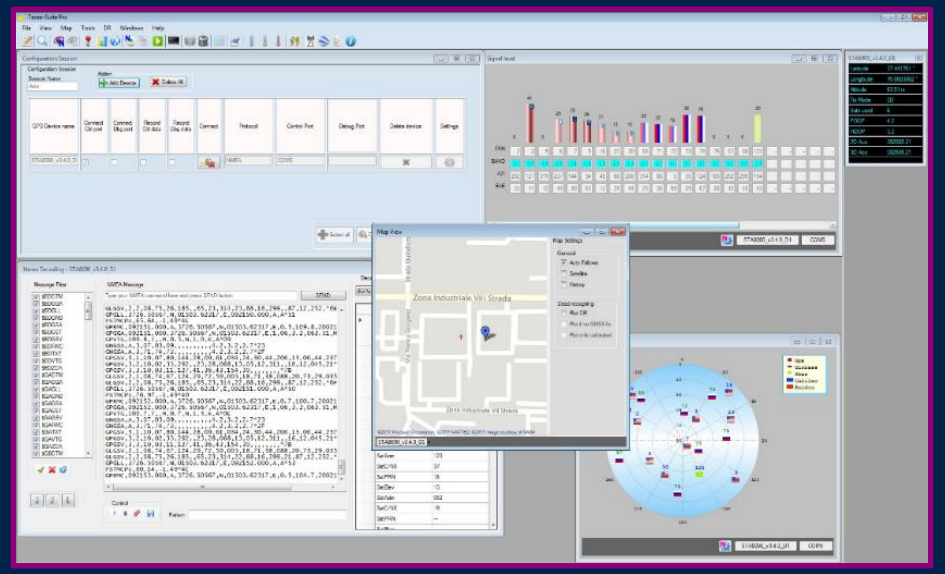
Teseo-Suite

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

v. 0.4



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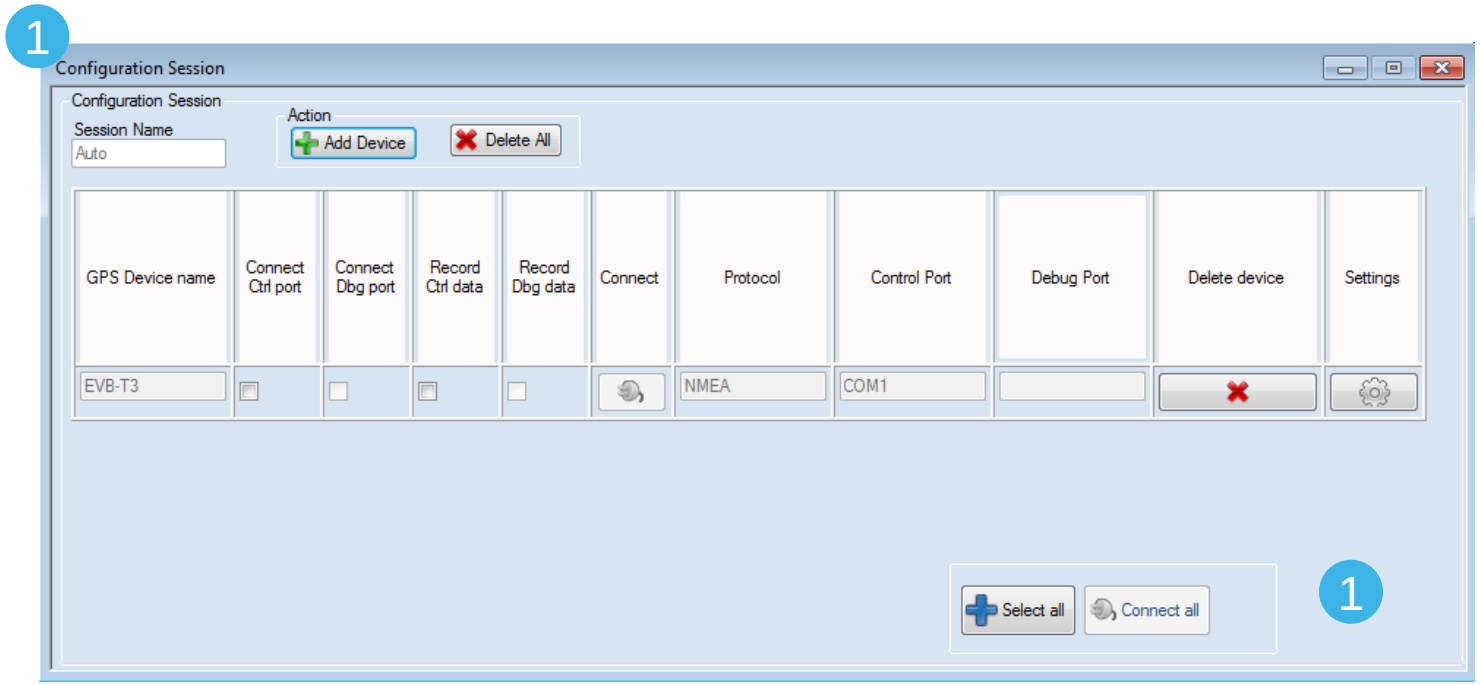
Quick testing guide - introduction

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

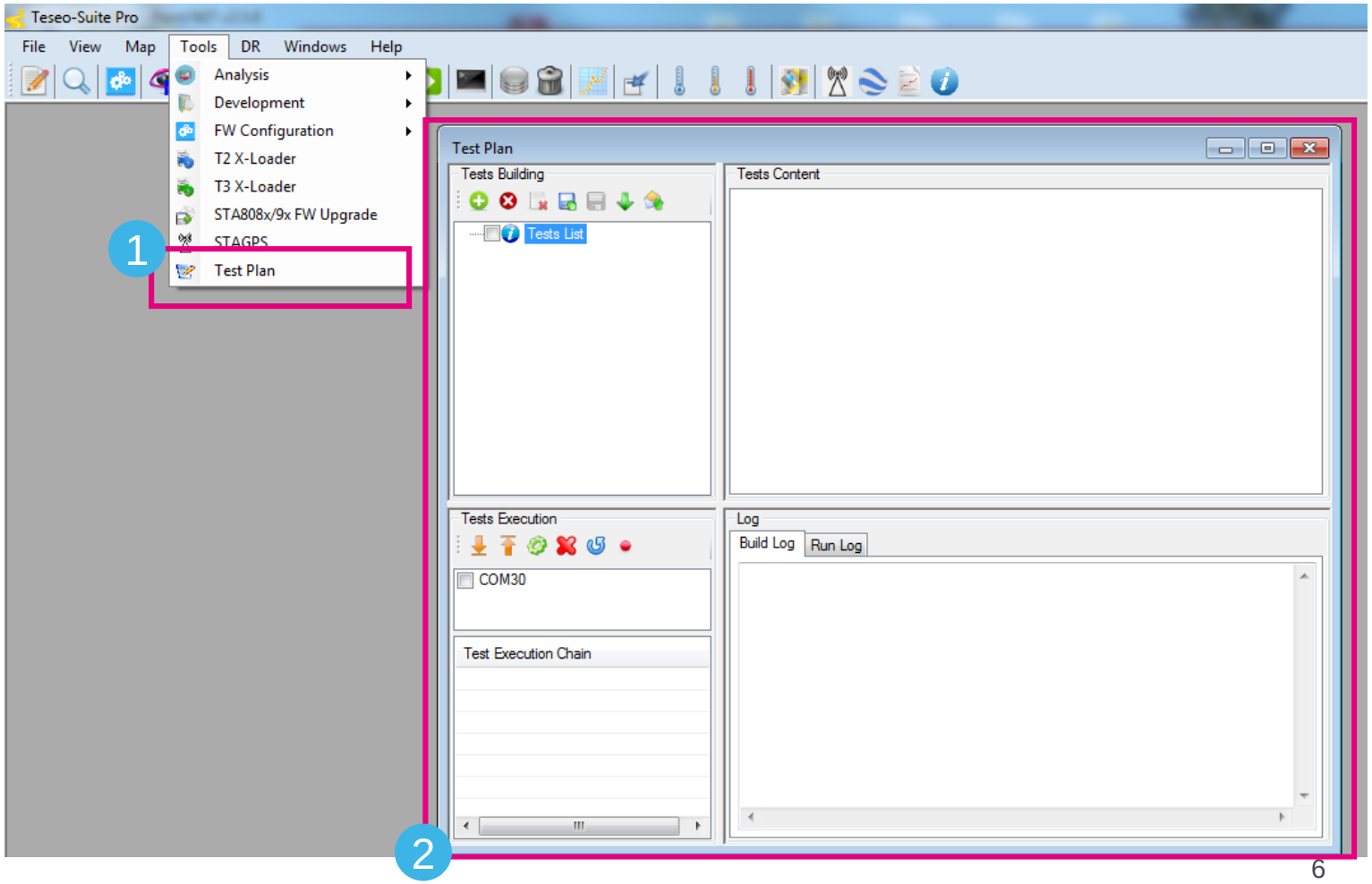
Connects the Teseo platform

1 Connects your Teseo platform (see more)



Open test plan panel

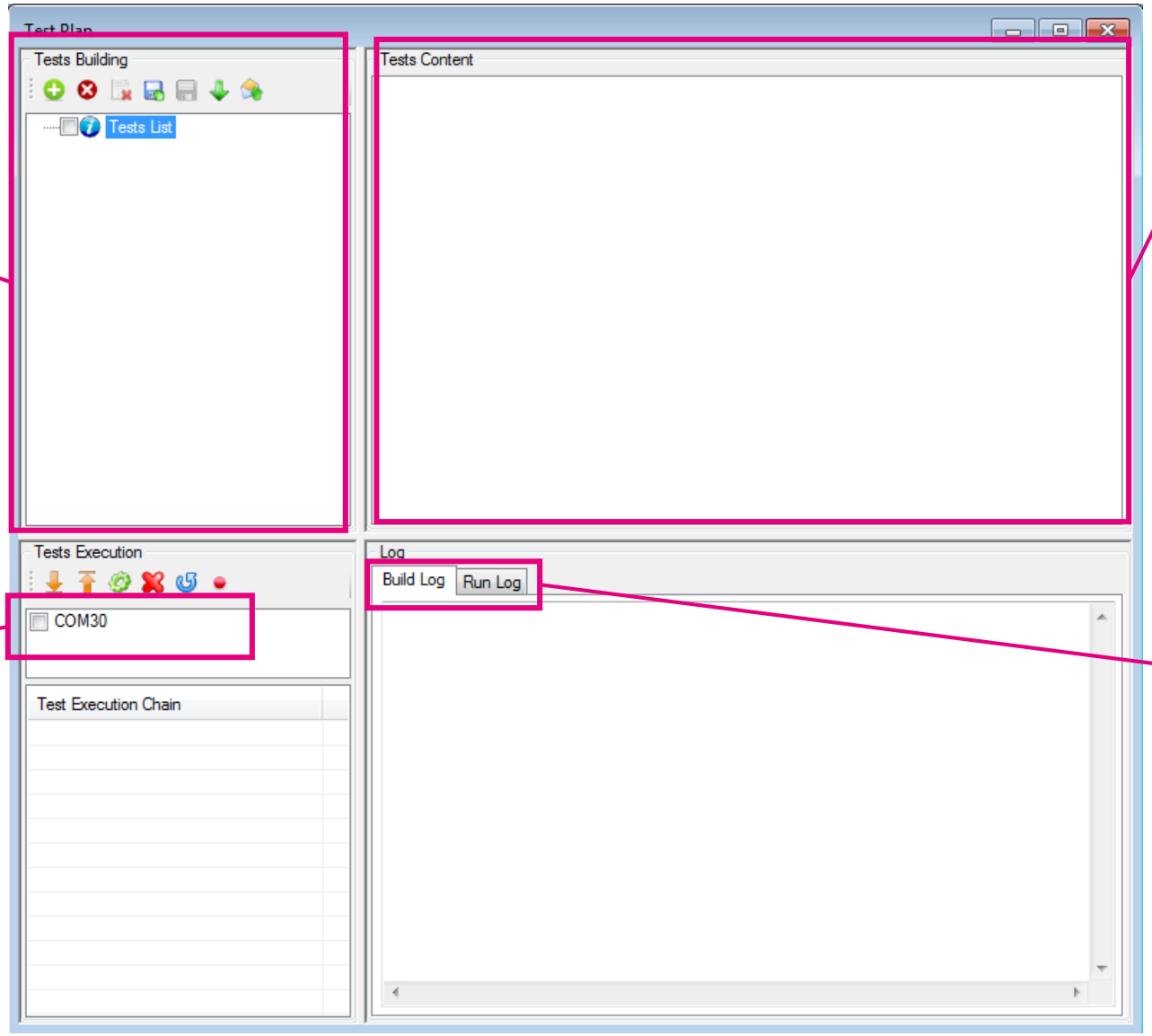
1. Open Test Plan from menu
2. Test Plan panel will appear



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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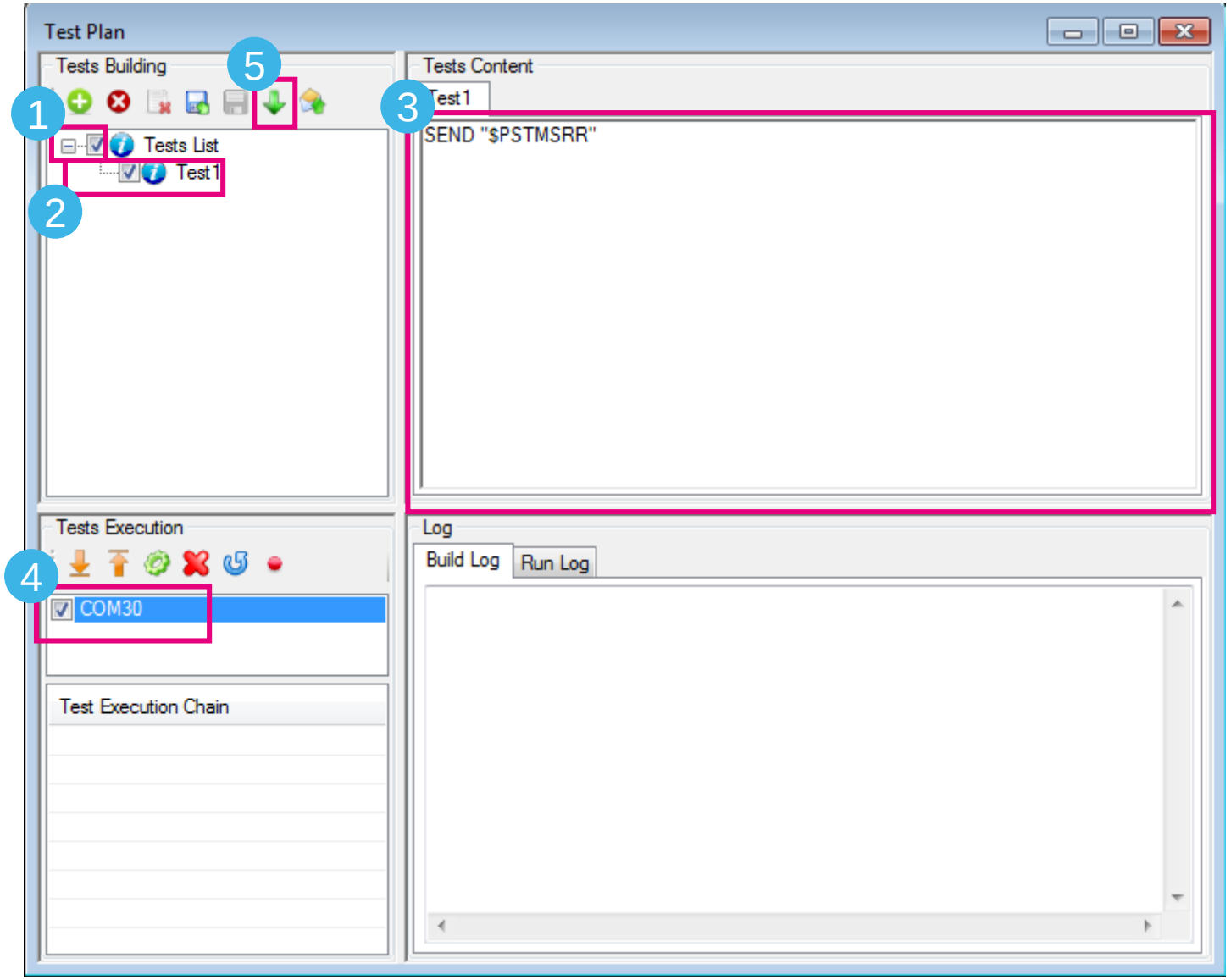
A quick test script – step by step

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

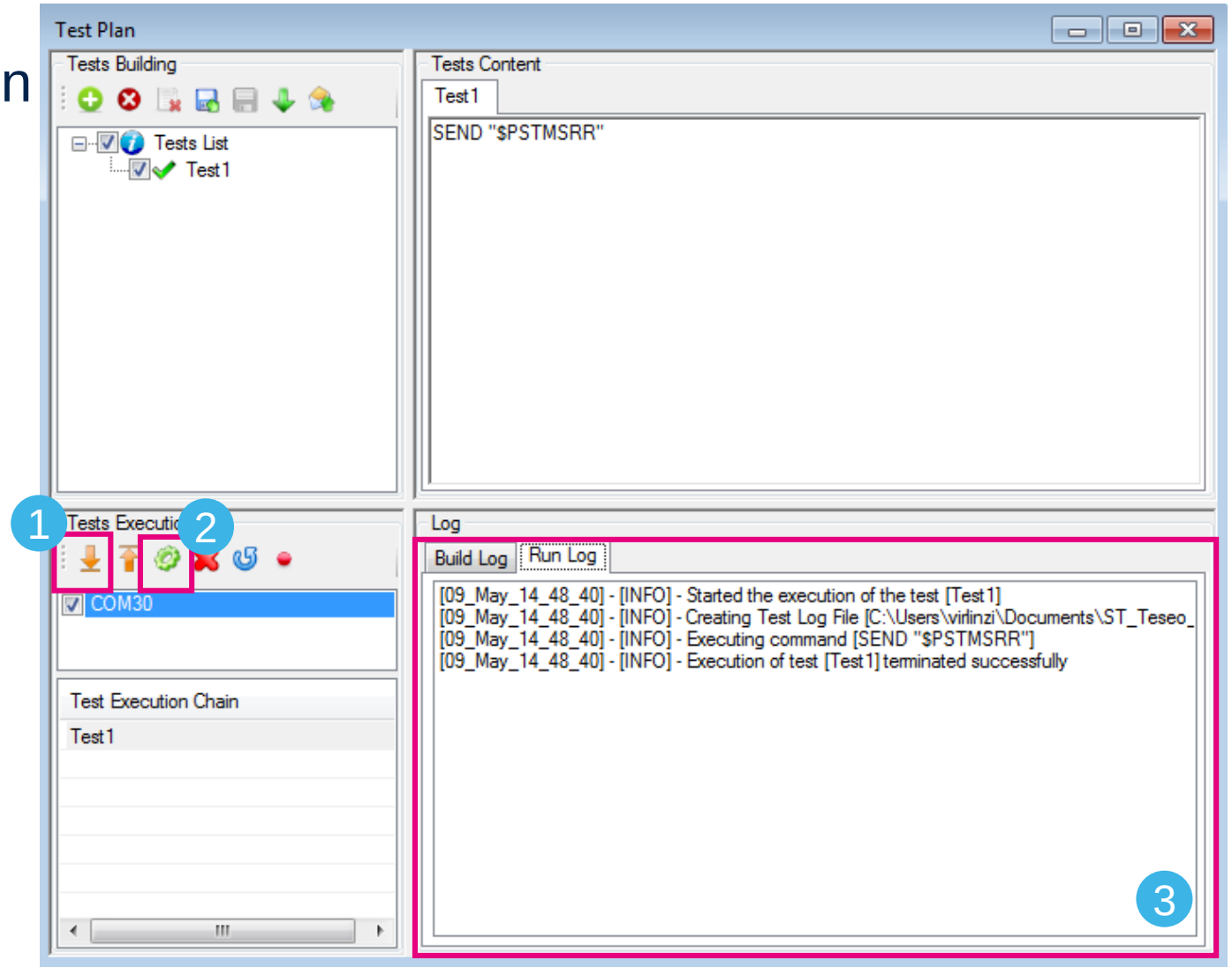
SEND “$PSTMSRR”

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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Quick testing guide – advanced scripts

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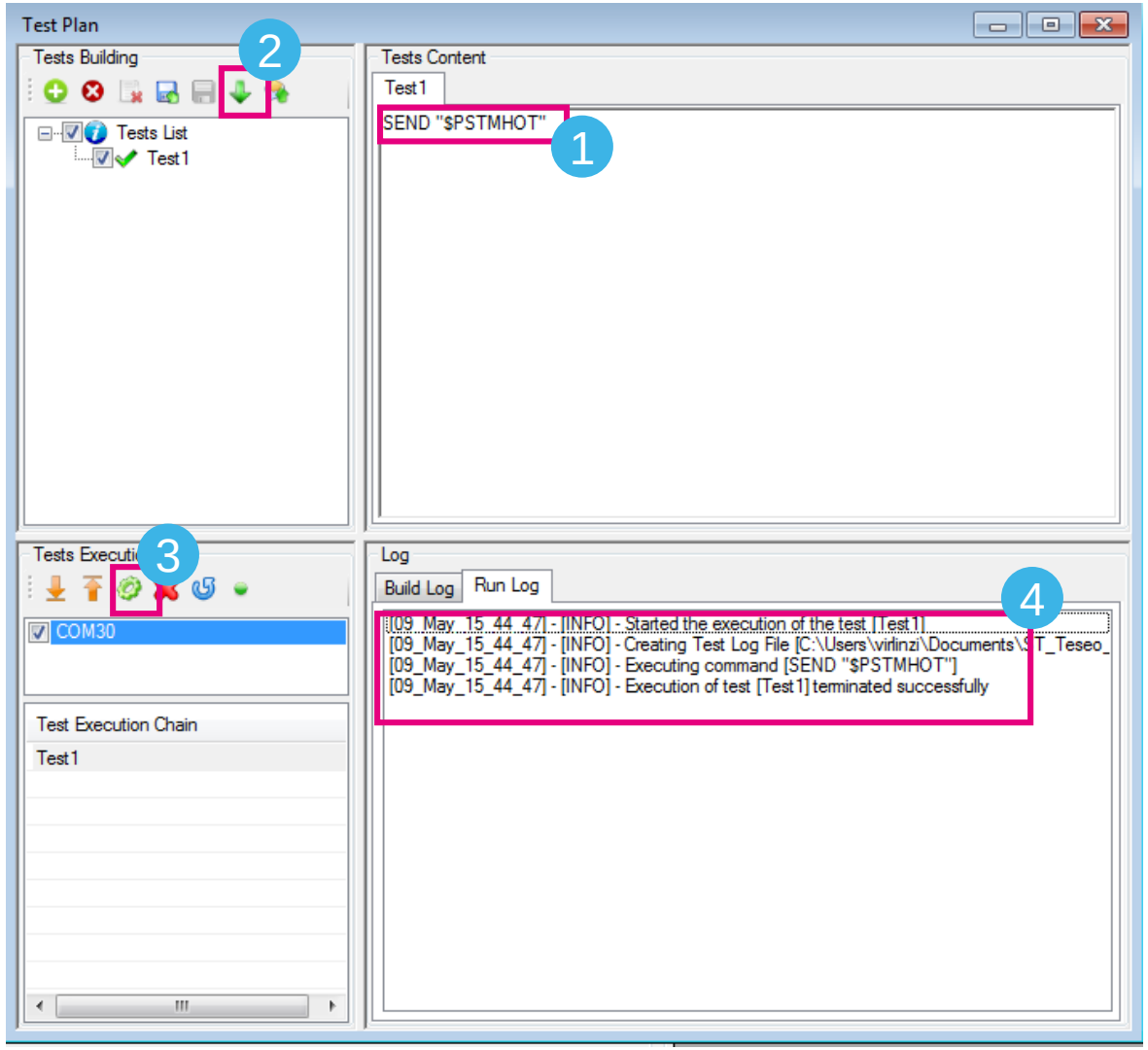
SEND keyword

Use the SEND keyword to send the NMEA command:

SEND “NMEA_cmd”

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

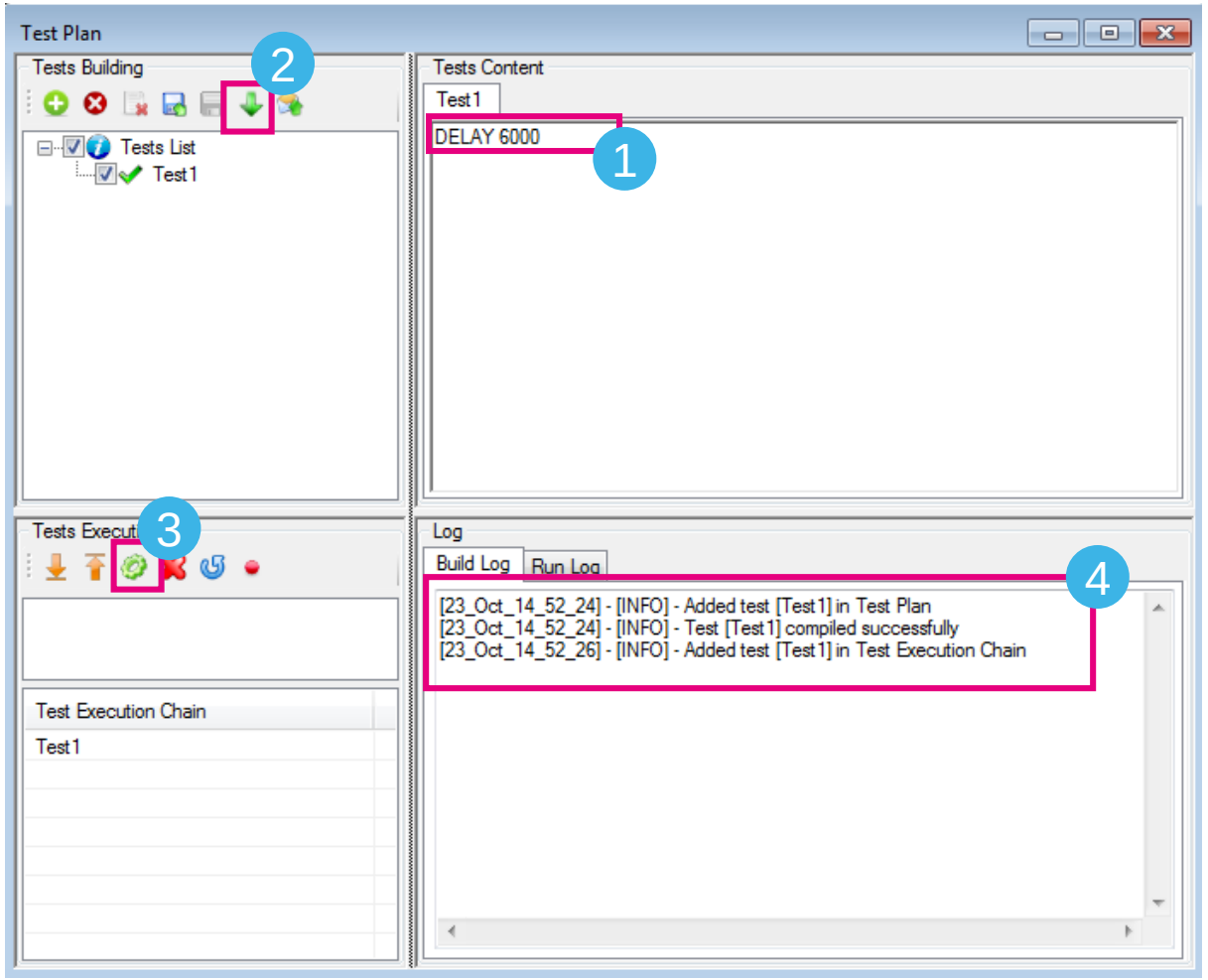


DELAY keyword

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

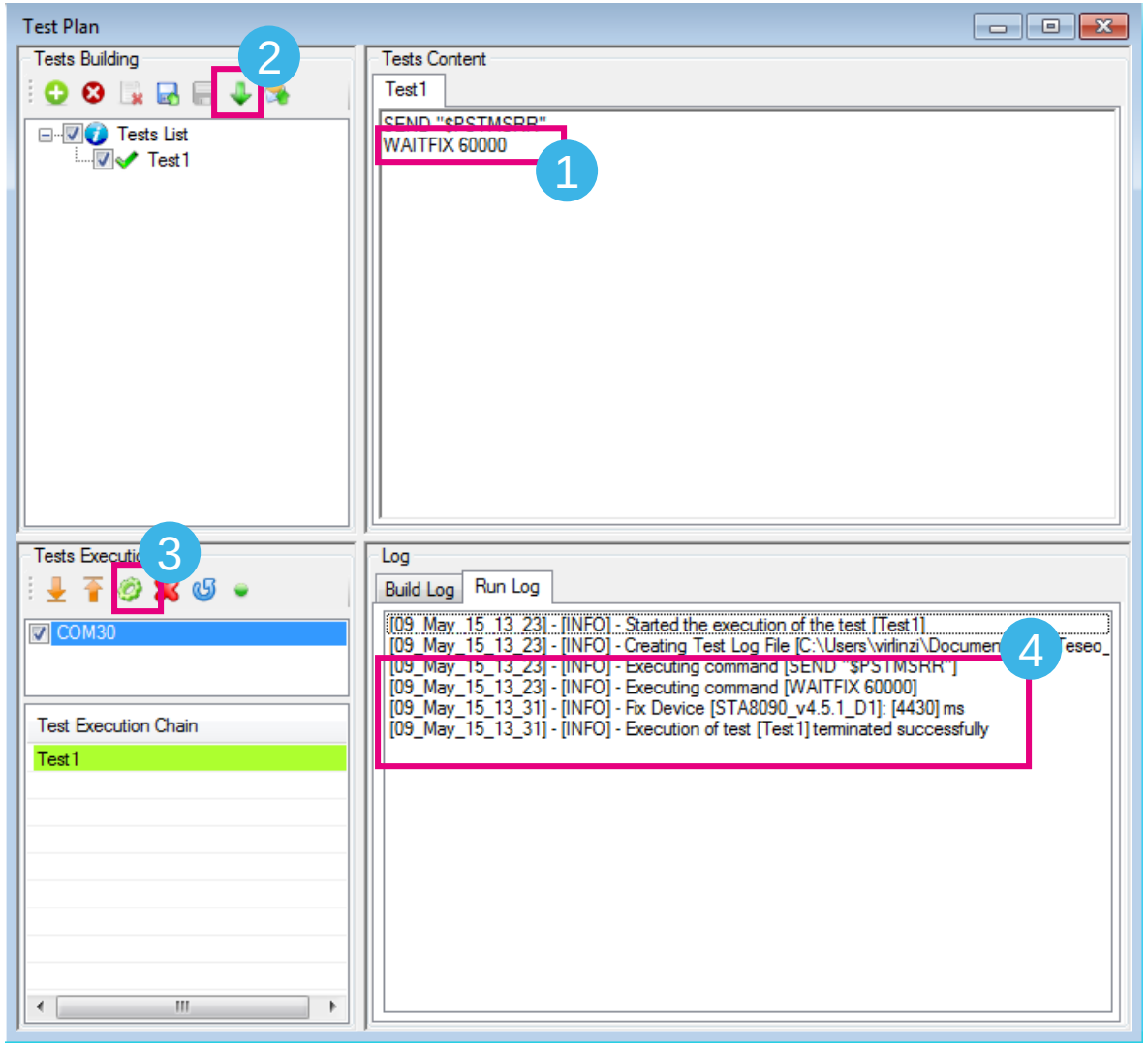


WAITFIX keyword

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

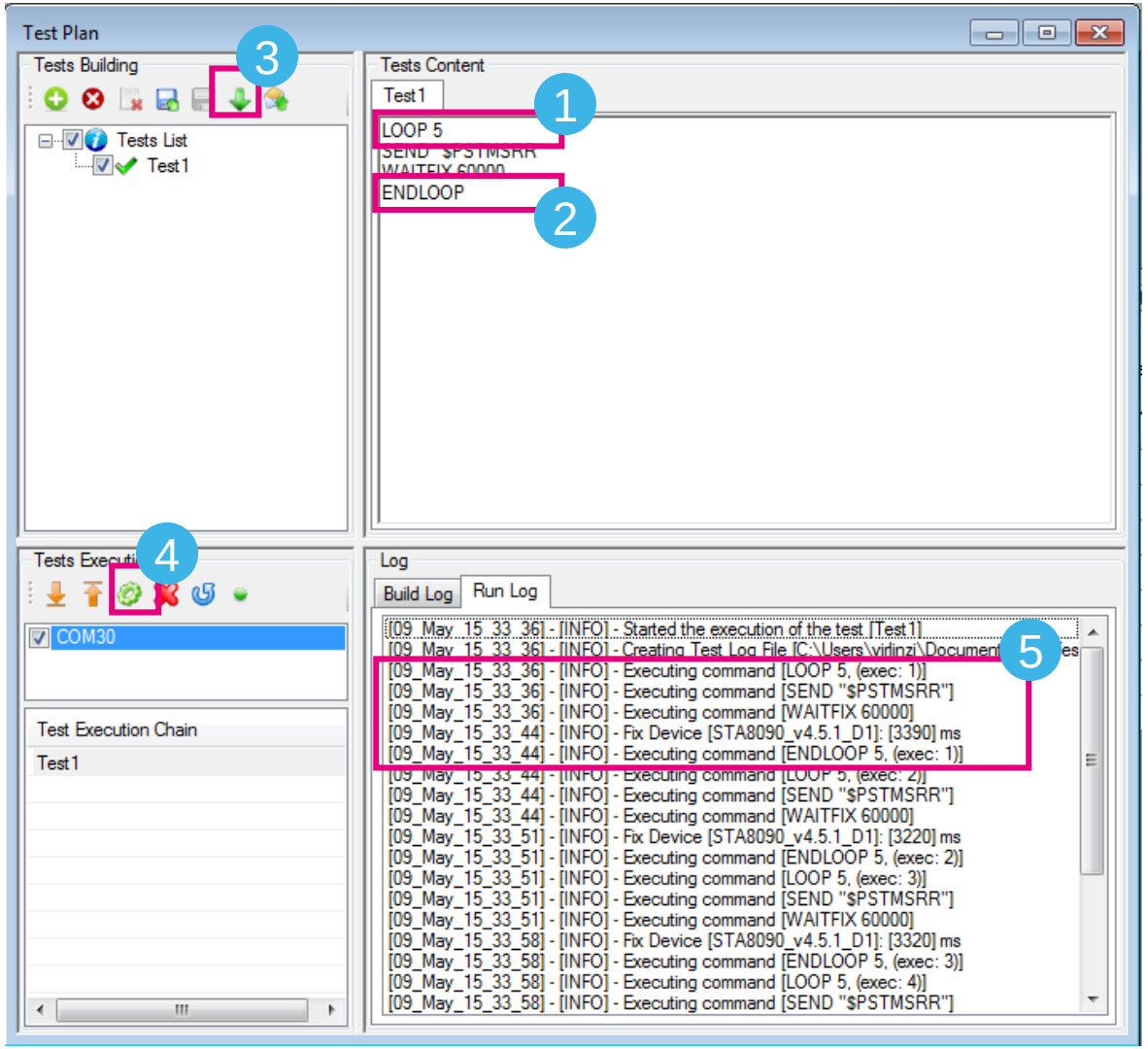


LOOP/ENDLOOP keywords

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

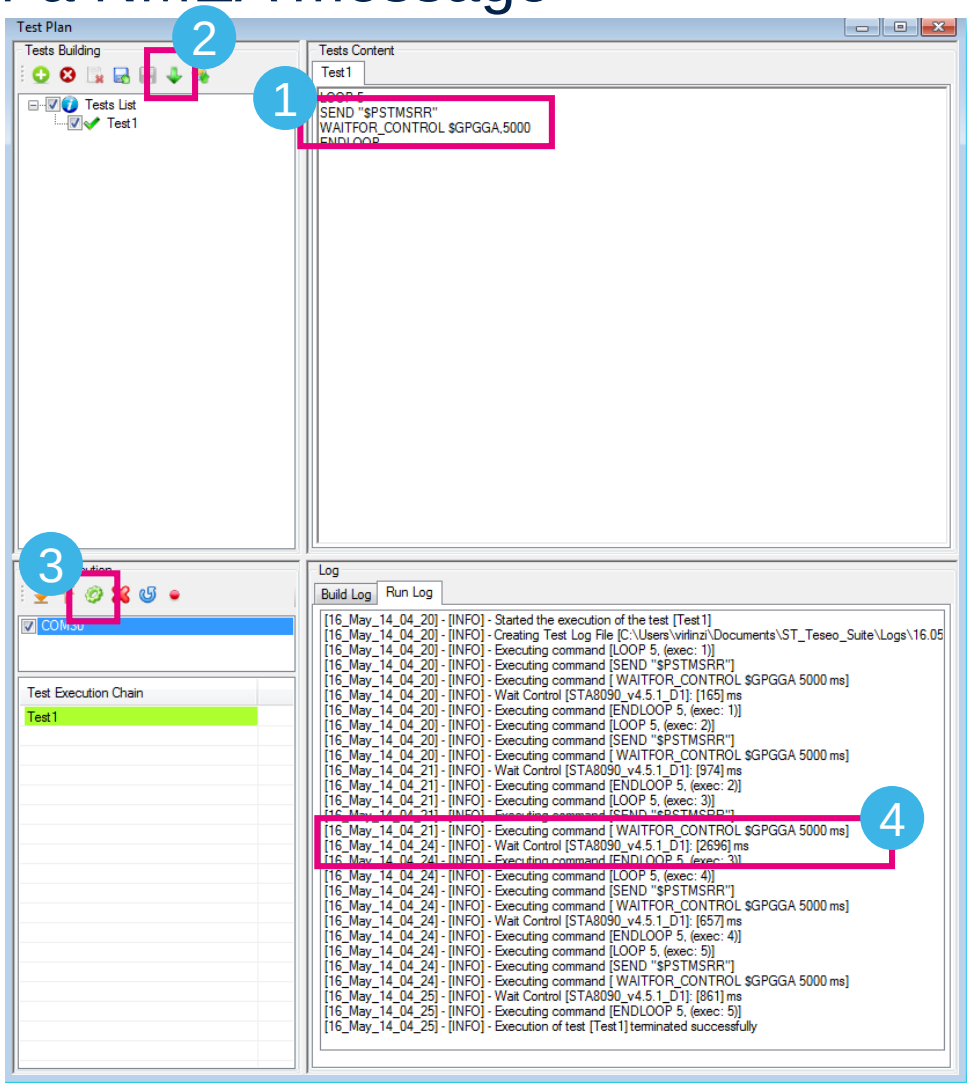


WAITFOR_CONTROL keyword

Usethe WAITFOR_CONTROL keyword to wait for a NMEA message

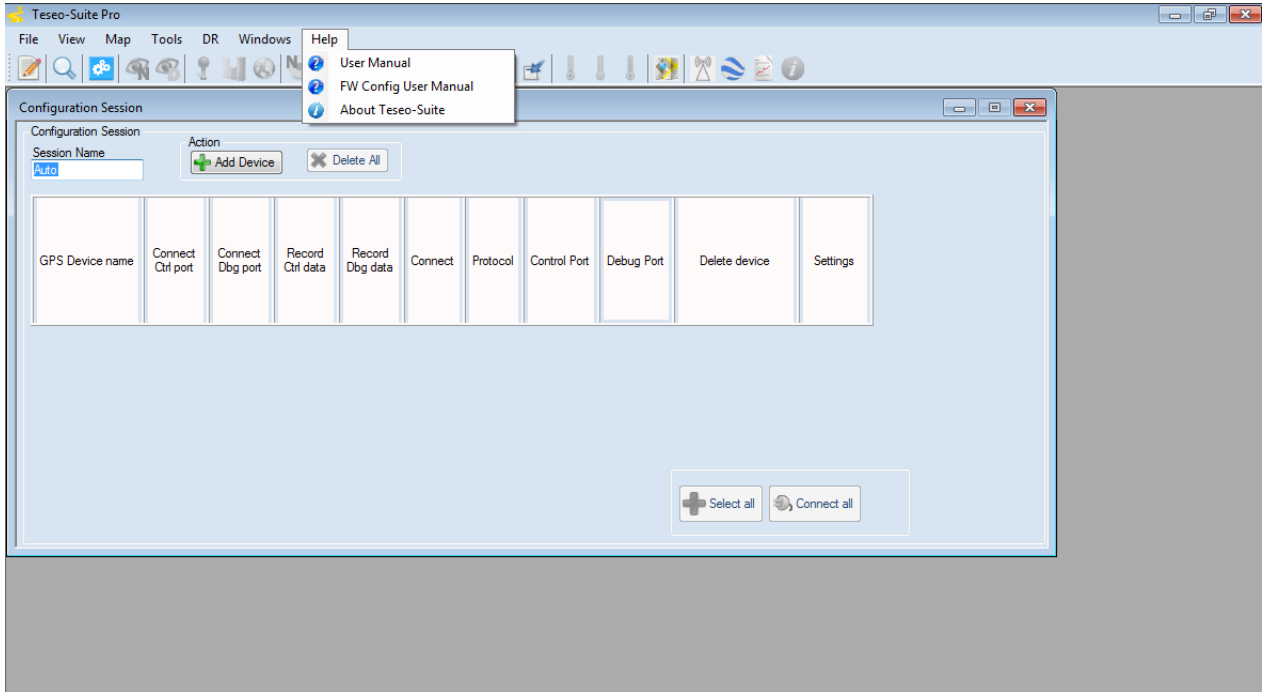
WAITFOR _CONTROL NMEA_msg, timeout

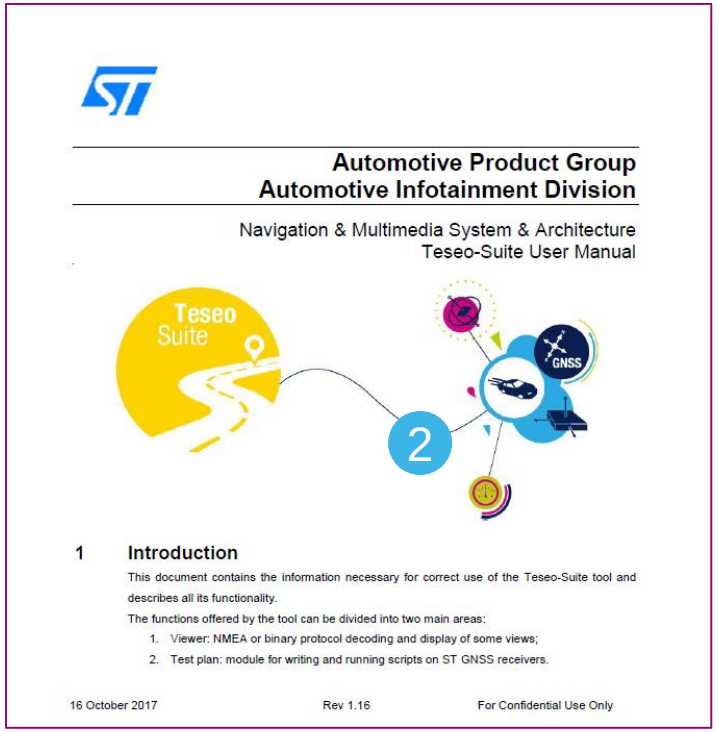
1. Add WAITFOR_CONTROL keyword
2. Compile
3. Run the test
4. Check the result



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





Automotive Product Group
Automotive Infotainment Division

Navigation & Multimedia System & Architecture
Teseo-Suite User Manual

1 Introduction

This document contains the information necessary for correct use of the Teseo-Suite tool and describes all its functionality.

The functions offered by the tool can be divided into two main areas:

1. Viewer: NMEA or binary protocol decoding and display of some views;
2. Test plan: module for writing and running scripts on ST GNSS receivers.

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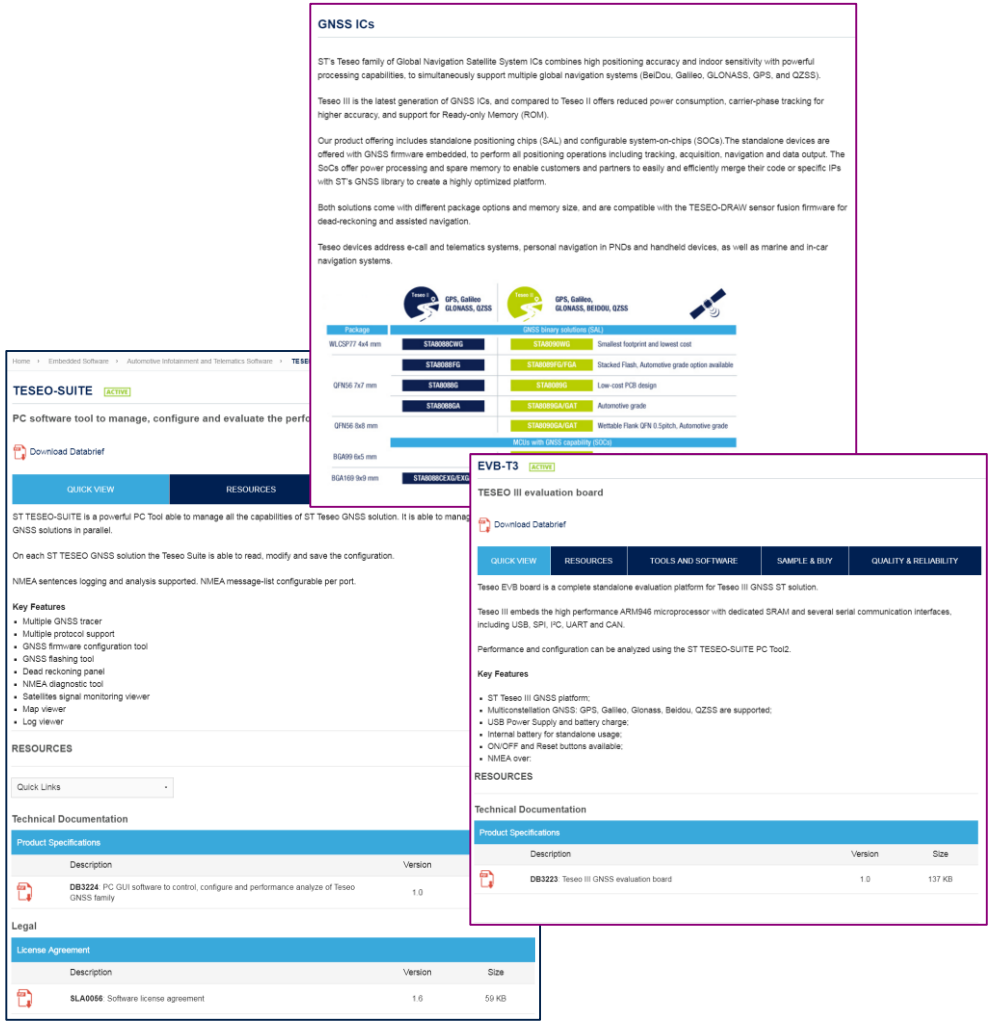
Documents & related resources

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



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.