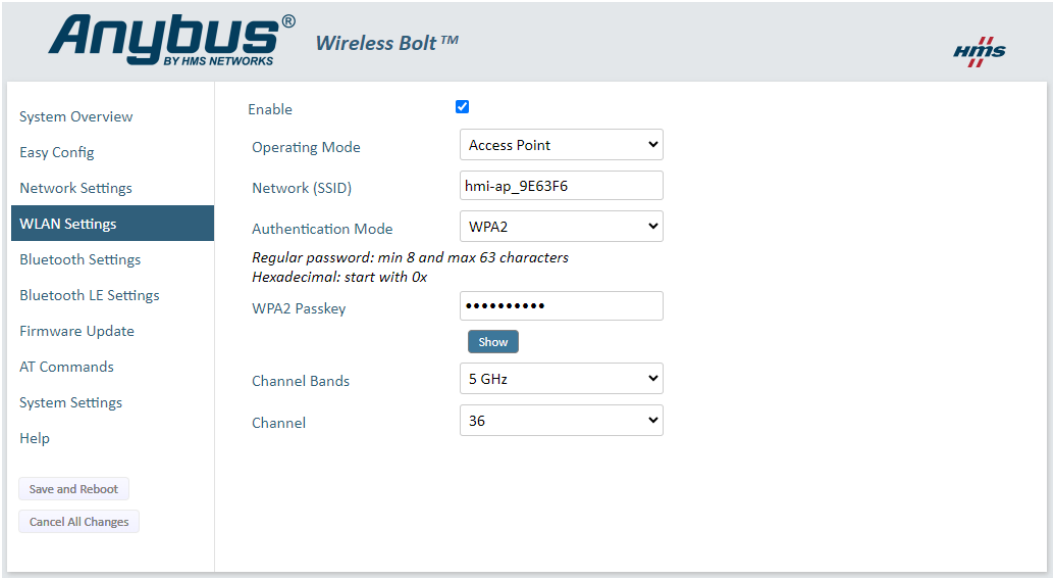

Figure 3: WiFi settings in the 5 GHz band

1.4 Example for Bluetooth

The following figure shows the Bluetooth settings.

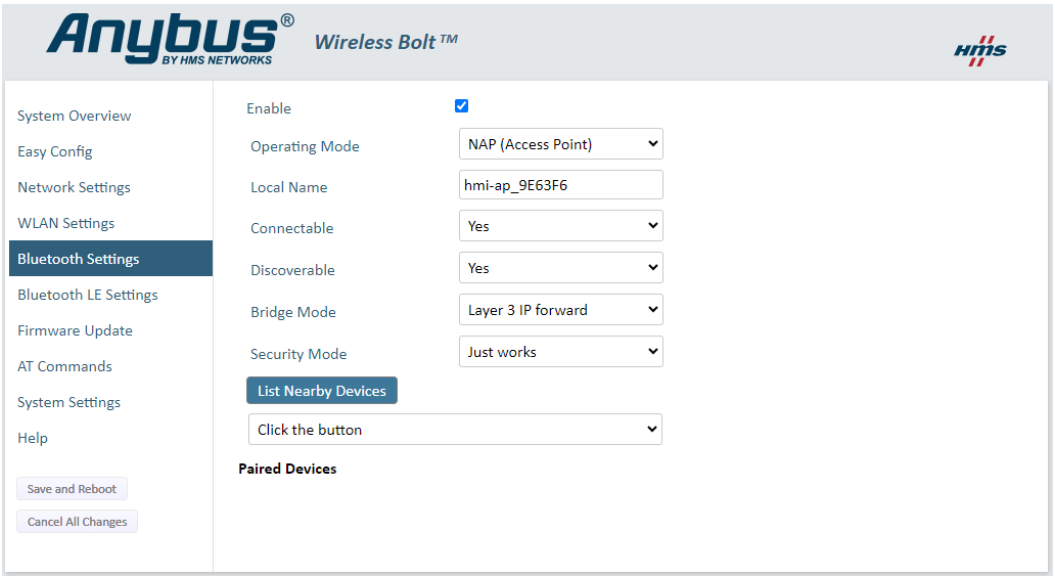

Figure 4: Bluetooth settings

2 M2Smart® Gateway and M2Smart® HMI Access Point as a set

A set consisting of M2Smart® Gateway i or M2Smart® Gateway o and M2Smart® HMI Access Point enables simultaneous pairing of the M2Smart® Gateway i or M2Smart® Gateway o and the M2Smart® HMI Access Point via the NFC tag with an M2Smart® HMI10 radio or M2Smart® HMI5 radio.

2.1 Prerequisites and requirements

To enable simultaneous pairing, a number of requirements must be met.

2.1.1 M2Smart® Gateway

In principle, simultaneous pairing can be realized with any M2Smart® Gateway, but the data of the M2Smart® Gateway must be known and used to configure the M2Smart® HMI Access Point.
The following data is required:

- The MAC address of the M2Smart® Gateway (e.g. **CC-F9-57-9E-63-F6**)
- Bluetooth pin for the connection between the M2Smart® Gateway and the M2Not-Halt (e.g. **2925**)

All information can also be found on the NFC tag of the M2Smart® Gateway.

2.1.2 M2Smart® HMI Access Point

The configurations of the M2Smart® HMI Access Point are based on the data of the M2Smart® Gateway and must be implemented as follows.

2.1.2.1 WiFi network (SSID)

The network name (SSID) must be structured as shown here in the example.

- hmi-ap_**9E63F6**

The numbers or letters are to be taken from the last six digits of the M2Smart® Gateway MAC address.

2.1.2.2 WiFi password (key)

The password for the SSID must be structured as shown here in the example.

- **29259E63F6**

The first four numbers are the Bluetooth pin of the M2Smart® Gateway. The last six numbers or letters are to be taken from the M2Smart® Gateway MAC address (see chapter 2.1.2.1).

2.1.2.3 Bluetooth name

The local name of the Bluetooth must be structured as shown here in the example.

- hmi-ap_**9E63F6**

The numbers or letters are to be taken from the last six digits of the M2Smart® Gateway MAC address.

2.1.3 M2Smart® HMI10

The simultaneous pairing of an M2Smart® Gateway and an M2Smart® HMI Access Point on the M2Smart® HMI10 is generally deactivated. To activate simultaneous pairing, the HMIService.json file must be adapted. This is located under the following path.

- \sdcard\ACD\HMIService\HMIService.json

It contains several parameters that can be adjusted. The parameter “ConnectUnsafe: 0” must be adjusted for simultaneous connection.

- 0 = Default, normal pairing with M2Smart® Gateway
- 1 = Additional connection with WiFi
- 2 = Additional connection with Bluetooth

3 Support

If you need further assistance, please contact our support hotline:

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