



Settings for autonomous Hub

Vacant houses

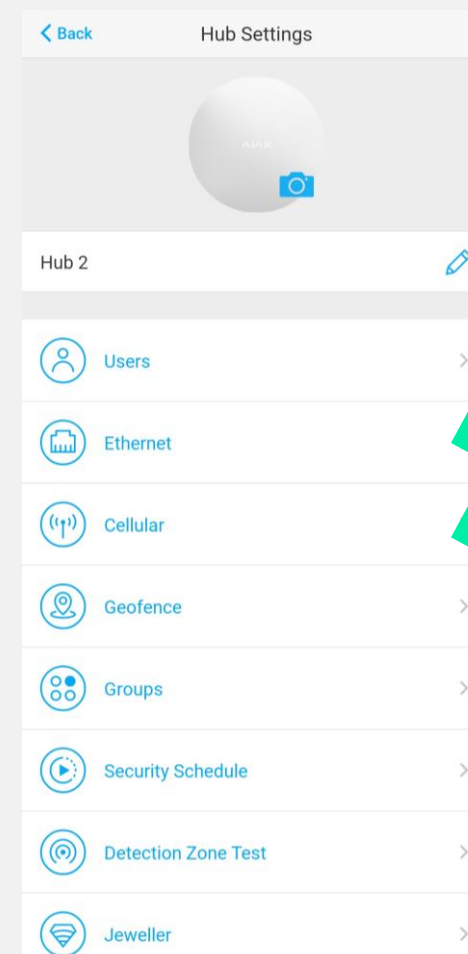
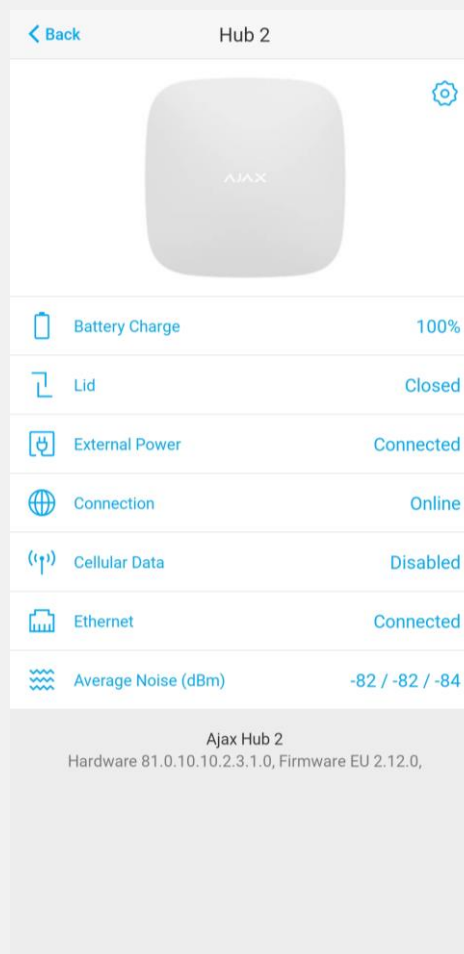
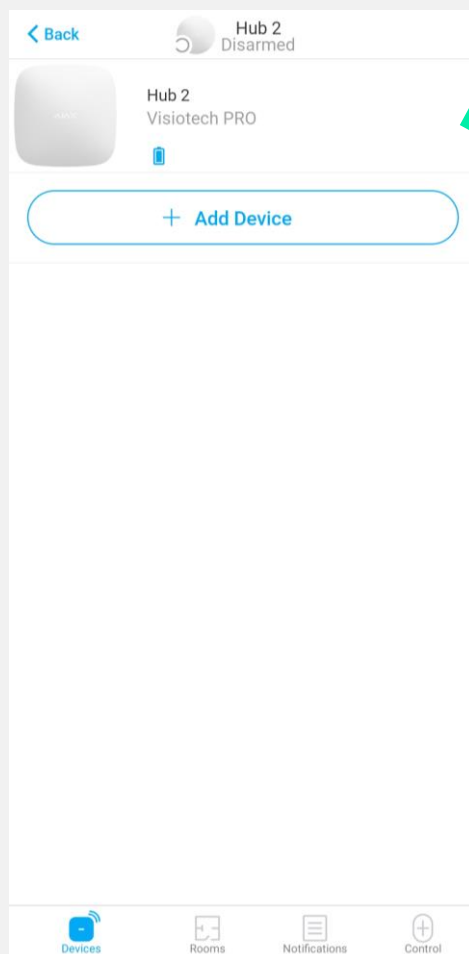




Settings for Hub – Ajax Cloud



Settings for Hub – Ajax Cloud





Settings for Hub – Ajax Cloud



SIM communication

< Back Cellular

MODEM SETTINGS

Cellular Data ☐

Activate

< Back Cellular

MODEM SETTINGS

Cellular Data ☒

Roaming ☒

Ignore Network Registration Error ☒

Disable communication check with the operator ☒

SIM CARDS

SIM 1 Unknown Number

SIM 2 Unknown Number

Activate

< Back SIM 1 Settings

APN m2m.movistar.es

Username username

Password password

Mobile data usage

Incoming 0.00 KB

Outgoing 0.00 KB

Reset Statistics

Check Balance

USSD code *111#

Check Balance

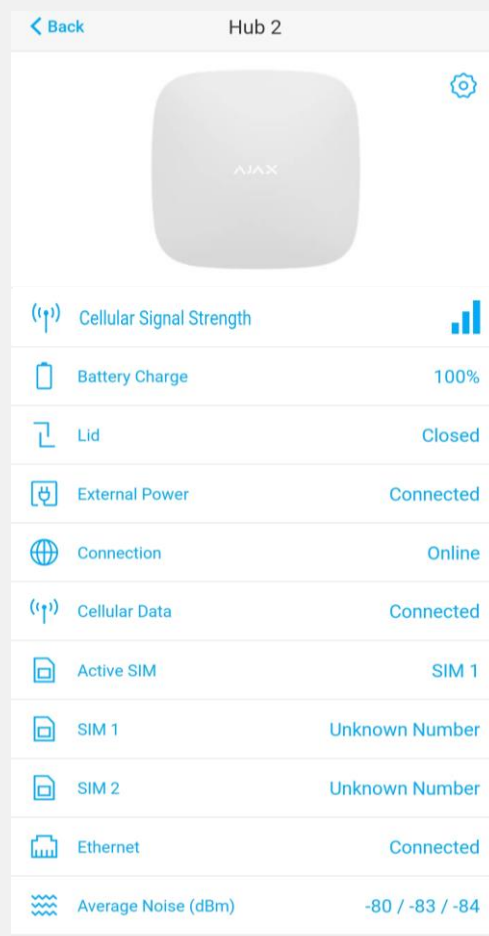
Wuarda
Configure APN
















Communication Settings



SIM Communication



< Back	Hub 2
	
 Cellular Signal Strength	
 Battery Charge	100%
 Lid	Closed
 External Power	Connected
 Connection	Online
 Cellular Data	Connected
 Active SIM	SIM 1
 SIM 1	Unknown Number
 SIM 2	Unknown Number
 Ethernet	Connected
 Average Noise (dBm)	-80 / -83 / -84


← Verify network coverage

← Verify connection



SIM Communication

Further considerations

- Insert SIM in slot 1 before accessing the settings
- Do not deactivate Ethernet connection before verifying mobile network connection
- APN Cards  iot.telefonica.de

If SIM-card does not come from Visiotech:

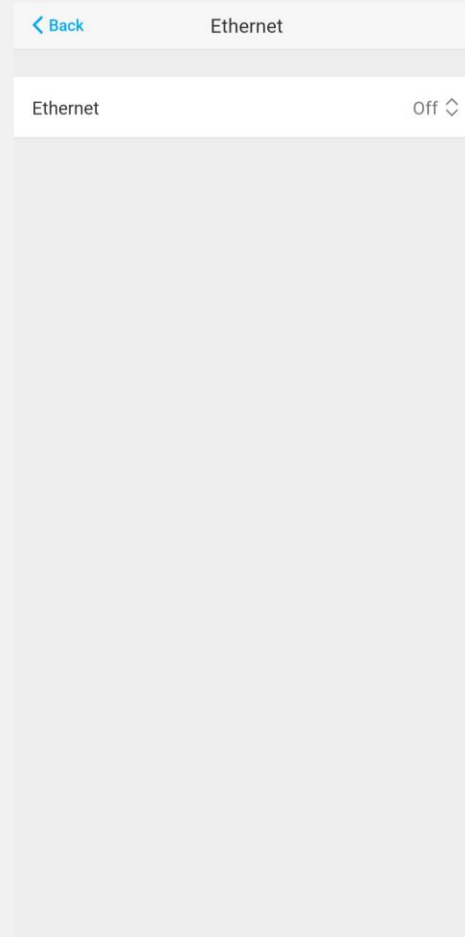
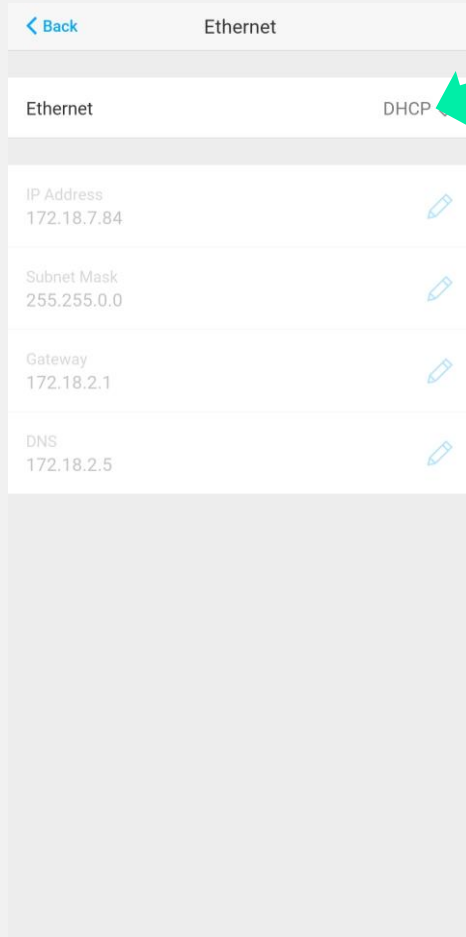
- Set the correct APN from the provider
- Introduce the username and password if necessary
- Deactivate PIN-code



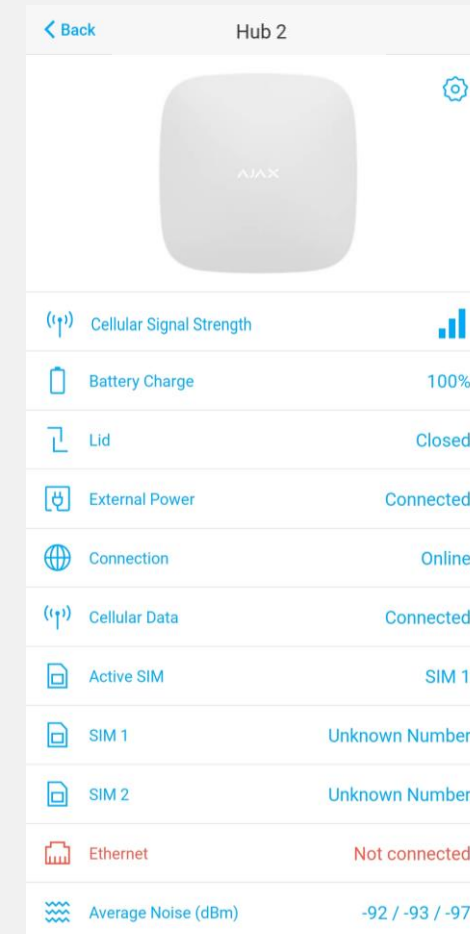
Hub Communication – Ajax Cloud



Ethernet Communication



Deactivate
Ethernet
Connection



Verify non-connection





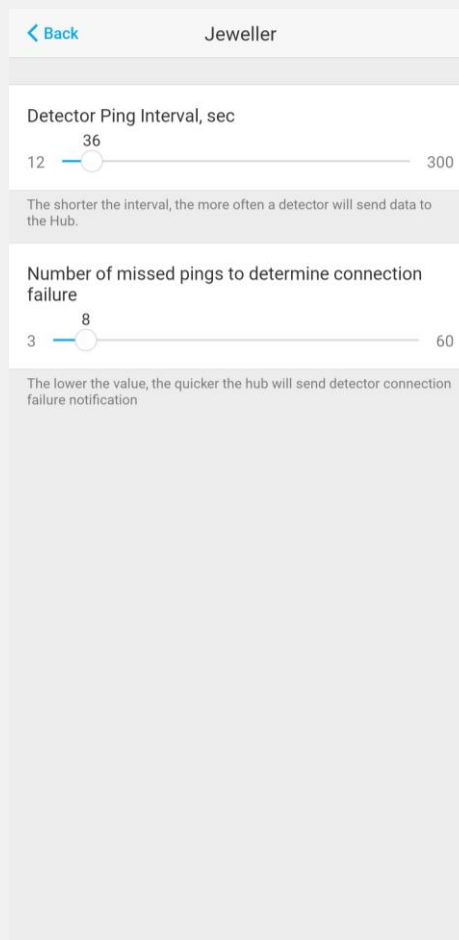
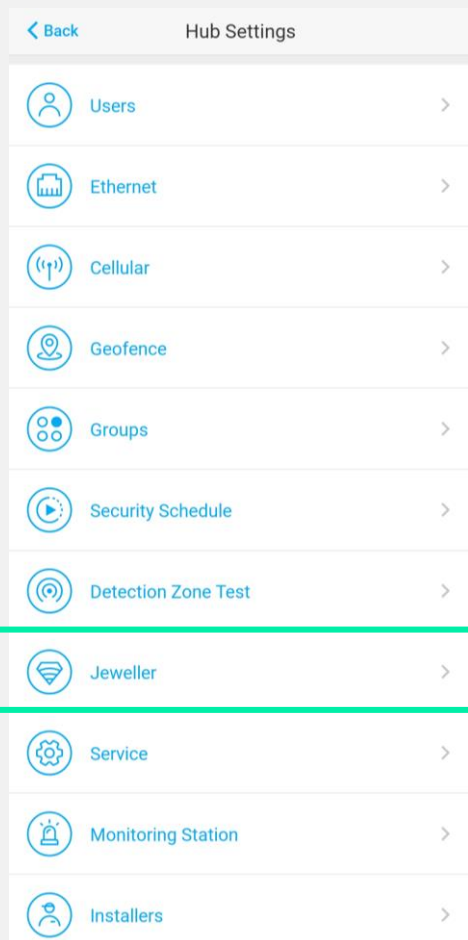
Hub supervision - Devices



Hub supervision - Devices



Connection of devices



Ping 36 seconds
8 missed pings

Detecting lost supervision of device
in 36x8:

Less than 5 minutes



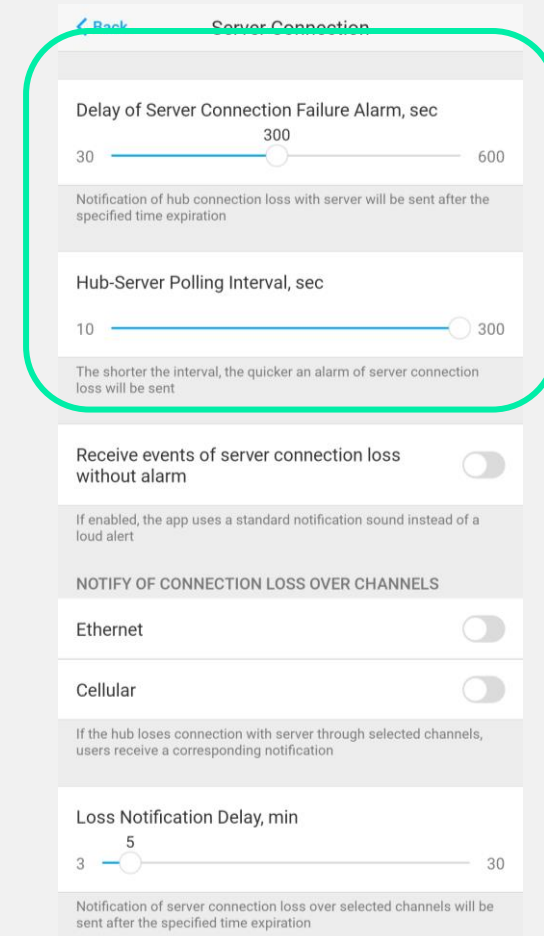
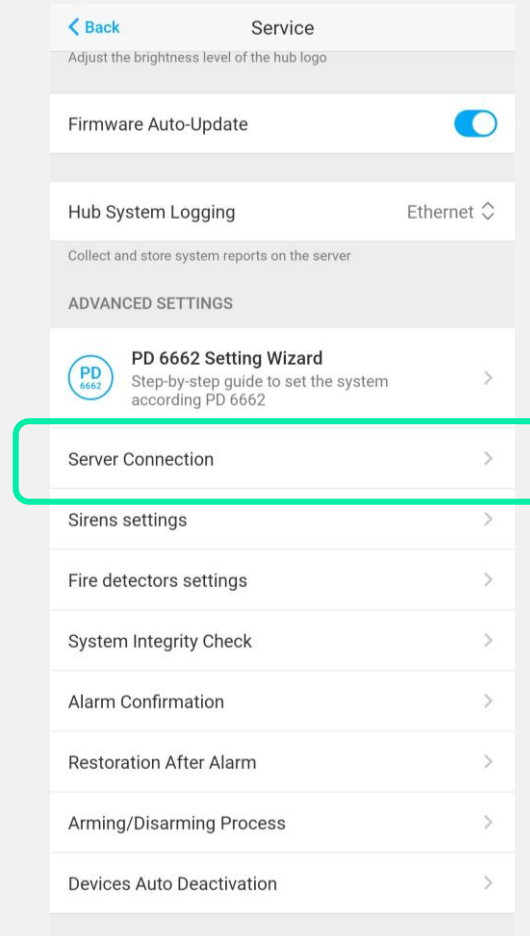
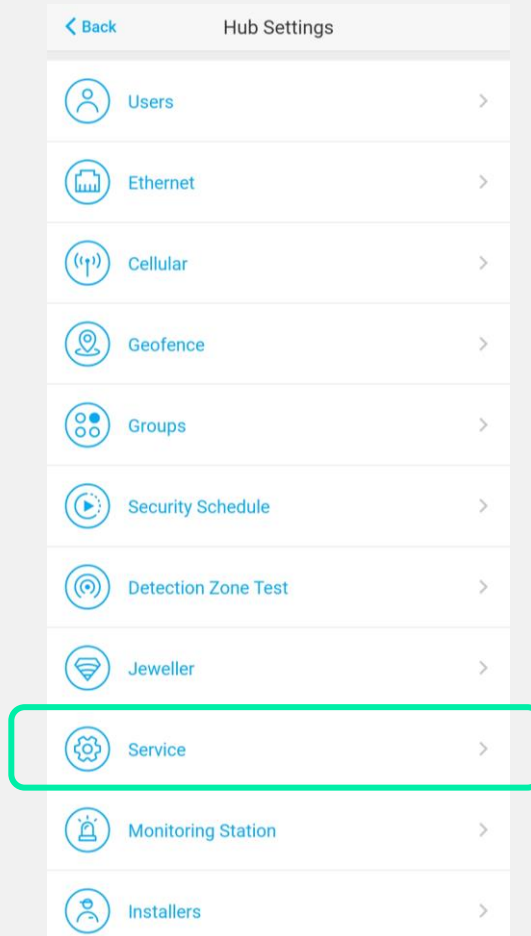
Hub supervision– Ajax Cloud



Hub supervision – Ajax Cloud



Server connection





Hub supervision – Ajax Cloud



Server connection

< Back Server Connection

Delay of Server Connection Failure Alarm, sec

30 300 600

Notification of hub connection loss with server will be sent after the specified time expiration

Hub-Server Polling Interval, sec

10 300

The shorter the interval, the quicker an alarm of server connection loss will be sent

Receive events of server connection loss without alarm ☐

If enabled, the app uses a standard notification sound instead of a loud alert

NOTIFY OF CONNECTION LOSS OVER CHANNELS

Ethernet ☐

Cellular ☐

If the hub loses connection with server through selected channels, users receive a corresponding notification

Loss Notification Delay, min

3 5 30

Notification of server connection loss over selected channels will be sent after the specified time expiration

Delay for notice: 300 s
Ping 300

$(\text{Ping Interval} \times 3) + \text{delay}$

Detection of lost connection
between Hub and Ajax Cloud in

20 minutes





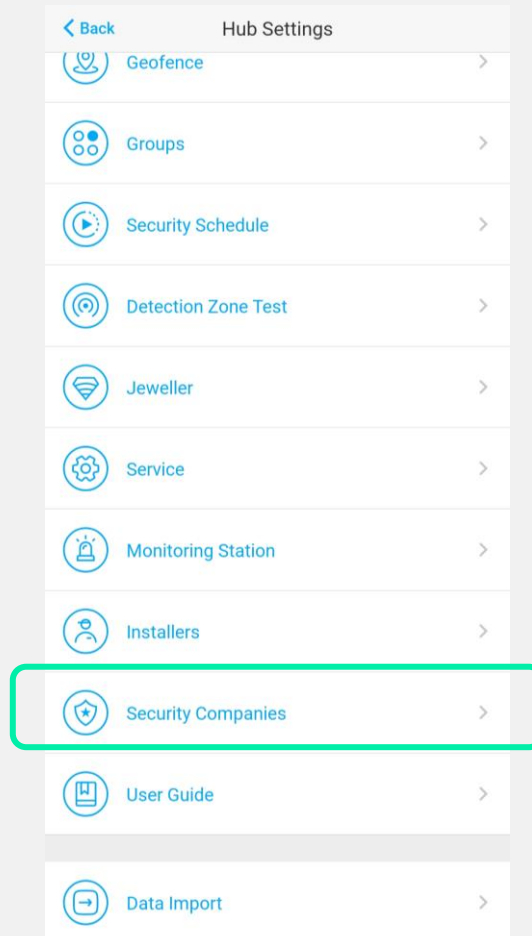
Connection with ARC



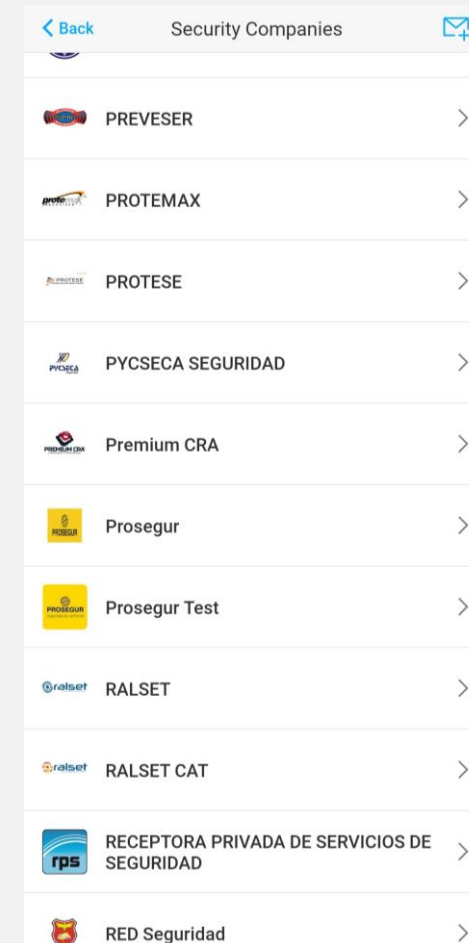
Connection with ARC



Cloud connection



Select ARC from the App to
connect through cloud

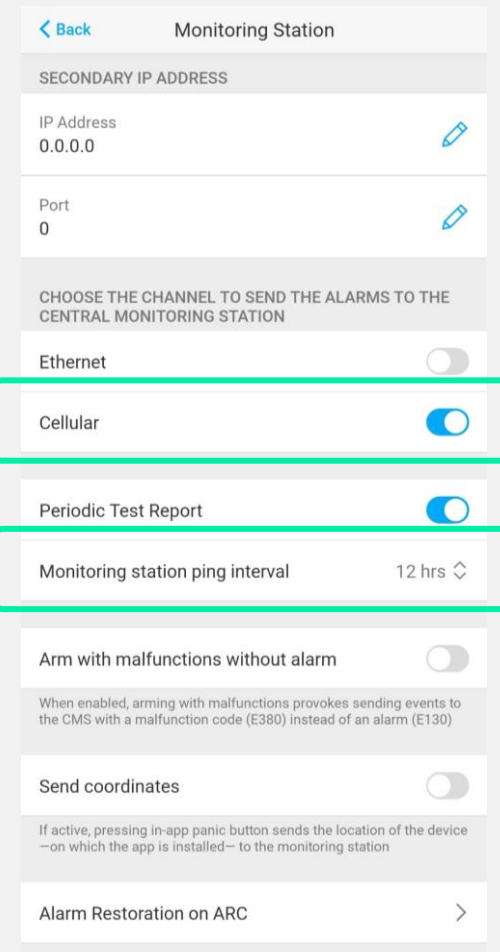
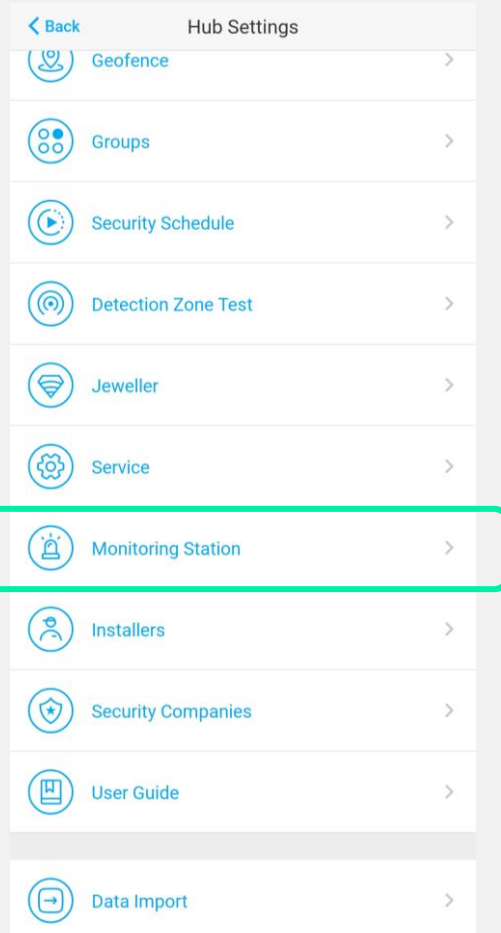




Connection with ARC



Direct Connection



Activate only SIM

Test period 12h
(Code E602)

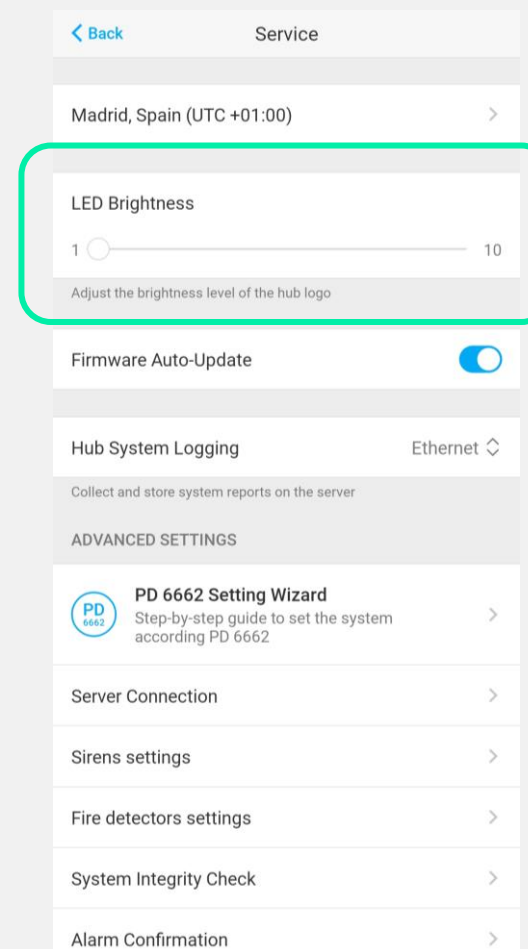
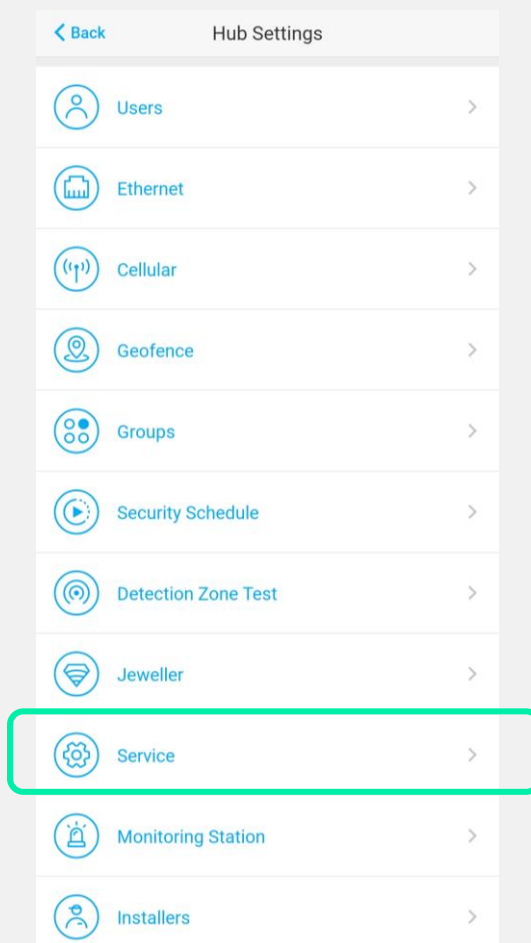




Hub LED light



Hub LED light





Connection with long-lasting battery

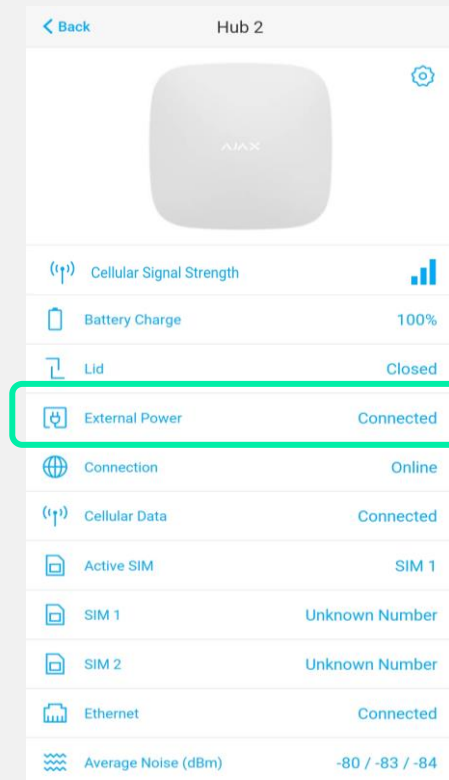


Connection with long-lasting battery



Step-by-step

- Take off the sticker of the Surface of the battery a couple of minutes before connection
- Link the battery terminals to the connector
- Connect directly to HUB
- Verify power supply (multimeter and app)





Recommendations and advices



Recommendations and advices



To achieve the estimated duration, it is necessary to follow this guide step-by-step.

Moreover, the following problems can severely affect the battery life:

- Bad network coverage. Constant instability and lost connection.
- Bad coverage of the devices with the Hub (0-1 bar of signal intensity)
- Battery connection to Hub with backup battery discharged

