





# Quick start guide - Contents

1	Introduction
2	Basic commands
3	Advanced features
4	Documents & related resources



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# Install Teseo-Suite

**Teseo-Suite** is a powerful PC Tool able to manage the ST Teseo III, V and VI GNSS solutions and modules.

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 product page for Teseo-Suite on the ST website. The navigation bar includes the ST logo, a search icon, and menu items for Products, Tools & software, Applications, Solutions, ST Developer Zone, and About us. The breadcrumb trail reads: Embedded software > Automotive infotainment and telematics software > TESEO-SUITE >. The product name 'TESEO-SUITE' is displayed with an 'ACTIVE' status and a 'Save to my ST' button. The main heading is 'PC software tool to manage, configure and evaluate the performances of Teseo GNSS family'. Below this are two buttons: 'Get Software' and 'Download databrief'. A secondary navigation bar shows 'Overview' (selected), 'Documentation', and 'Tools & Software'. The 'Product overview' section has tabs for 'Description', 'All features', 'Get Software', and 'Featured Videos'. The 'Description' tab is active, showing a paragraph: 'ST TESEO-SUITE is a powerful PC Tool able to manage all the capabilities of ST Teseo GNSS solution. It is able to manage more ST Teseo GNSS solutions in parallel. On each ST TESEO GNSS solution the Teseo Suite is able to read, modify and save the configuration. NMEA sentences logging and analysis supported. NMEA message-list configurable per port.' Below this is the 'All features' section with a bulleted list: 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, and Log viewer.



# Install VCP driver

ST's Teseo III, Teseo V, Teseo VI and Teseo Modules 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: <https://www.silabs.com/software-and-tools/usb-to-uart-bridge-vcp-drivers?tab=downloads>

- TeseoIII EVBs and modules

or

- FTDIChip: <https://ftdichip.com/drivers/vcp-drivers/>

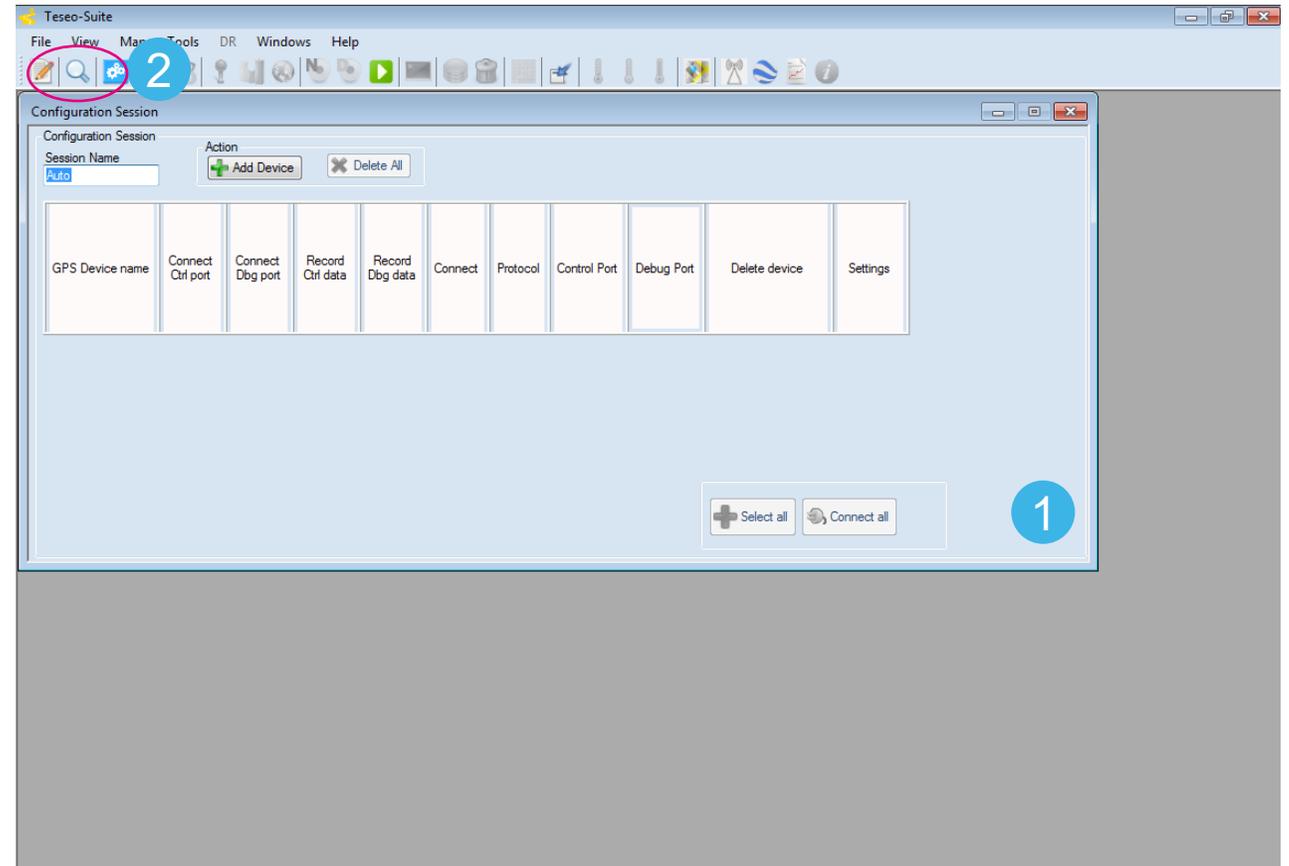
- TeseoV EVBs
- TeseoVI EVBs and modules



# Start application – Device autodetection [1/2]

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

2 Detect automatically the connected Teseo Devices (according to the defined Automatic Port detection option)





# Start application – Device autodetection [2/2]

1 Open Preferences panel from File → Preferences or Ctrl+P

2 Default settings for Teseo V

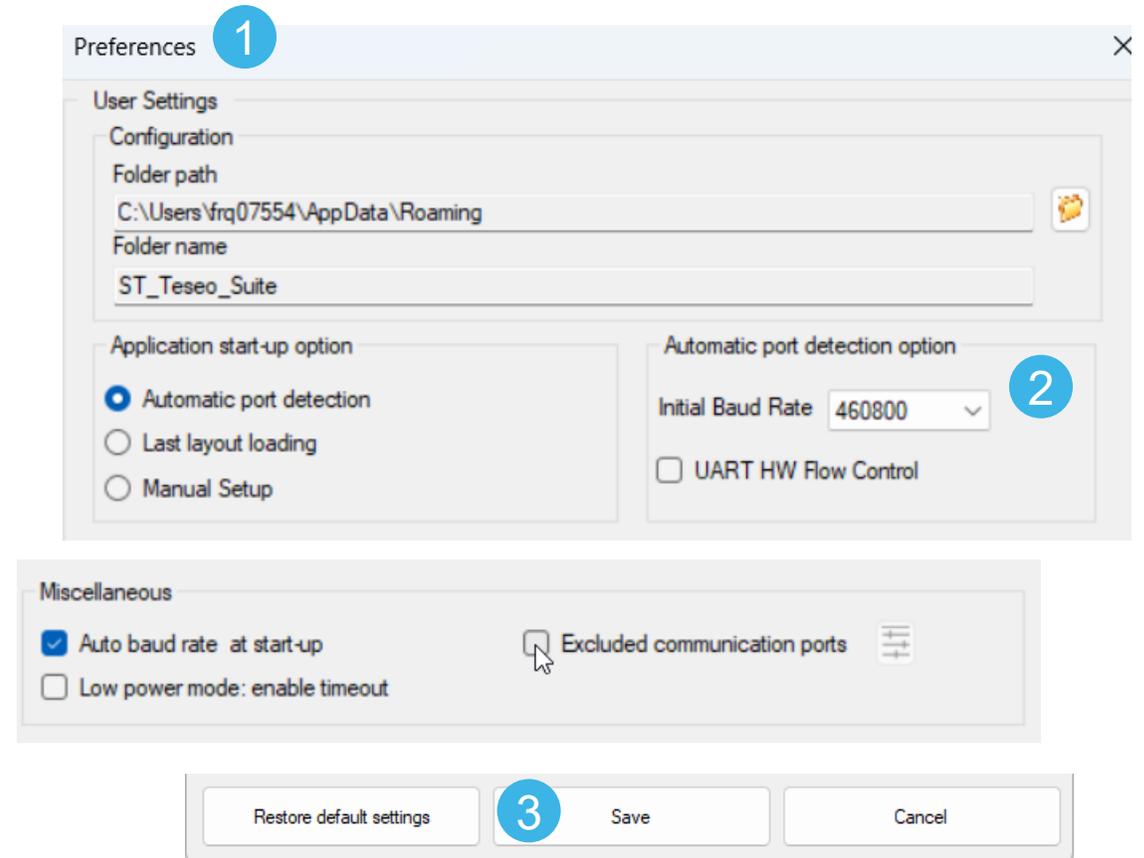
- 460800
- No UART HW Flow Control

Default settings for Teseo VI

- 3000000
- UART HW Flow Control

NOTE: it's possible to exclude COM ports to speed-up autodetection in case many are listed on your PC

3 Save and restart autodetection 🔍

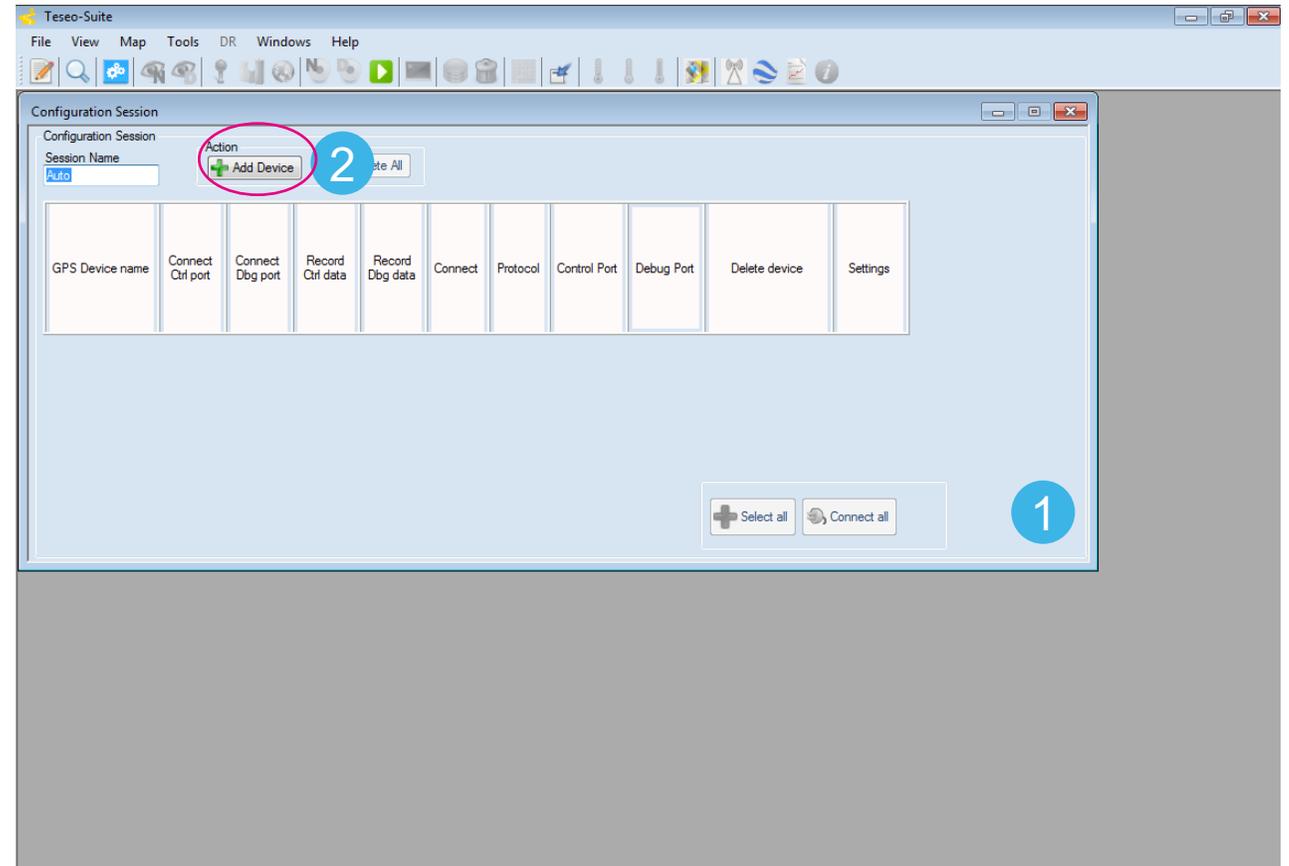




# Start application – Manual device configuration

1 Configuration Session panel for manual device management

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



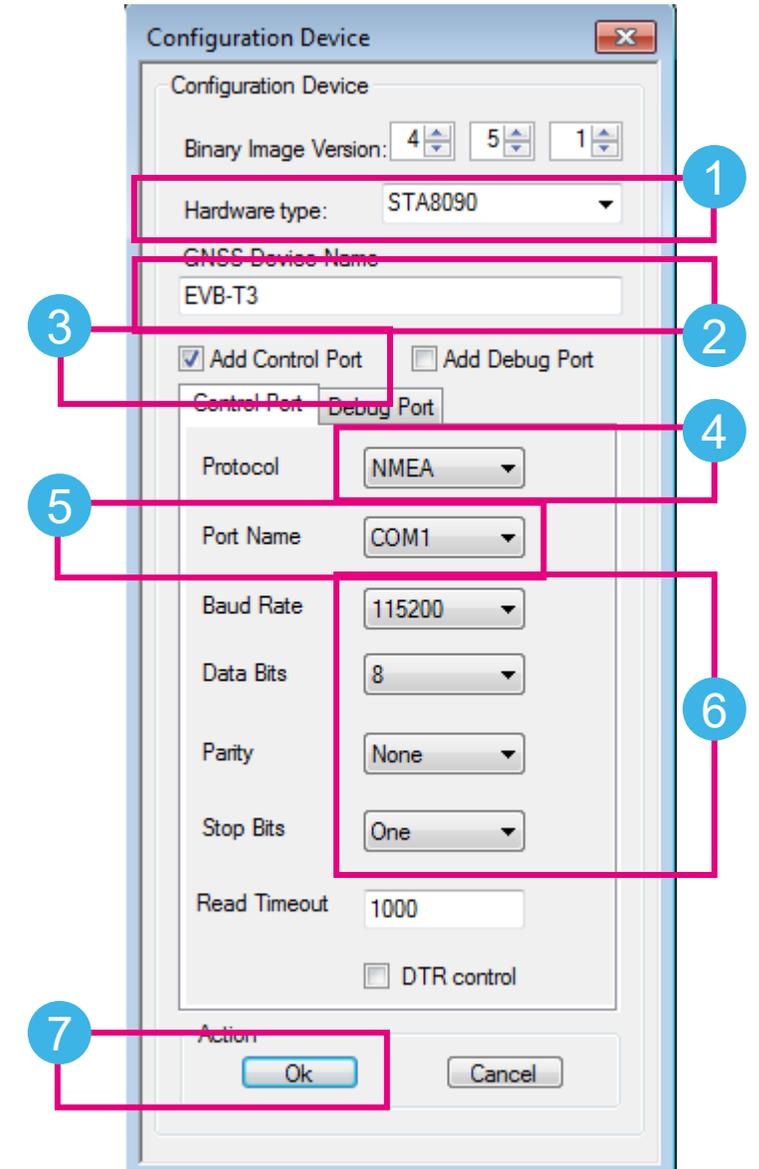


# Configuration device – Teseo III example

- 1 Set the Hardware type: **TESEO3\_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	Options
115200 bps	8 Bits	1 Bit	none	none

- 7 Click-on the Ok button





# Configuration device – Teseo VI example

- 1 Set the Hardware type: **TESEO6**
- 2 Set the GNSS Device Name of your choice
- 3 Enable Add Control Port
- 4 Set the Protocol: **RTCM 3.5**
- 5 Set the Port Name: according to the discovered on the PC
- 6 Configure the port as following table:
- 7 Click-on the Ok button

Baud rate	Data Bits	Stop Bits	Parity	Options
3000000 bps	8 Bits	1 Bit	none	HW Flow control

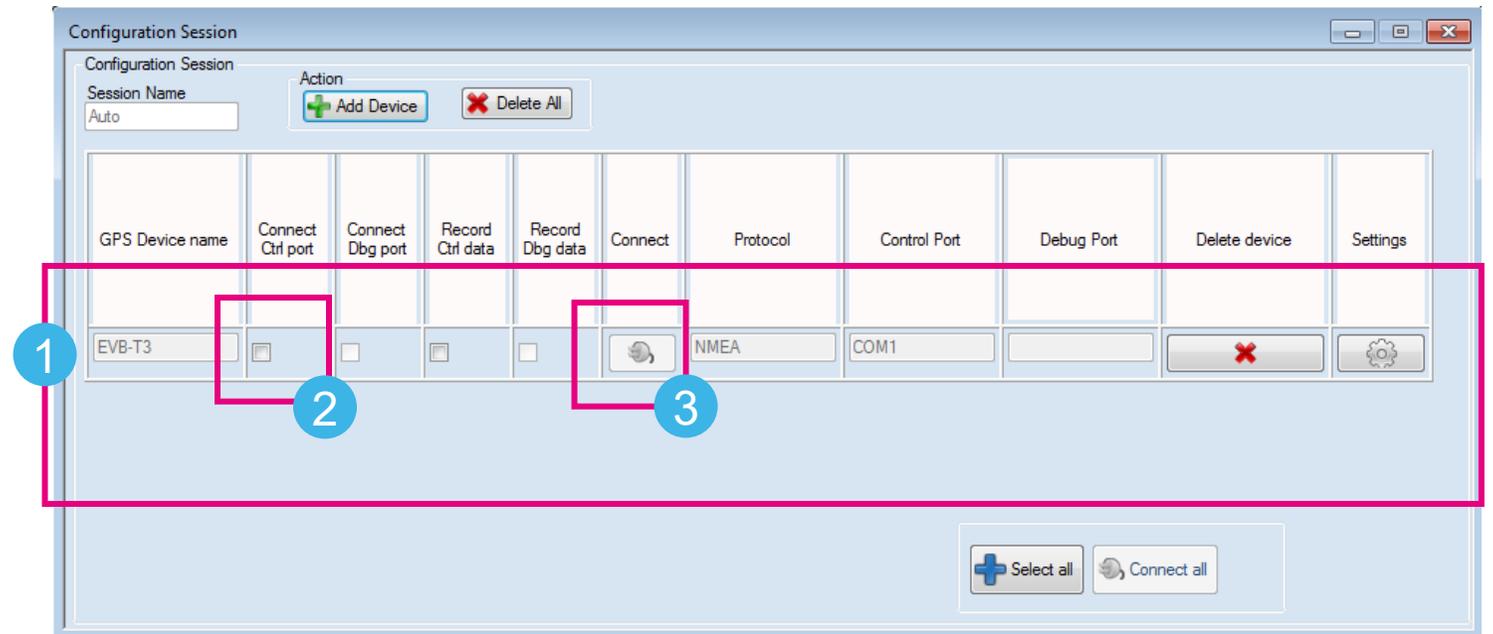
The screenshot shows the 'Rover configuration' dialog box with the following settings highlighted by numbered callouts:

- 1: Hardware type: TESEO6
- 2: GNSS Device Name: TESEO6\_v6.5.1\_D1
- 3: Add Control Port (checked)
- 4: Protocol(s): RTCM 3.5 (checked)
- 5: Port Name: COM42
- 6: Port configuration settings: Baud Rate (3000000), Data Bits (8), Parity (None), Stop Bits (One), Read Timeout (1000), and HW Flow control (checked).
- 7: Action: 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 or RTCM Decoding panel is shown
- 3 NMEA or RTCM Stream can be viewed and inspected



2

2

type	msg id	Counter	Period	Time	Previous Time
ST Proprietary: RSS	1	363	95 ms	15:21:44	15:21:44
ST Proprietary: POSQM	5	364	111 ms	15:21:44	15:21:44
ST Proprietary: OBSQM	6	363	95 ms	15:21:44	15:21:44
ST Proprietary: ICB	7	4	10.0 s	15:21:42	15:21:32
ST Proprietary: IFB	8	364	111 ms	15:21:44	15:21:44
ST Proprietary: IONOPAR	9	9	10.0 s	15:21:37	15:21:27
ST Proprietary: STDTM	17	364	111 ms	15:21:44	15:21:44
ST Proprietary: EPVT	21	363	111 ms	15:21:44	15:21:44
ST Proprietary: RFS	24	36	1.0 s	15:21:44	15:21:43
ST Proprietary: FWVER	25	1	360.0 s	15:21:13	15:15:13
ST Proprietary: SIGQM2	26	1451	95 ms	15:21:44	15:21:44
ST Proprietary: IFBDATA	27	363	111 ms	15:21:44	15:21:44
ST Proprietary: STGSV	28	1452	111 ms	15:21:44	15:21:44
ST Proprietary: STGSA	29	1816	111 ms	15:21:44	15:21:44
ST Proprietary: STGST	30	363	111 ms	15:21:44	15:21:44
ST Proprietary: STGBS	31	363	111 ms	15:21:44	15:21:44
ST Proprietary: STGRS	32	1452	111 ms	15:21:44	15:21:44
ST Proprietary: NDF	42	73	239 ms	15:21:44	15:21:44
ST Proprietary: RFAGC	43	36	1.0 s	15:21:44	15:21:43
Stationary RTK Reference Station ARP with Antenna Height	1006	3	10.0 s	15:21:37	15:21:27
System Parameters	1013	4	10.0 s	15:21:42	15:21:32
GPS Ephemerides 61 One message per satellite	1019	48	10.0 s	15:21:37	15:21:27
RTCM Data	1020	51	10.0 s	15:21:37	15:21:27

Message Filter

- \$BDDTM
- \$BDGGA
- \$BDGLL
- \$BDGNS
- \$BDGSA
- \$BDGST
- \$BDGSV
- \$BDRMC
- \$BDTXT
- \$BDVTG
- \$BDZDA
- \$GADTM
- \$GAGGA
- \$GAGLL
- \$GAGNS
- \$GAGSA
- \$GAGST
- \$GAGSV
- \$GARMC
- \$GATXT
- \$GAVTG
- \$GAZDA
- \$GBDTM

3

```
$GPGSA,A,1,,,,,,,,,,,,,99.0,99.0,99.0*00
$PSTMTG,1822,000480.0003,0,492767158,0,-47122.0000,0000*09
$PSTMSBAS,1,0,124,64,090,00*14
$PSTMSBASMCH,0,124,64,090,00*4F
$PSTMSBASMCH,1,0,0,,,,*42
$PSTMCPU,9.03,-1,196*46
$GPRMC,000745.000,v,0000.00000,N,00000.00000,E,0.0,0.0,0.071214,,,N*71
$GPGGA,000745.000,0000.00000,N,00000.00000,E,0.00,99.0,082.00,M,18.0
$GPGNS,000745.000,0000.00000,N,00000.00000,E,N,00,99.0,0082.0,18.0,,
$GPVTG,0.0,T,M,0.0,N,0.0,K,N*02
$GPGST,000745.000,0.0,0.0,0.0,0.0,-0.0,0.0,0.0,0.0*4C
$GPGSA,A,1,,,,,,,,,,,,,99.0,99.0,99.0*00
$PSTMTG,1822,000481.0002,0,493790167,0,-47122.0000,0000*0C
$PSTMSBAS,1,0,124,64,090,00*14
$PSTMSBASMCH,0,124,64,090,00*4F
$PSTMSBASMCH,1,0,0,,,,*42
$PSTMCPU,7.32,-1,196*4a
$GPRMC,000746.000,v,0000.00000,N,00000.00000,E,0.0,0.0,0.071214,,,N*72
$GPGGA,000746.000,0000.00000,N,00000.00000,E,0.00,99.0,082.00,M,18.0
$GPGNS,000746.000,0000.00000,N,00000.00000,E,N,00,99.0,0082.0,18.0,,
$GPVTG,0.0,T,M,0.0,N,0.0,K,N*02
$GPGST,000746.000,0.0,0.0,0.0,0.0,-0.0,0.0,0.0,0.0*4F
$GPGSA,A,1,,,,,,,,,,,,,99.0,99.0,99.0*00
$PSTMTG,1822,000482.0030,0,494816072,0,-47122.0000,0000*0D
$PSTMSBAS,1,0,124,64,090,00*14
$PSTMSBASMCH,0,124,64,090,00*4F
$PSTMSBASMCH,1,0,0,,,,*42
$PSTMCPU,9.43,-1,196*42
```

Decoding

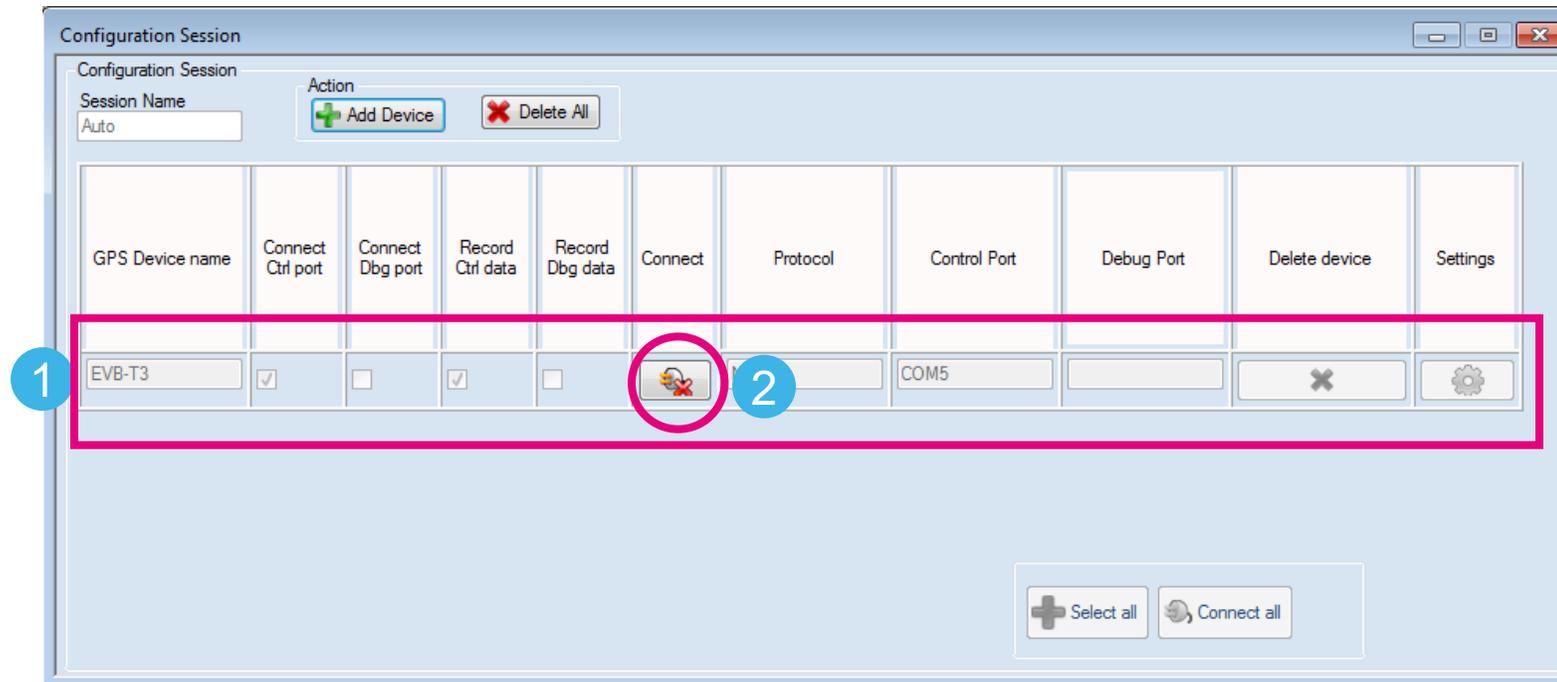
\$BDDTM  Follow last frame received

Label	Value
Local datum code	---
Local datum code ID	---
Latitude offset	---
N/S	---
Longitude offset	---
E/W	---
Altitude offset	---
Reference datum code	---



# Disconnect the device

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





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# Basic commands - Contents

- |   |                        |   |                   |
|---|------------------------|---|-------------------|
| 1 | Send Commands          | 5 | Signal Level      |
| 2 | Filter NMEA messages   | 6 | Record a NMEA Log |
| 3 | RTCM messages decoding | 7 | Play a NMEA Log   |
| 4 | Map View               |   |                   |



# Send commands [1/3]

- 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 reply message in the NMEA Stream

1 Nmea Decoding - EVB-T3

2 NMEA message

3 coding

4

Label	Value
Local datum code	---
Local datum code ID	---
Latitude offset	---
N/S	---
Longitude offset	---
E/W	---
Altitude offset	---
Reference datum code	---



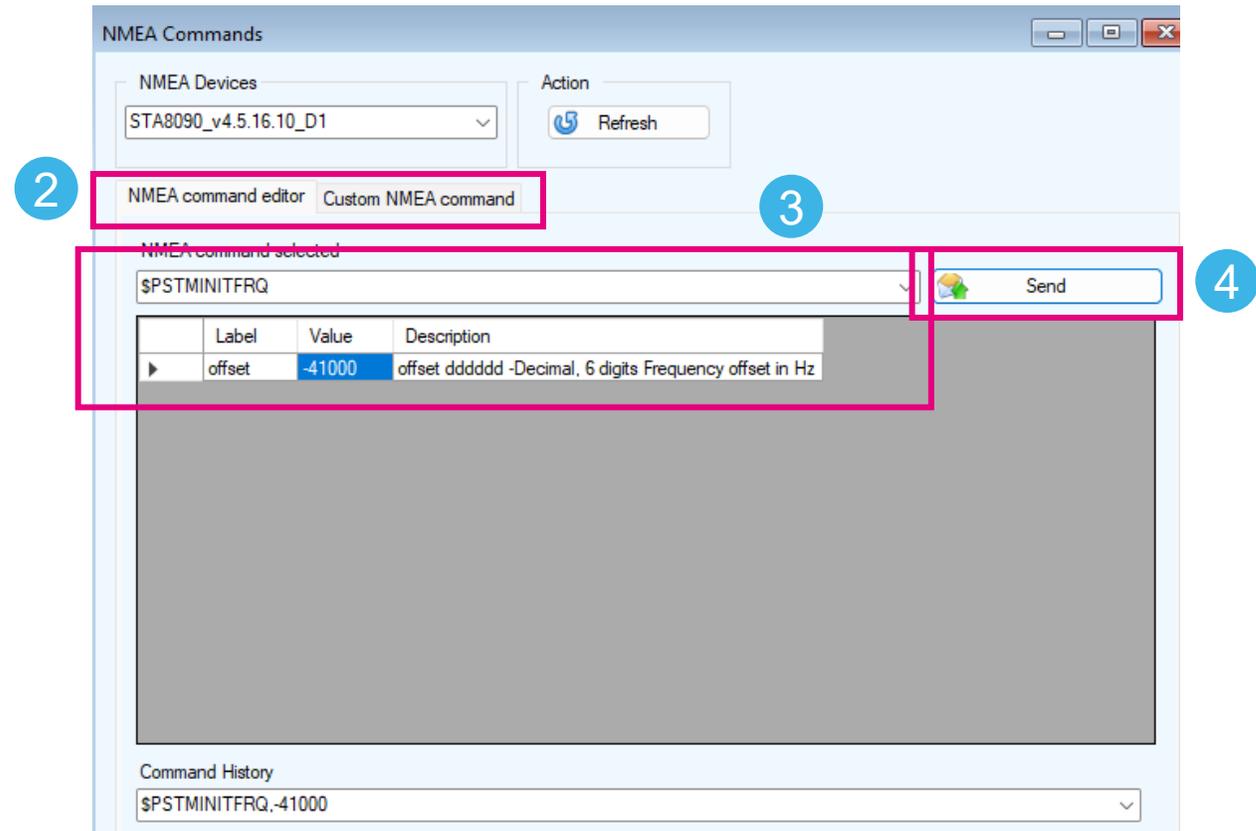
# Send commands [2/3]

1 From main menu, click the 'Send Commands' icon



2 From 'NMEA Commands' panel, it is possible to edit predefined NMEA command or use the Custom NMEA command panel for full manual control

3 Example shown here:  
- Select a predefined command from the list  
- Command fields value are editable



NOTE: in the custom command editor, it is possible to save commands for latter instances



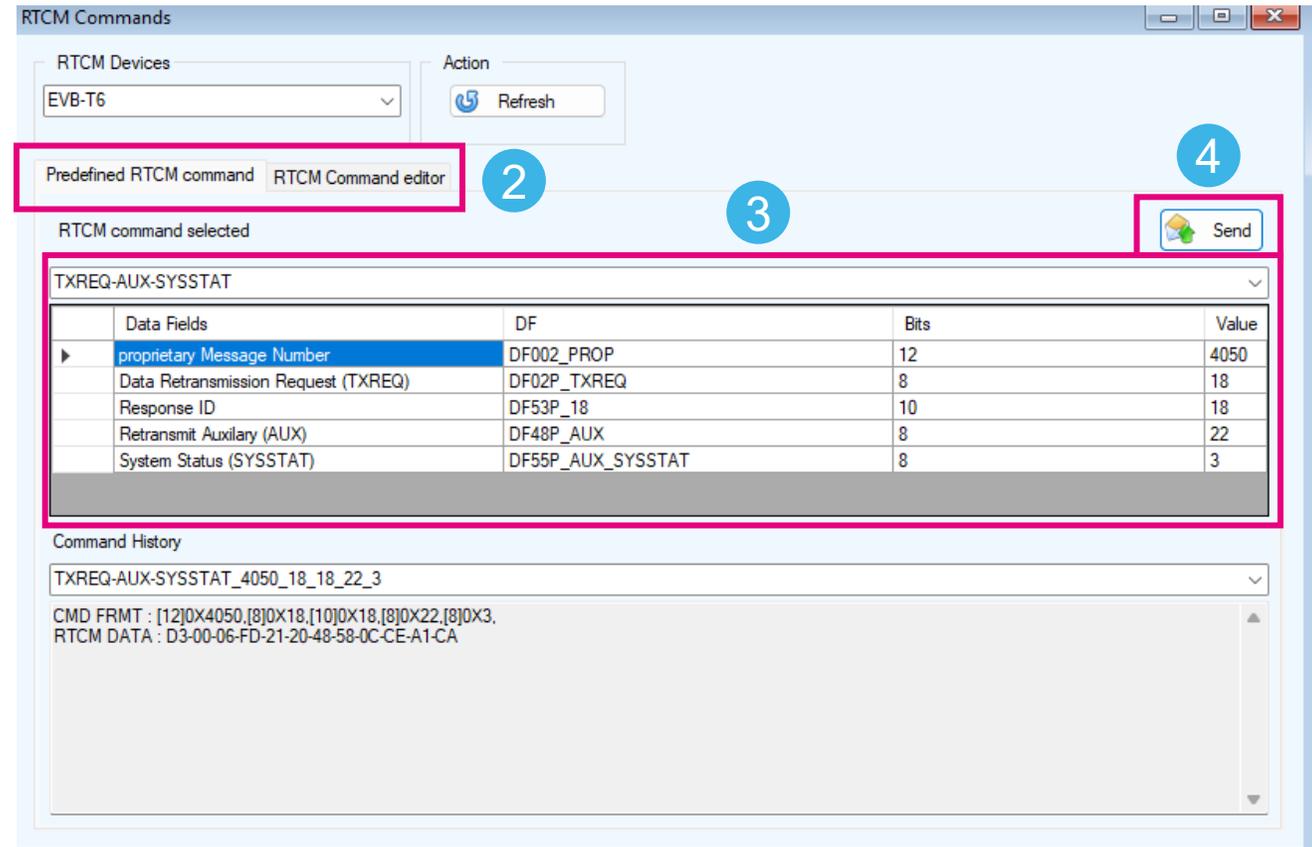
# Send commands [3/3]

1 From main menu, click the 'Send Commands' icon



2 From 'RTCM Commands' panel, it is possible to send Predefined RTCM command or use the RTCM Command editor for full manual control

3 Example shown here:  
- Select a predefined command from the list  
- Command fields value are editable



4 Use the '**Send**' button to raise the command to the device

NOTE: in the custom command editor, it is possible to save commands for latter instances



# Filter NMEA messages

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

NOTE: you can use Pattern field for advanced filtering with regular expressions. For instance, `REGEXP=^/$.GGA,.....[0|5]` will only show GGA sentences every 5 seconds (ending by 0 or 5)

1

2

3

Label	Value
Local datum code	---
Local datum code ID	---
Latitude offset	---
N/S	---
Longitude offset	---
E/W	---
Altitude offset	---
Reference datum code	---



# RTCM Messages decoding [1/2]

- 1 In the 'RTCM monitoring' panel
- 2 Select which ST Proprietary messages to decode by clicking on their 'msg id'

1

3

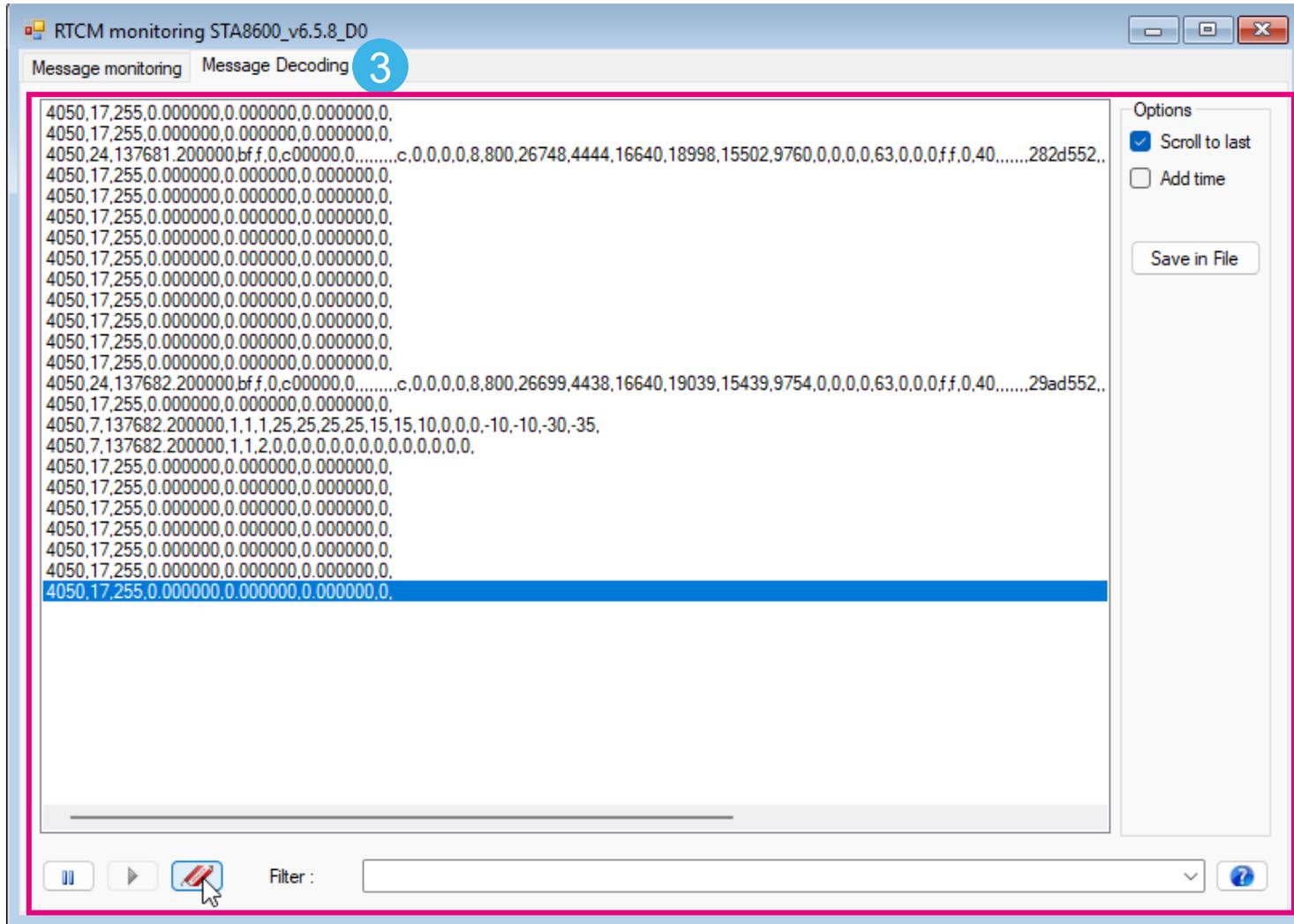
2

type	msg id	Counter	Period	Time	Previous Time
ST Proprietary: RSS	1	4235	112 ms	15:11:08	15:11:07
ST Proprietary: POSQM	5	4235	143 ms	15:11:08	15:11:07
ST Proprietary: OBSQM	6	4235	112 ms	15:11:08	15:11:07
ST Proprietary: ICB	7	4235	10.0 s	15:11:04	15:10:54
ST Proprietary: IFB	8	4234	10.0 s	15:11:09	15:11:07
ST Proprietary: IONOPAR	9	123	10.0 s	15:11:09	15:11:07
ST Proprietary: STDTM	17	4235	143 ms	15:11:08	15:11:07
ST Proprietary: EPVT	21	4234	143 ms	15:11:08	15:11:07
ST Proprietary: AUX	22	1	0 ms	15:04:09	15:04:09
ST Proprietary: RFS	24	423	1.0 s	15:11:07	15:11:06
ST Proprietary: FWVER	25	7	60.1 s	15:10:51	15:09:51
ST Proprietary: SIGQM2	26	14939	112 ms	15:11:08	15:11:07
ST Proprietary: IFBDATA	27	4234	143 ms	15:11:08	15:11:07
ST Proprietary: STGSV	28	14936	143 ms	15:11:08	15:11:07
ST Proprietary: STGSA	29	2170	143 ms	15:11:08	15:11:07
ST Proprietary: STGST	30	4234	143 ms	15:11:08	15:11:07
ST Proprietary: STGBS	31	4234	143 ms	15:11:08	15:11:07
ST Proprietary: STGRS	32	14936	143 ms	15:11:08	15:11:07
ST Proprietary: NDF	42	604	417 ms	15:11:07	15:11:07
ST Proprietary: RFAGC	43	423	1.0 s	15:11:07	15:11:06
Stationary RTK Reference Station ARP with Antenna Height	1006	42	10.0 s	15:11:01	15:10:51
System Parameters	1013	42	10.0 s	15:11:04	15:10:54



# RTCM Messages decoding [2/2]

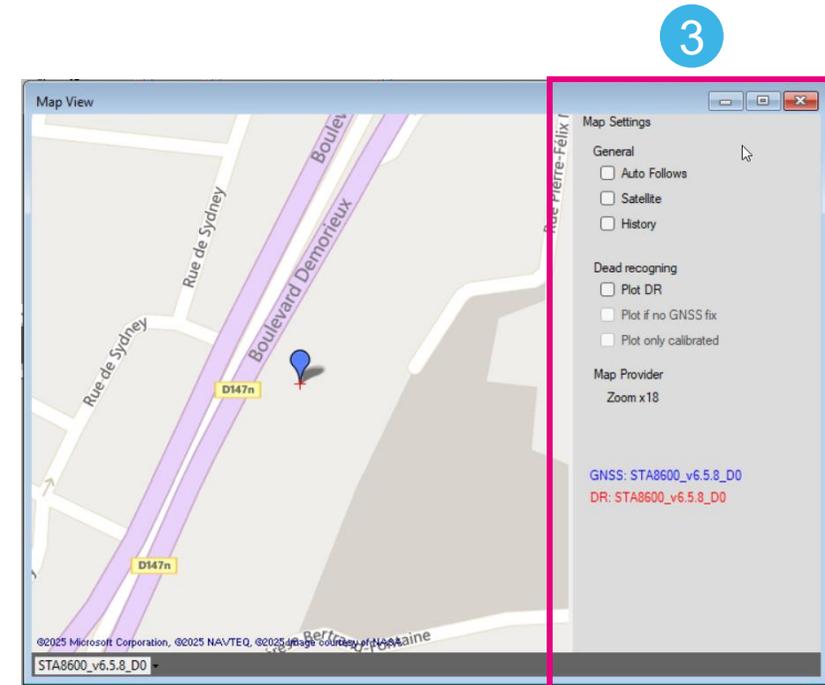
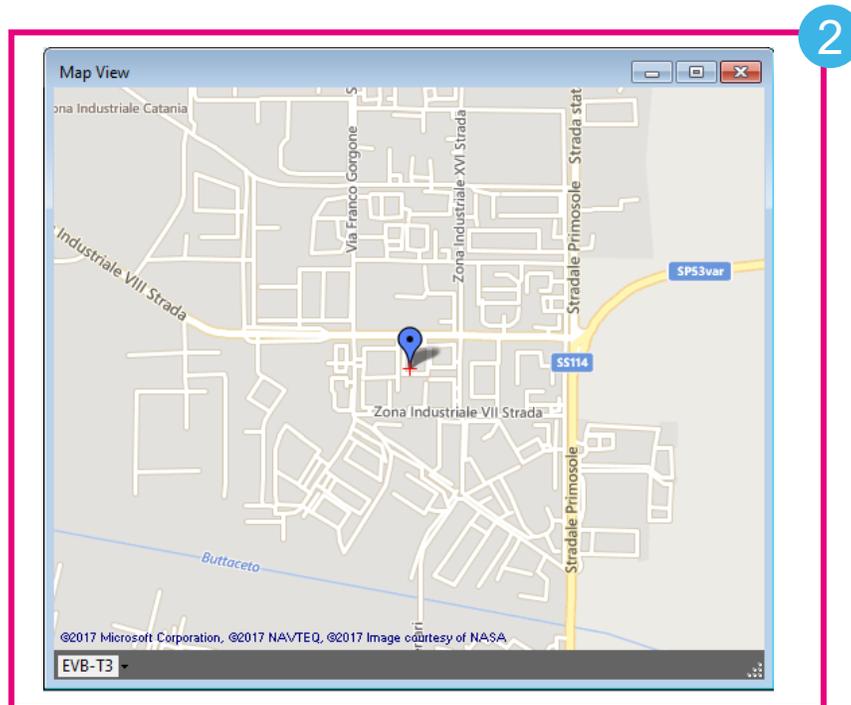
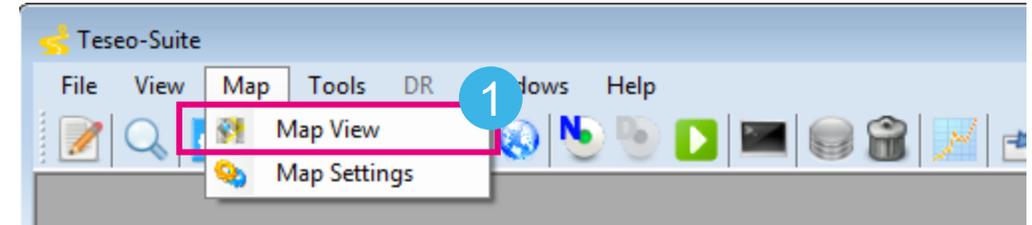
3 Decoded messages are displayed in the 'Message Decoding' tab





# Map view

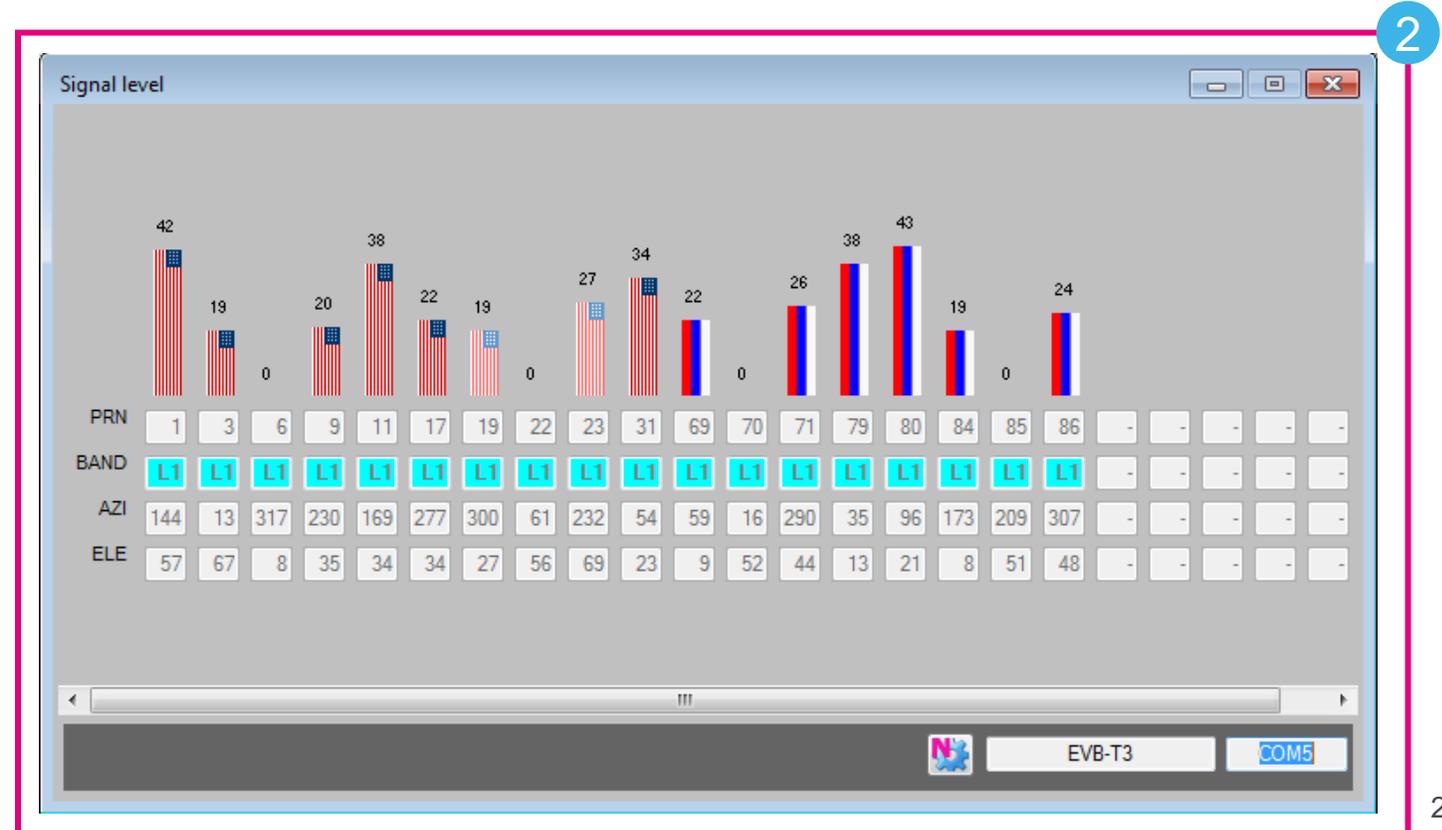
- 1 Click-on '**Map View**' button in the menu
- 2 Inspect the position in the '**Map View**' panel
- 3 Settings panel is available by right-clicking on the map





# Signal levels

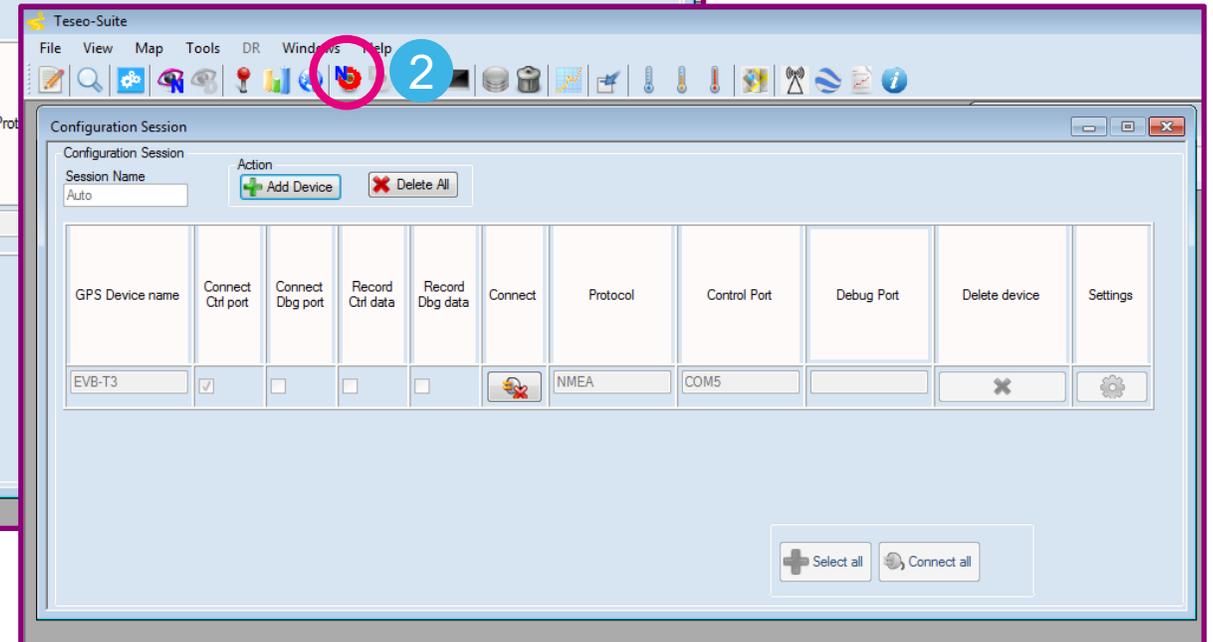
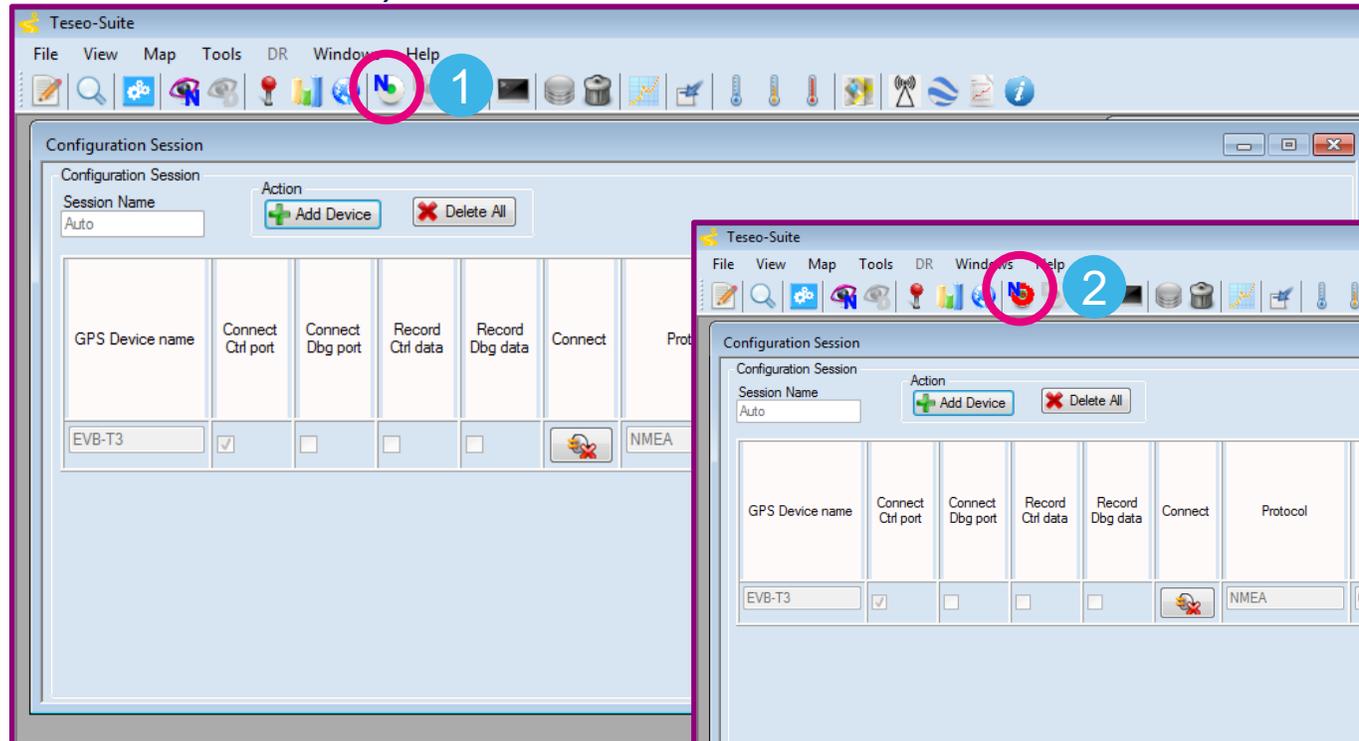
- 1 Click-on '**Signal Level View**' button in the menu
- 2 The '**Signal level**' panel reports all the details for all the seen satellites





# Record a NMEA/RTCM log session

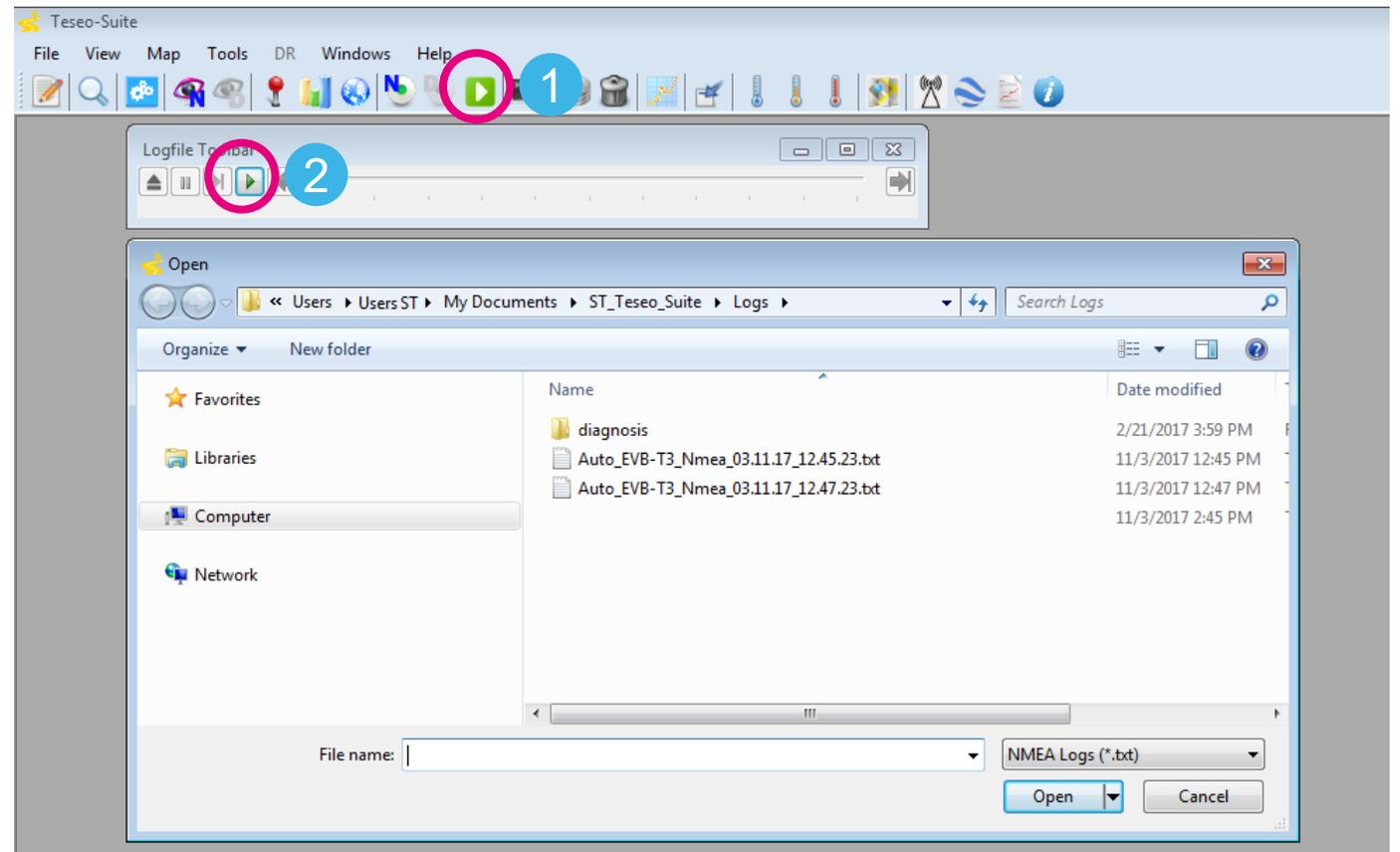
- 1 To start log session, click-on '**Start/Stop Record Control Port**' button in the menu (button turns red)
- 2 To stop a log session, click-on '**Start/Stop Record Control Port**' button in the menu (button turns white)





# Play a NMEA/RTCM log session [1/4]

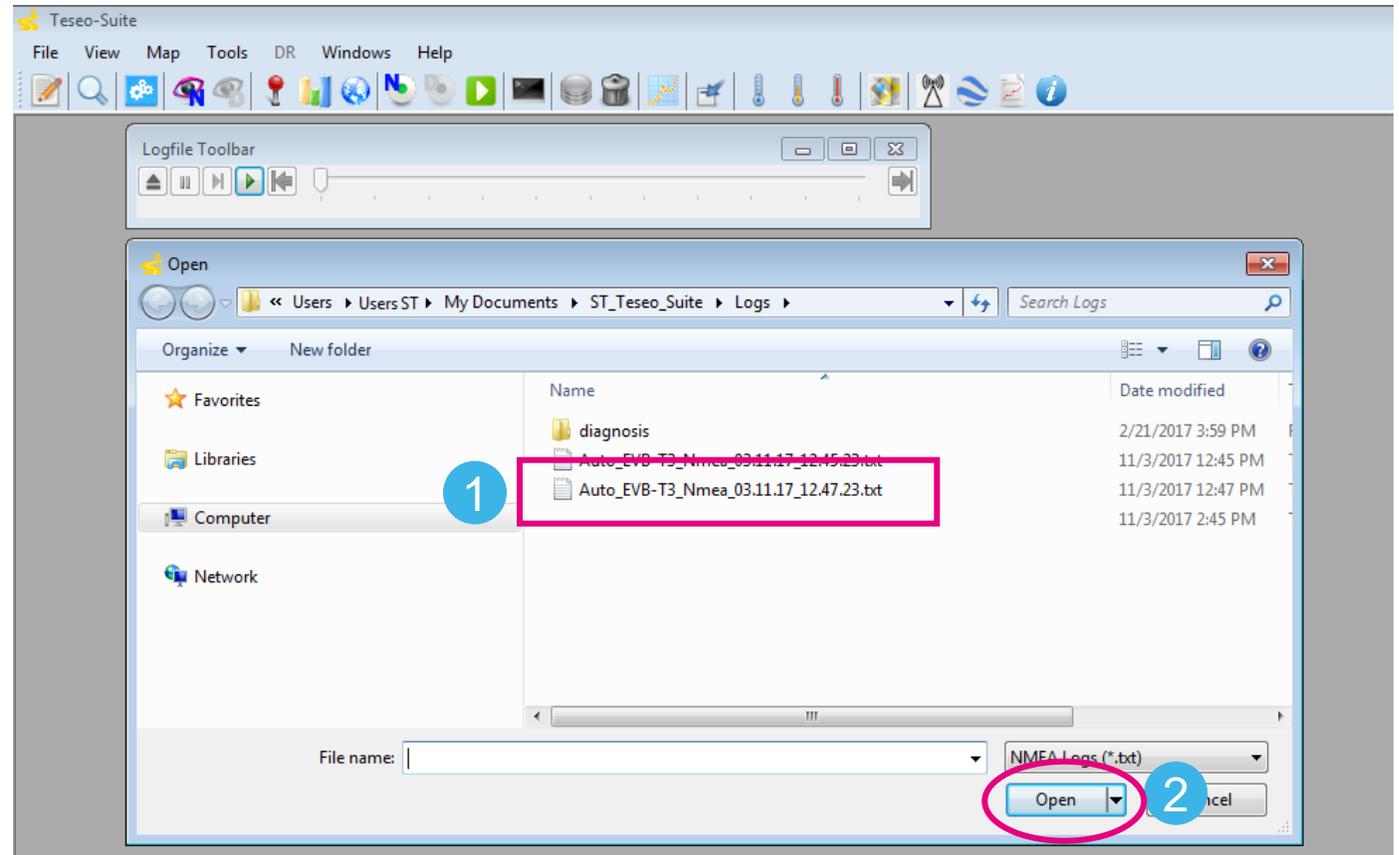
- 1 Click-on '**Player**' button in the menu (the Logfile Toolbar panel will appear)
- 2 Click-on '**Play**' button in the Logfile Toolbar (the 'Open' dialog will appear)





# Play a NMEA/RTCM log session [2/4]

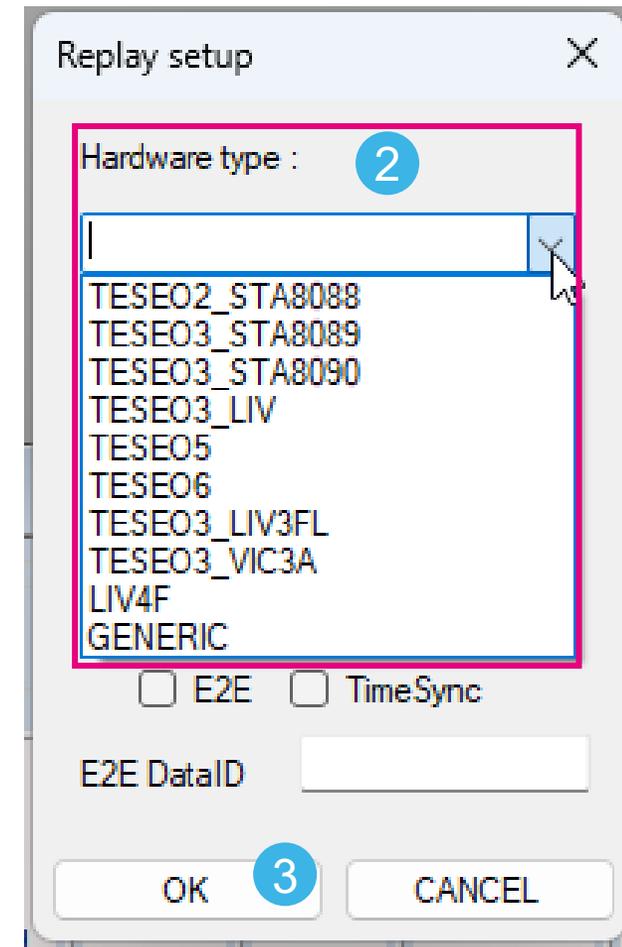
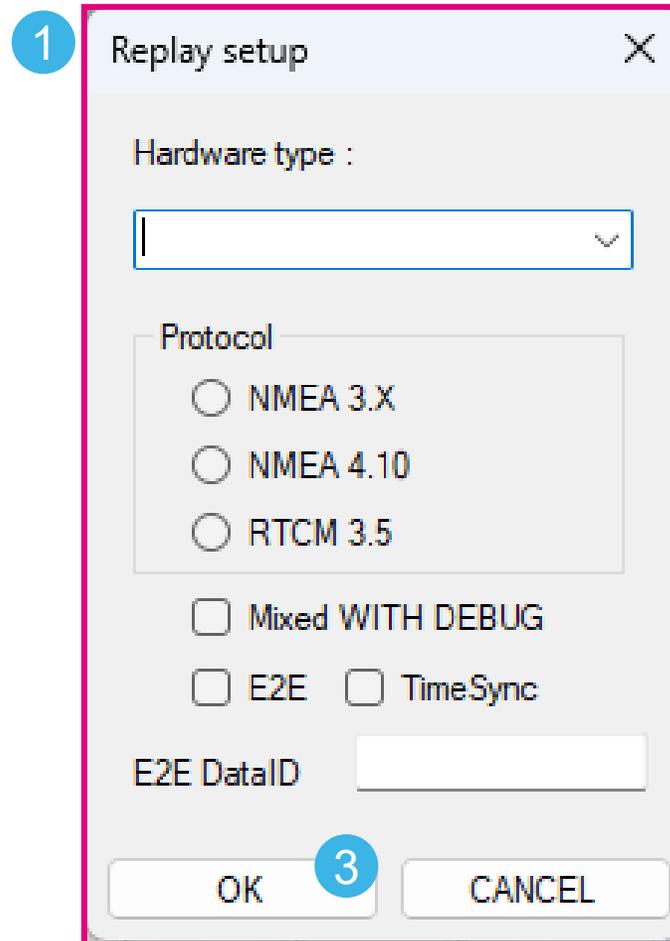
- 1 In the 'Open' dialog select the log to play
- 2 Click-on 'Open'





# Play a NMEA/RTCM log session [3/4]

- 1 In the 'Replay setup' window, select the Hardware type, Protocol and options according to the selected log
- 2 Hardware type Drop-Down List box
- 3 Click 'OK'





# Play a NMEA/RTCM 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

The screenshot shows the Teseo-Suite software interface. The top menu bar includes File, View, Map, Tools, DR, Windows, and Help. Below the menu is a toolbar with various icons. A pink box highlights the Logfile Toolbar panel, which contains a play button, a stop button, a rewind button, a progress slider, and a fast forward button. A blue circle with the number '1' is placed over the play button. Below the toolbar is the Signal level panel, which displays a bar chart of signal levels for various PRN numbers. The PRN numbers are 1, 3, 8, 9, 11, 14, 17, 19, 22, 23, 31, 32, 70, 71, 72, 80, 85, 86, 87, and 126. The signal levels are represented by bars of different heights and colors. The PRN 126 bar is highlighted in green. Below the bar chart is a table with columns for PRN, BAND, AZI, and ELE.

PRN	BAND	AZI	ELE
1	L	86	81
3	L	313	62
8	L	178	11
9	L	217	12
11	L	170	62
14	L	44	24
17	L	307	30
19	L	321	14
22	L	12	69
23	L	211	44
31	L	82	24
32	L	42	7
70	L	37	32
71	L	325	65
72	L	256	30
80	L	71	11
85	L	169	37
86	L	281	73
87	L	330	20
126	L	163	45



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# Advanced features - Contents

1

Update Bootloader and GNSSLib

2

Update GNSSLib only

3

Firmware configuration

4

Analysis tools



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# Update Bootloader and GNSSLib [1/2]

- 1 Open Teseo III (T3) or 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

NOTE: to ensure to start in a fresh memory state, it is highly recommended to use the 'Erase chip' option

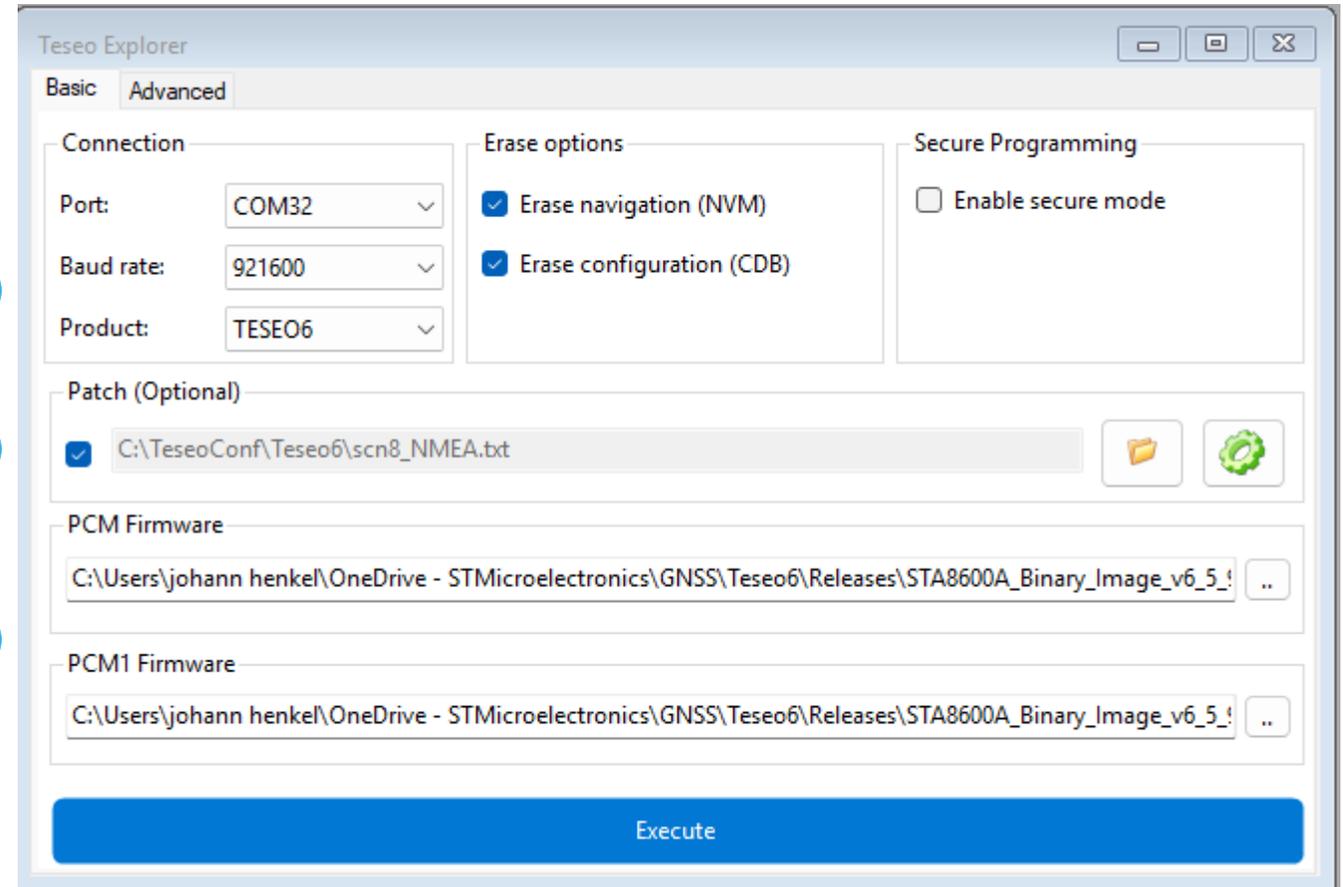
The screenshot shows the Teseo-Suite Pro application window. The 'Tools' menu is open, and 'T5 X-Loader' is selected (indicated by a blue circle '1'). The 'STA8100/STA9100 loader' dialog box is open, showing the 'Port Settings' section with 'Port' set to 'COM14' and 'Baud rate' set to '921600' (indicated by a blue circle '3'). The 'Firmware' section shows the path 'C:\STA8100\_MF\_PVT Firmware\STA8100\_MF\_PVT\_Binary\_Image\_v5\_8\_24\bin\S1' (indicated by a blue circle '2'). The 'START' button is highlighted (indicated by a blue circle '4').



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# Update Bootloader and GNSSLib [2/2]

- 1 Open Teseo VI (T6) **Teseo Explorer** from menu and select Basic
- 2 Select Part0 and Part1 files from file system in the Operations panel
- 3 Select Configuration file (optional)
- 4 Select COM Port and the baud-rate (baud rate refers to programming speed, not to final communication)
- 5 Click on Execute to update





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# Update GNSSLib

- 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 GNSSLib

NOTE: Except for LIV4FL, choose 'Other Products' and make sure to have Recovery ticked. After Start, when 'Sync In Progress' is displayed in Status, apply a HW reset.

The screenshot shows the Teseo-Suite Pro application window. The 'Tools' menu is open, and 'Teseo FW Upgrade' is highlighted with a red box and a '1' in a blue circle. The 'Teseo Firmware Upgrade' dialog box is open, showing the following settings:

- Port Settings:** Port: COM4, Product: Other products, Loader baud rate: 115200. This section is highlighted with a red box and a '3' in a blue circle.
- Settings:** Erase NVM (unchecked), Recovery (checked), Restore factory settings (unchecked), GPIO reset: RTS (unchecked), DTR (unchecked), Timing (ms): 100.
- NVM/Firmware Settings:** NVM Size: 1024 K bytes, NVM Offset: (empty), Firmware Settings Size: (empty) K bytes, Firmware Settings Offset: (empty). A 'Reset' button is visible.
- Patch Settings:** (empty).
- Firmware:** Binary: C:\STA8089-90\Firmware\STA8089-90\_Binary\_Image\_v4\_5\_19\bin\STA8090... This section is highlighted with a red box and a '2' in a blue circle.
- START** button: Highlighted with a red box and a '4' in a blue circle.
- Status:** (empty).



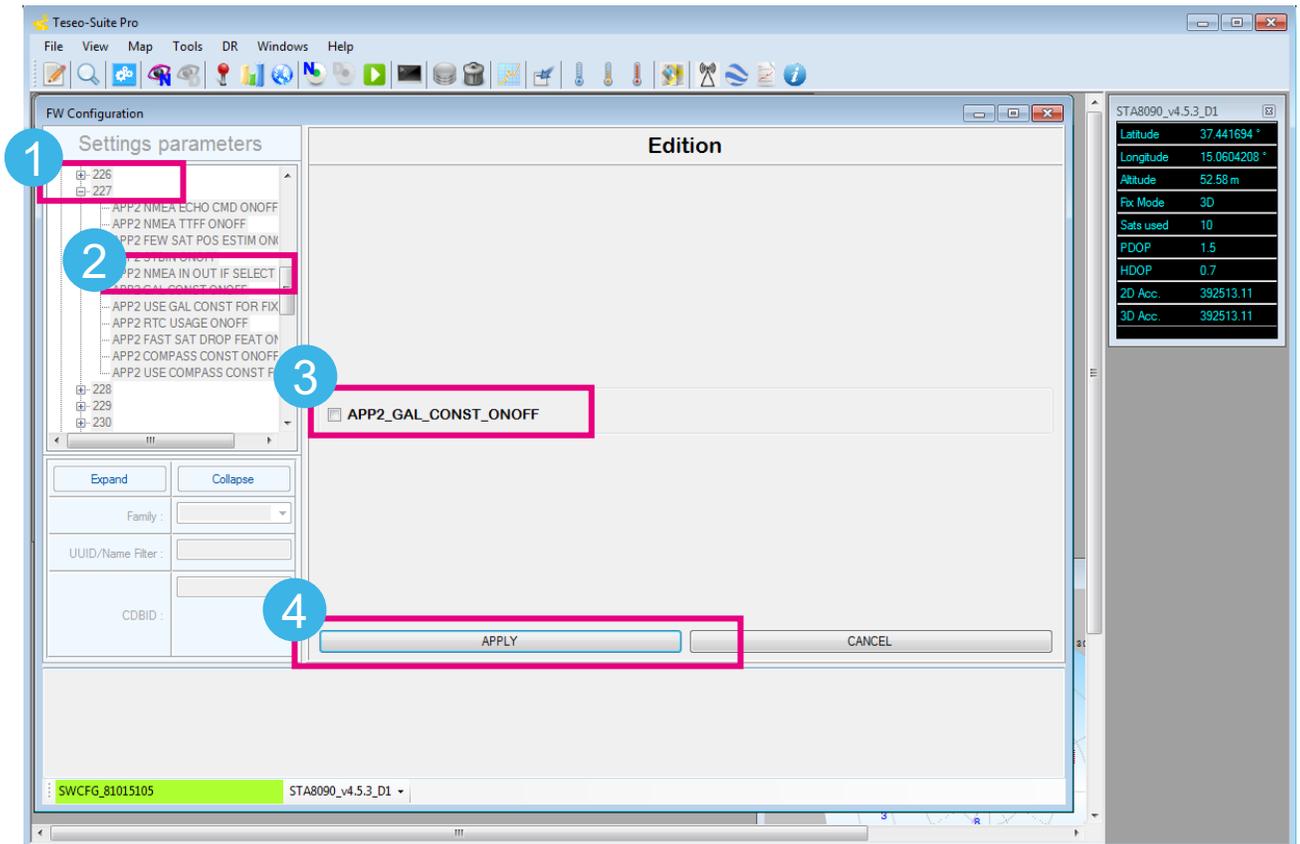


Teseo Suite  
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# Firmware configuration [2/2]

- 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

NOTE: For Teseo V and Teseo VI generations, same applies except that configurations are split in Pages and Lines.

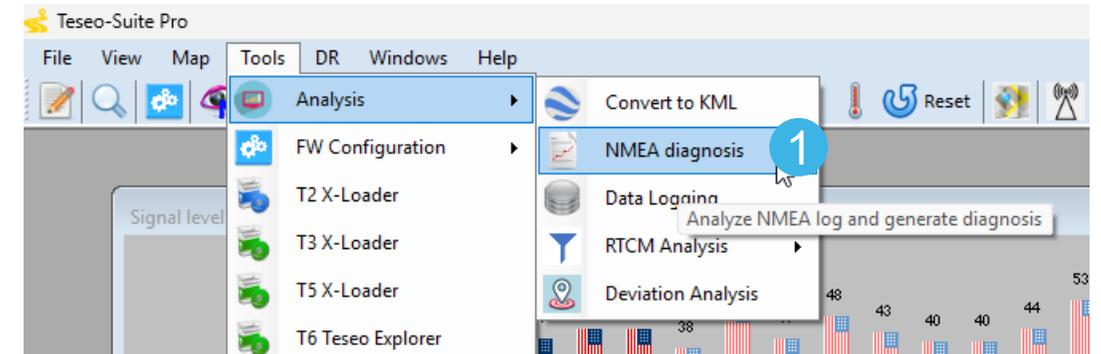




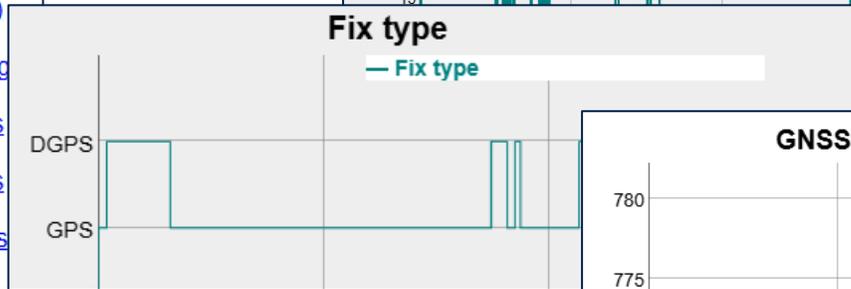
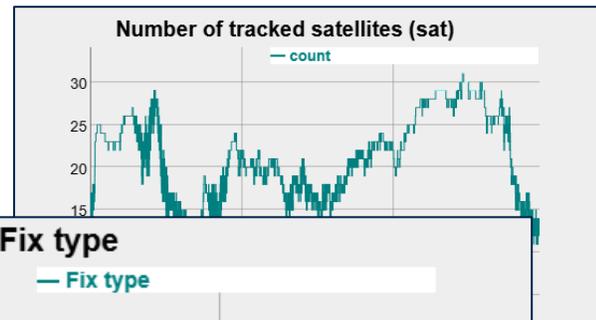
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# Analysis tool – NMEA diagnosis

- 1 Open NMEA diagnosis tool
- 2 Select the NMEA log
- 3 Start analysis
- 4 A pop-up will propose to open a generated HTML report

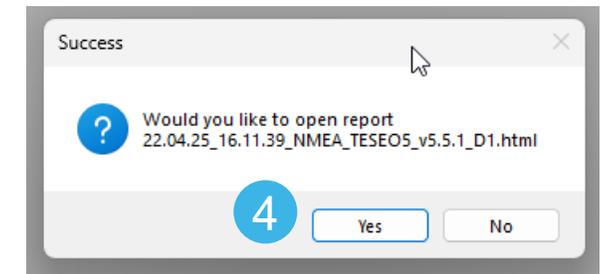
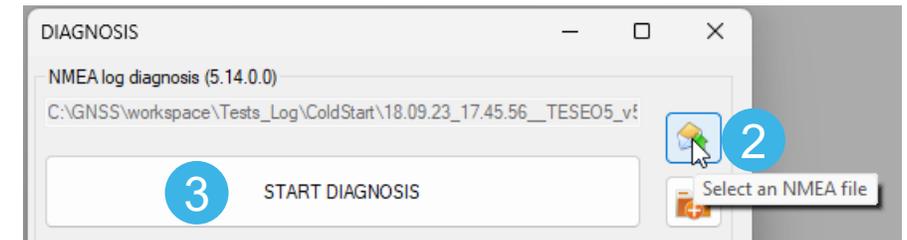
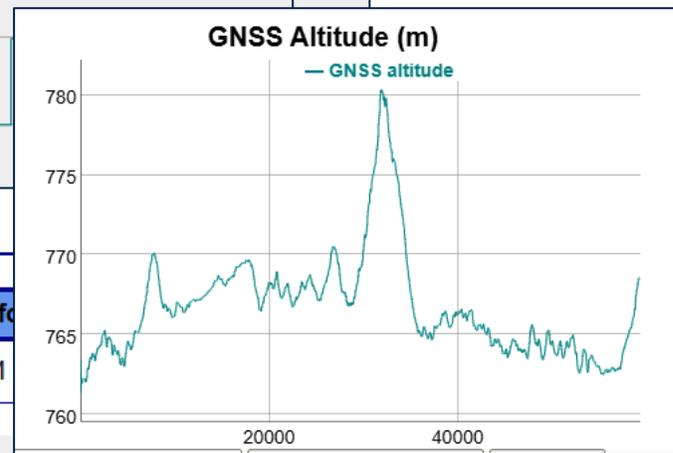


- [Log file](#)
- [Version](#)
- [Diagnosis](#)
- [Duration \(1 event\)](#)
- [CPU usage and CPU speed setting](#)
- [Fix](#)
- [Firmware Settings Application](#)
- [Firmware Settings dead reckoning](#)
- [NMEA Commands](#)
- [Speed & Position](#)
- [Satellites](#)
- [DR Statistics](#)
- [Numerical control oscillator](#)
- [Instant temperature](#)
- [Others events](#)



**Version**

Parts	Version	Platform
GNSSLIB	9.14.0.5_RC_MFPVT	ARM

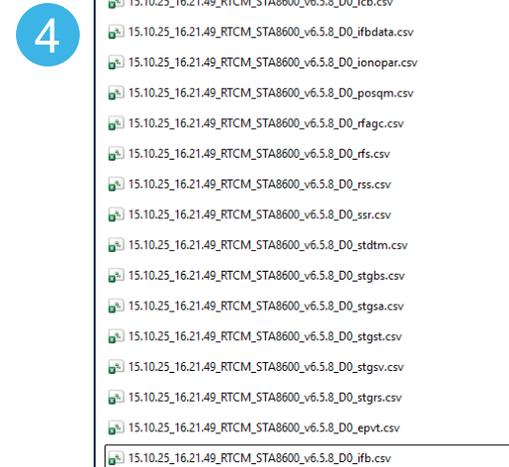
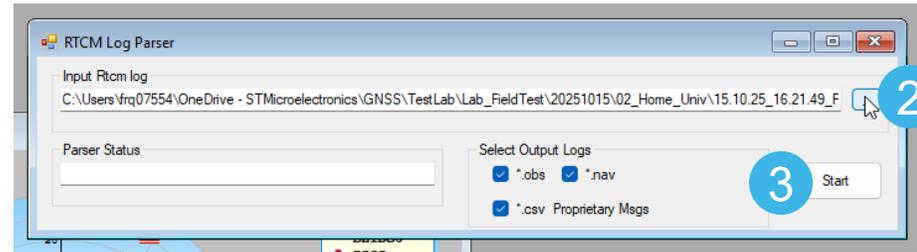
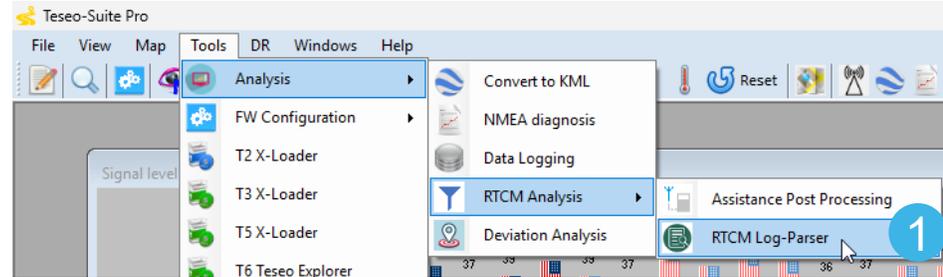




Teseo Suite  
Un-Locked

# Analysis tool – RTCM log parser

- 1 Open RTCM Log-Parser tool
- 2 Select the RTCM log
- 3 Start parsing
- 4 Windows folder will open and show the output files:
  - CSV file for every ST proprietary messages
  - RINEX observation file (observables)
  - RINEX navigation file (navigation data)





# Quick start guide - Contents

1	Introduction
2	Basic commands
3	Advanced features
4	Documents & related resources



# Documents & related resources

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

- Teseo Homepage
  - Datasheets, Application Notes, User Manuals
  - Teseo Modules: Webpage
  - Teseo III: Webpage
  - Teseo V: Webpage
  - Teseo VI: Webpage
- Teseo Suite: Webpage
  - Documentation
  - Installer program

The screenshot displays the ST website interface. At the top, there's a navigation bar with 'ST' logo, search, and menu icons. Below, the main content area is titled 'GNSSE ICs & modules'. It features a 'Product selector' tab and a 'Download databrief' button. A prominent banner for 'TESEO-SUITE' is visible, advertising 'PC software tool for the performance'. To the right, a detailed product page for 'STA9100MGA' is shown, titled 'Automotive TeseoAPP (ASIL Precise Positioning) Family Multi Band GNSS Precise Measurement Engine receiver'. This page includes a 'Description' section and a 'Teseo APP' logo. Below the main content, there's a section for 'Development tools and software for GNSS ICs and modules'.

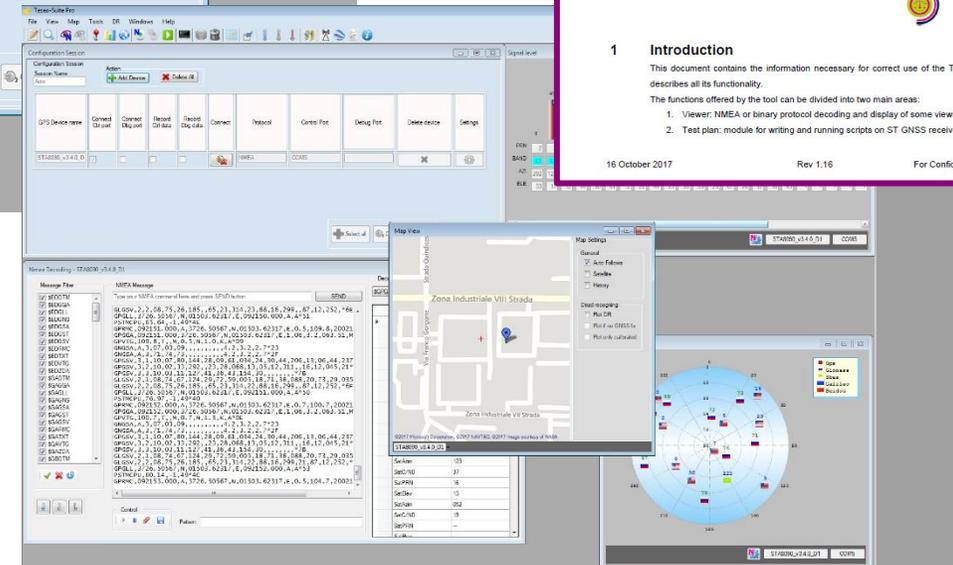
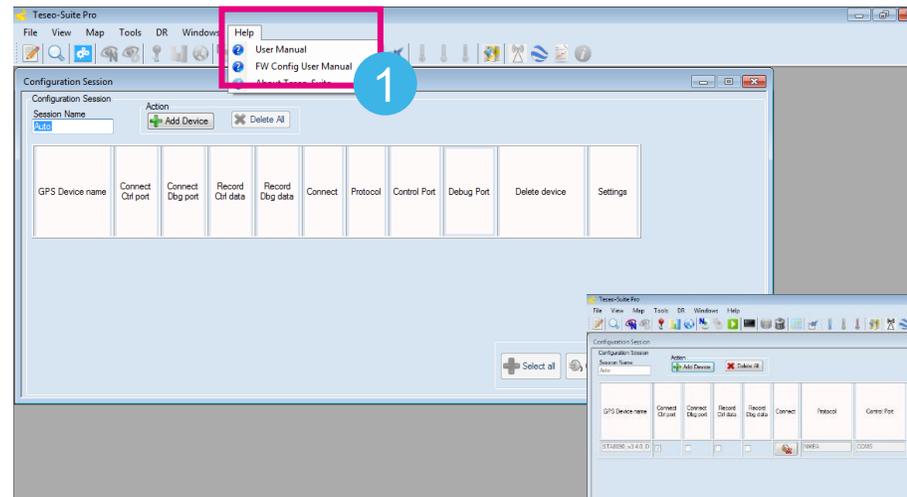
This banner is titled 'Development tools and software for GNSS ICs and modules'. It contains four distinct sections, each with an icon and a 'Discover' button:

- TESEO-SUITE**: Represented by the Teseo logo.
- Evaluation boards**: Represented by an image of a hardware board.
- ASM330LHH 6-axis IMU**: Represented by images of the sensor chip and its packaging.
- TESEO-DRAW**: Represented by an icon of a laptop with a wrench and screwdriver.



# 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, V and VI chips and modules, using Teseo-Suite to explore all the available features.



GPS Device name	Connect	Connect	Record	Record	Connect	Protocol	Control Port	Debug Port	Delete device	Settings
STAR000_v3.4.0.D	[Connect]	[Disconnect]	[Record]	[Stop]	[Connect]	NMEA	COM5		[Delete]	[Settings]