

TECHNICAL DOCUMENT

# ABB Ability™ Smart Sensor Gateway

## Installation with Huawei E8372



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## 1.1 WIFI Modem installation

Mobile network can be used with a e.g. USB WIFI modem like Huawei E8372. Additional PoE injector (power supply), USB WIFI modem and a SIM card are needed.

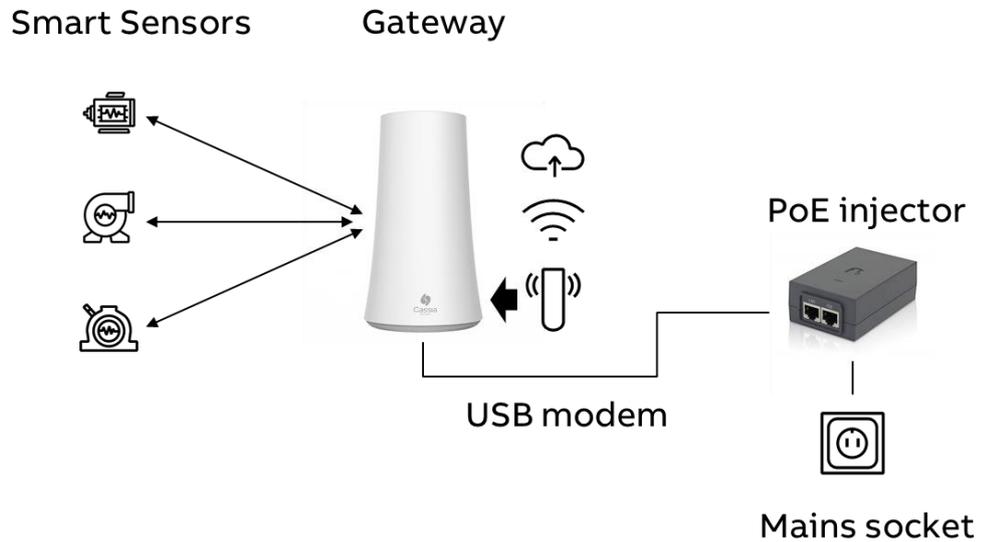


Figure 1 USB WIFI Modem Network Configuration

Insert the SIM card to USB WIFI modem and insert the modem to USB port at the bottom of the gateway

- SIM card PIN request needs to be disabled
- Note the default WIFI SSID and password inside the modem

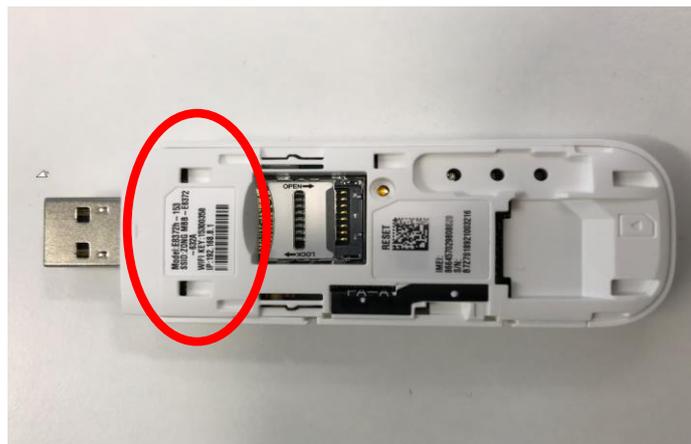


Figure 2 Modem default WIFI SSID and password location

Power up the gateway.

With computer connect to modem WIFI network.

Open web browser and go to address <http://192.168.8.1>

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Modem will ask to select the language.

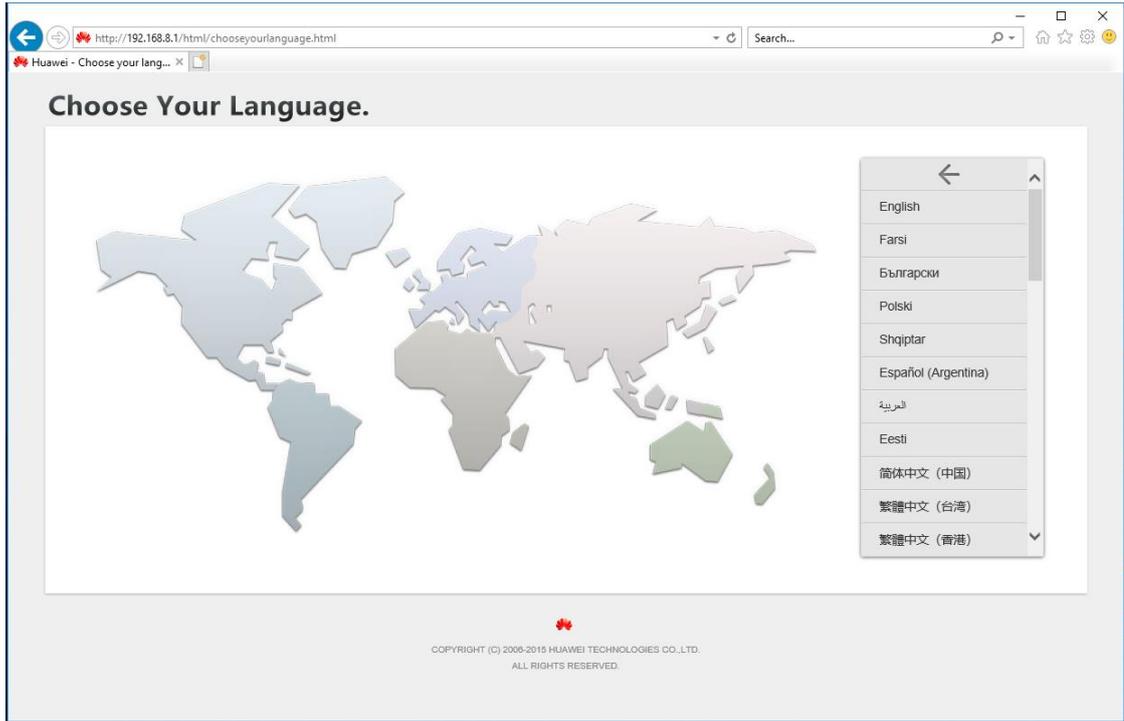


Figure 3 Language selection for E8372

Modem will ask to give credentials. Should be admin/admin but please check from modem documentation

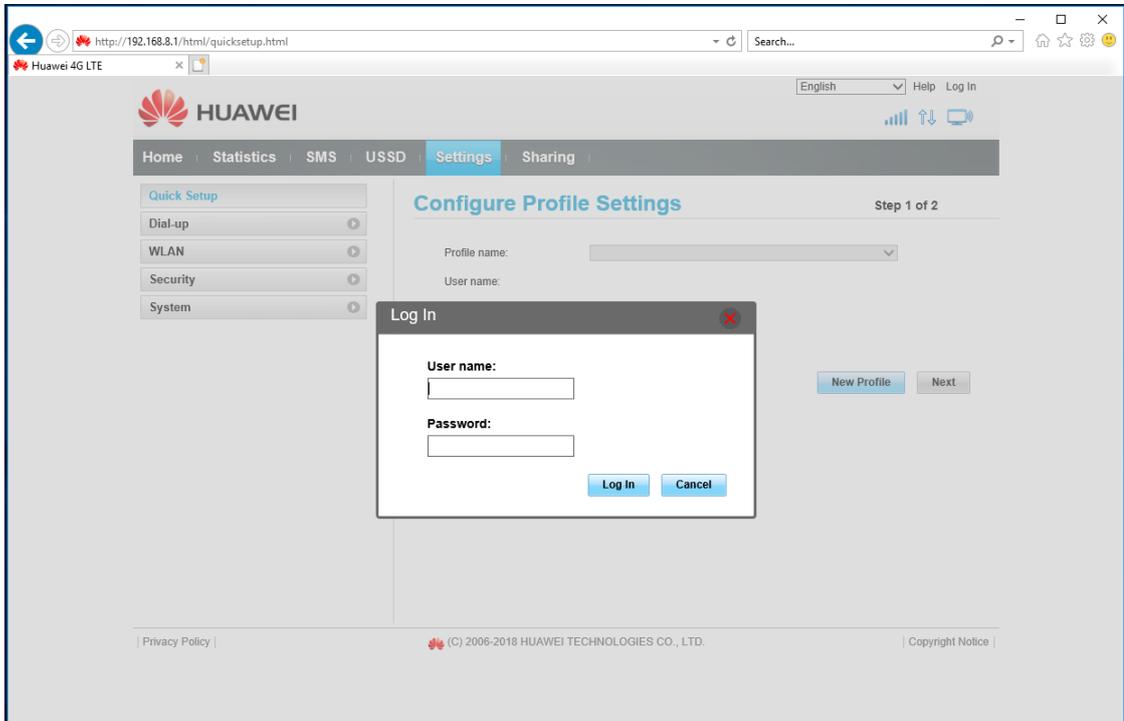


Figure 4 Credentials query

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Go to WLAN Basic Settings and change the SSID and password if needed.

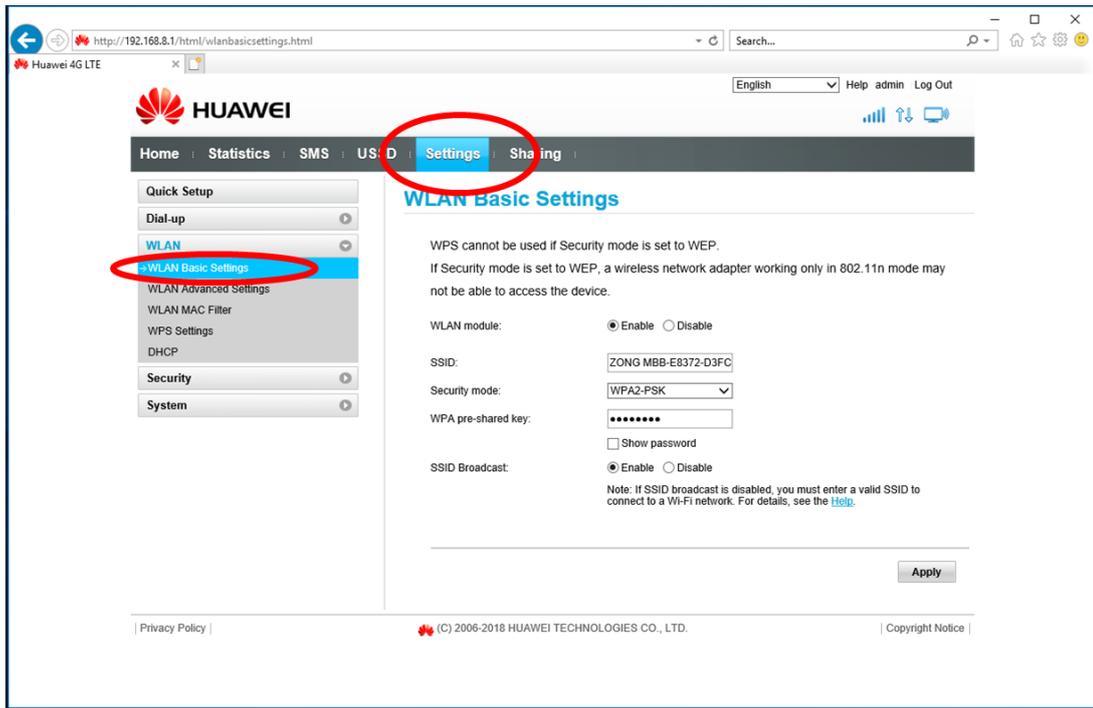


Figure 5 Change WIFI network name and password

Next connect to gateway configuration hotspot cassia-XXXXXX.

Go to Basic tab:

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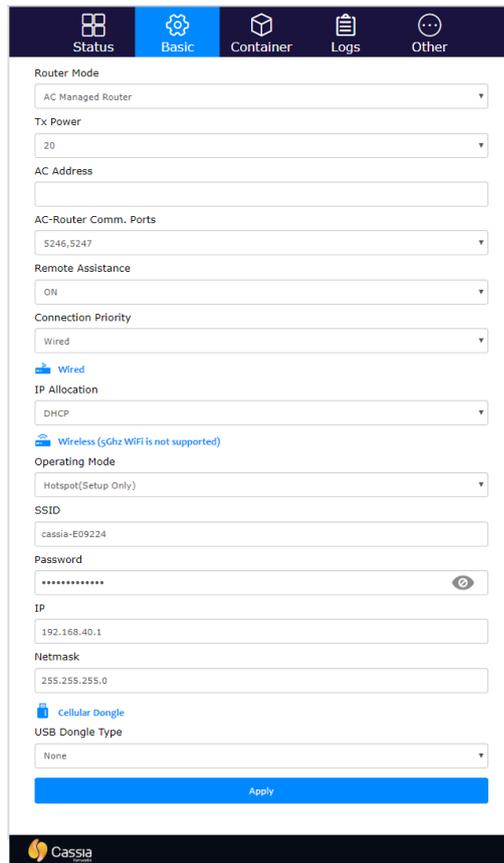


Figure 6 Gateway configuration

Make following configuration:

- AC Address: abb.cassia.pro
- Connection Priority: Wireless
- Change the Wireless operation mode from Hotspot to Client
- Enter the SSID (name) of the USB WIFI modem network
- Enter the USB WIFI modem network password
- IP Allocation: DHCP

Press Apply at the bottom of the screen.

Reboot the gateway by removing the power supply and put it back in again.

Wait 30-60 seconds for gateway to boot up.

Connect again to USB WIFI Modem network and go to web page <http://192.168.8.1>

Go to Statistics tab and find out the new IP address of corresponding gateway MAC address:

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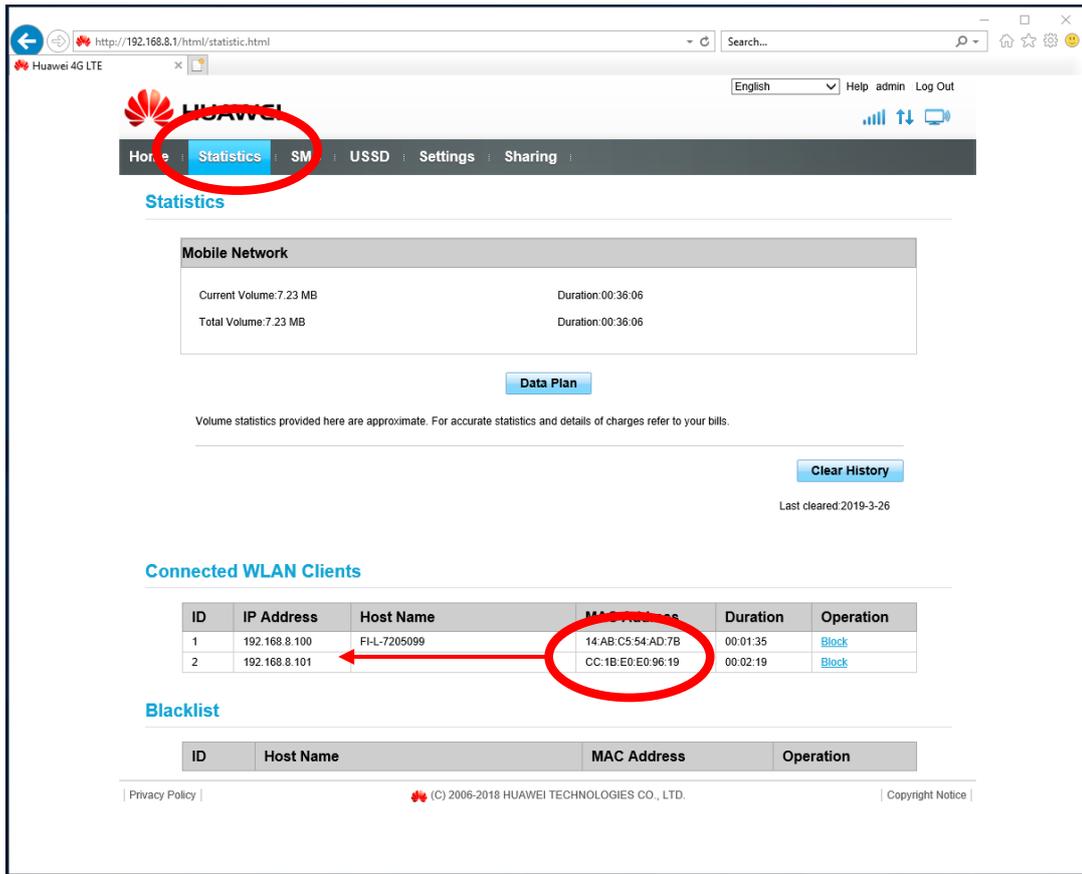


Figure 7 Finding the new gateway IP address

Type this IP address to web browser address field to get back to gateway configuration page.  
 On Status tab you can see if the gateway goes online.

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| <span>Status</span> <span>Basic</span> <span>Container</span> <span>Logs</span> <span>Other</span> |                   |
|--|-------------------|
| Model  | X1000             |
| MAC  | CC:1B:E0:E0:96:18 |
| Working Mode   | AC Managed        |
| ETH IP   |                   |
| WLAN IP  | 192.168.8.101     |
| Cellular IP  |                   |
| Country/Region   | FINLAND           |
| Firmware Version   | 1.3.0.1807030130  |
| Up Time  | 1min 1sec         |
| AC Online Time   | 17sec             |
| CPU Usage  | 31.09%            |
| Memory Usage   | 49.49%            |

Figure 8 Check the gateway online status

If there is a time shown in “AC Online Time” field then the gateway has connection to server.

If there is no time shown please try to refresh the screen. After bootup it might take minute or two to make the connection with the server.

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