



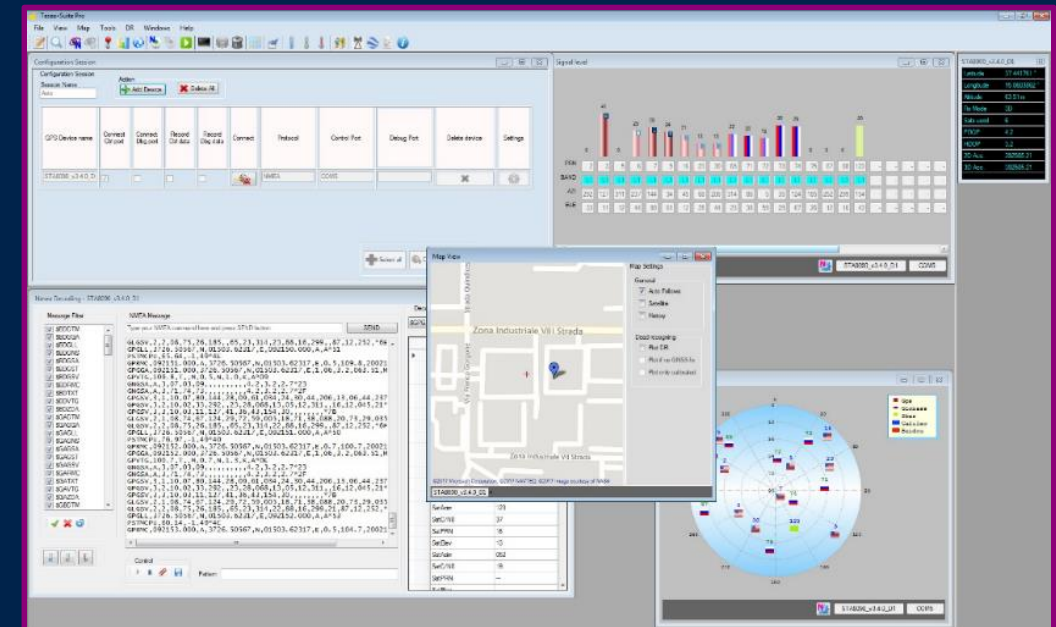
life.augmented

# Teseo-Suite

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

## Quick Training Guide

v. 2.0





# Quick start guide - Contents

1	Introduction
2	Basic commands
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# Quick start guide - Introduction

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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](http://www.st.com) with locked-features.

Unlock-key can be requested to [st-teseo-suite-support@st.com](mailto:st-teseo-suite-support@st.com)

The screenshot shows the ST Teseo Suite product page. At the top is the ST logo with the tagline 'life.augmented' and a 'Menu' button. Below the navigation bar, the breadcrumb trail reads: Home > Embedded Software > Automotive Infotainment and Telematics Software > TESEO-SUITE. The main heading is 'TESEO-SUITE' with an 'ACTIVE' status tag. The description states: 'PC software tool to manage, configure and evaluate the performances of Teseo GNSS family'. There is a 'Download Databrief' link with a PDF icon. Below this is a navigation bar with three buttons: 'QUICK VIEW' (highlighted in blue), 'RESOURCES', and 'GET SOFTWARE'. The main content area contains a paragraph about the tool's capabilities, followed by a list of features under the heading 'Key Features':

- Multiple GNSS tracer
- Multiple protocol support
- GNSS firmware configuration tool
- GNSS flashing tool
- Dead reckoning panel
- NMEA diagnostic tool
- Satellites signal monitoring viewer
- Map viewer
- Log viewer



# 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](http://www.silabs.com)

or

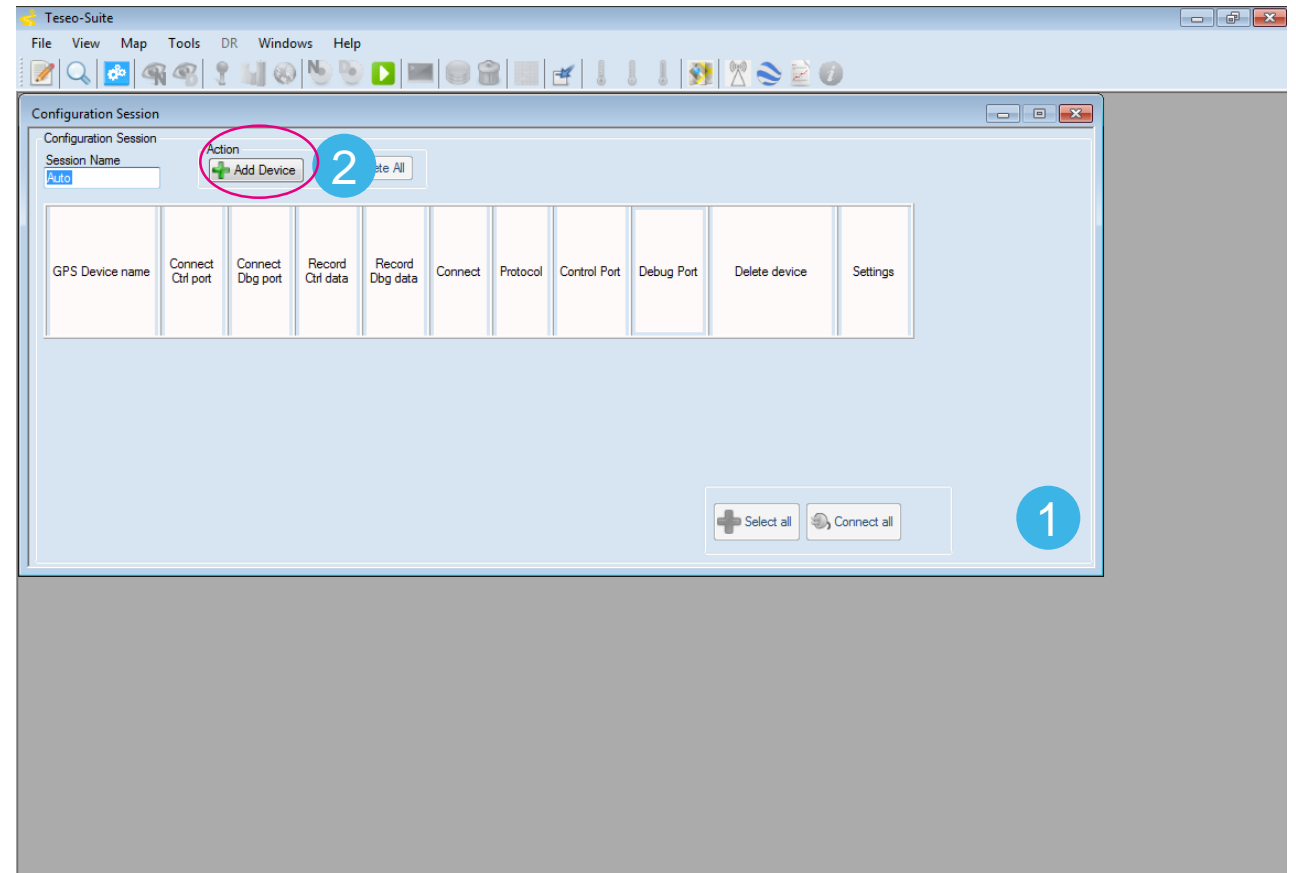
- FTDIChip [www.fdtichip.com](http://www.fdtichip.com)



# Start application

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

2 Push 'Add Device' button to add a new entry



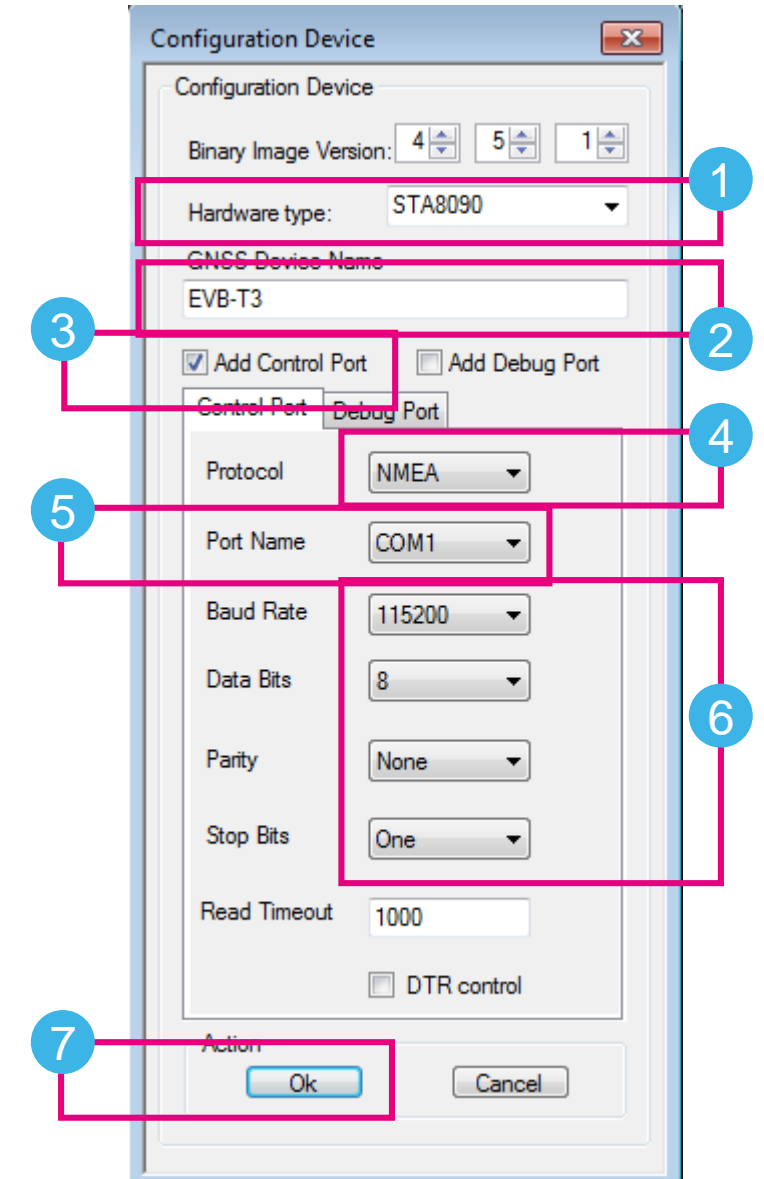


# Configuration device

- 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

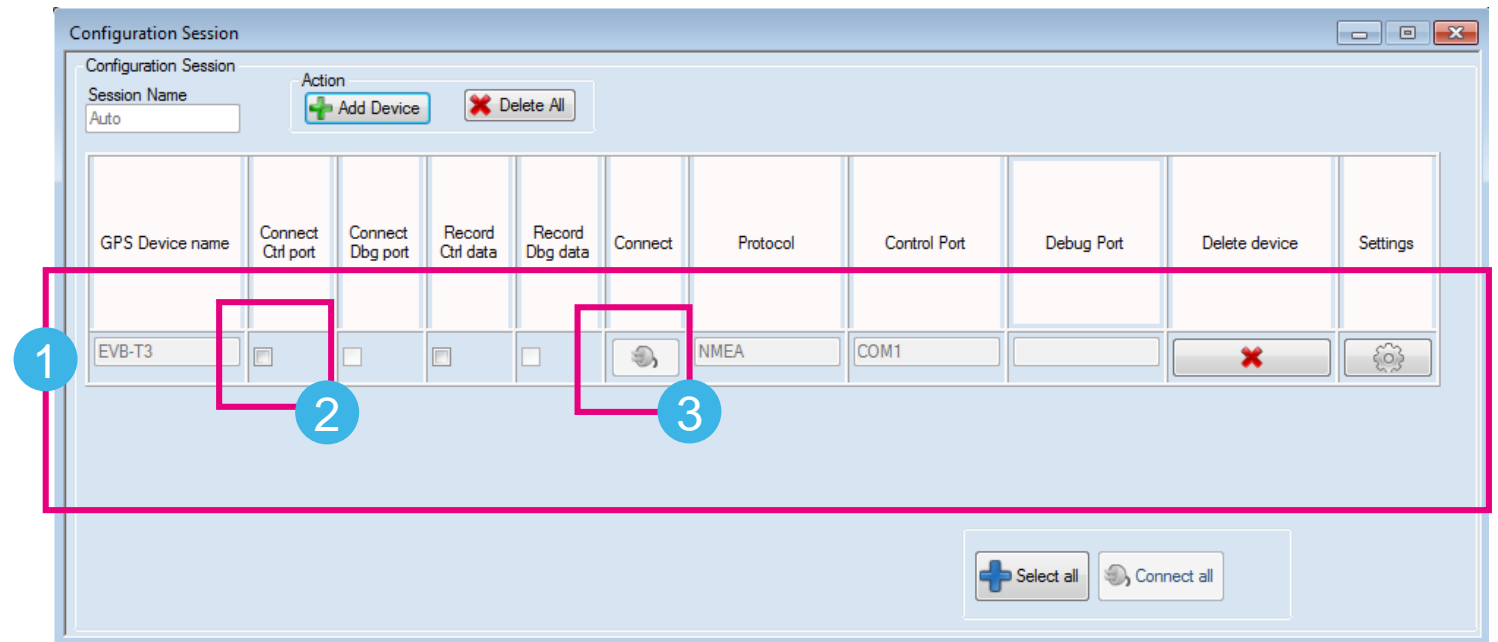
- 7 Click-on the Ok button





# 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

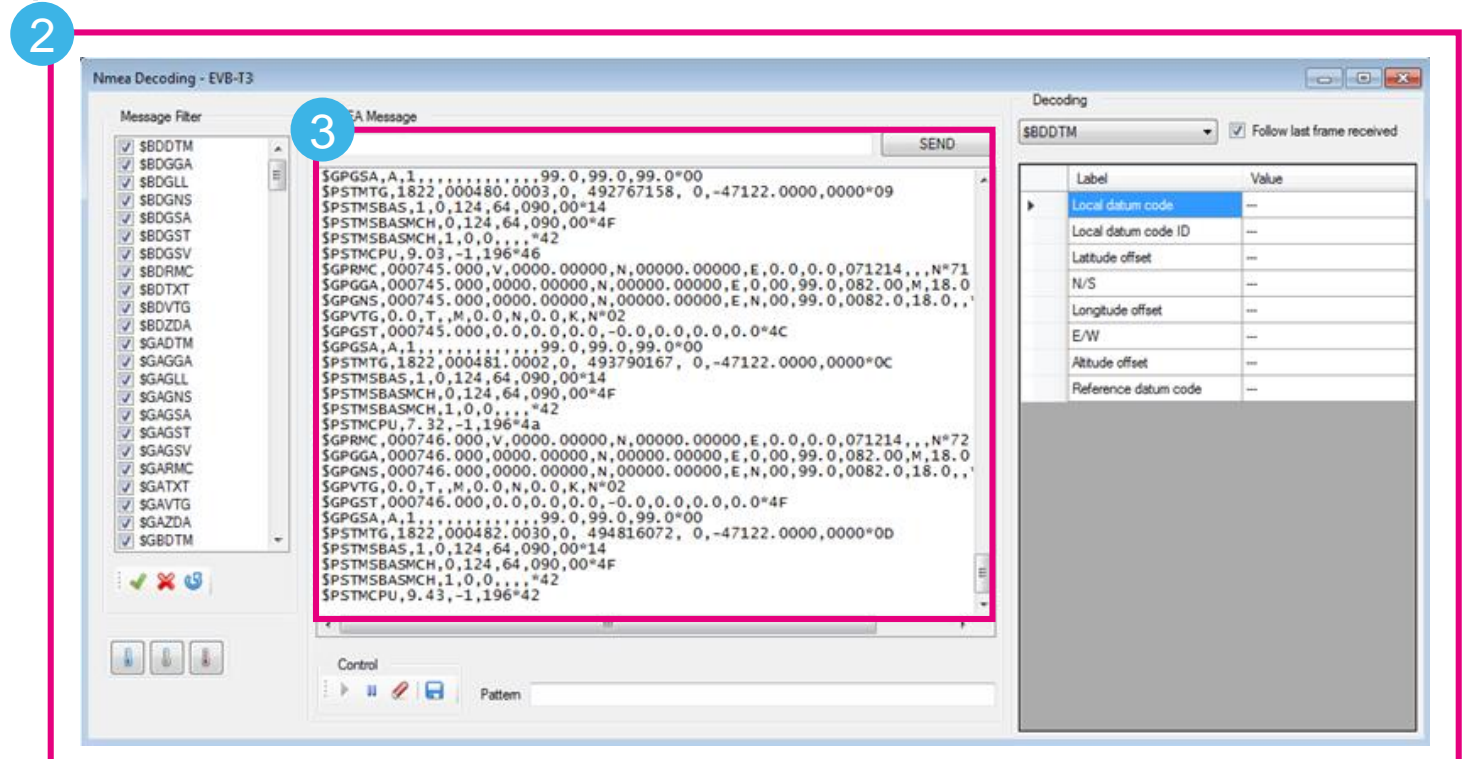






# Inspect device

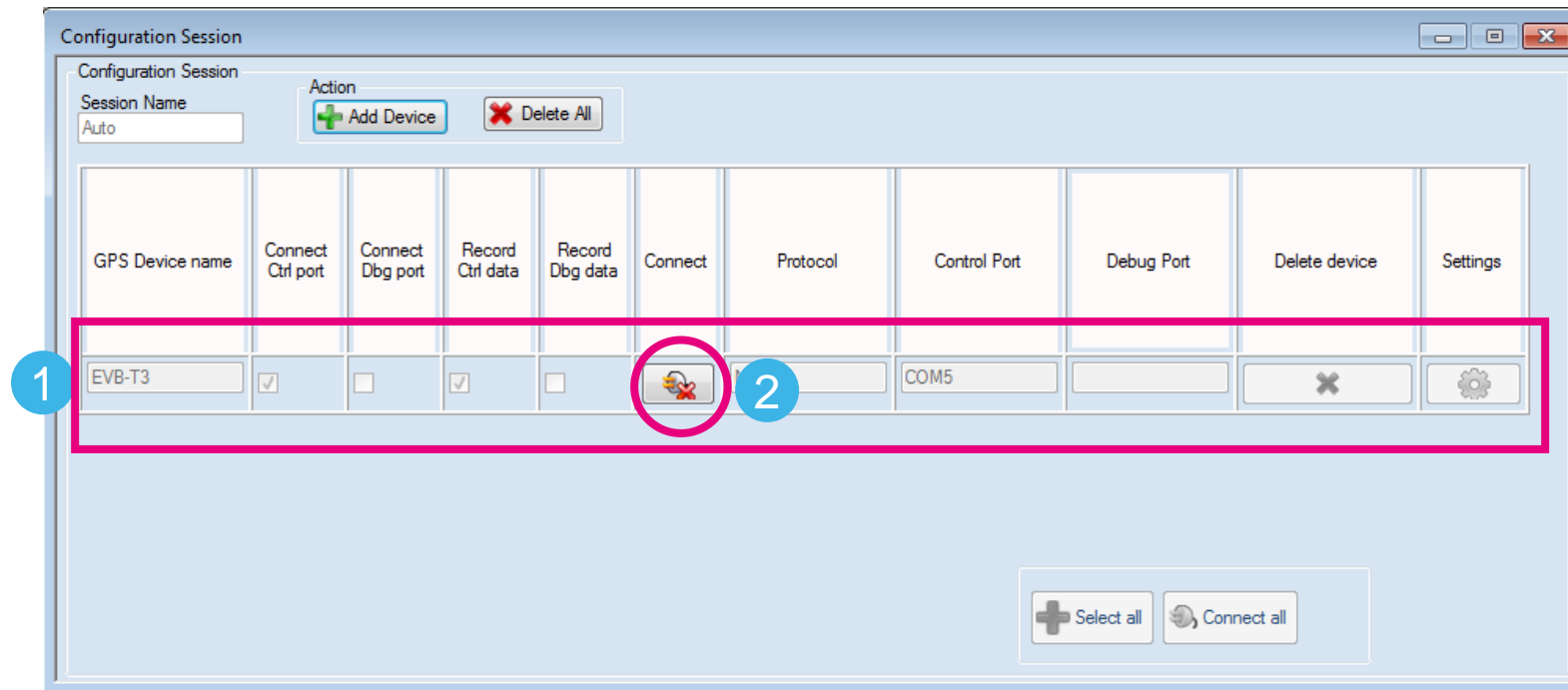
- 1 Click-on **View Monitor** button in the menu-bar
- 2 NMEA Decoding panel is shown
- 3 NMEA Stream can be viewed and inspected





# Disconnect the device

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





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# Basic commands - Contents

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Send Commands

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Recod a NMEA Log

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Filter the message list

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Play a NMEA Log

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Map View

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Signal Level



# 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

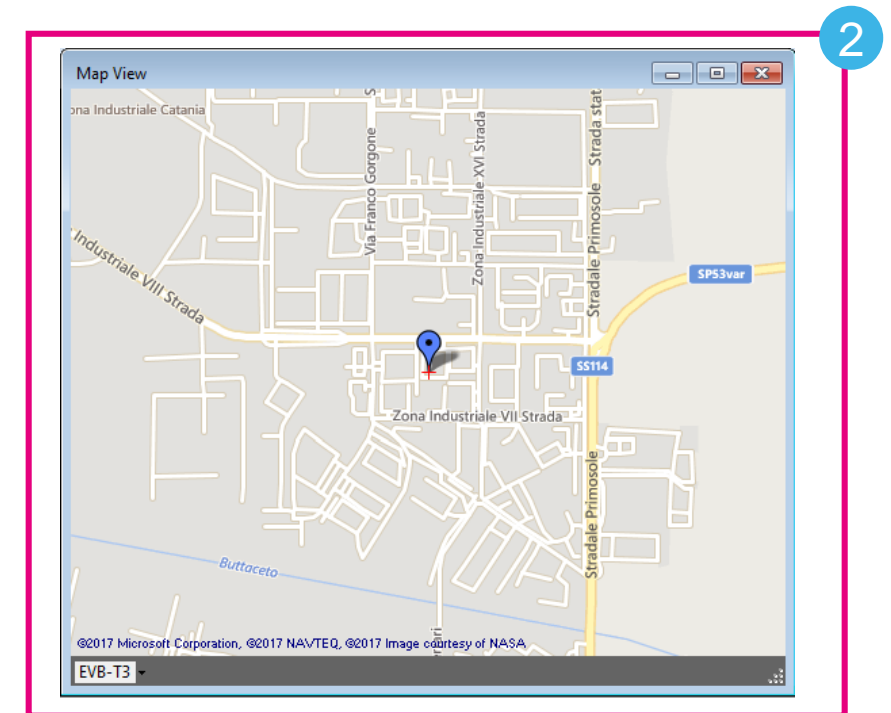
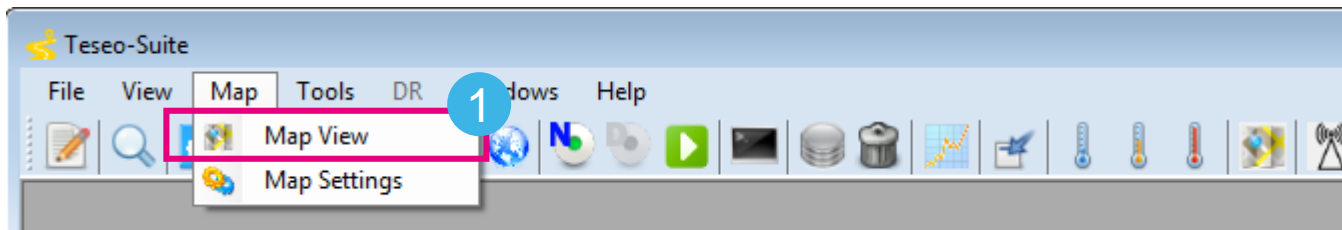
NMEA Stream





# Map view

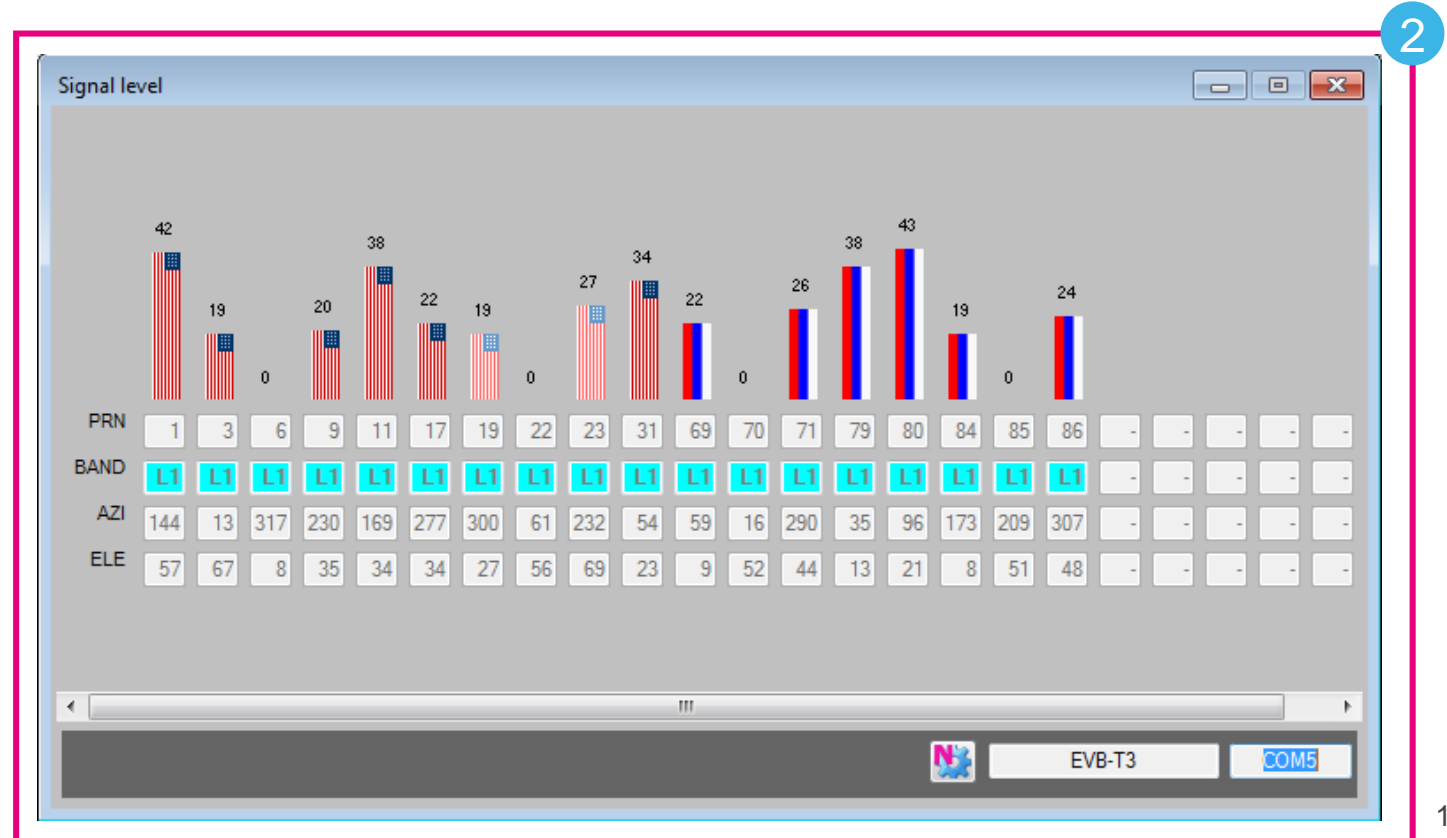
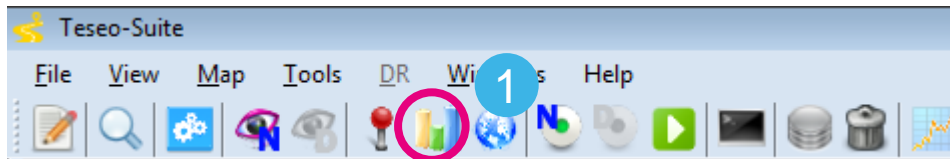
- 1 Click-on '**Map View**' button in the menu
- 2 Inspect the position in the '**Map View**' panel





# 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

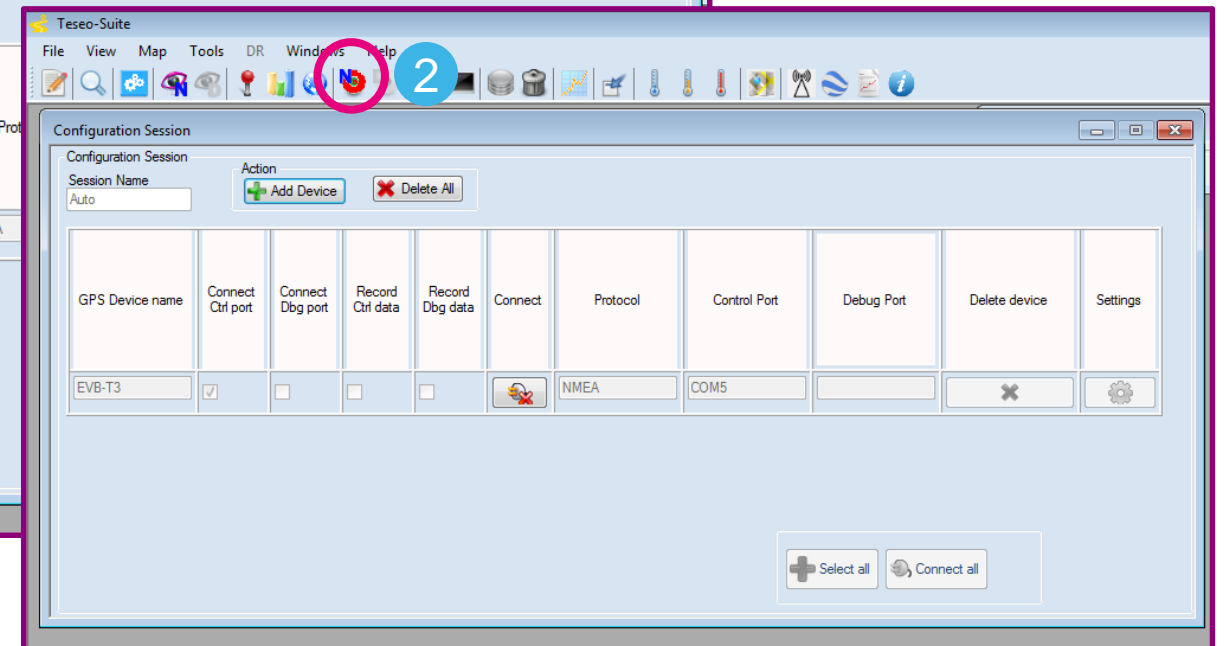
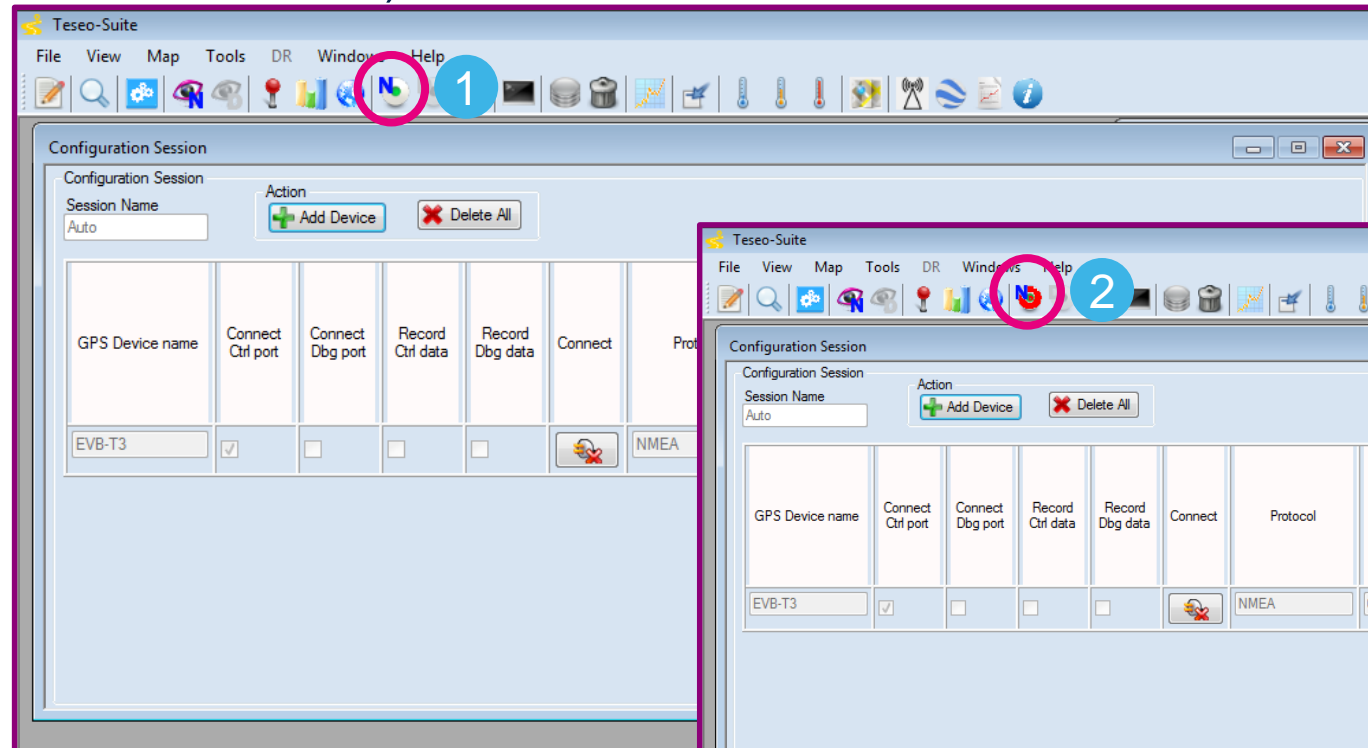






# Record a NMEA log session

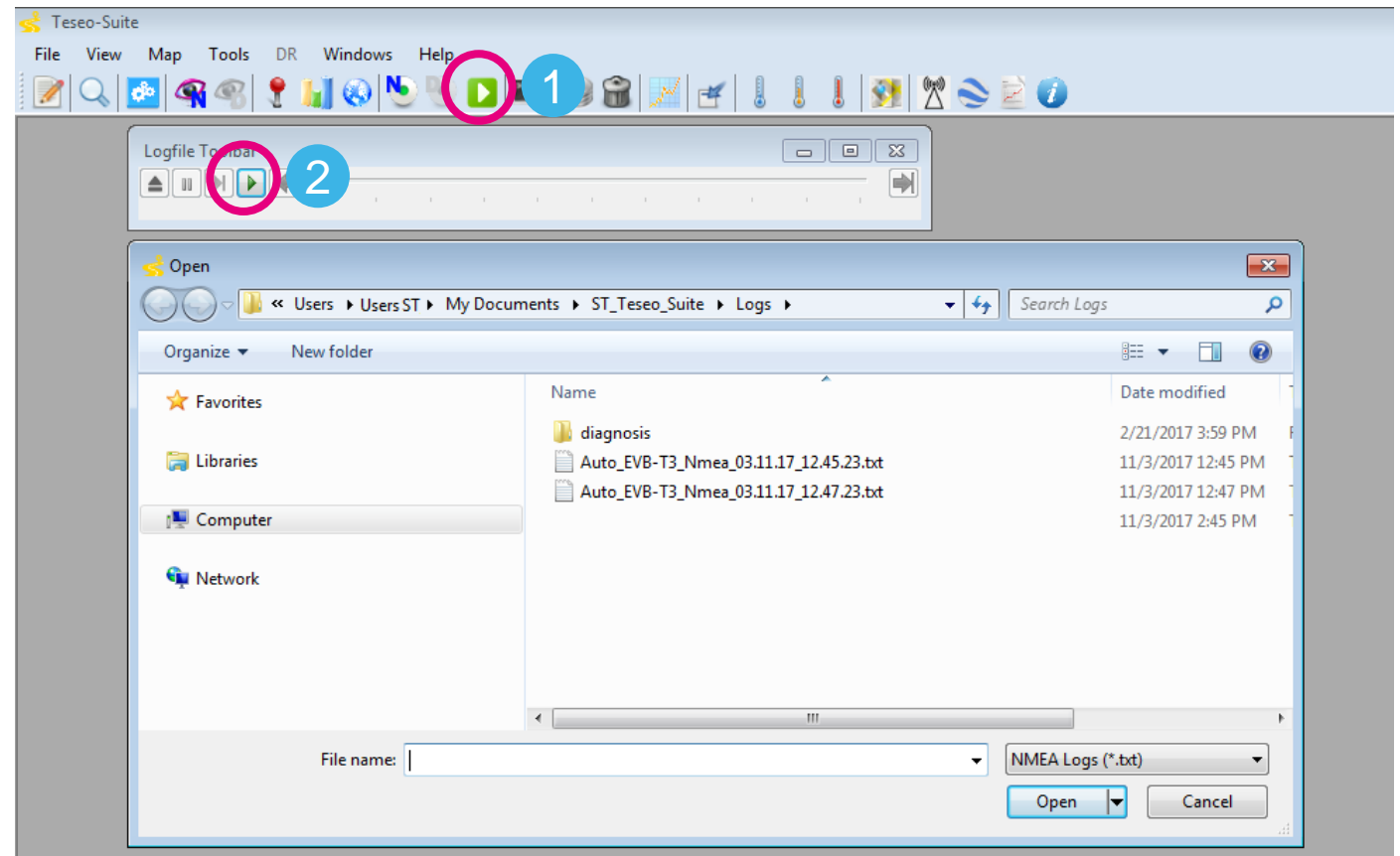
- 1 To start log session, click-on '**Start/Stop Record Control Port**' button in the menu (button turns red)
- 2 To stop a log session, click-on '**Start/Stop Record Control Port**' button in the menu (button turns white)





# Play a NMEA log session [1/4]

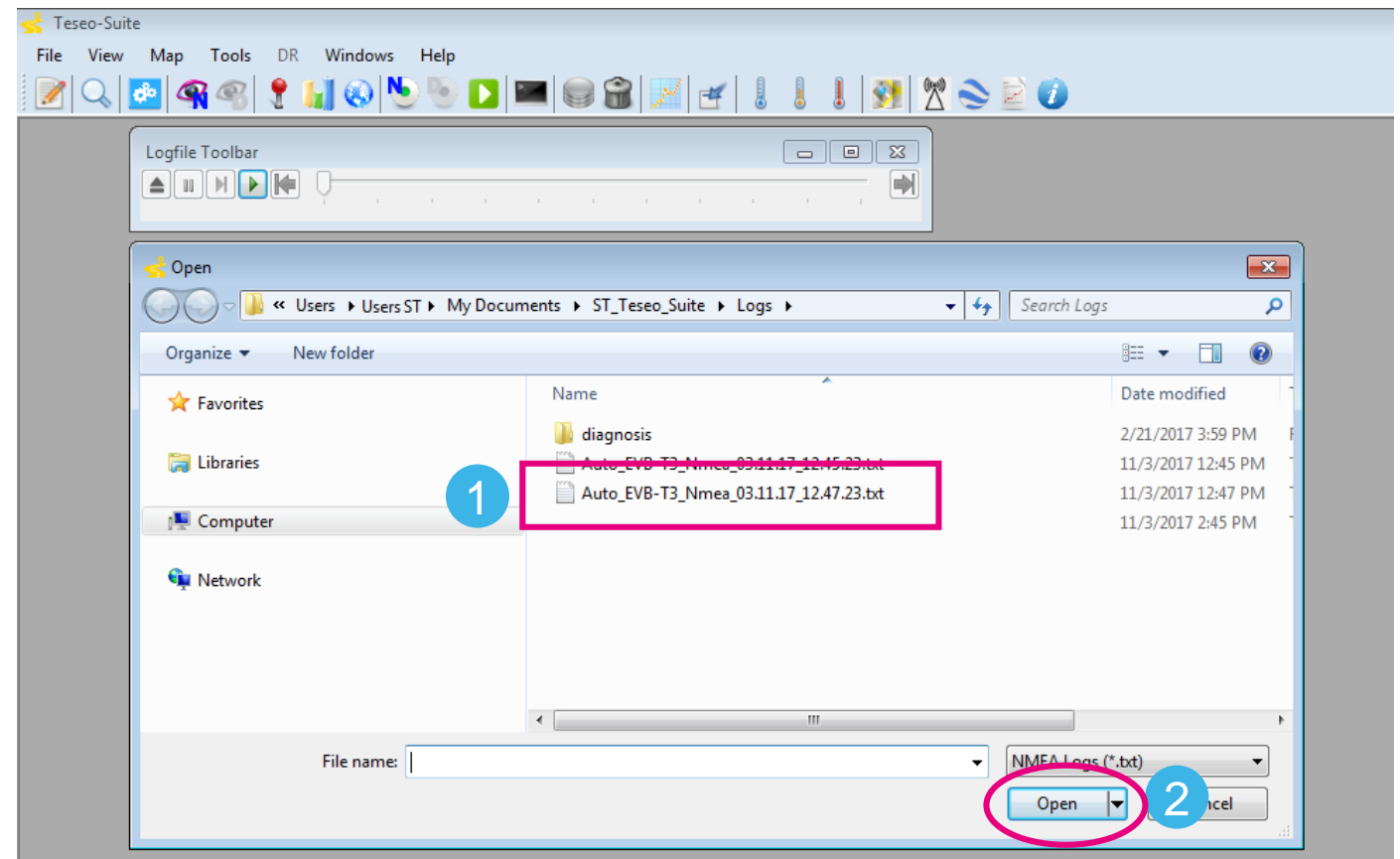
- 1 Click-on '**Player**' button in the menu (the Logfile Toolbar panel will appear)
- 2 Click-on '**Play**' button in the Logfile Toolbar (the 'Open' dialog will appear)





# Play a NMEA log session [2/4]

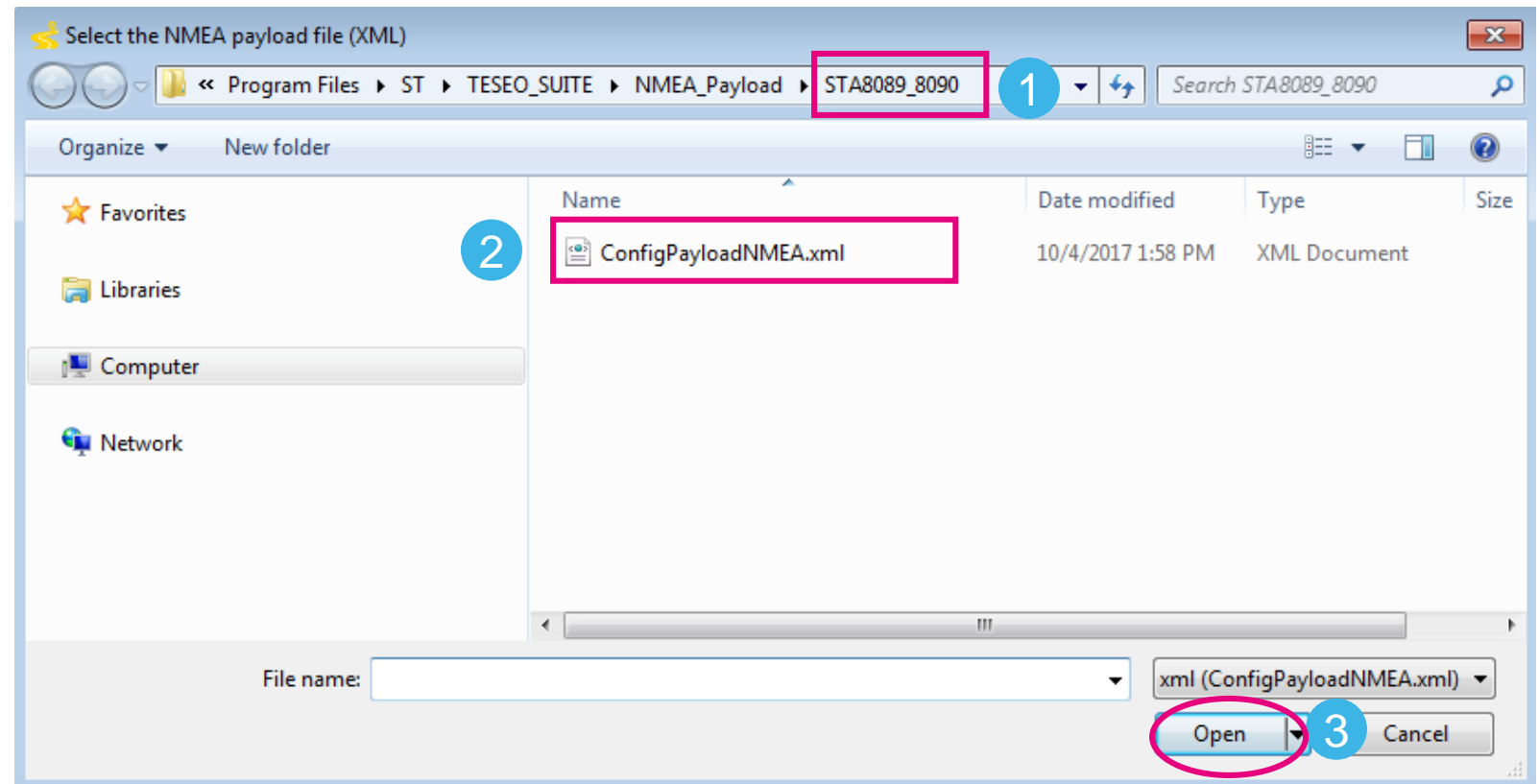
- 1 In the 'Open' dialog select the log to play
- 2 Click-on '**Open**'





# Play a NMEA log session [3/4]

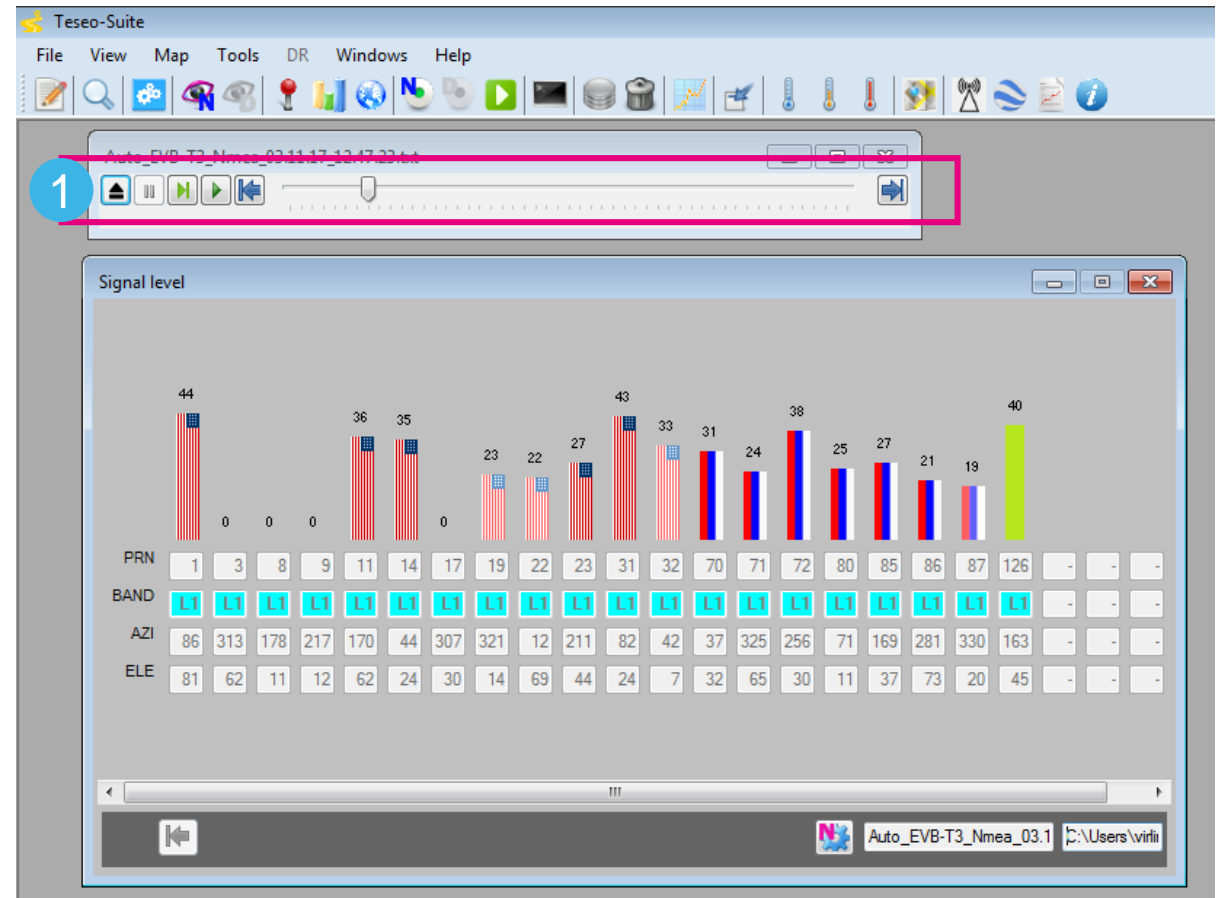
- 1 In the 'Select the NMEA payload' folder based on the GNSS IC used
- 2 In the 'ConfigPayloadNMEA.xml' file
- 3 Push 'Open'





# 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





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# Advanced features - Contents

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Update Boot and GNSSLib

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Update GNSSLib only

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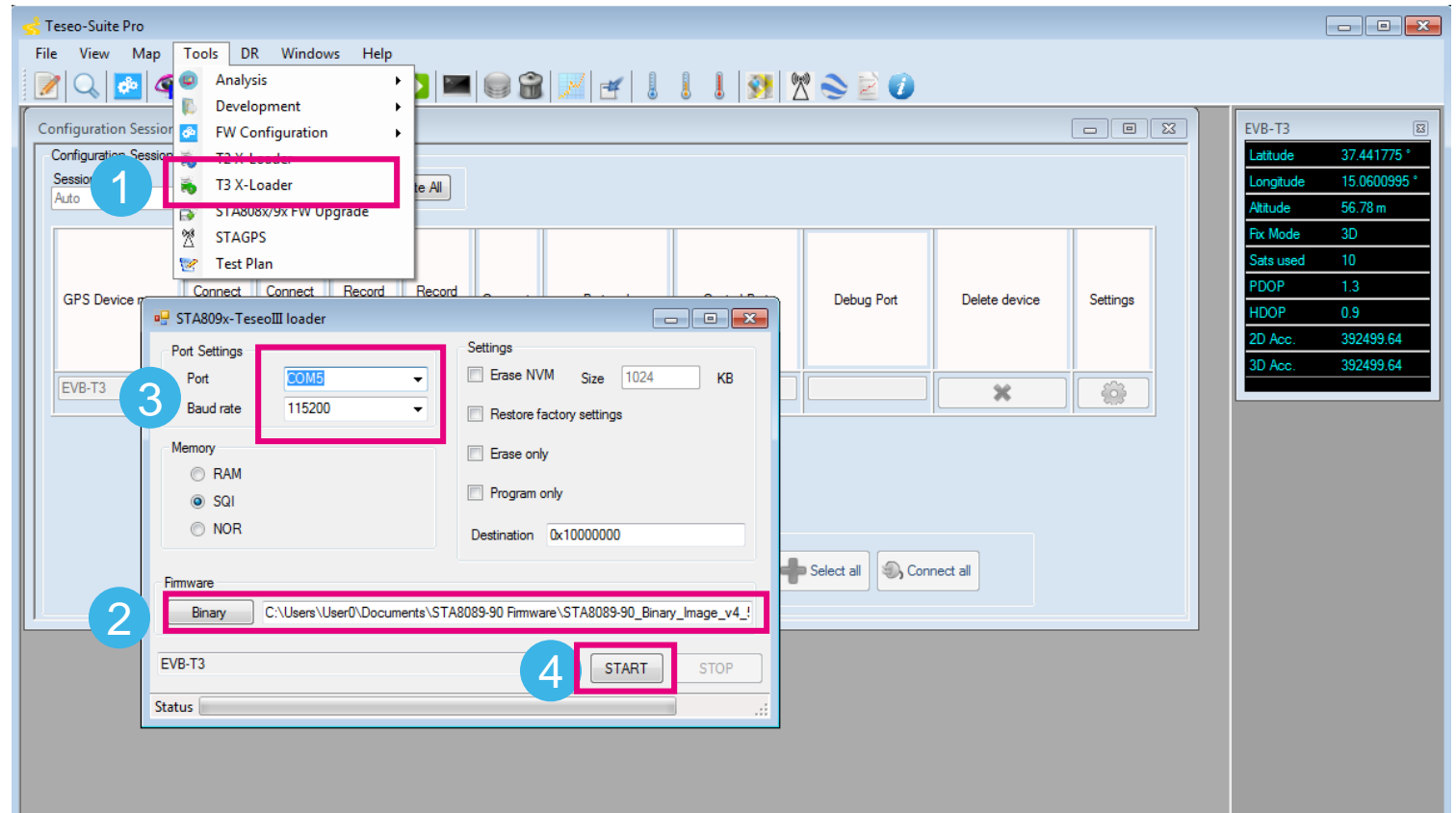
Firmware configuration



Teseo Suite  
Un-Locked

# 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

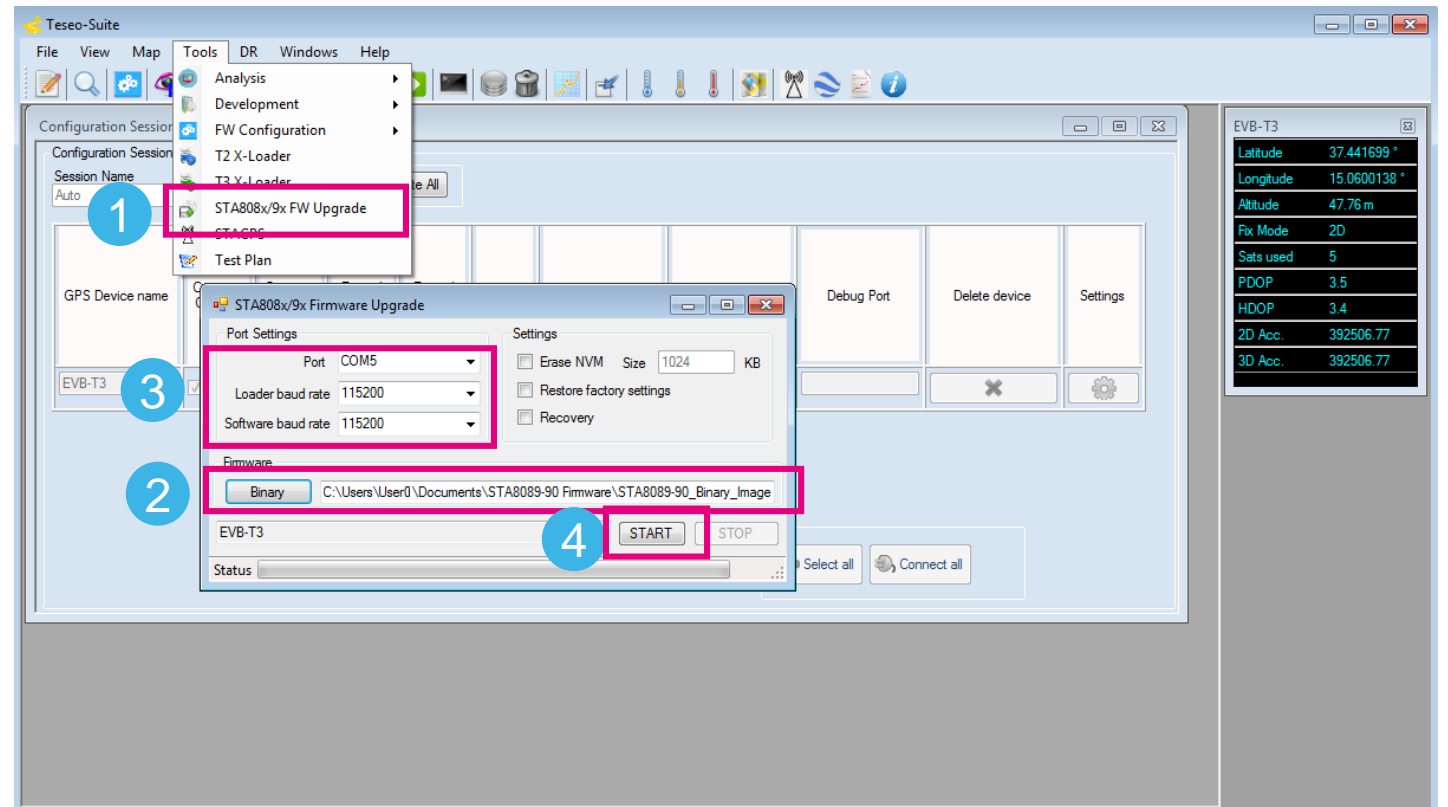






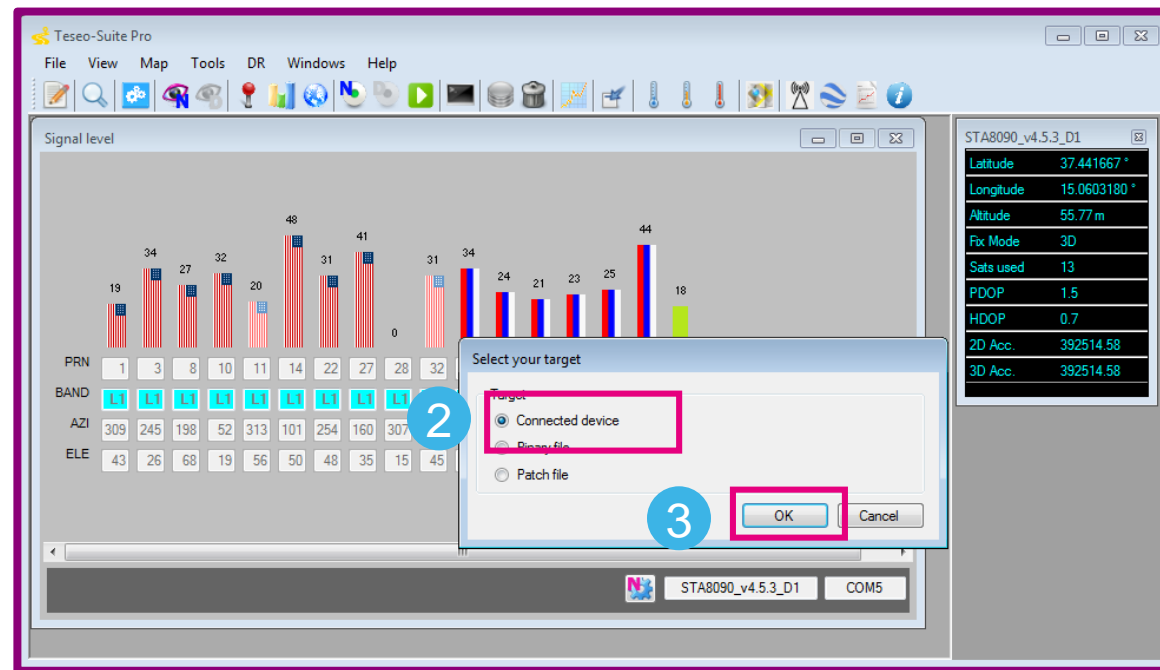
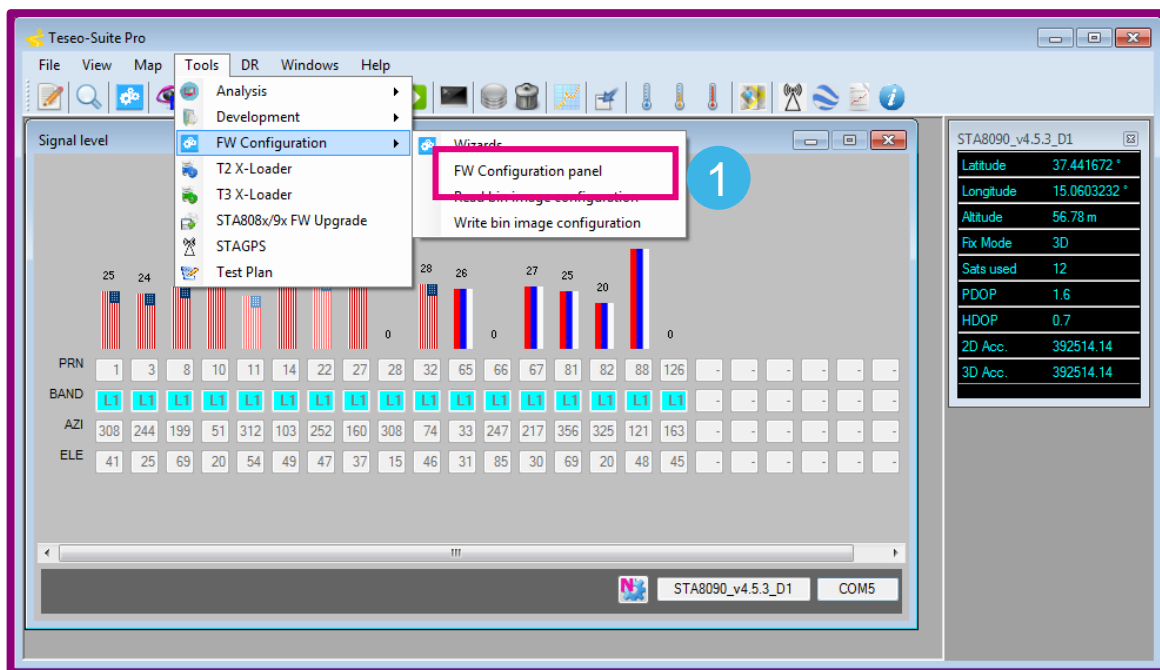
# Update gnss-lib

- 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



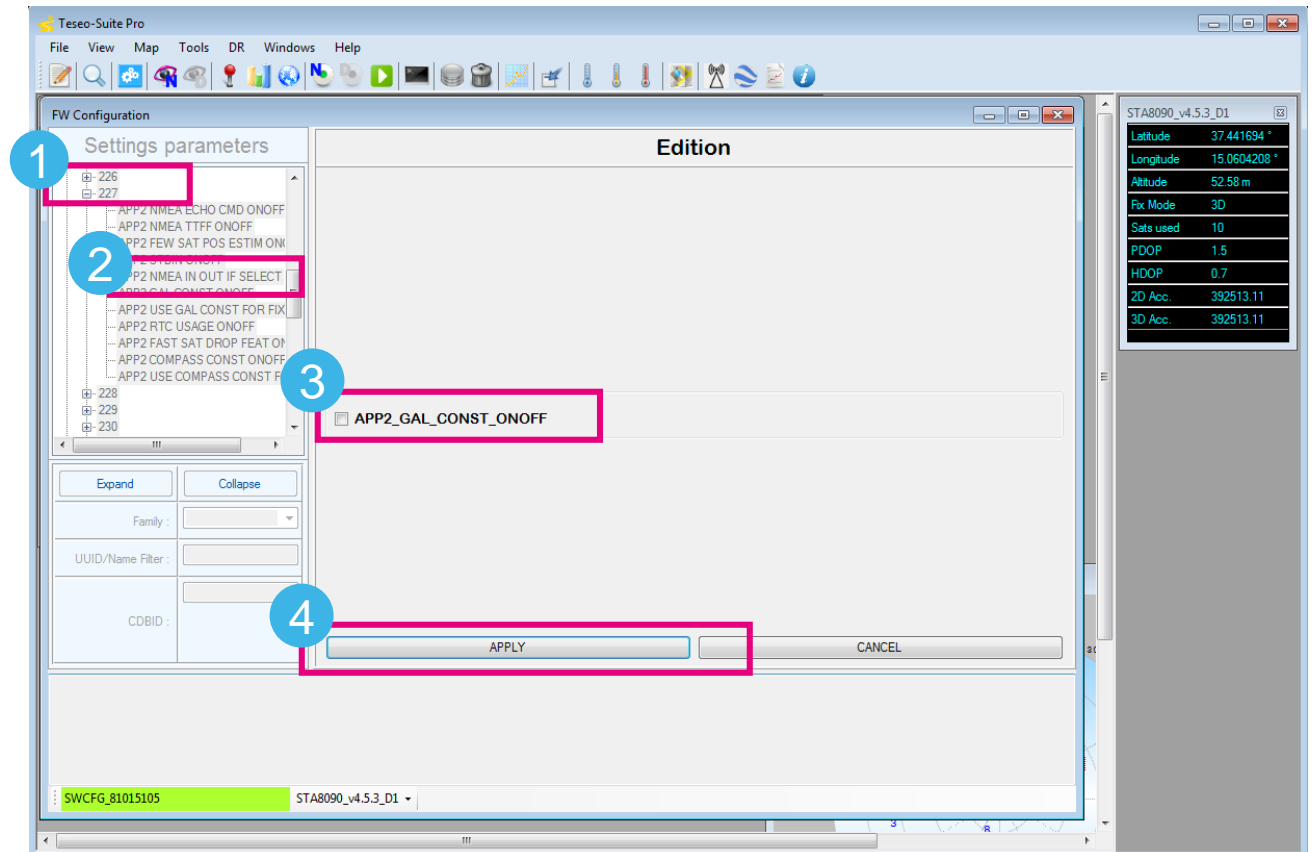
# Firmware configuration [1/2]

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



# 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





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# Documents & related resources

All documents are available on:  
[www.st.com](http://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

The screenshot displays the ST Teseo website with several key sections highlighted by red boxes:

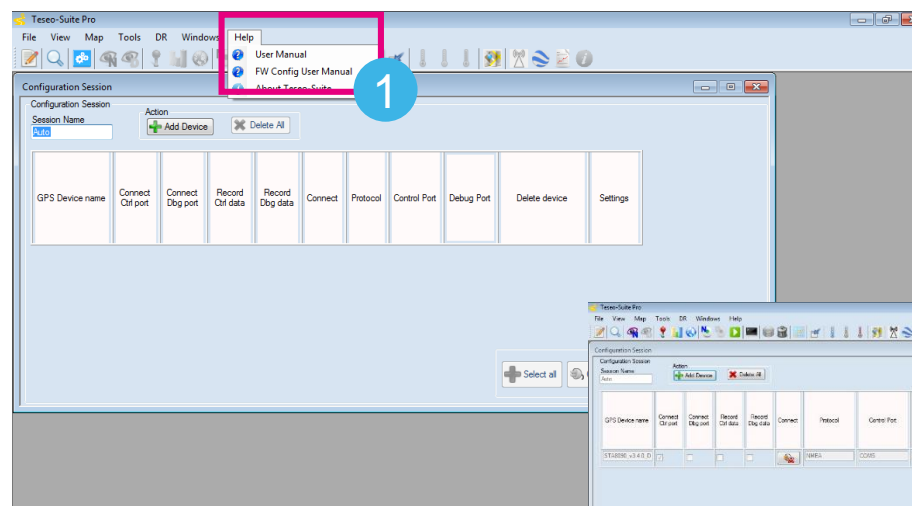
- GNSS ICs:** This section provides an overview of the Teseo family of GNSS ICs, highlighting their high positioning accuracy and indoor sensitivity. It mentions the Teseo III as the latest generation, offering reduced power consumption and carrier-phase tracking for higher accuracy. A table below lists various IC models (e.g., WLDP77, QN56, BG49) and their features, such as "Sealed footprint and lowest cost" or "Automotive grade".
- TESEO-SUITE:** This section describes the PC software tool used to manage, configure, and evaluate the performance of Teseo GNSS solutions. It lists key features like multiple GNSS tracers, protocol support, and NMEA logging. A "Download Databrief" link is provided.
- EVB-T3:** This section introduces the Teseo III evaluation board, a complete standalone platform for testing and development. It details the board's features, including its ARM945 microprocessor, USB, SPI, I2C, UART, and CAN interfaces. A "Download Databrief" link is also present.

The bottom of the page shows a "Technical Documentation" section with a table of documents, including the "DB3224 PC GUI software" and the "SLA0056 Software license agreement".



# 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

