SATEVIS | BEANAIR® SENSORS BRAND

α·INC

TRI AXIS INCLINOMETER SENSOR

QuickStart SatevisLink® software

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WWW.SATEVIS-SYSTEMS.COM

Contents

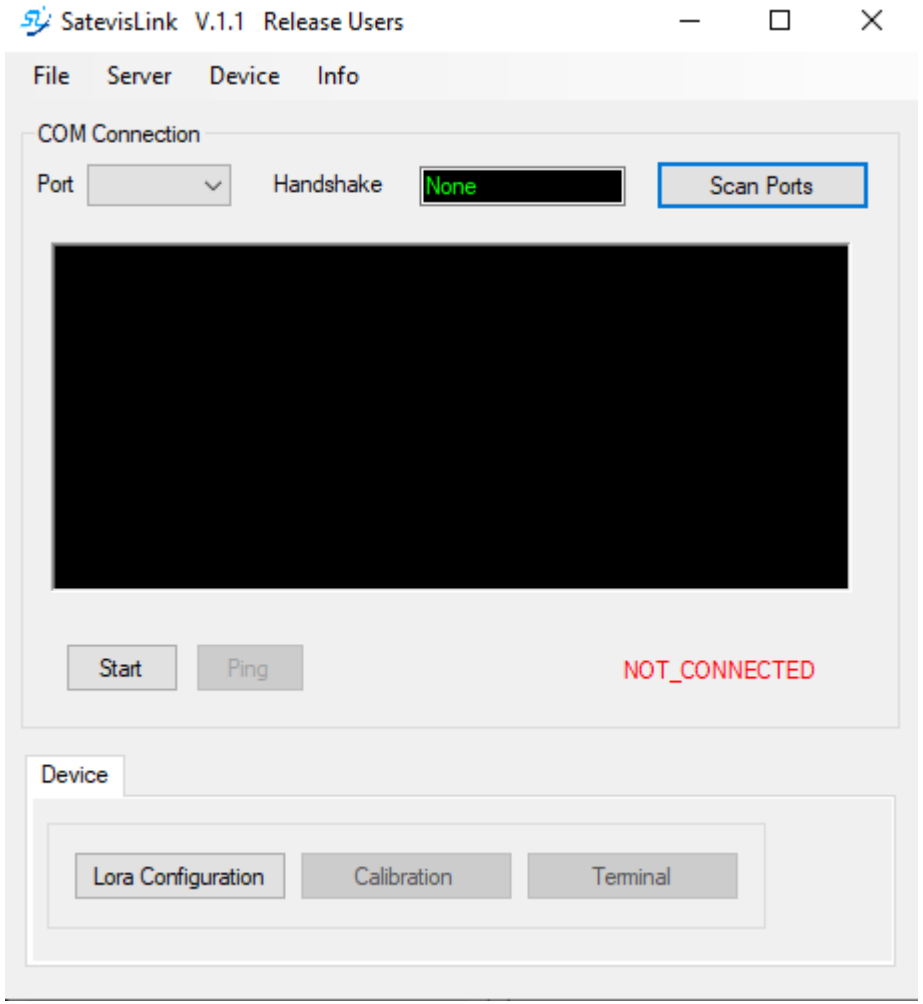
Step 1: Collect your Gateway EUID
Step 2 : Register your Gateway on your Cloud software (examples with TTN/TTI)
Step 3: Configure your Gateway

The same gateway registration applies to The Things Industries (TTI) and The Things Network (TTN) cloud application .

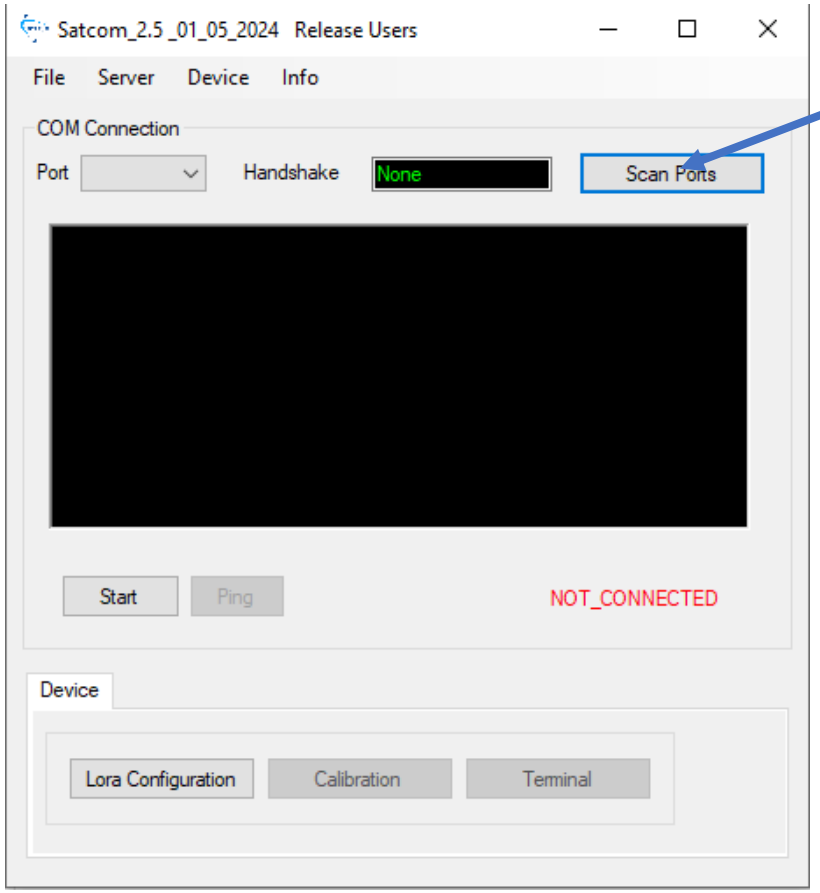
SatevisLink® Presentation

Satevis® Link software allows you to :

- Configure your Lorawan® settings.
- Check your calibration settings



Start your SatevisLink® software



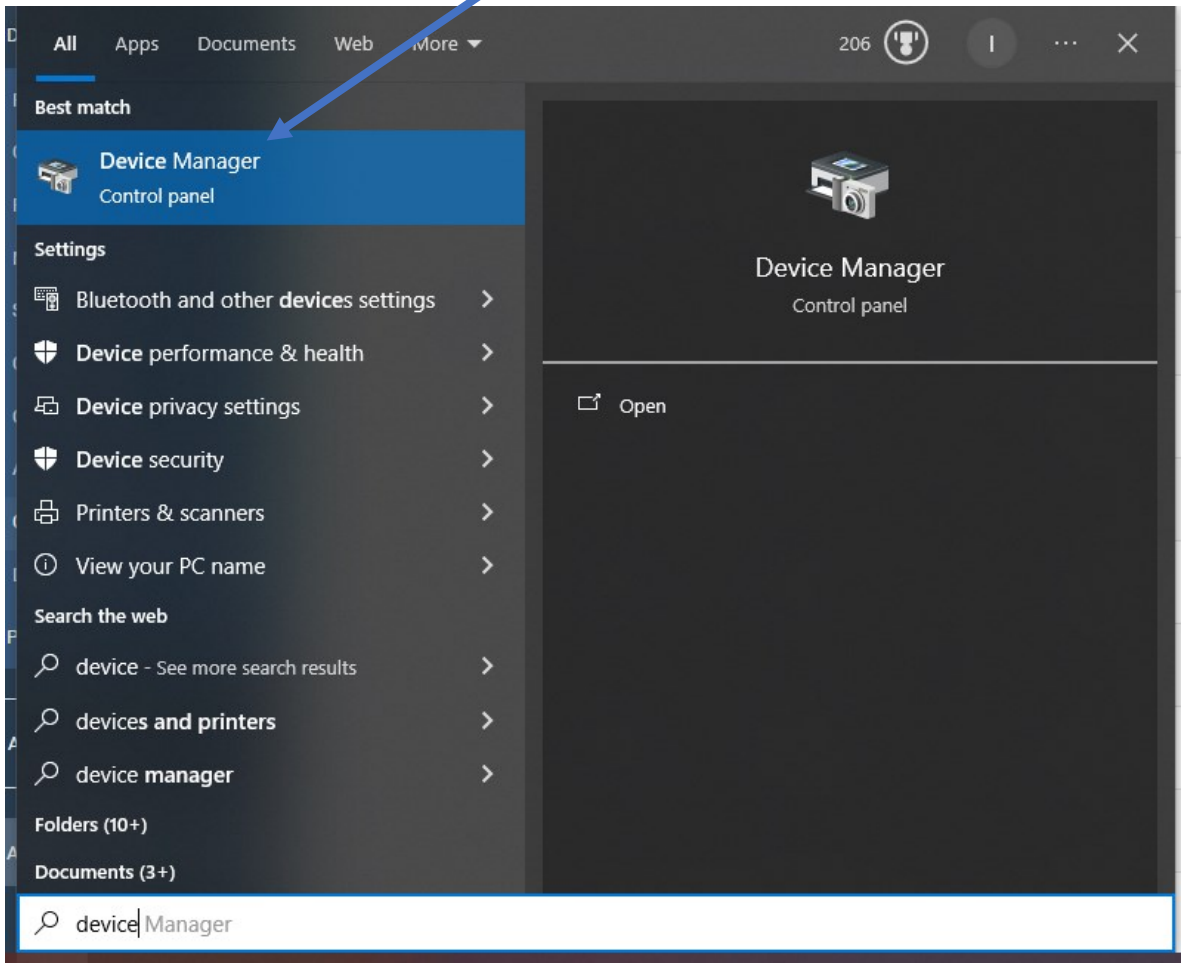
Click on Scan Ports to search the COM PORT allocated to your Satevis® device

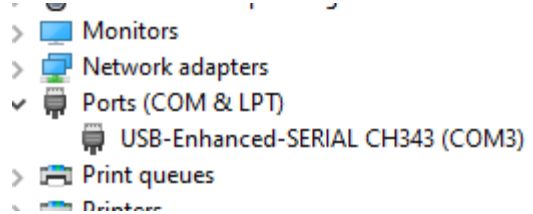
If the COM Port Scan fails:

1. Check the USB Power LED on your Satevis® device, it should be green.
2. If your device is connected to the same USB Hub than other device, disconnect all other devices and restart your HUB;
3. If STCubeProgrammer is running at the same time, please close the program,
4. You can check if your USB drivers are correctly installed by windows, you can check this on next slide;
4. Try to disconnect then reconnect again

Start your SatevisLink® software

Click on device manager, and check with communication port number is used by your Satevis® device



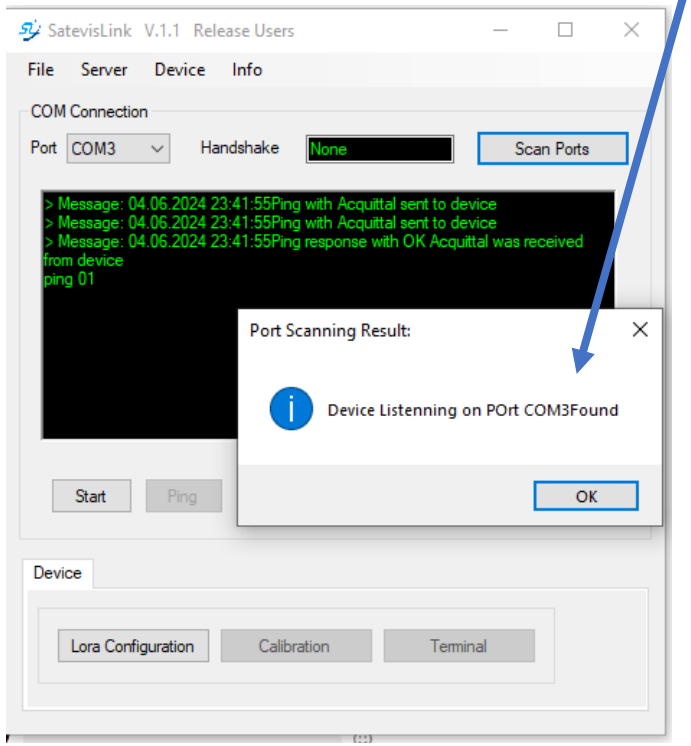


In this example, it's the Communication port COM3. CH343 drivers are correctly installed

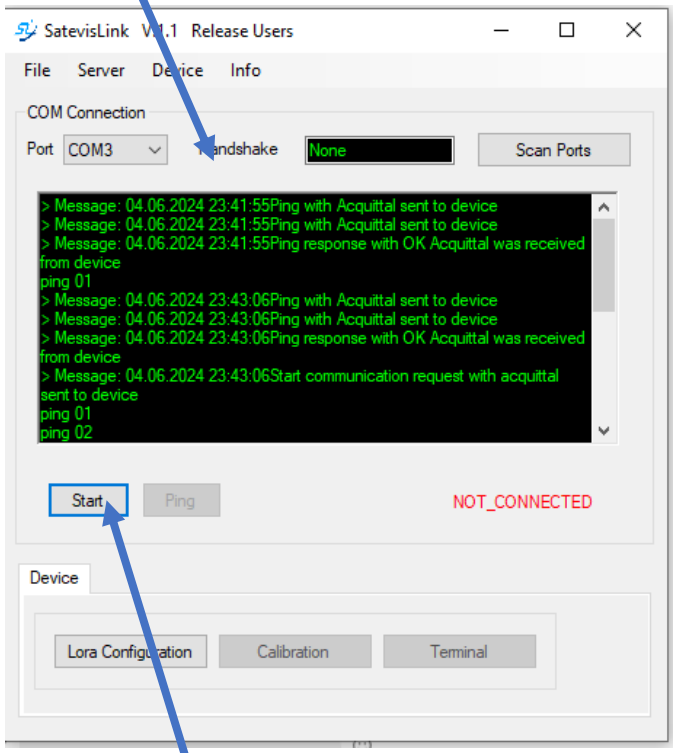
If the driver is not correctly installed, please download it from the same FTP than Satevis® Link.

Start your SatevisLink® software

PORT scanning results will show Port COM3 in this case

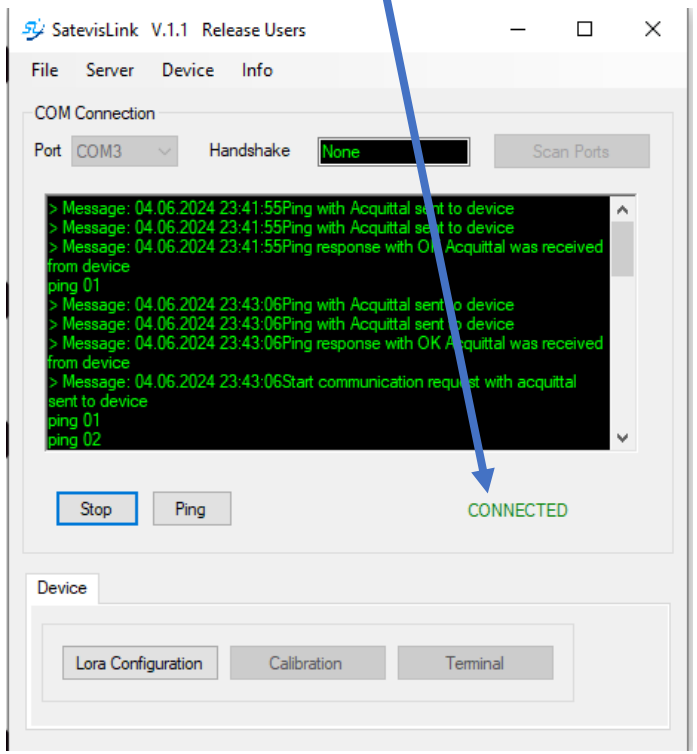


Select COM Port

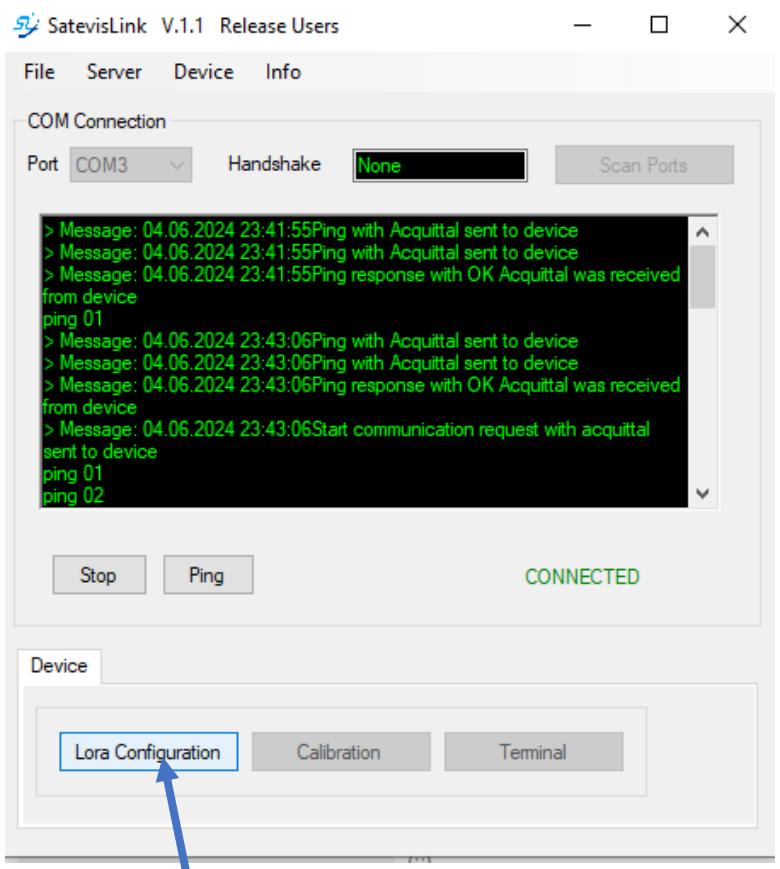


Launch your Satevis® Link software by clicking on start

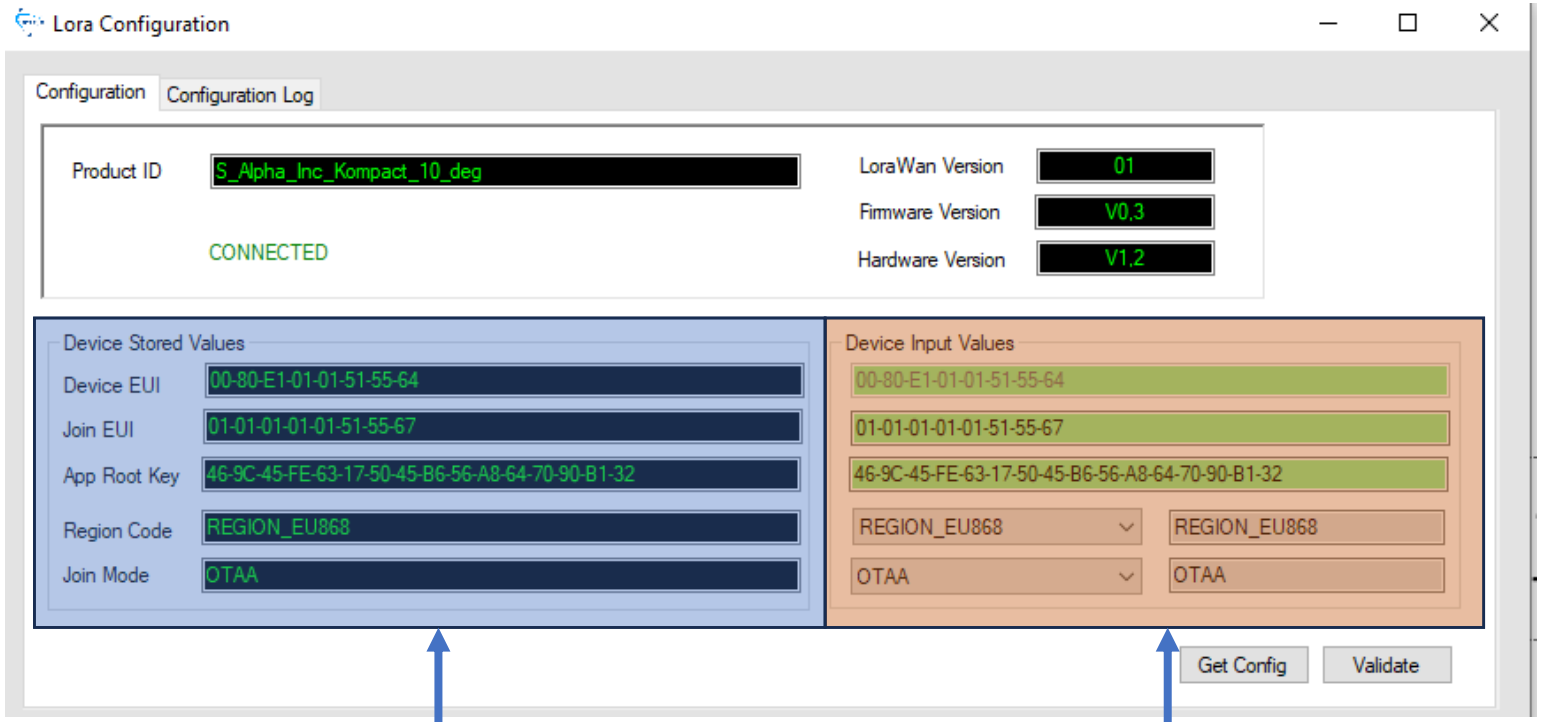
Your SatevisLink software displays connected confirming to connection to your satevis® device



LoraWan® Configuration



Click on Lora Configuration to get device connection ID's



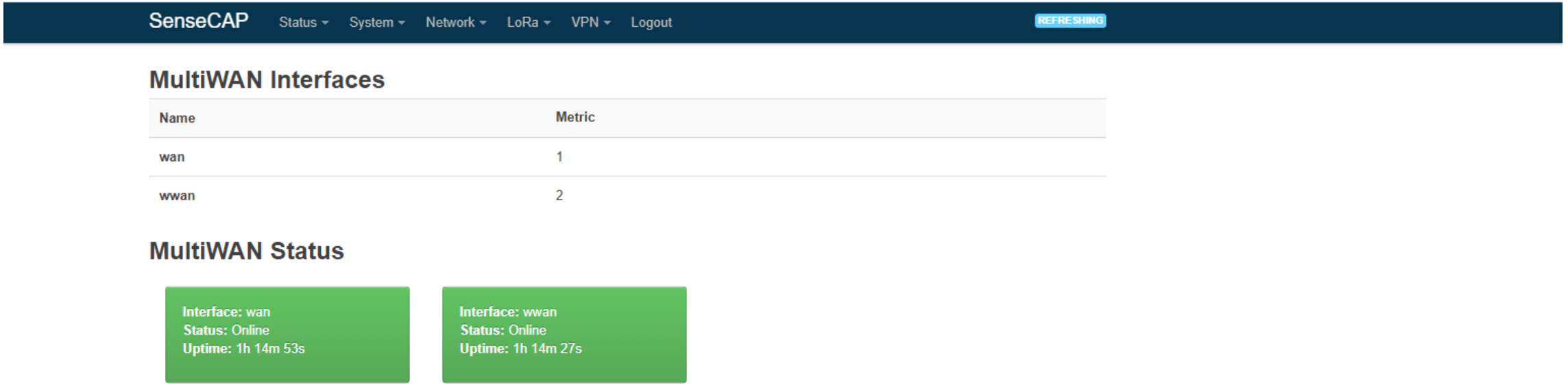
Stored values on Satevis® device

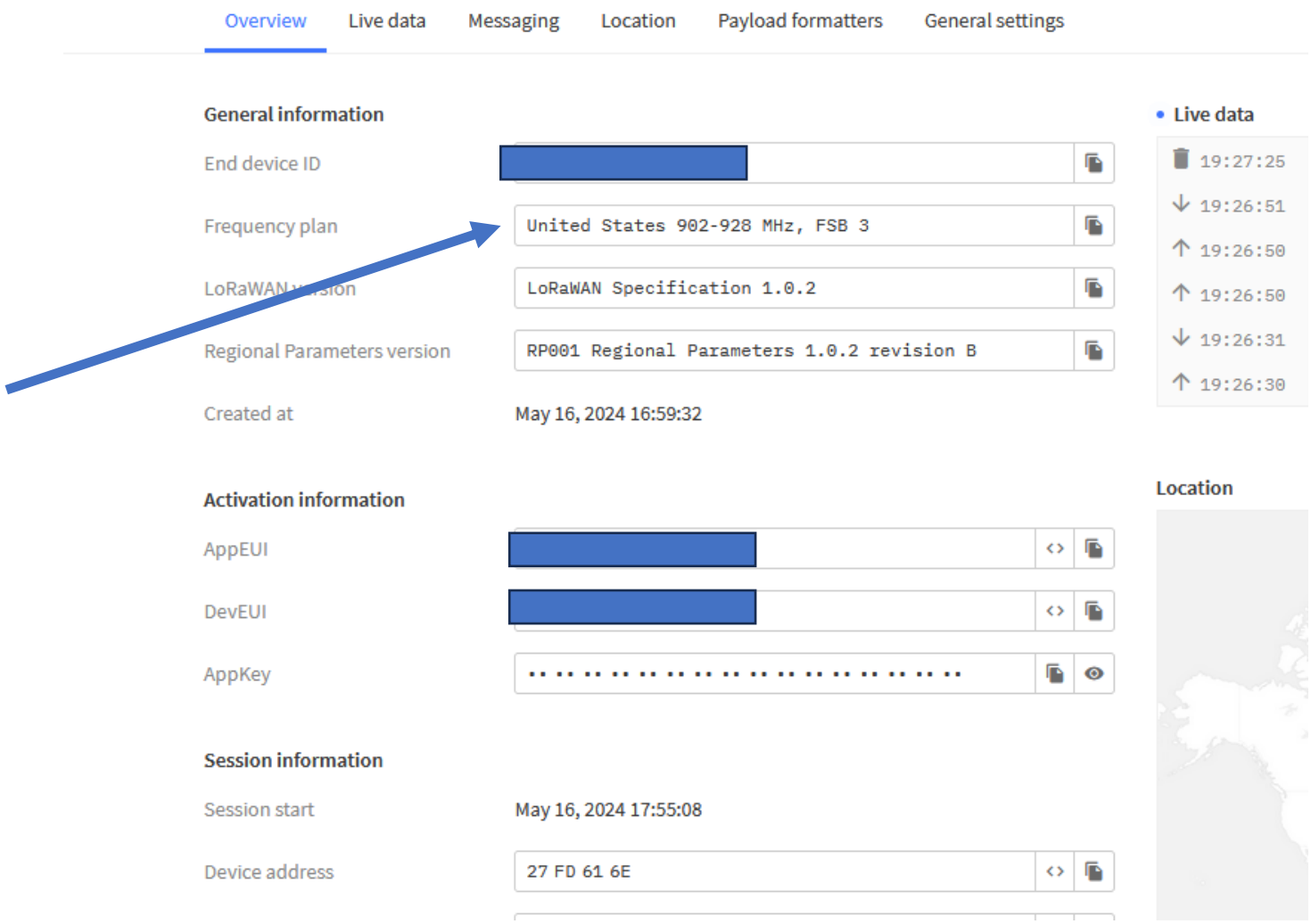
Configuration field

LoraWan® Configuration

Settings	Description
Device EUI	Device EUI (Extended Unique Identifier) is a 64-bit unique identifier. This can not be changed as it contains the manufacturer ID registered at IEEE
Join EUI (formely App EUI)	64 bit application identifier, EUI-64 (unique). Please note AppEUI was renamed to JoinEUI in LoRaWAN™ Specification v1.1, but some LNS still use this old name, but some LNS still use the old name.
App Root Key (or AppKey)	Encryption key used for messages during every over the air activation. After the activation the AppSKey is used. A listener knowing the AppKey can derive the AppSKey. So you want to keep the AppKey secret. Which side of the communication channel creates it is not important. You simply want to be sure that it is random. We recommend to use the AppKey generated by your LNS, otherwise you can use the default Appkey present or create yours manually.
Region Code	
Join Mode	Only Over-the-Air Activation (OTAA) is used as it's the most secure way to connect with your Lorawan network. Satevis device performs a join-procedure with the network, during which a dynamic DevAddr is assigned and security keys are negotiated with the device. For Security reasons and to avoid conflicting Device Address, we don't use ABP (Activation by Personalization).

Configure your LoraWan® Gateway


SenseCAP
Status
System
Network
LoRa
VPN
Logout
REFRESHING
MultiWAN Interfaces
Name
Metric
wan
1
wwan
2
MultiWAN Status
Interface: wan
Status: Online
Uptime: 1h 14m 53s
Interface: wwan
Status: Online
Uptime: 1h 14m 27s
Powered by LuCI / OpenWrt 21.02.0 r1-20220615 r16279-5cc0535800

Frequency Plan

When registering your Satevis® device on TTN, make sure the Frequency Plan is matching your Gateway Frequency Plan. If the Frequency plan is different, uplinks/downlinks will be rejected.