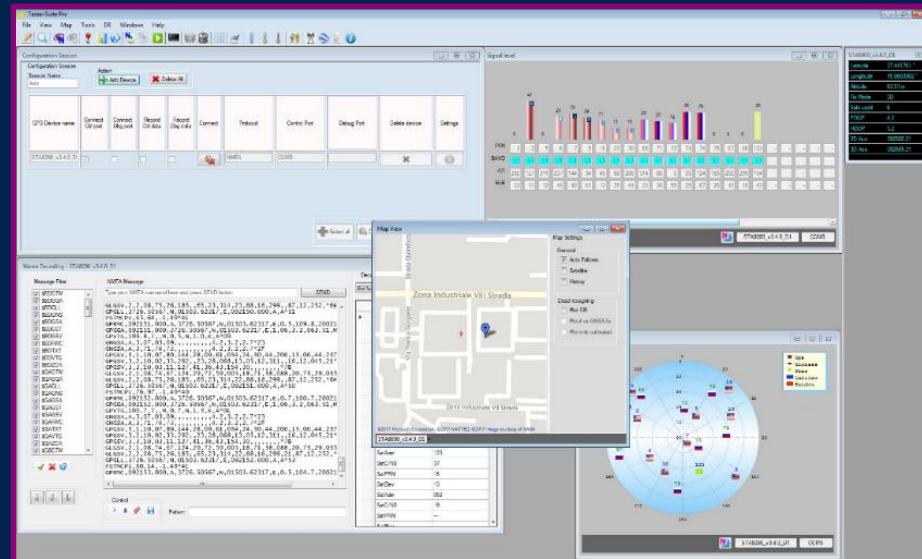




Teseo-Suite

PC testing tool for the Teseo family of GNSS modules
Quick Testing Guide

v. 0.4





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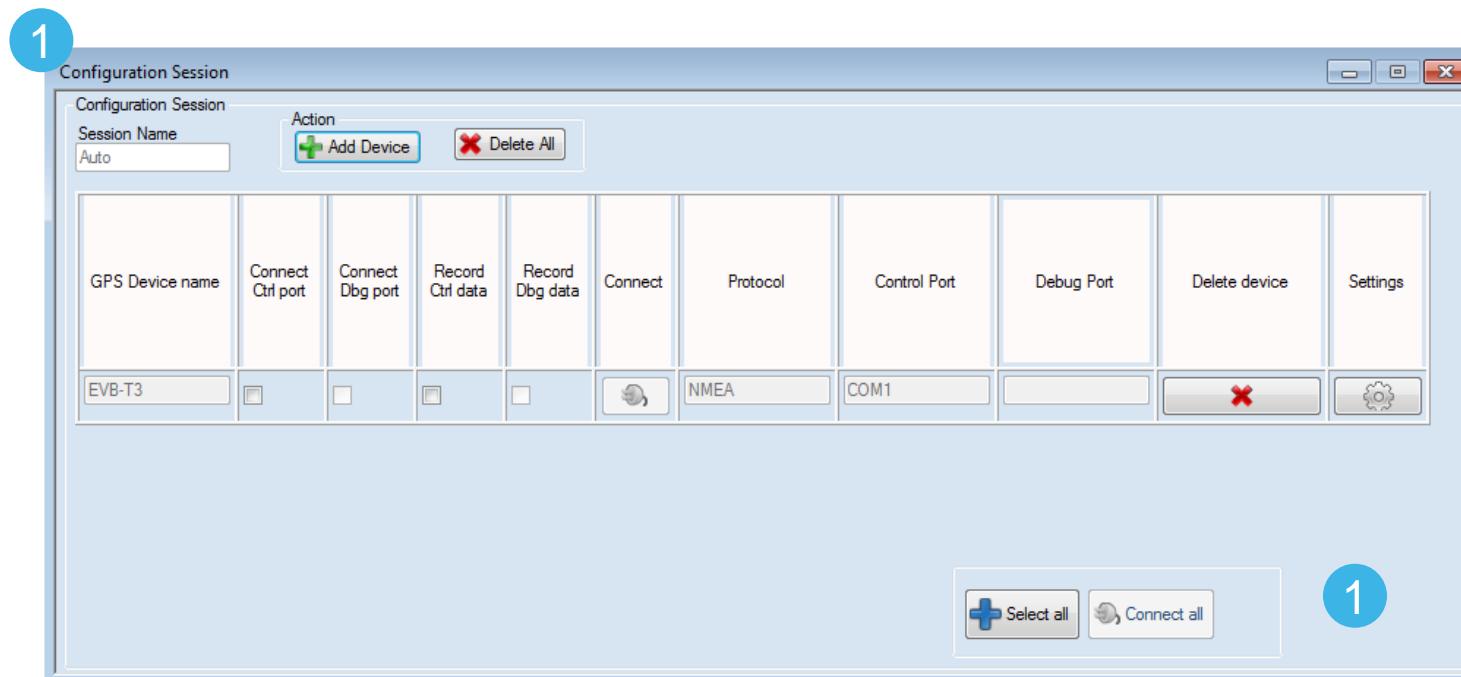
Teseo Suite as test program

- Teseo-Suite is a valuable tool to test and evaluate the features of Teseo GNSS modules
- It has an internal scripting language which allows automatizing test scripts for Teseo GNSS receivers
- Let's see how it can help evaluate Teseo GNSS solutions



Connects the Teseo platform

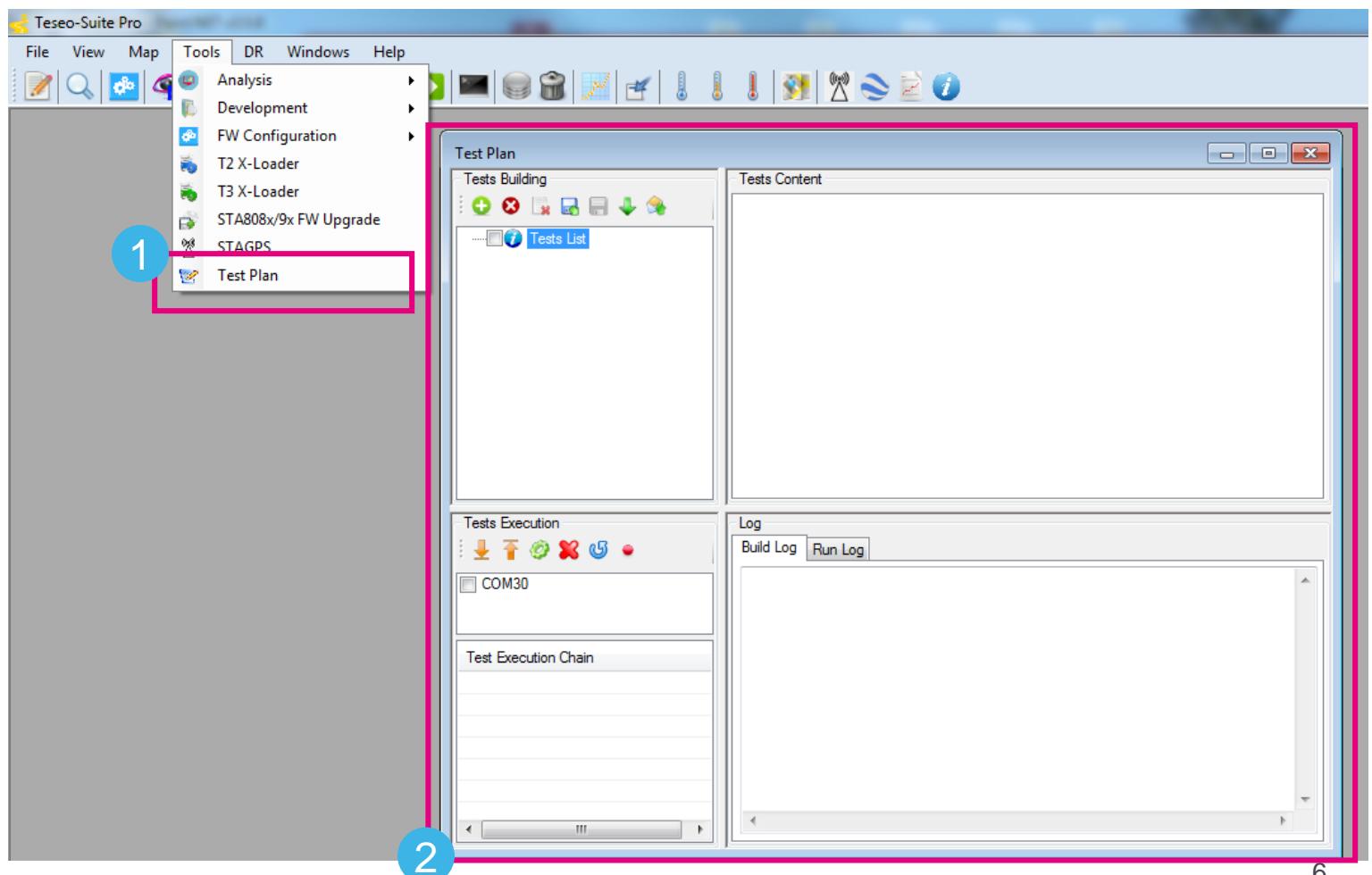
1 Connects your Teseo platform ([see more](#))





Open test plan panel

- 1 Open Test Plan from menu
- 2 Test Plan panel will appear



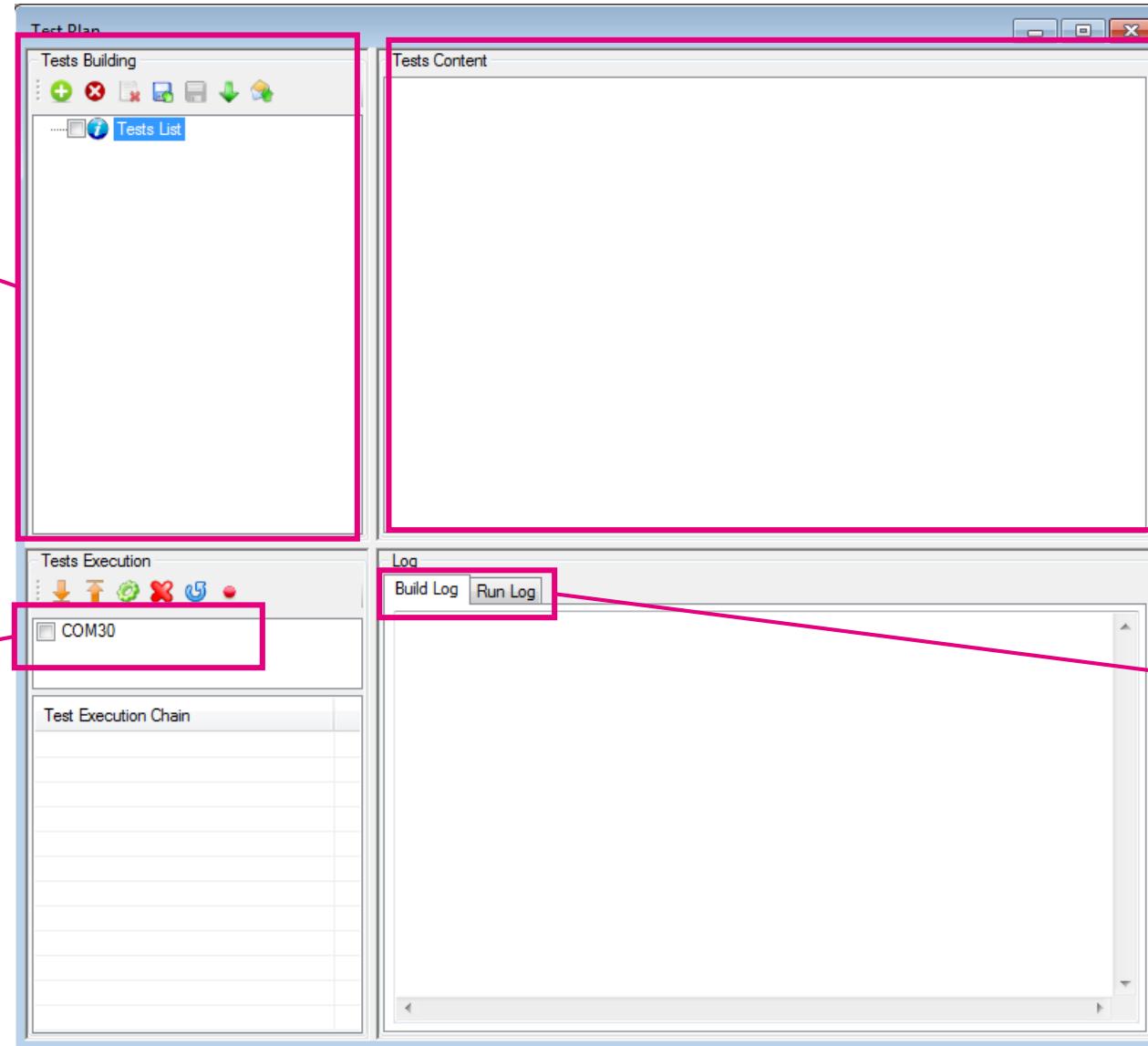
Test plan panel description

Test manager

Select the port on which
the scripts will run

Test script editor

Build and result log
views





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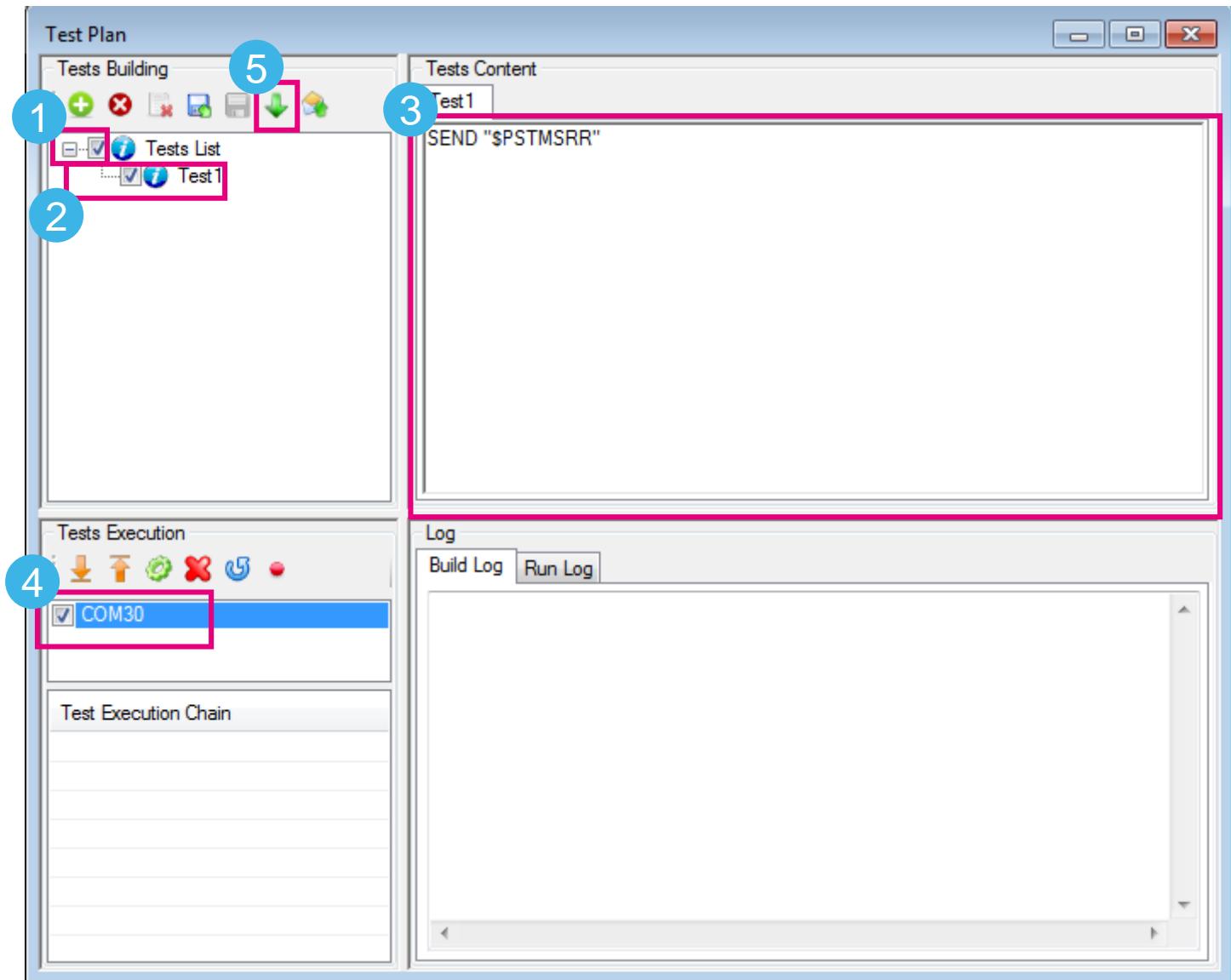


A quick test script – step by step

- ① Add Test 1 script
- ② Enable Tests List
- ③ Edit the Test 1 script:

SEND “\$PSTMSRR”

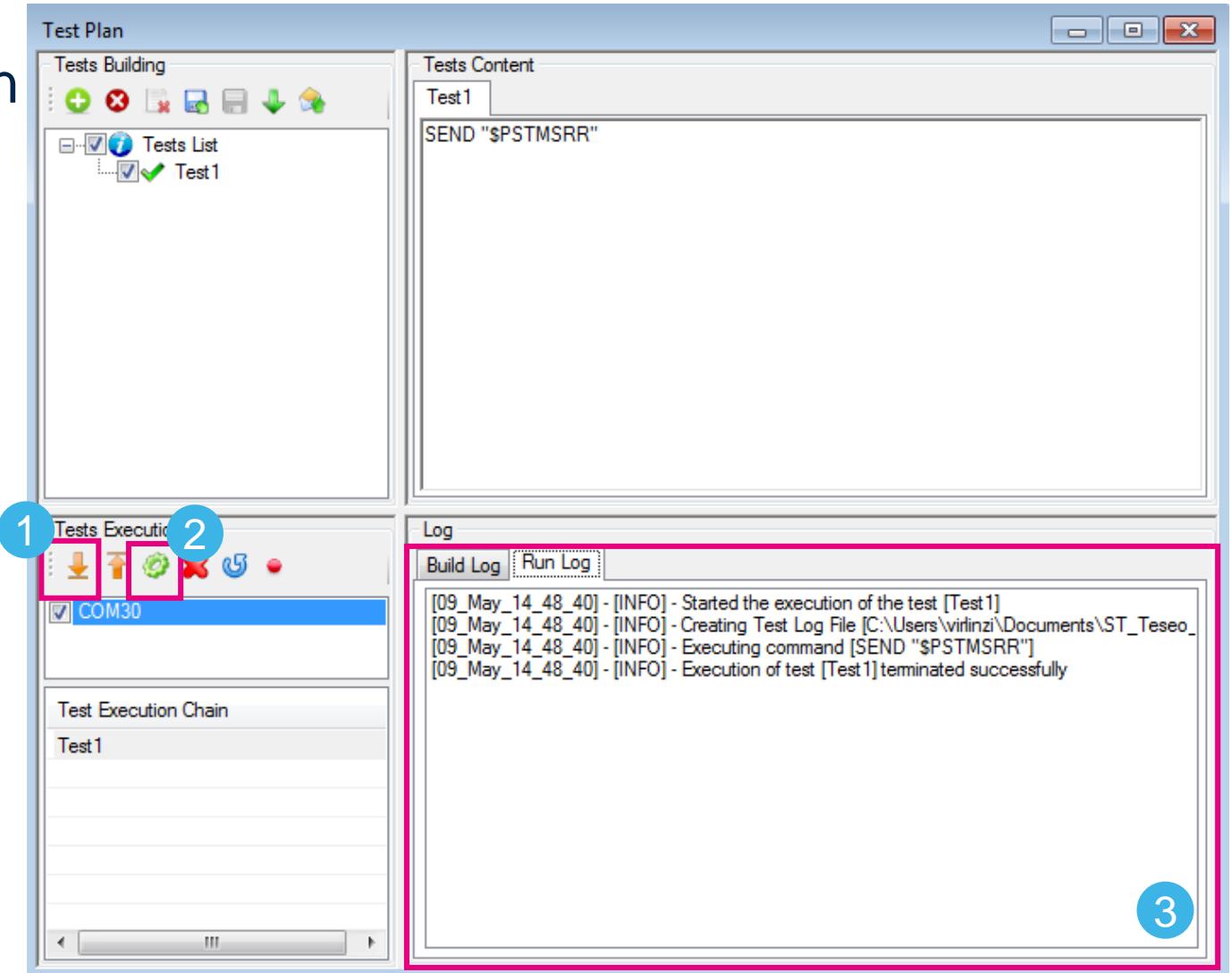
- ④ Enable the COM
- ⑤ Compile the test



A quick test script – step by step

- 1 Add the test in the Execution Chain
- 2 Run the test
- 3 Check the result

You wrote and
executed your first
test script





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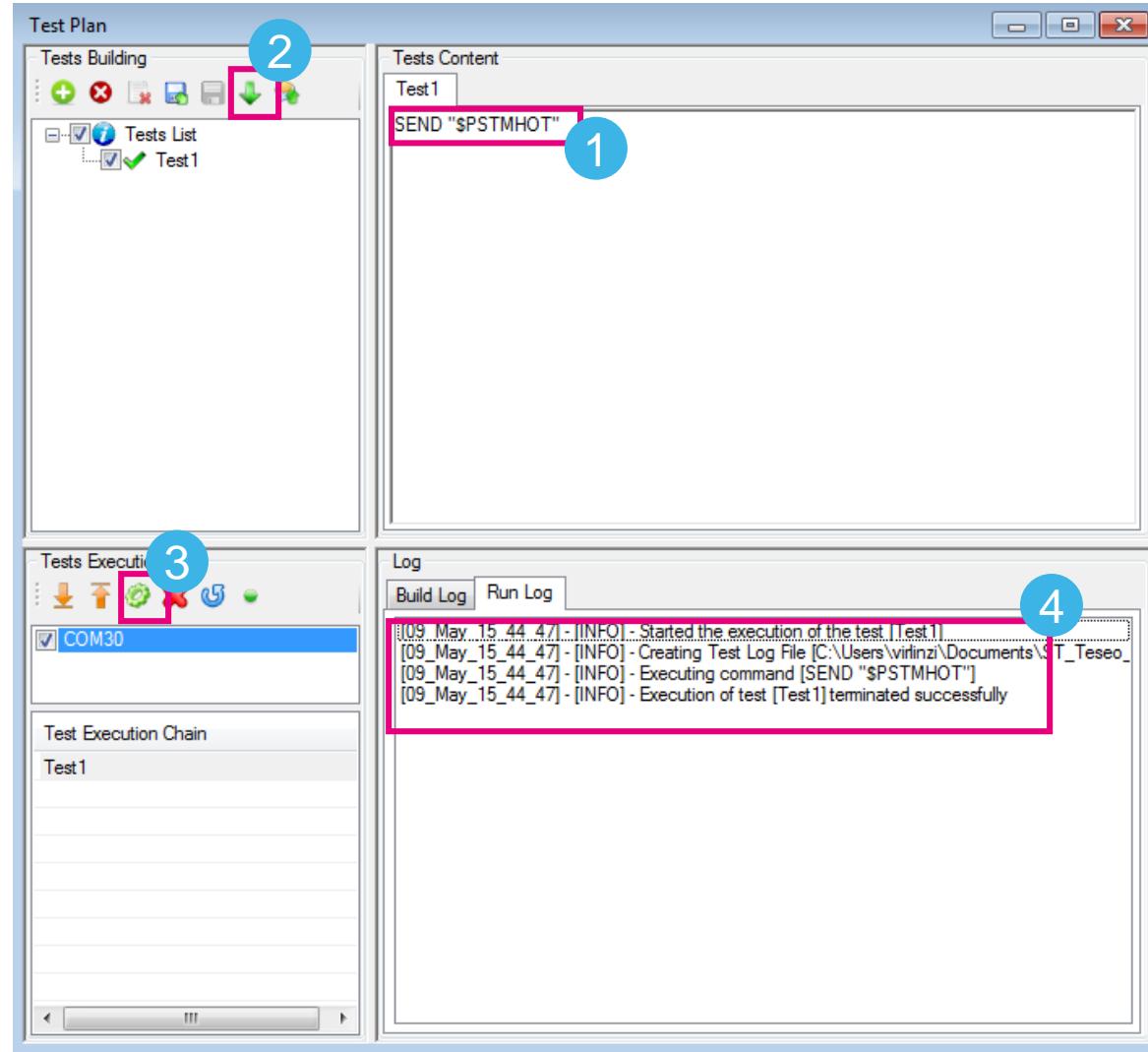


SEND keyword

Use the SEND keyword to send the NMEA command:

SEND "NMEA_cmd"

- 1 Add the command
- 2 Compile
- 3 Run
- 4 Check the result

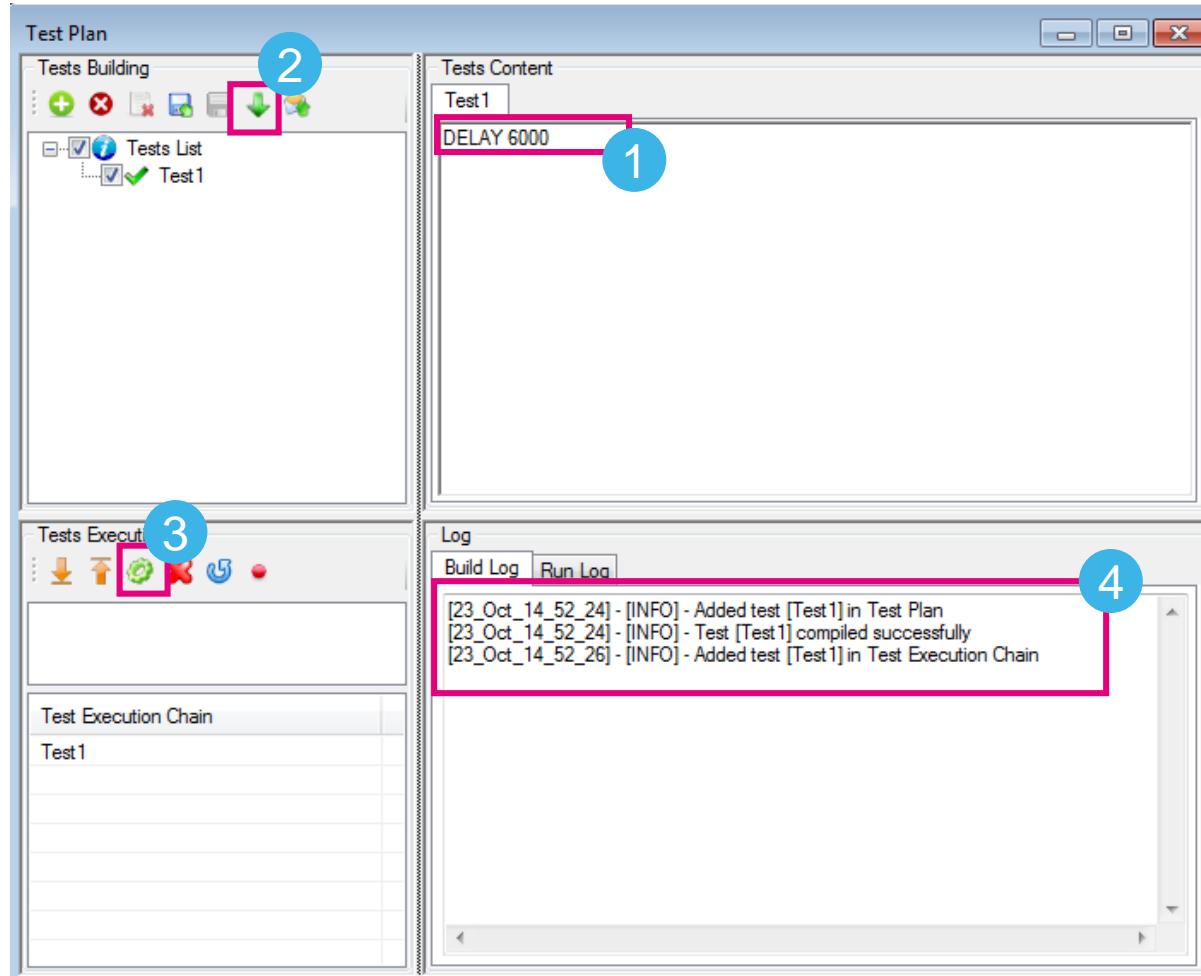


DELAY keyword

Test scripts can be delayed using the DELAY keyword (time in ms):

DELAY N

- 1 Add the command
- 2 Compile
- 3 Run
- 4 Check the result

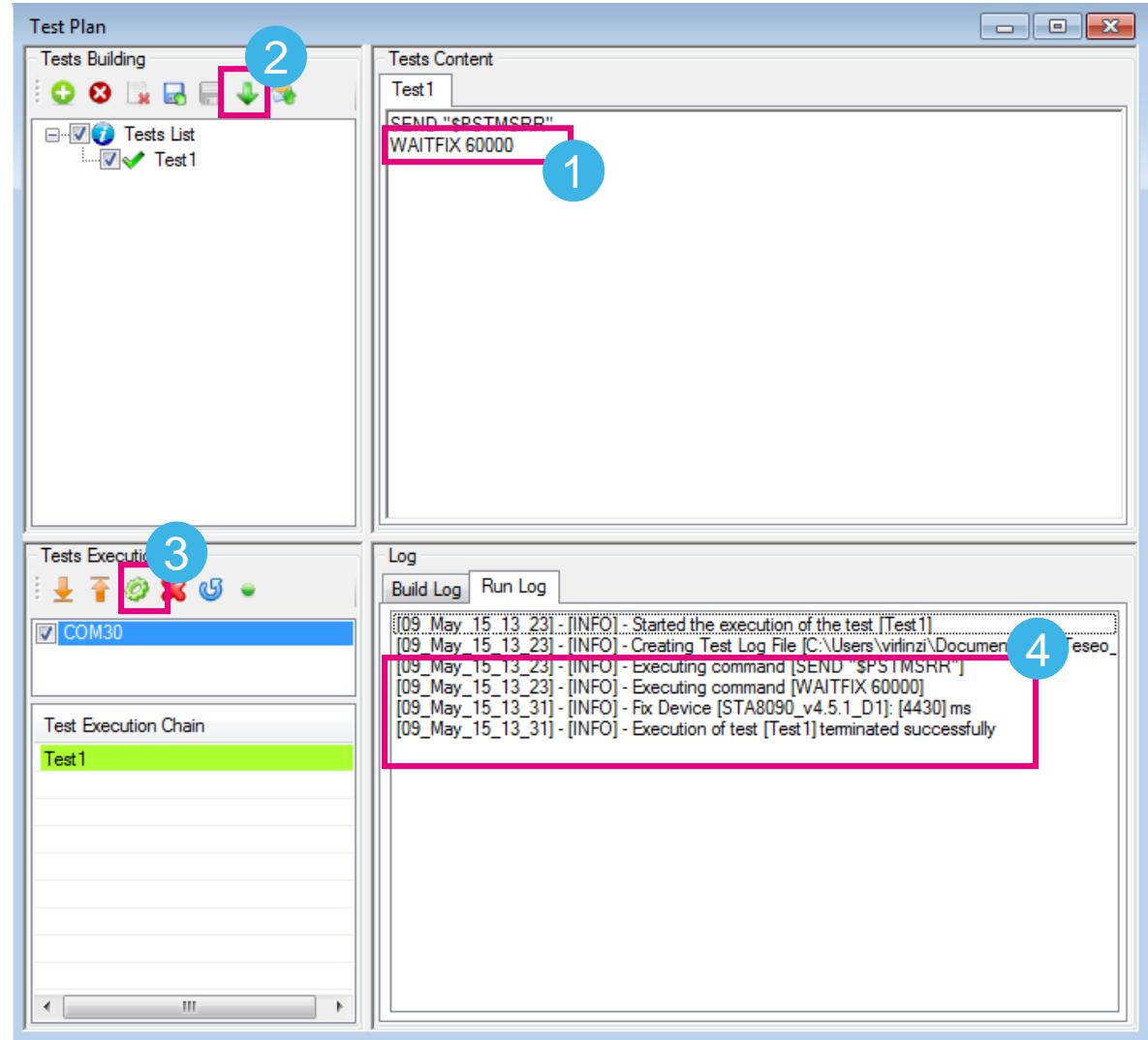


WAITFIX keyword

Use the WAITFIX keyword to evaluate the TTFF (timeout in ms):\

WAITFIX timeout

- 1 Add the command
- 2 Compile
- 3 Run
- 4 Check the result

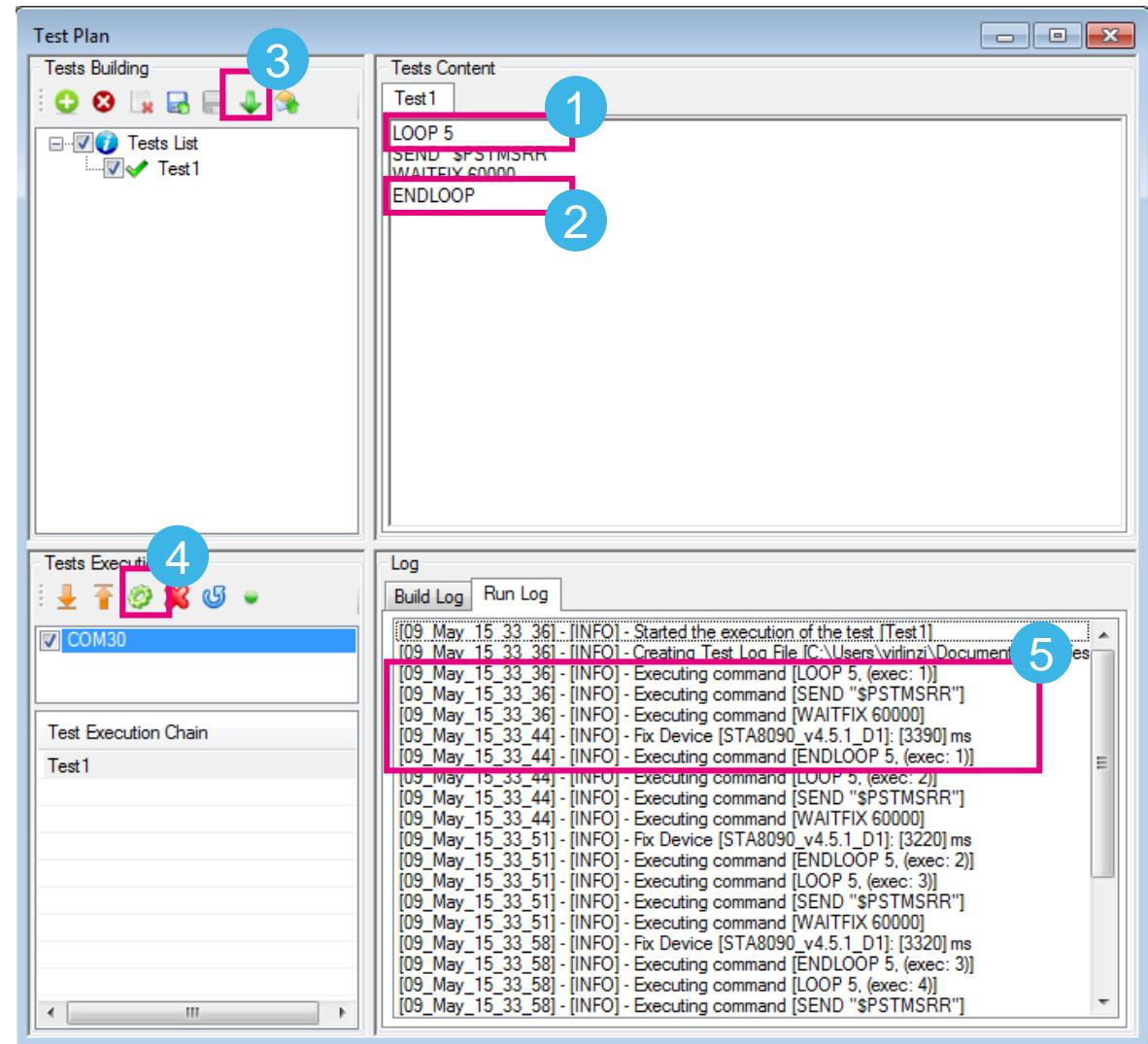


LOOP/ENDLOOP keywords

Use the LOOP/ENDLOOP keywords to iterate N-times over a block of instructions:

LOOP N
commands
ENDLOOP

- 1 Add begin-loop keyword
- 2 Add end-loop keyword
- 3 Compile
- 4 Run the test
- 5 Check the result



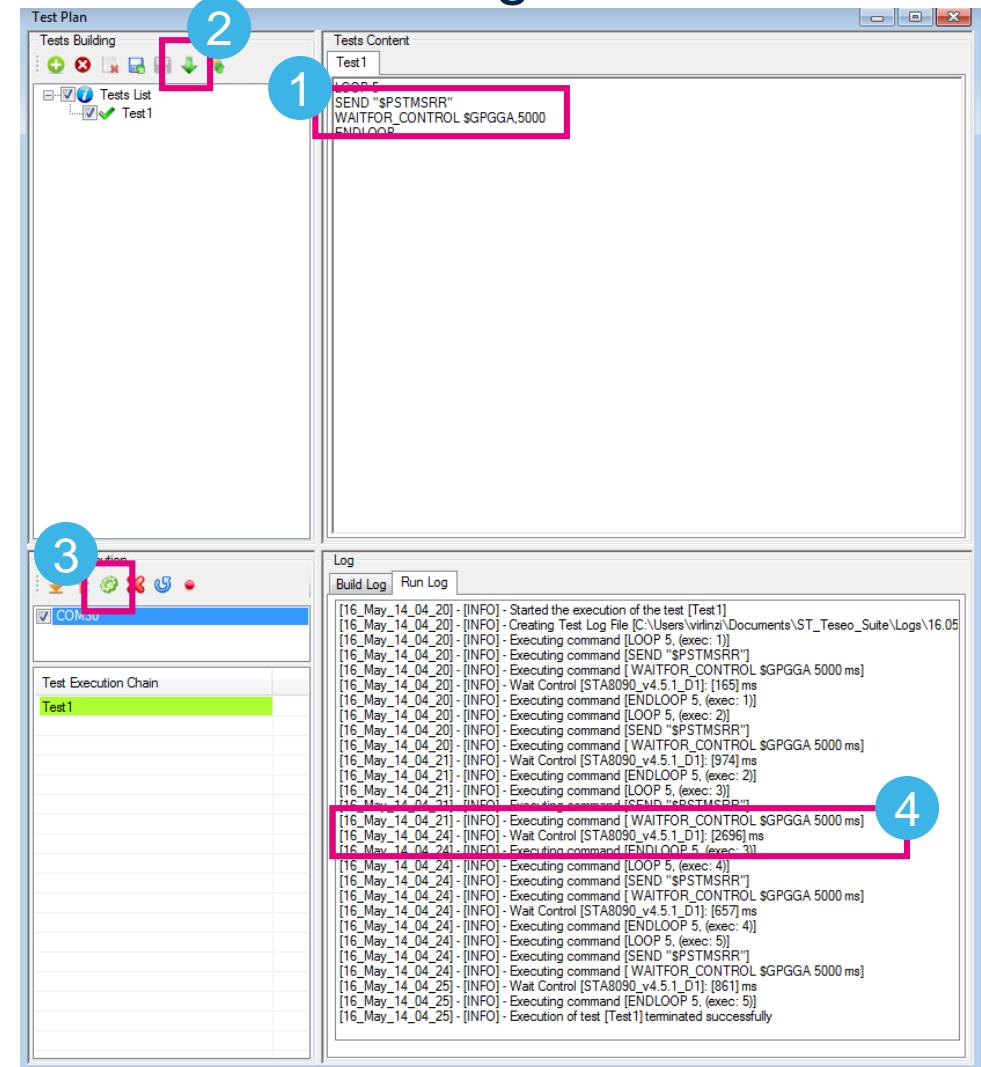


WAITFOR_CONTROL keyword

Use the WAITFOR_CONTROL keyword to wait for a NMEA message

WAITFOR_CONTROL NMEA_msg, timeout

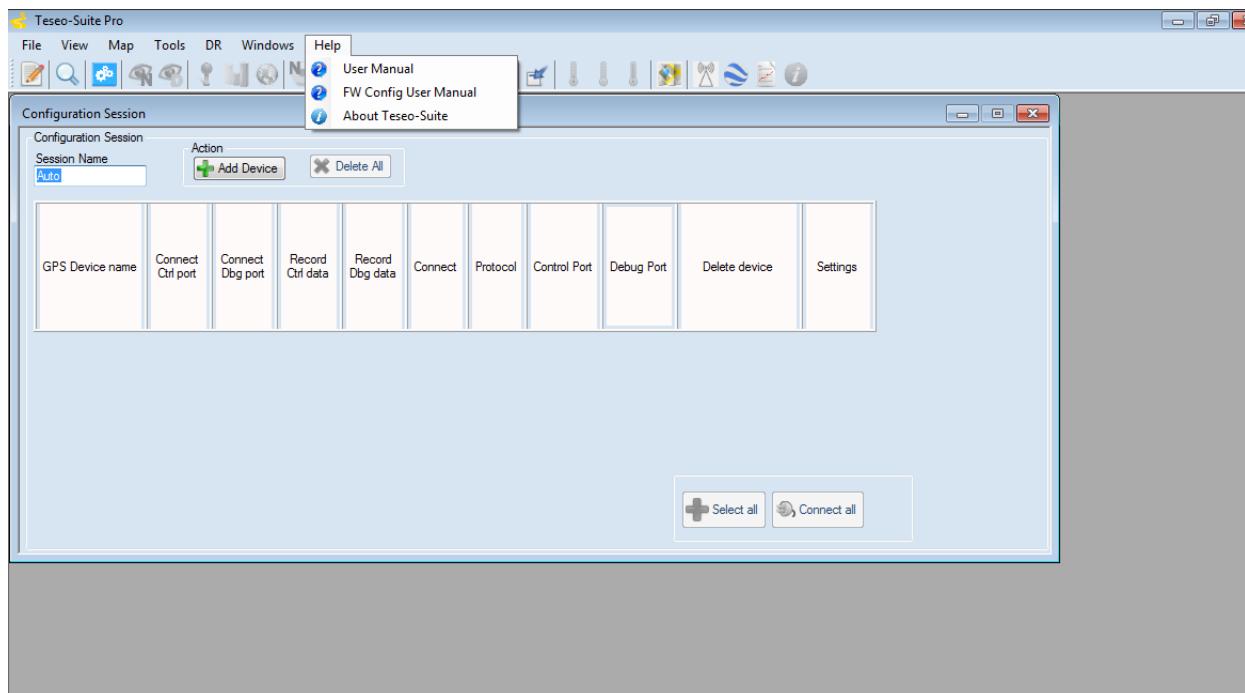
- 1 Add WAITFOR_CONTROL keyword
- 2 Compile
- 3 Run the test
- 4 Check the result





Teseo suite – extra features

Select Help menu or access the online [Teseo-Suite User Manual](#) for the complete list of commands supported in the Test-Panel





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All documents are available on:
www.st.com

- Teseo III: [Webpage](#)

- Data-sheet of all PNs;

- Teseo modules: [Webpage](#)

- Data-sheet of all PNs;

- Teseo Suite: [Webpage](#)

- Datasheet
 - Install program

Documents & related resources

GNSS ICs

ST's Teseo family of Global Navigation Satellite System ICs combines high positioning accuracy and indoor sensitivity with powerful processing capabilities, to simultaneously support multiple global navigation systems (BeiDou, Galileo, GLONASS, GPS, and QZSS). Teseo III is the latest generation of GNSS ICs, and compared to Teseo II offer reduced power consumption, carrier-phase tracking for higher accuracy, and support for Ready-only Memory (ROM).

Our product offering includes standalone positioning chips (SAL) and configurable system-on-chips (SoCs). The standalone devices are offered with GNSS firmware embedded, to perform all positioning operations including tracking, acquisition and data output. The SoCs offer power processing and spare memory to enable customers and partners to easily and efficiently merge their code or specific IPs with ST's GNSS library to create a highly optimized platform.

Both solutions come with different package options and memory size, and are compatible with the TESEO-DRAW sensor fusion firmware for dead-reckoning and assisted navigation.

Teseo devices address e-call and telematics systems, personal navigation in PDUs and handheld devices, as well as marine and in-car navigation systems.

EVB-T3

Download Databrief

TESEO III evaluation board

ST Teseo III is a complete standalone evaluation platform for Teseo III GNSS ST solution. Teseo III embeds the high performance ARM946 microprocessor with dedicated SRAM and several serial communication interfaces, including USB, SPI, I_C, UART and CAN.

Performance and configuration can be analyzed using the ST Teseo-Suite PC Tool.

Key Features

- ST Teseo III GNSS platform;
- Multiconstellation GNSS, GPS, Galileo, Glonass, BeiDou, QZSS are supported;
- USB Power Supply and battery charge;
- Internal battery for standalone usage;
- ON/OFF and Reset buttons available;
- NMEA over:

RESOURCES

Product Specifications

Description	Version	Size
DB3224 PC GUI software to control, configure and performance analyze of Teseo GNSS family	1.0	137 KB

Technical Documentation

Product Specifications

Description	Version	Size
DB3223 Teseo III GNSS evaluation board	1.0	137 KB

License Agreement

Description	Version	Size
SLA0056 Software license agreement	1.0	59 KB



Enjoy developing your GNSS solution using Teseo-Suite

- Now you can develop your GNSS solution with ST Teseo II, ST Teseo III and ST Teseo Modules using the Teseo-Suite PC software tool to explore all the available features.

