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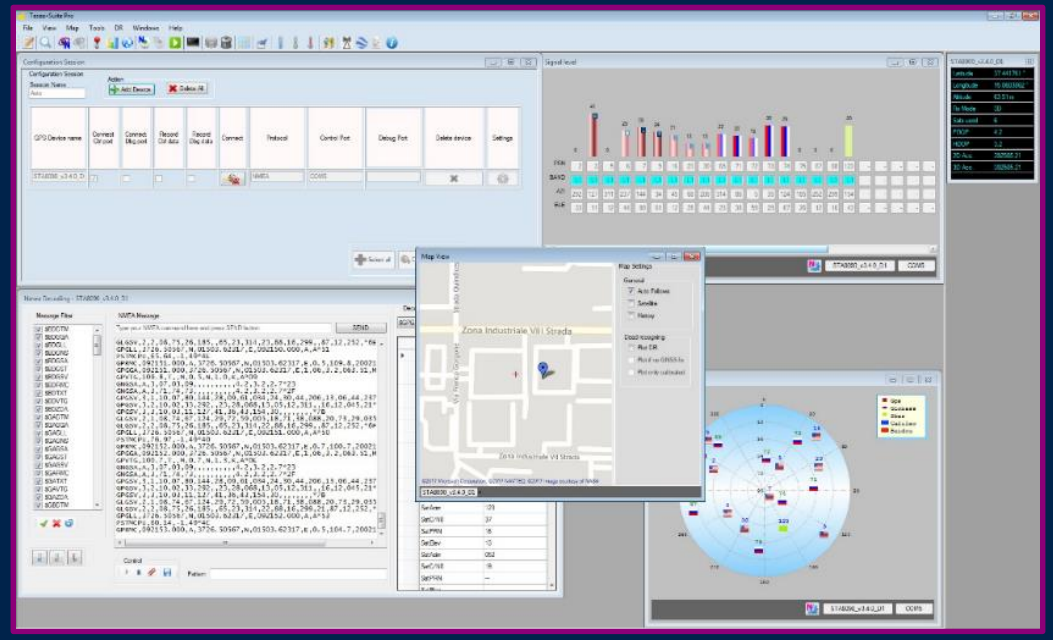
Teseo-Suite

PC tool to manage, configure and evaluate the Teseo GNSS family

Quick Training Guide

v. 2.0



Quick start guide - Contents

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Quick start guide - Introduction

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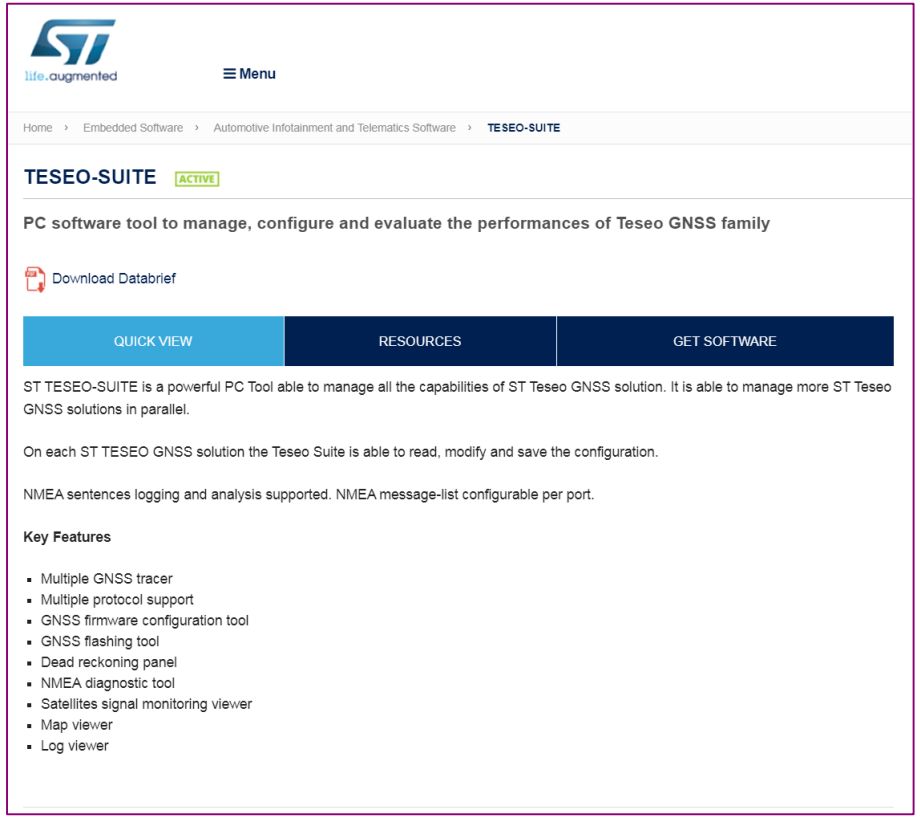
Install Teseo Suite

Teseo-Suite is a powerful PC Tool able to manage the ST Teseo II and Teseo III GNSS solutions.

Download and install the Teseo Suite

Teseo Suite is provided on www.st.com with locked-features.

Unlock-key can be requested to st-teseo-suite-support@st.com



Install VCP driver

ST’s Teseo III, Teseo Module and Teseo V GNSS solutions can be connected to a PC using the USB port through the USB-To-UART bridge

You need to install the VCP Driver. It can be downloaded here:

- SiliconLabs www.silabs.com

or

- FTDIChip www.fdtichip.com

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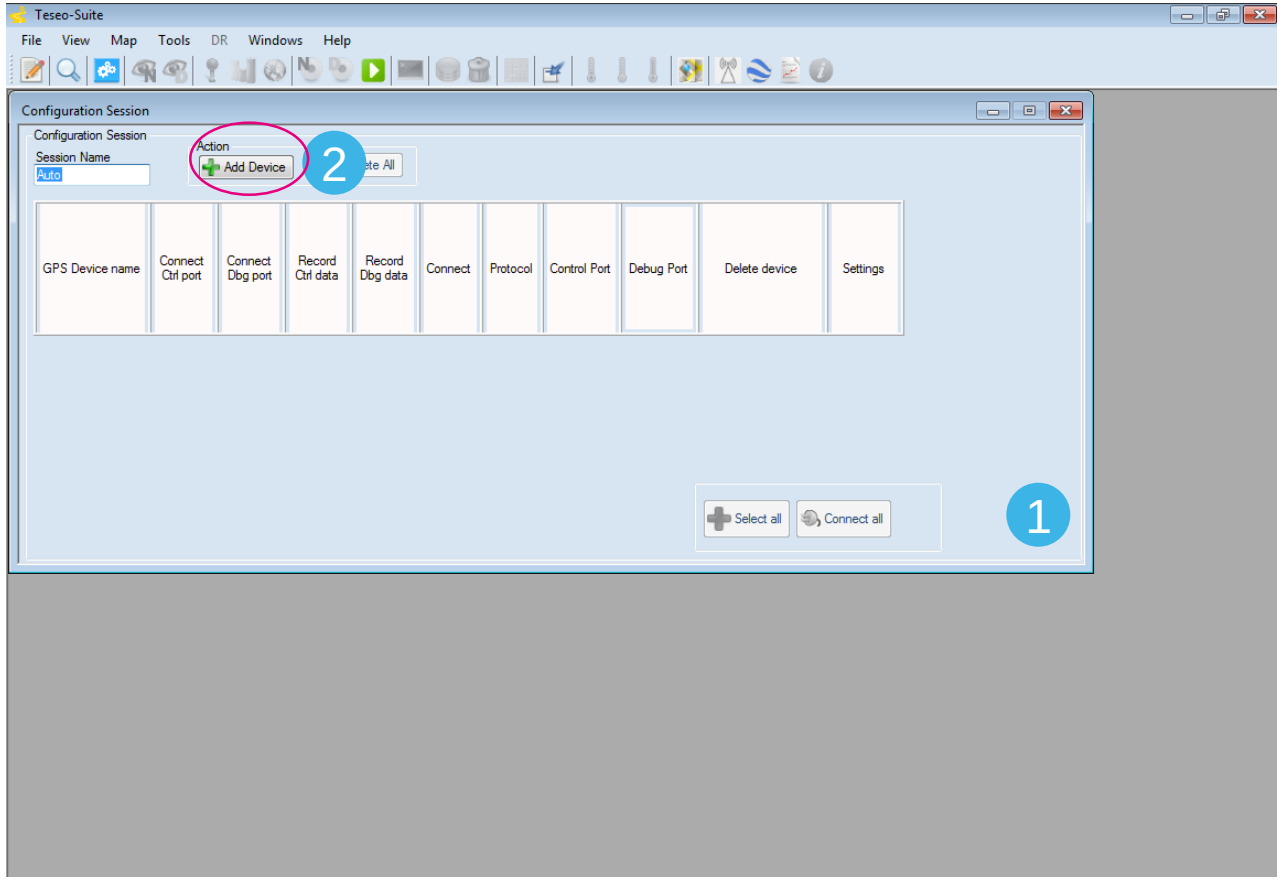
Start application

1. On application start-up the Configuration Session panel is shown

2. Push ‘Add Device’ button to add a new entry

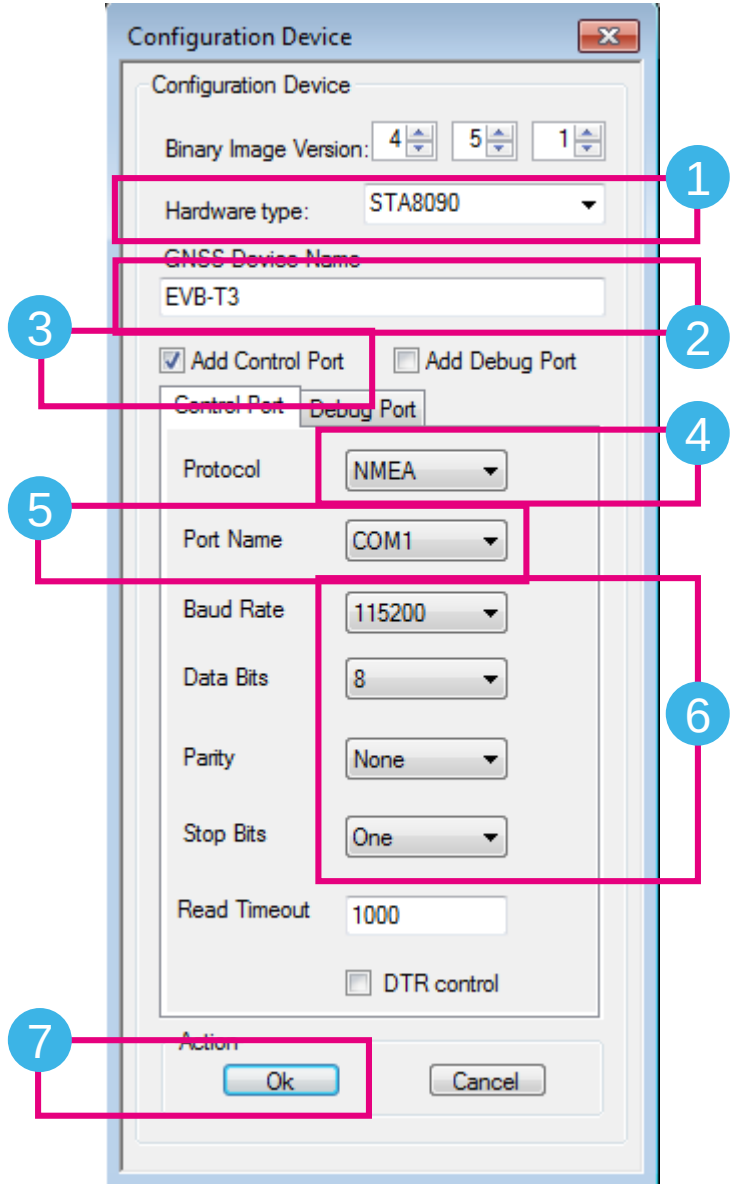


Configuration device

1. Set the Hardware type: **STA8090**
2. Set the GNSS Device Name: **EVB-T3**
3. Enable Add Control Port
4. Set the Protocol: **NMEA**
5. Set the Port Name: according to the discovered on the PC
6. Configure the port as following table:

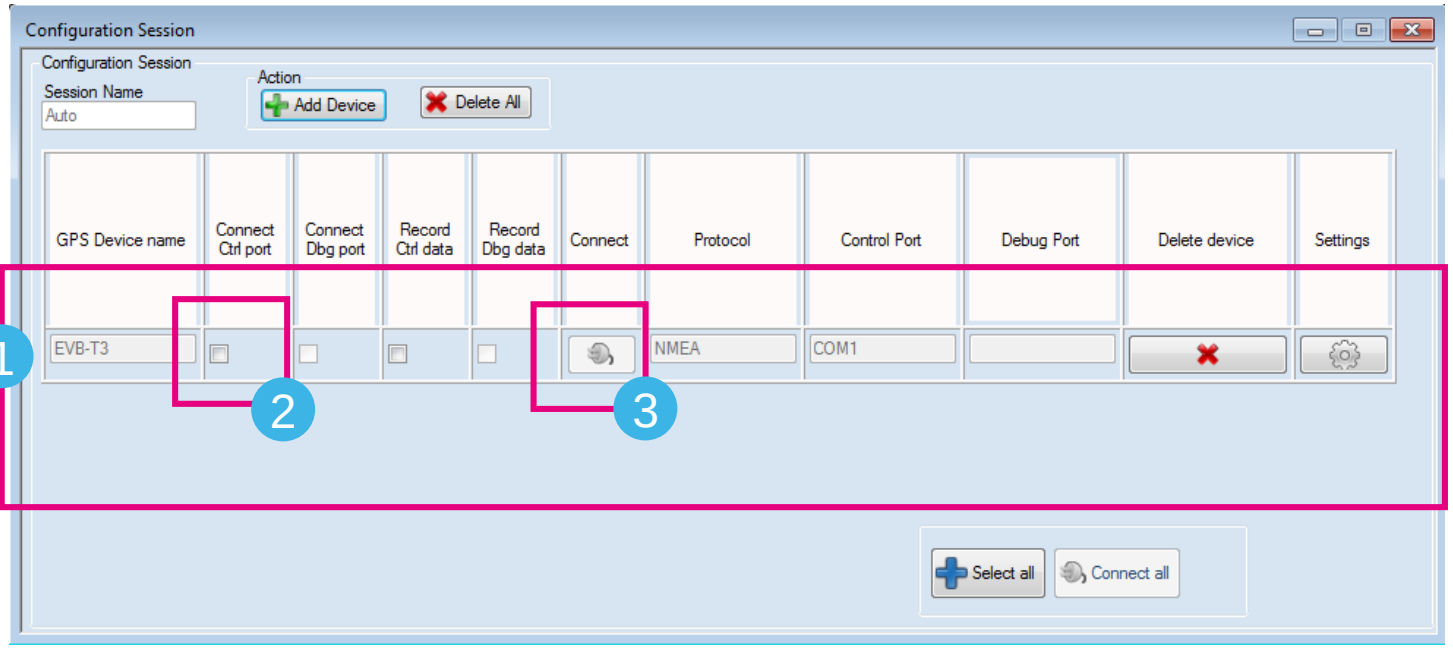
Baud rate	Data Bits	Stop Bits	Parity	Handshake
115200 bps	8 Bits	1 Bit	none	none

7. Click-on the Ok button



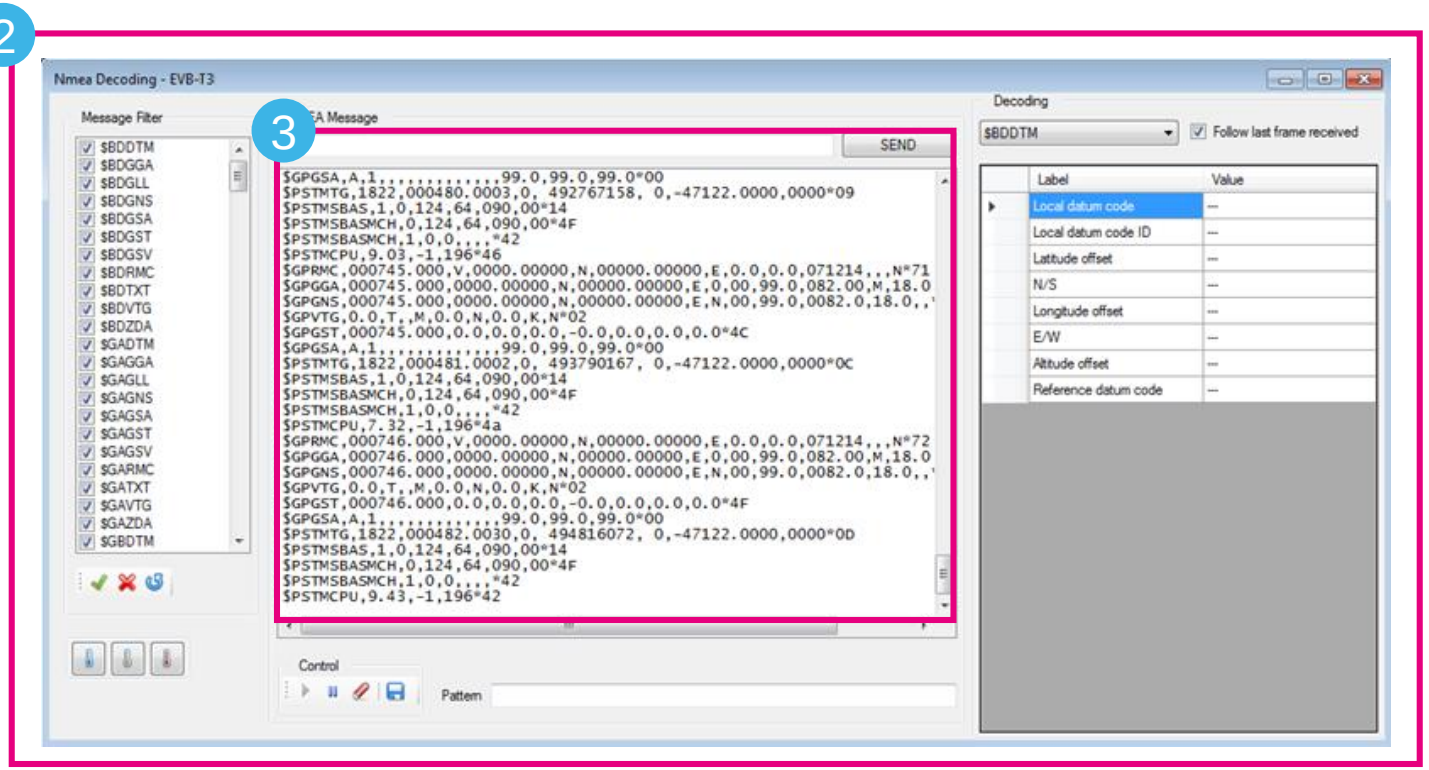
Connect the device

1. In the Configuration Session panel a new entry (row) is shown
2. Enable Connect Ctrl port
3. Click-on the Connect all button



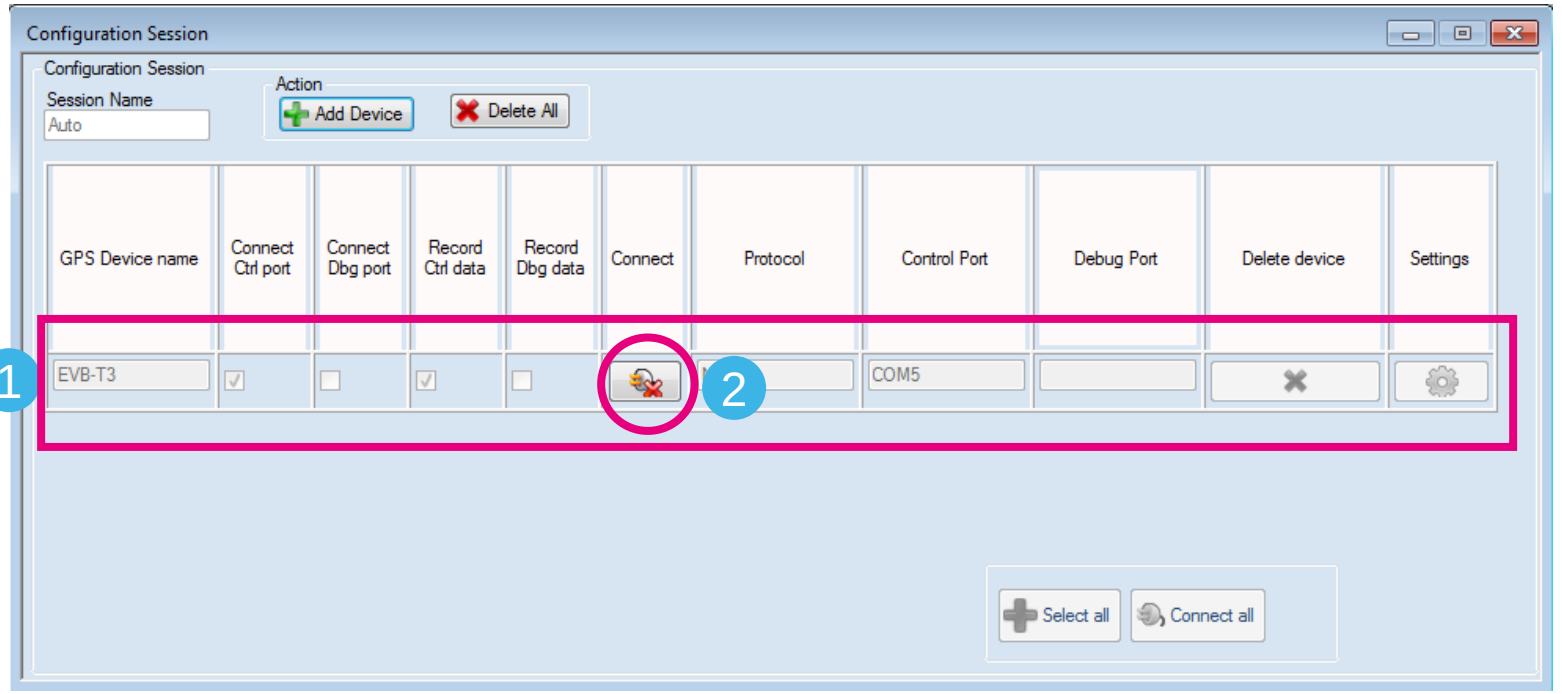
Inspect device

1. Click-on **View Monitor** button in the menu-bar
2. NMEA Decoding panel is shown
3. NMEA Stream can be viewed and inspected



Disconnect the device

1. In the Configuration Session panel entry (row)
2. Click-on the Disconnect button



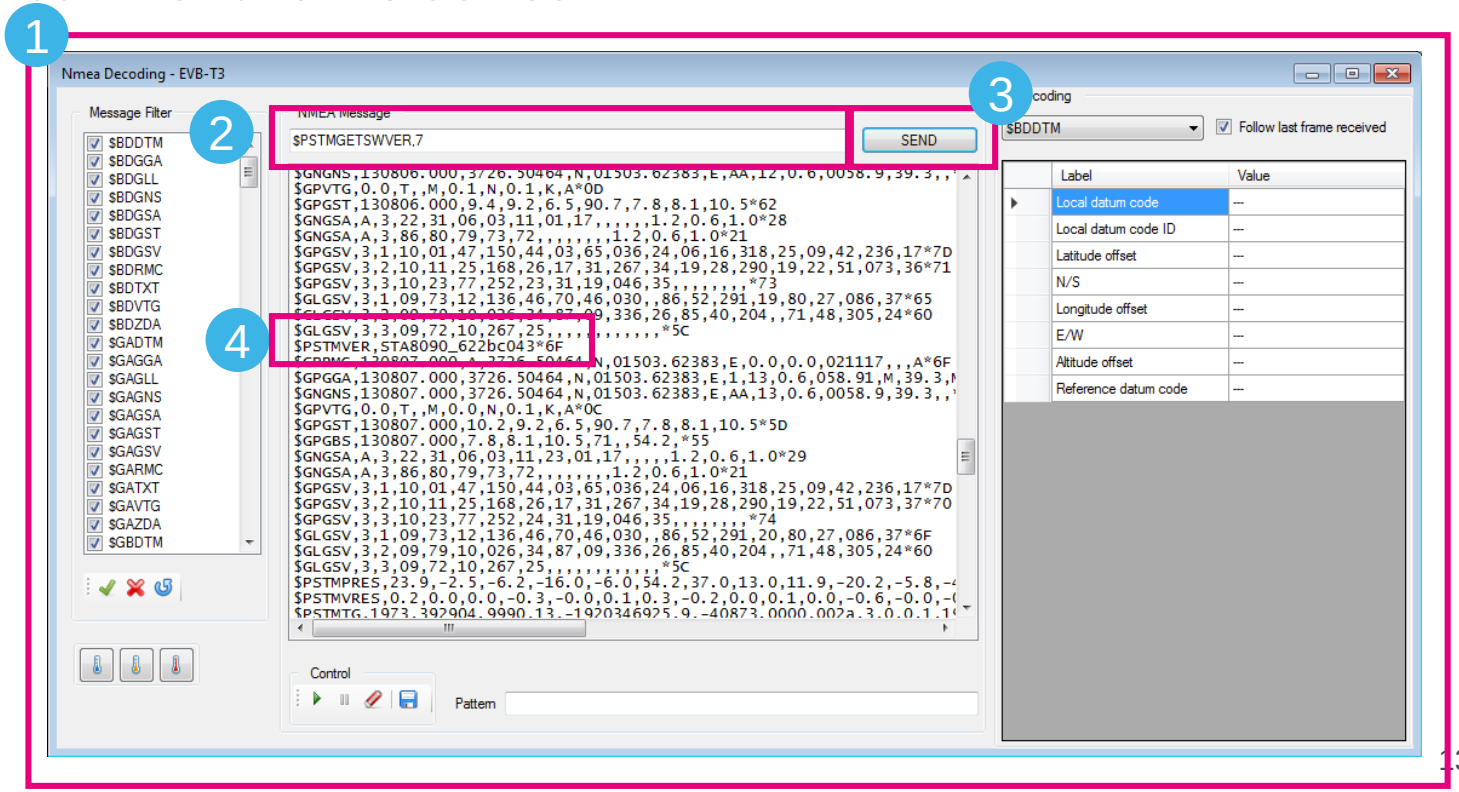
Quick start guide - Contents

Basic commands - Contents

Send commands

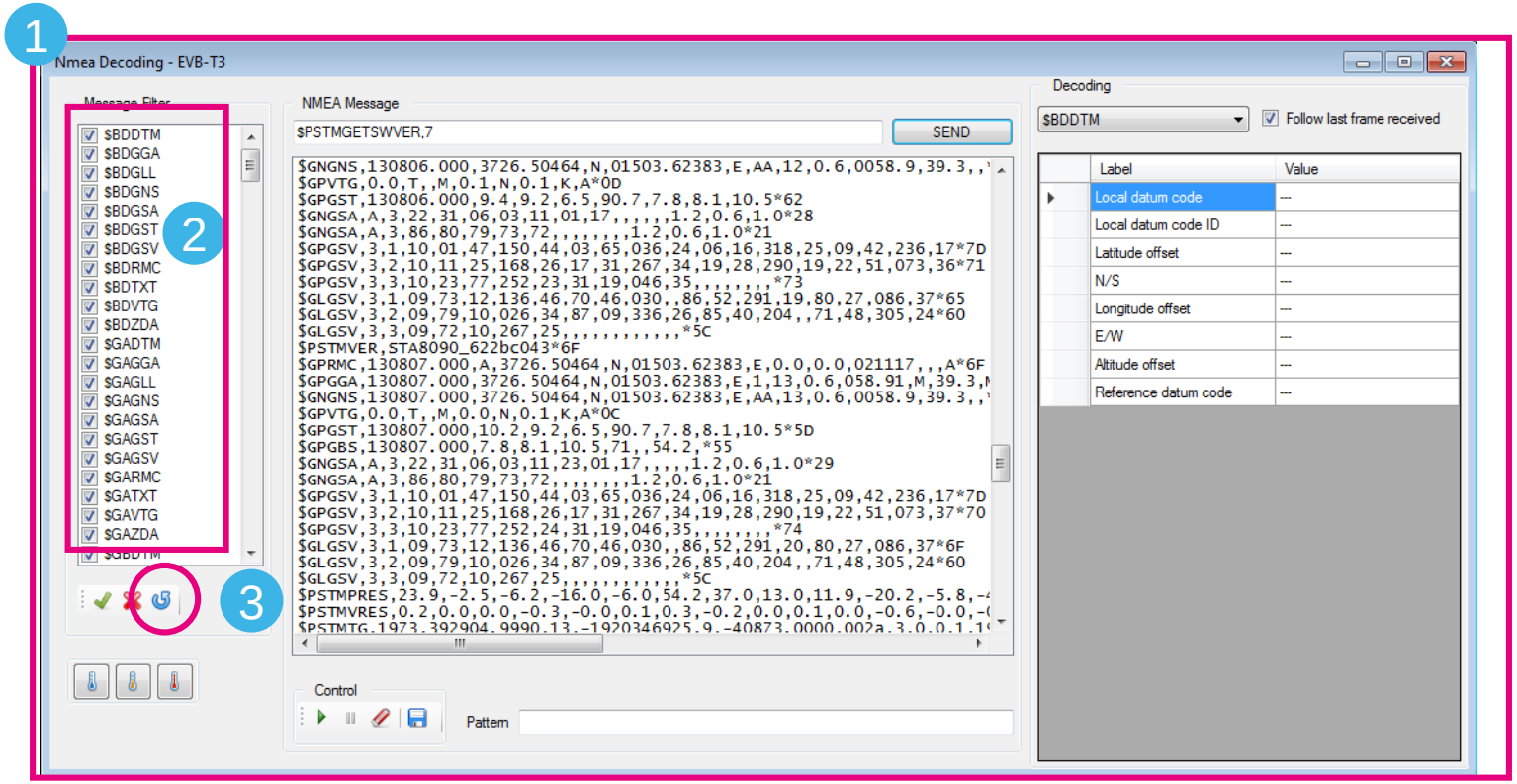
1. In the ‘Nmea Decoding’ panel
2. Write the ‘**command**’ in the text-edit entry
3. Click-on the ‘**Send**’ button to raise the command to the device
4. Inspect the replay message in the

   NMEA Stream



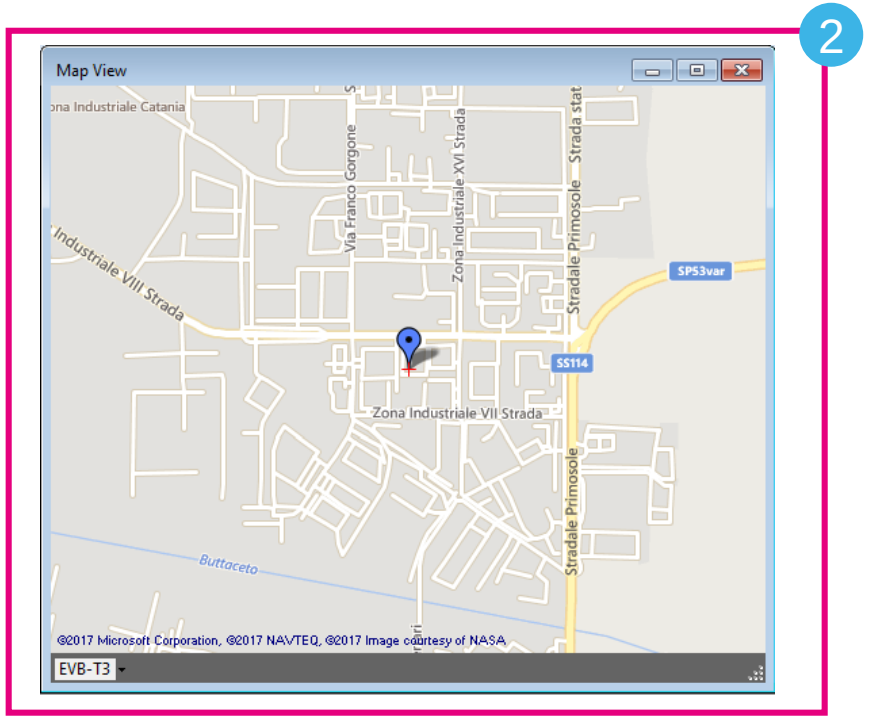
Filter the message list

1. In the ‘Nmea Decoding’ panel
2. Select the messages you want
3. Refresh the new message-list into the device



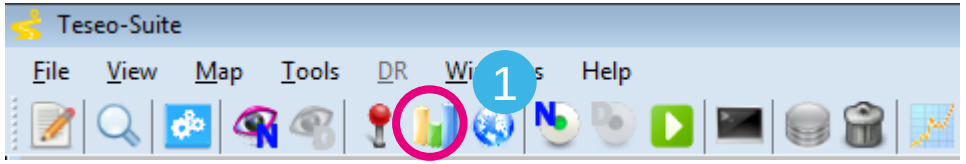
Map view

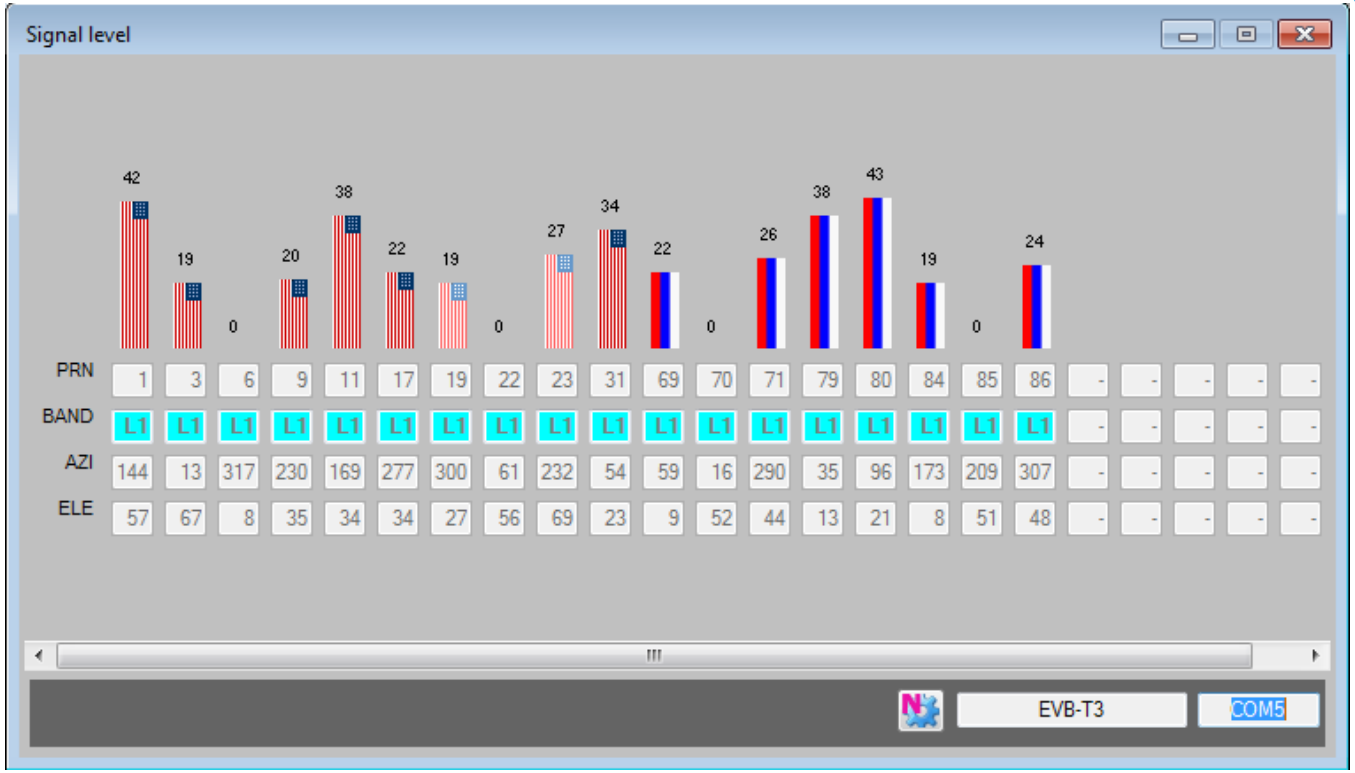
1. Click-on '**Map View**' button in the menu
2. Inspect the position in the '**Map View**' panel



Signal levels

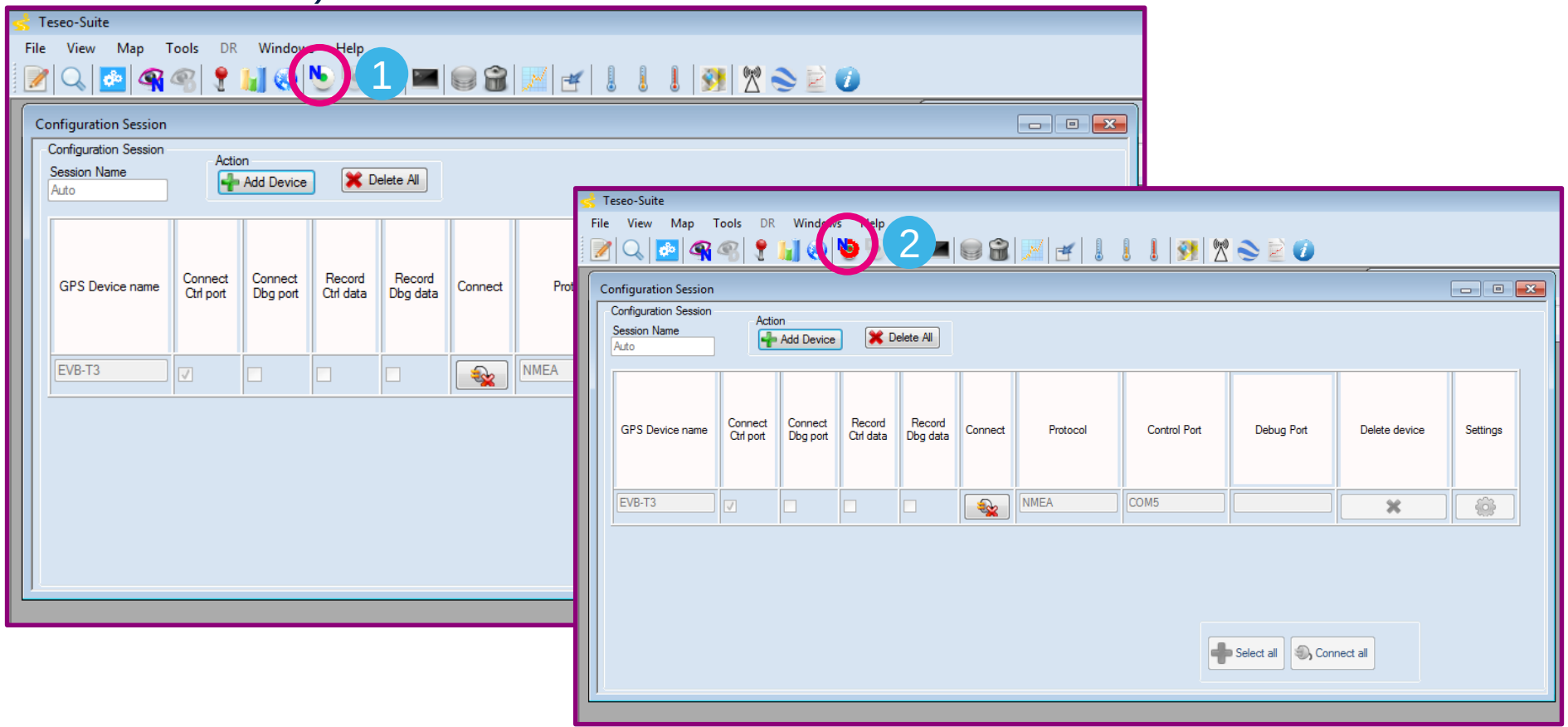
1. Click-on ‘**Signal Level View**’ button in the menu
2. The ‘**Signal level**’ panel reports all the details for all the seen satellites





Record a NMEA log session

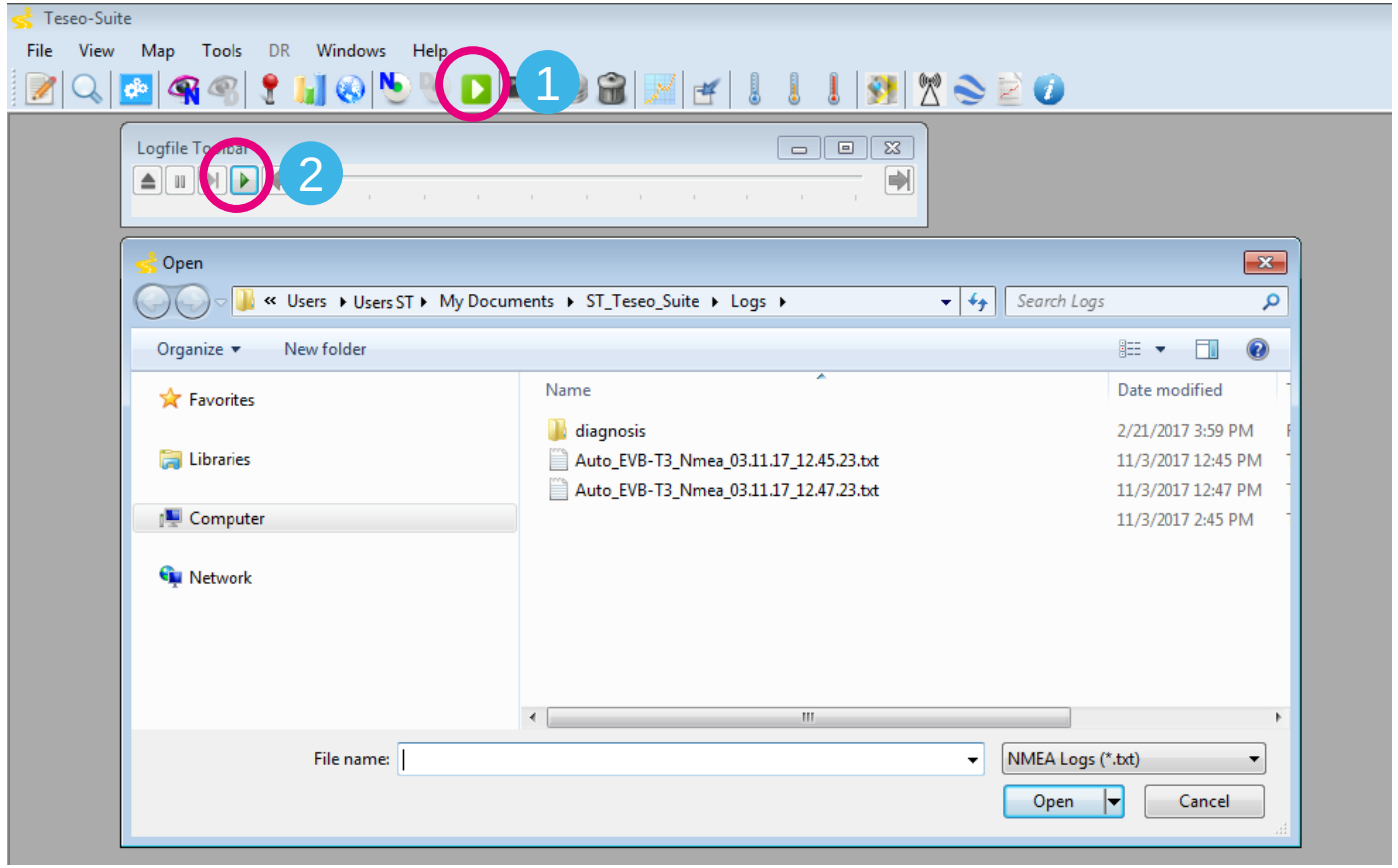
1. To start log session, click-on '**Start/Stop Record Control Port**' button in the menu (button turns red)
2. To stop a log session, click-on '**Start/Stop Record Control Port**' button in the menu (button turns white)



Play a NMEA log session [1/4]

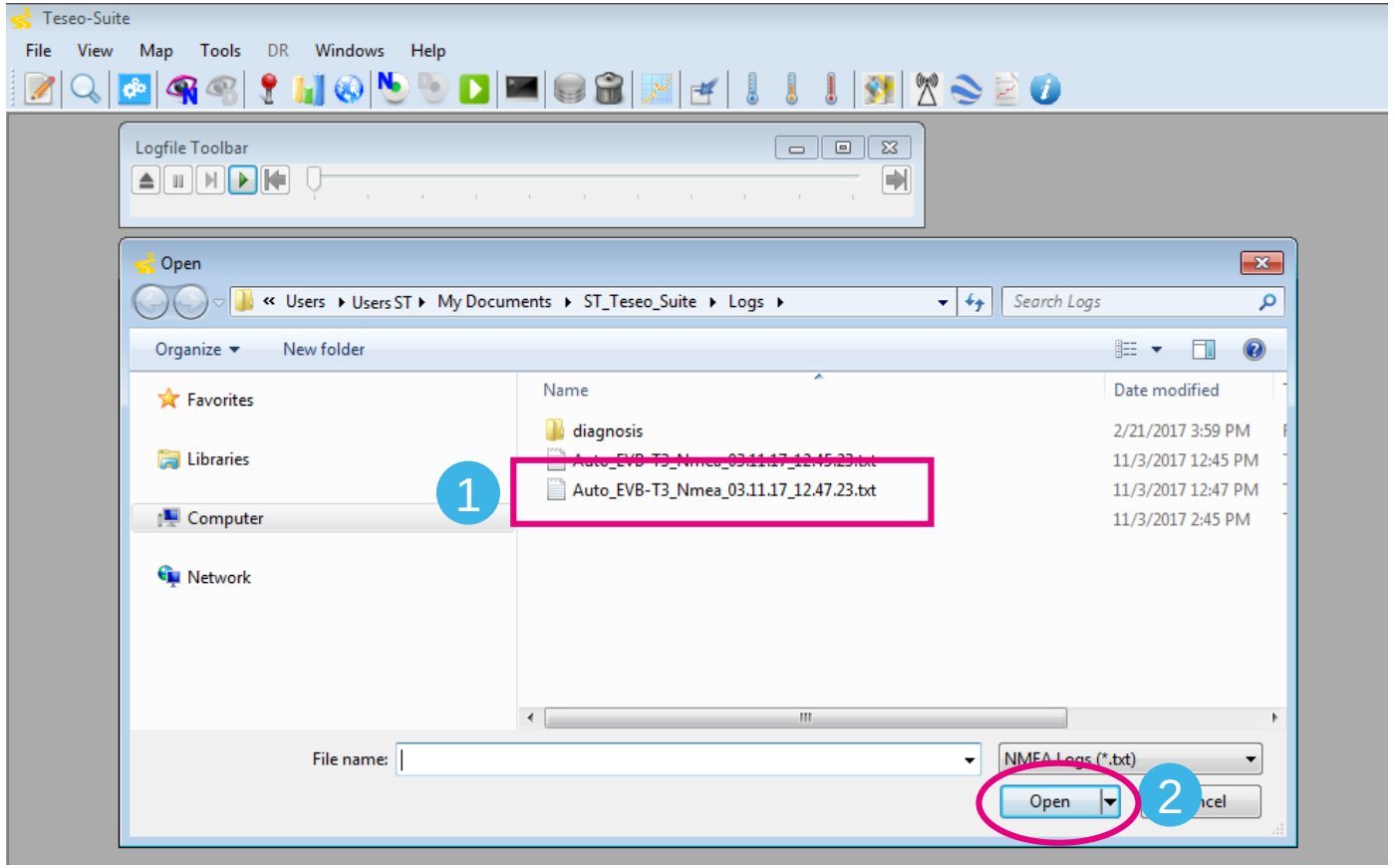
1. Click-on ‘**Player**’ button in the menu (the Logfile Toolbar panel will appear)

2. Click-on ‘**Play**’ button in the Logfile Toolbar (the ‘Open’ dialog will appear)



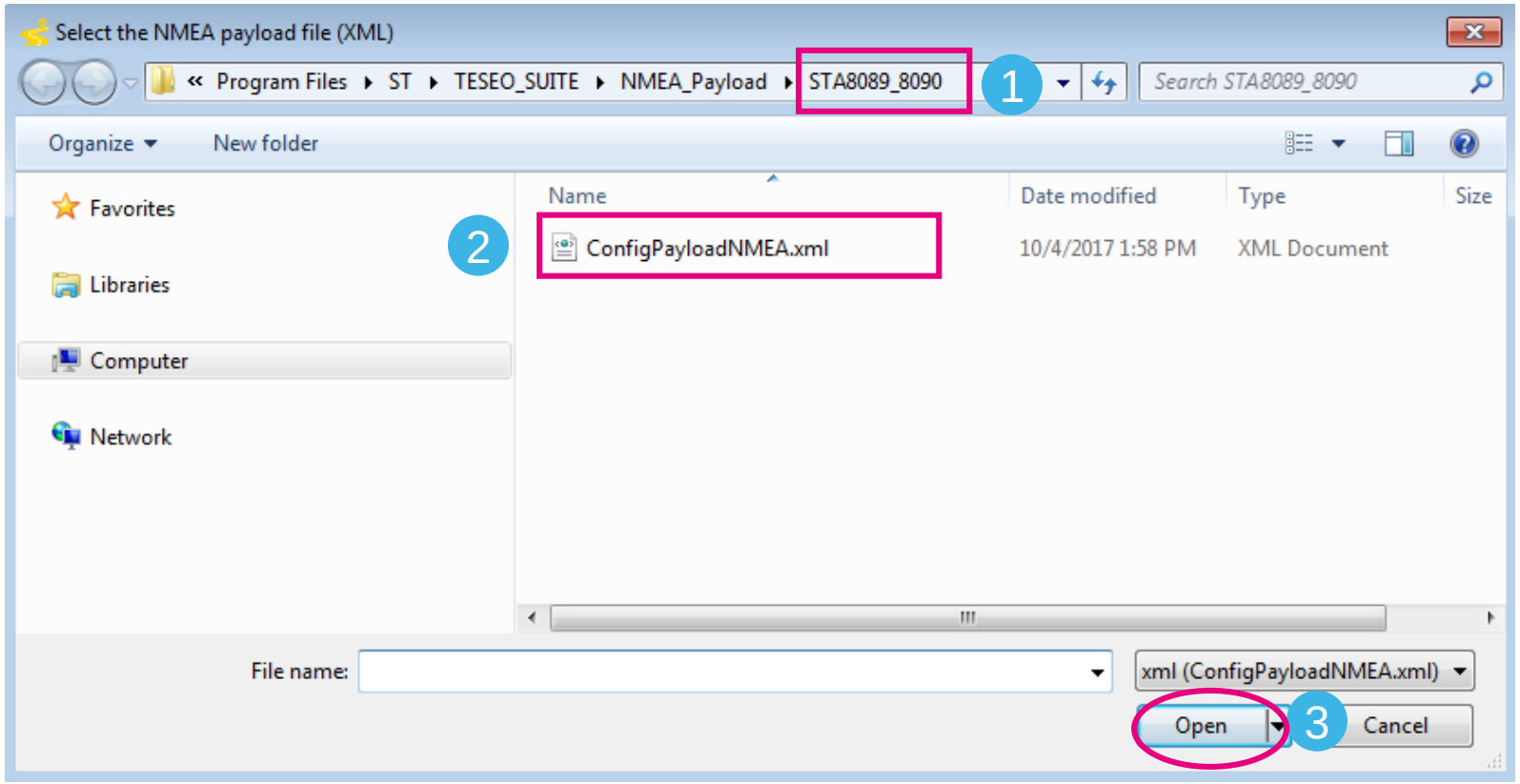
Play a NMEA log session [2/4]

1. In the ‘Open’ dialog select the log to play
2. Click-on ‘**Open**’



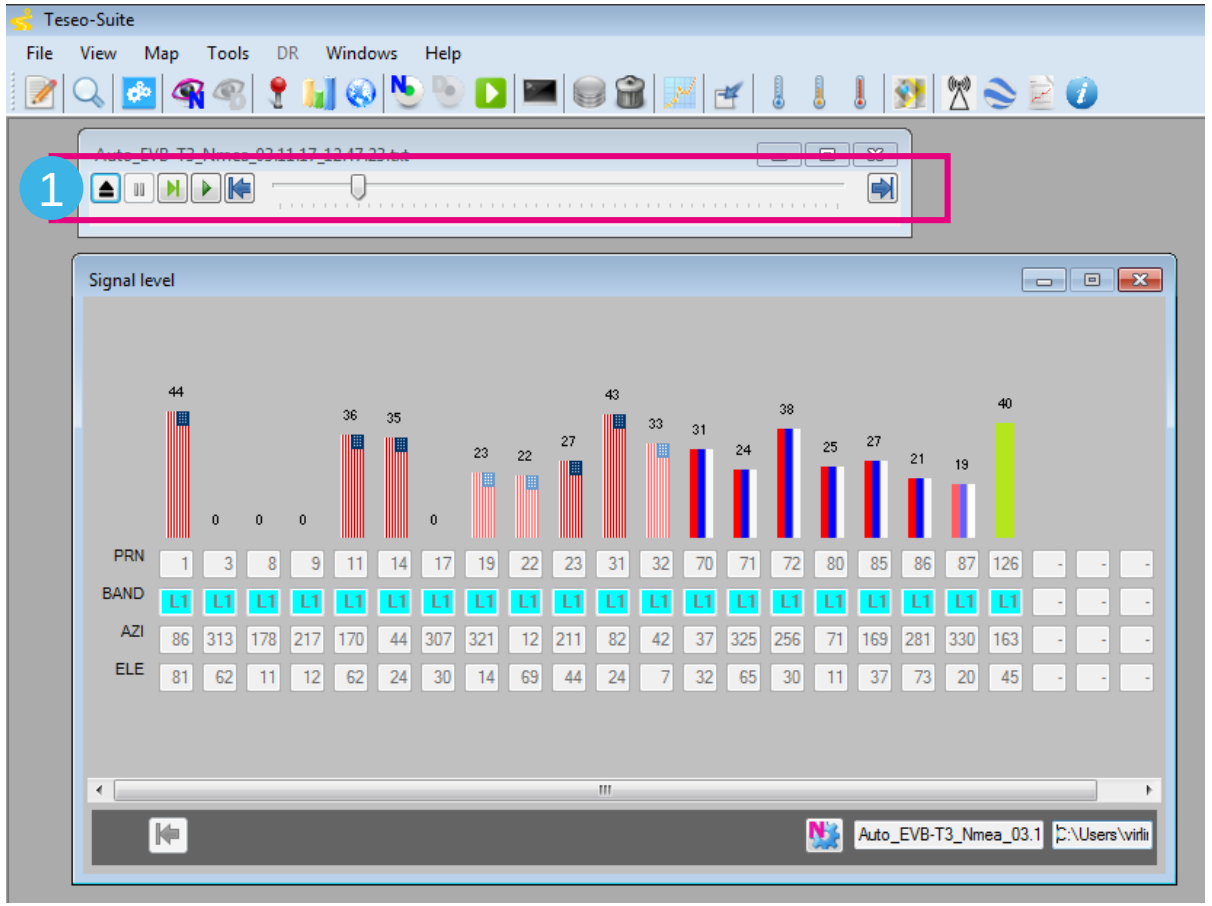
Play a NMEA log session [3/4]

1. In the ‘Select the NMEA payload’ folder based on the GNSS IC used
2. In the ‘ConfigPayloadNMEA.xml’ file
3. Push ‘**Open**’



Play a NMEA log session [4/4]

1. In the Logfile Toolbar panel all the buttons are enabled and you can start, stop, rewind the log as a standard tape



Quick start guide - Contents

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Advanced features - Contents

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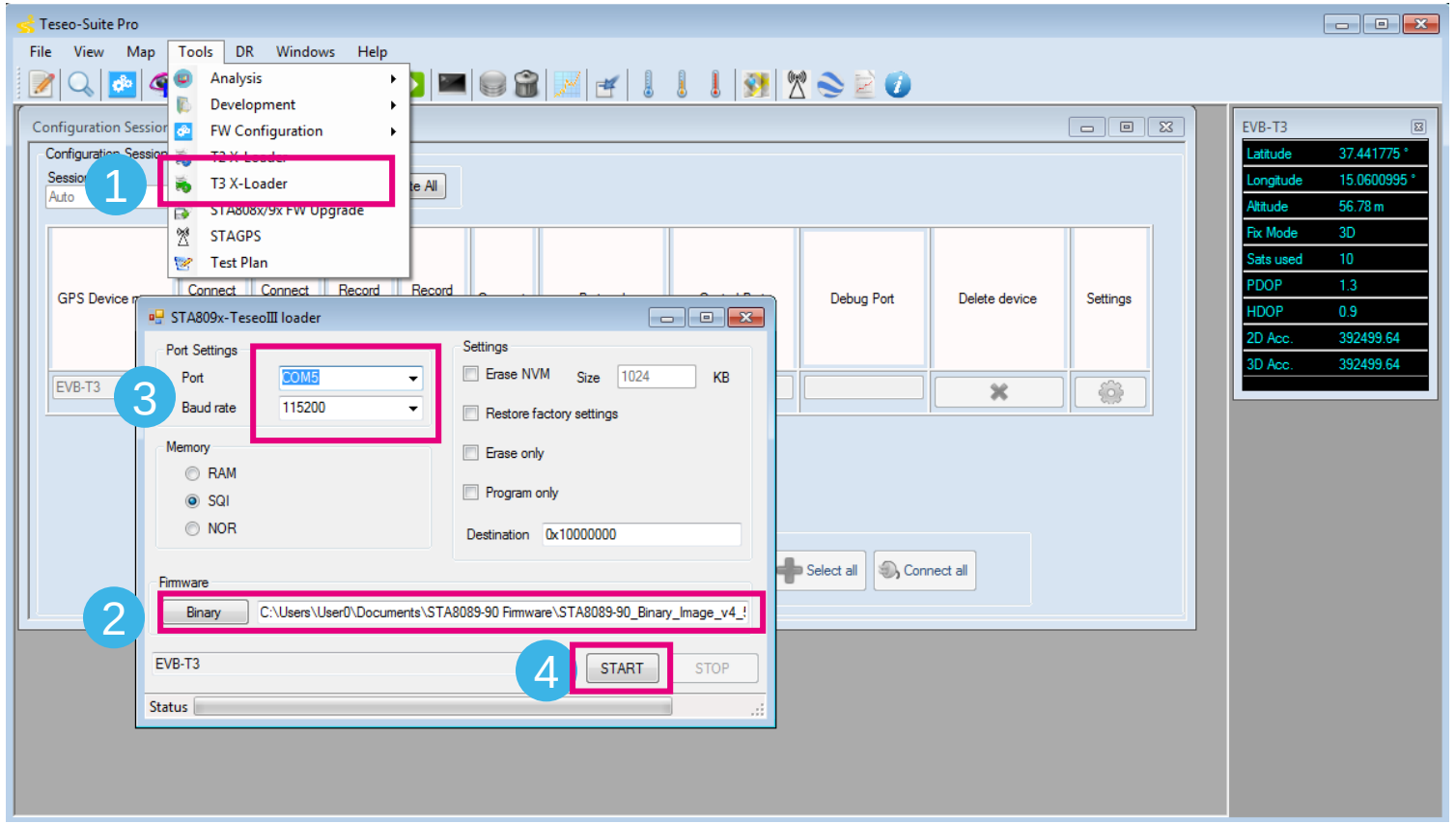
Update bootloader and gnsslib

1. Open Teseo II (T2) or Teseo III (T3) Teseo V (T5) **X-Loader** from menu
2. Select the binary file from file-system
3. Select COM Port and the baud-rate
4. Click-on Start to update



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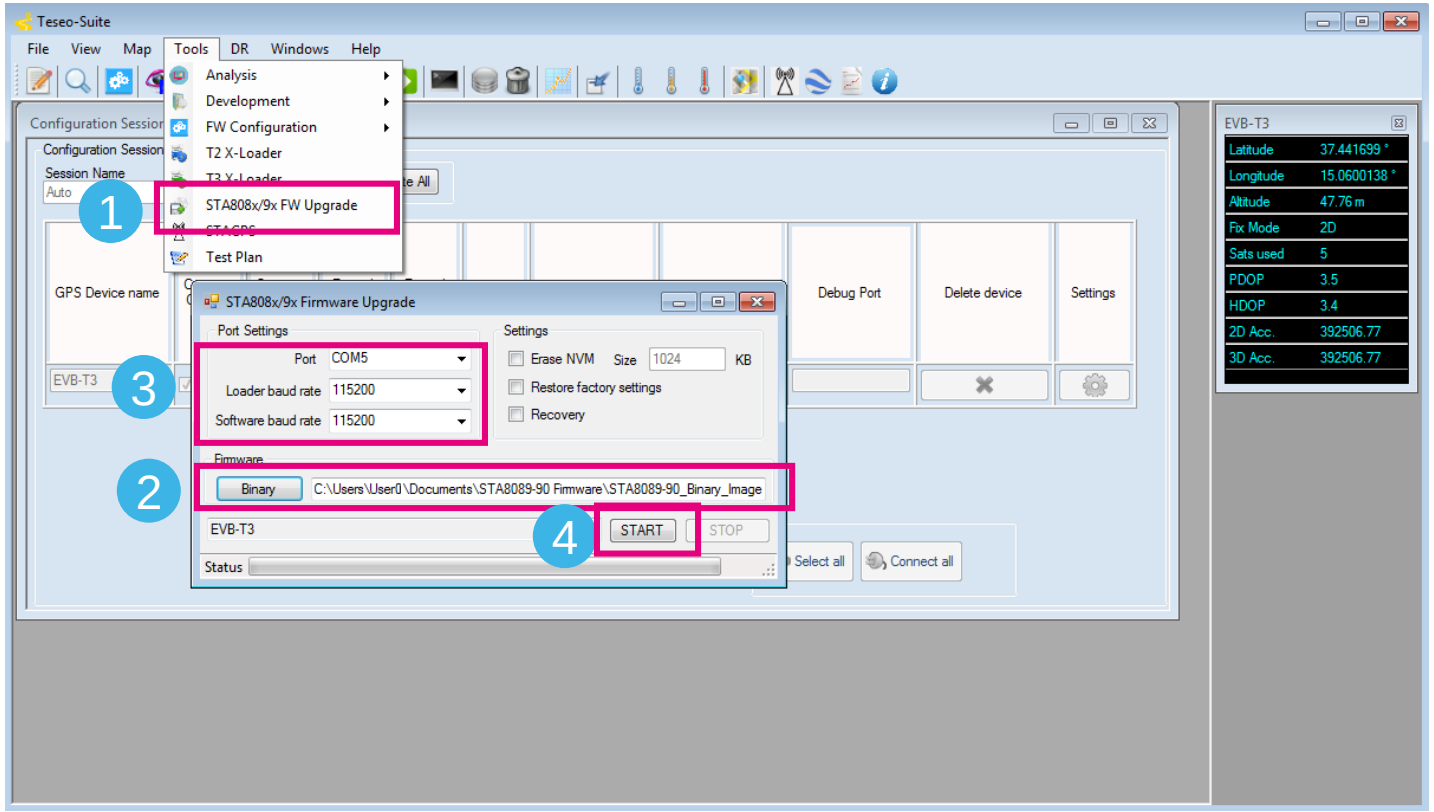
Update gnss-lib

1. Open **Firmware Upgrade** tool
2. Select the binary file from file-system
3. Select COM Port and the baud-rates
4. Click-on Start to update the GNSS-Lib



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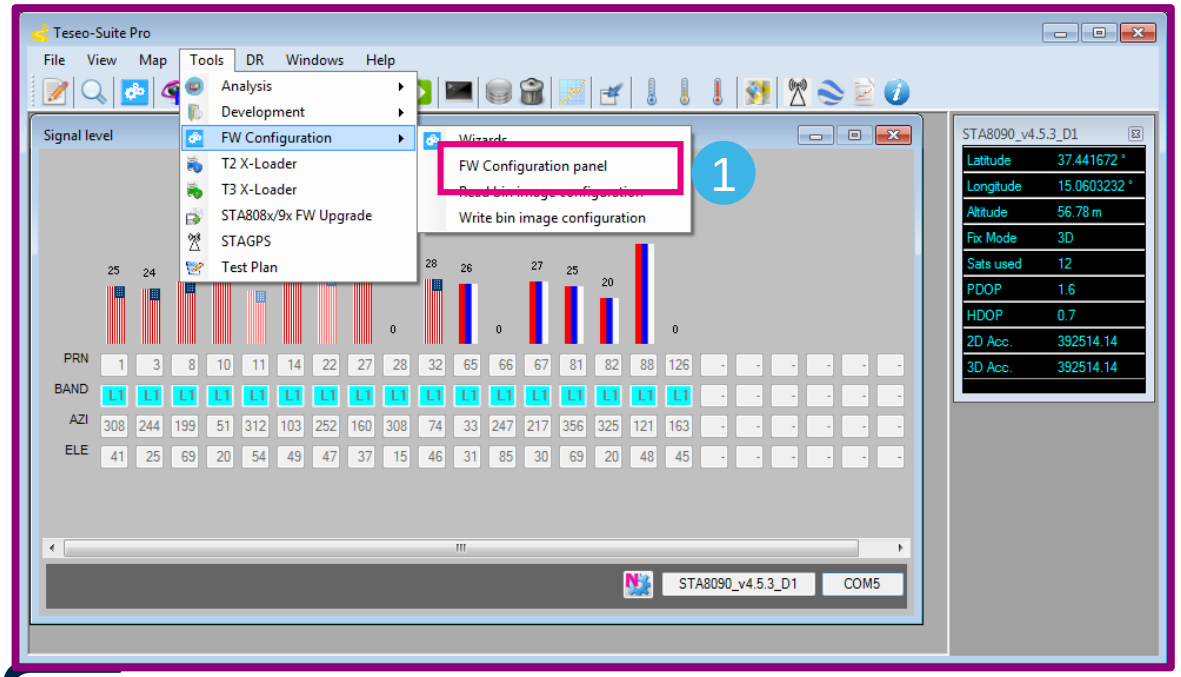
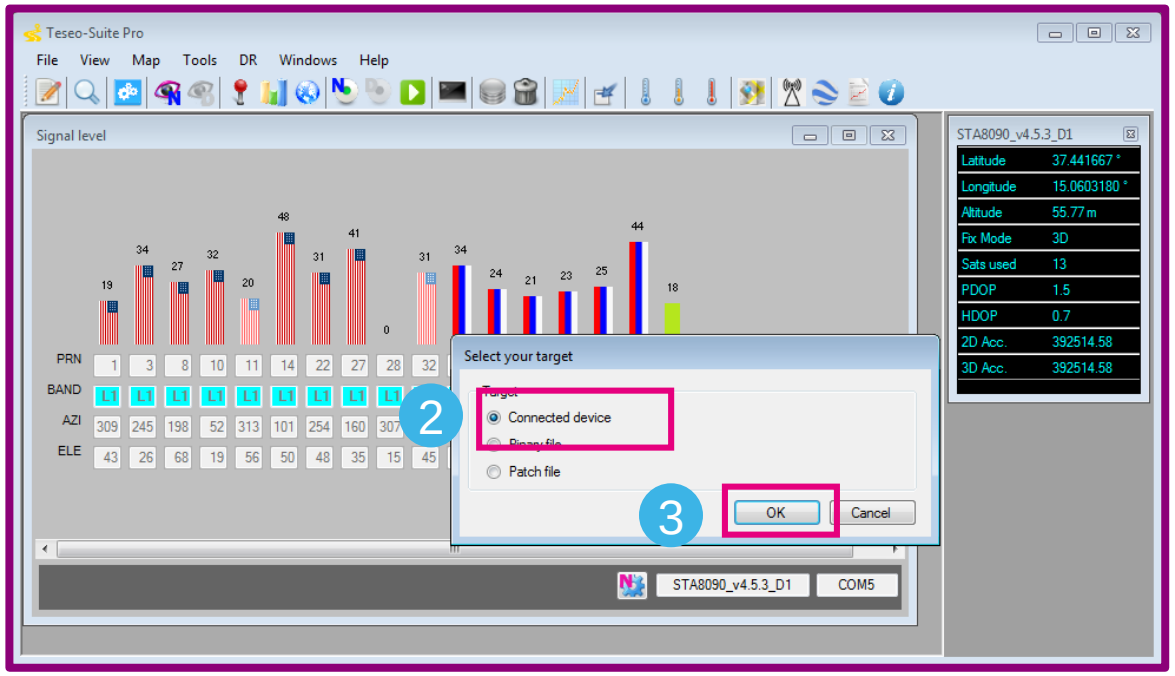
Firmware configuration [1/2]

1. Select ‘FW Configuration panel’ in the menu
2. Select the target to be configured (Connected device in the example)
3. Click-on Ok





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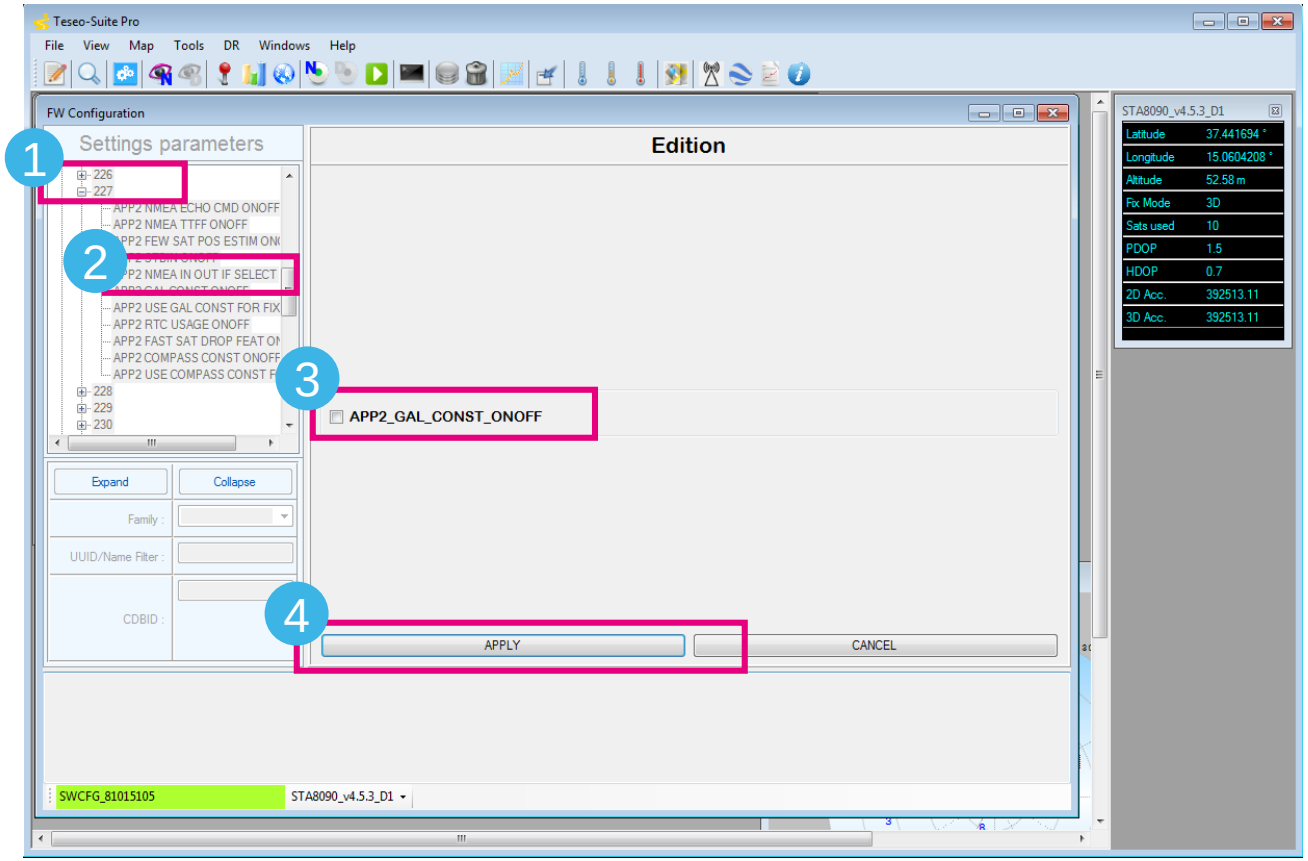
Firmware configuration [2/2]

1. Expand the CDB-ID number under configuration
2. Select the specified field under configuration
3. Enable the field and/or set the right value (Galileo constellation is enabled in the example)
4. Apply the change to the device



Quick start guide - Contents

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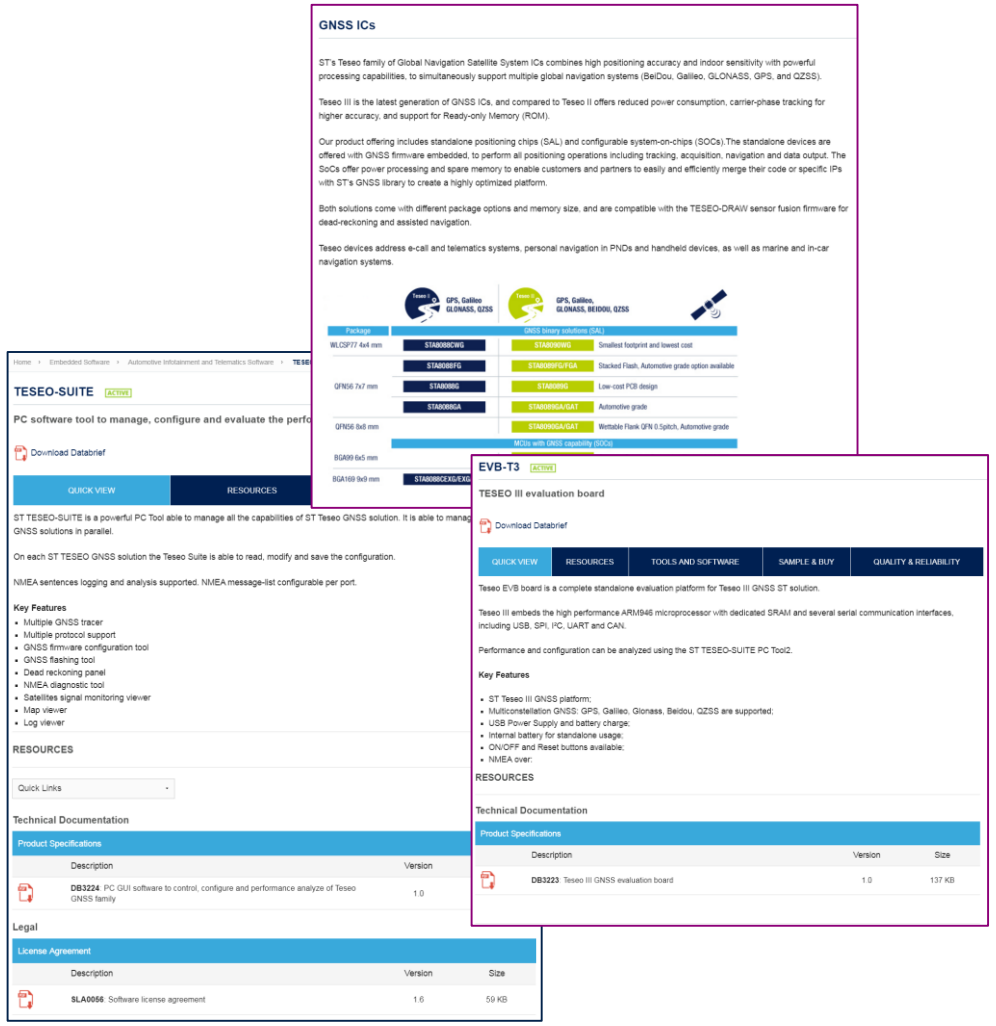
Documents & related resources

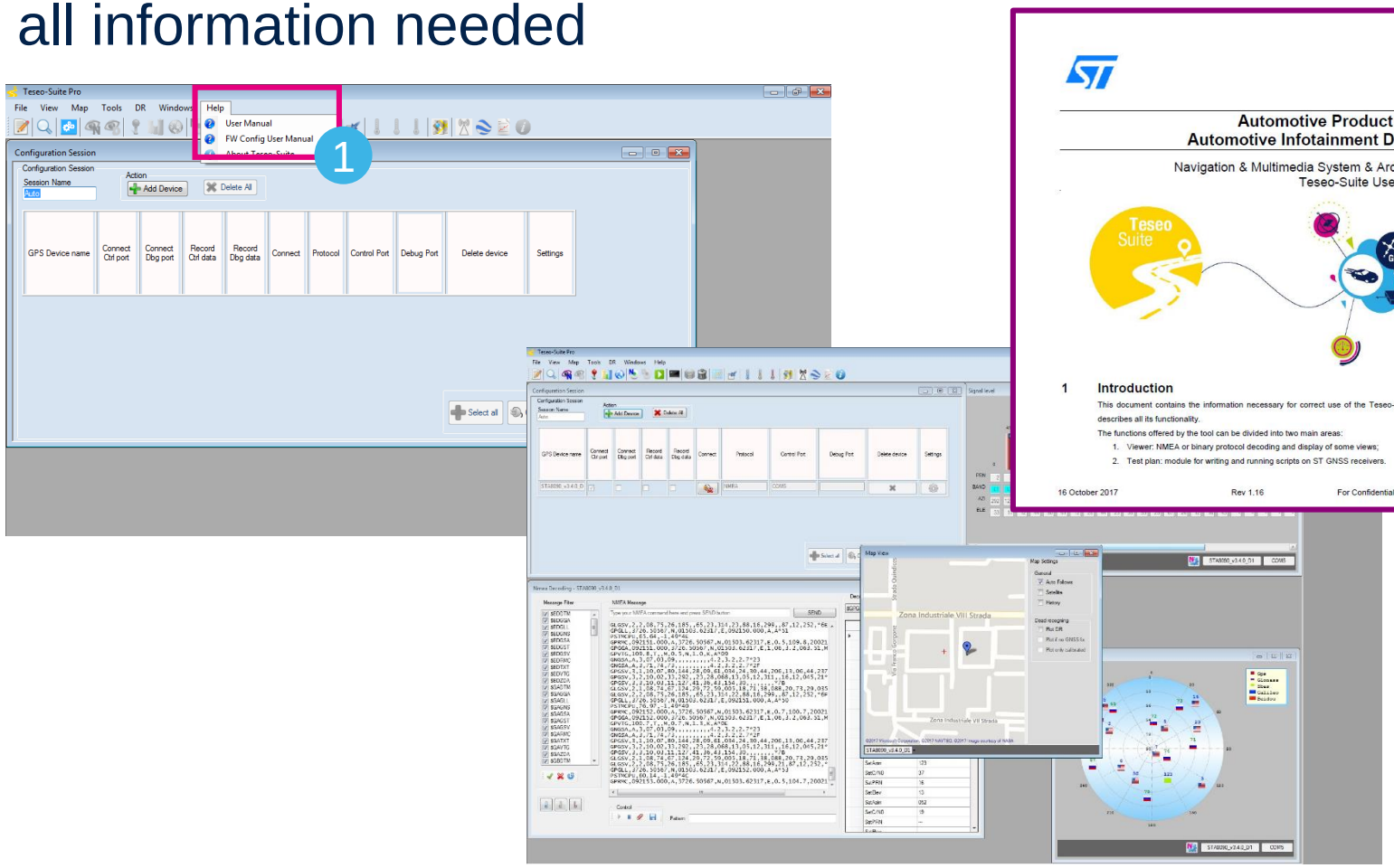
All documents are available on:
www.st.com

- Teseo Modules: Webpage
  - Data-sheet of all PNs;
- Teseo III: Webpage
  - Data-sheet of all PNs;
- Teseo Suite: Webpage
  - Datasheet
  - Install program



Teseo Suite – Extra features

1. Push Help menu to access User-Manual
2. User-Manual reports all information needed



Enjoy GNSS solution development with Teseo-Suite

- Now you can develop your GNSS solution with ST Teseo III, ST Teseo Module and ST Teseo V using Teseo-Suite to explore all the available features