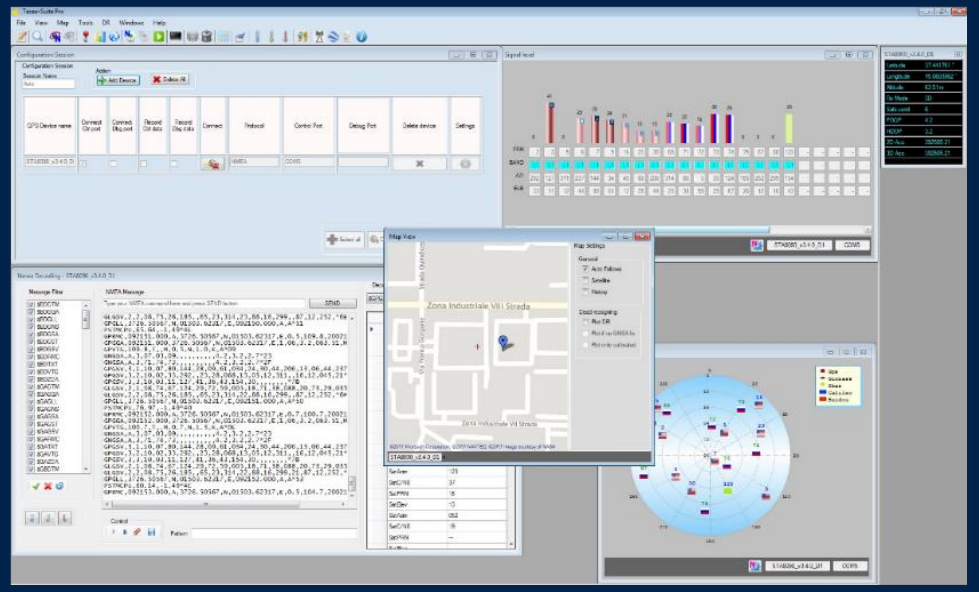
Teseo-Suite - Firmware Configuration

Quick Training Guide

Easy way to configure Teseo III ICs and Teseo GNSS Modules



Contents

Contents

Introduction

- Teseo-Suite is a powerful PC tool designed to manage, configure and evaluate the performance of all features and functions ST's Teseo GNSS solutions.
- Its configuration panel lets developers configure and evaluate all parameters of Teseo ICs and modules
- Configuration panels can work on
  - Connected devices during runtime using NMEA commands
  - Off-line on a binary file stored on the PC

Firmware data-model

- Each Teseo binary image or module firmware has a unique binary-ID (SW binary version); for each SW binary version, a specific xml-file-firmware-datamodel is available in Teseo-Suite
- The Firmware-DataModel guarantees the correct view and field descriptions for each Teseo firmware solution (ICs and Modules)

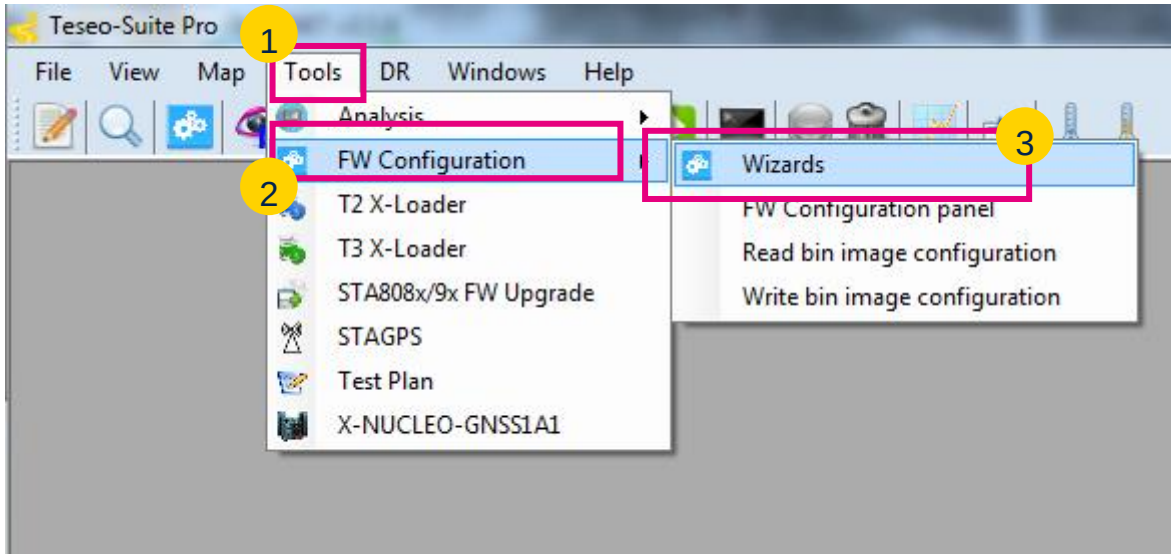
Contents

life.augmented

Using the FW configuration wizards

In the Teseo-Suite menu, select:

1. Tools
2. FW Configuration
3. Wizards



- When opening the Wizards, Teseo-Suite detects the connected device to load the SW binary version used to match the specific firmware-datamodel:
  - If the SW binary version matches, all the device-configuration is read from the device and decoded to fill in all the parameter's value
  - If the SW binary version doesn't match the xml file, an error message is displayed and the user must manually select an xml-file from the database

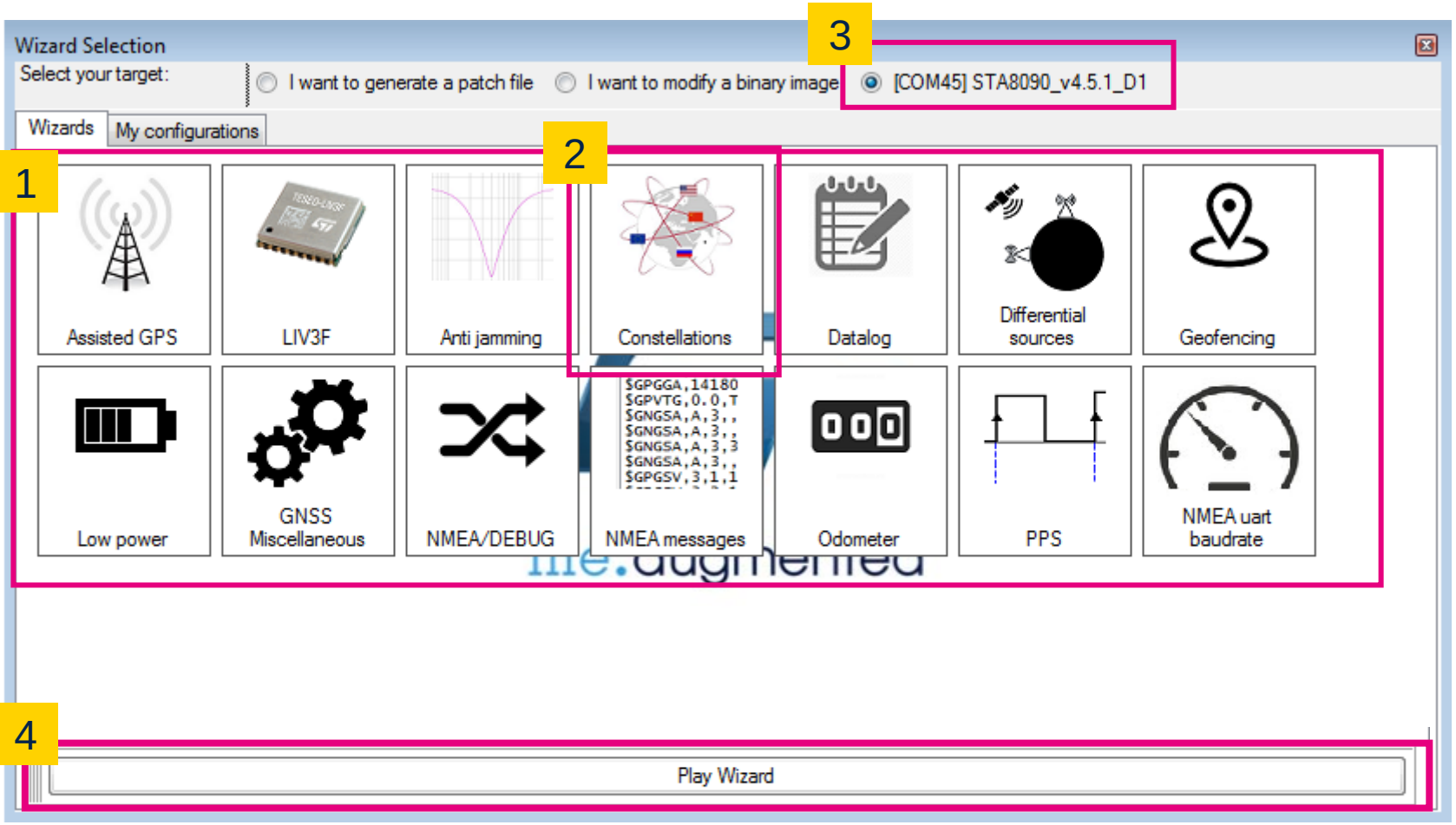
FW wizard overview

1 Dashboard of available wizards

2 Wizard panel button (multiple selection allowed)

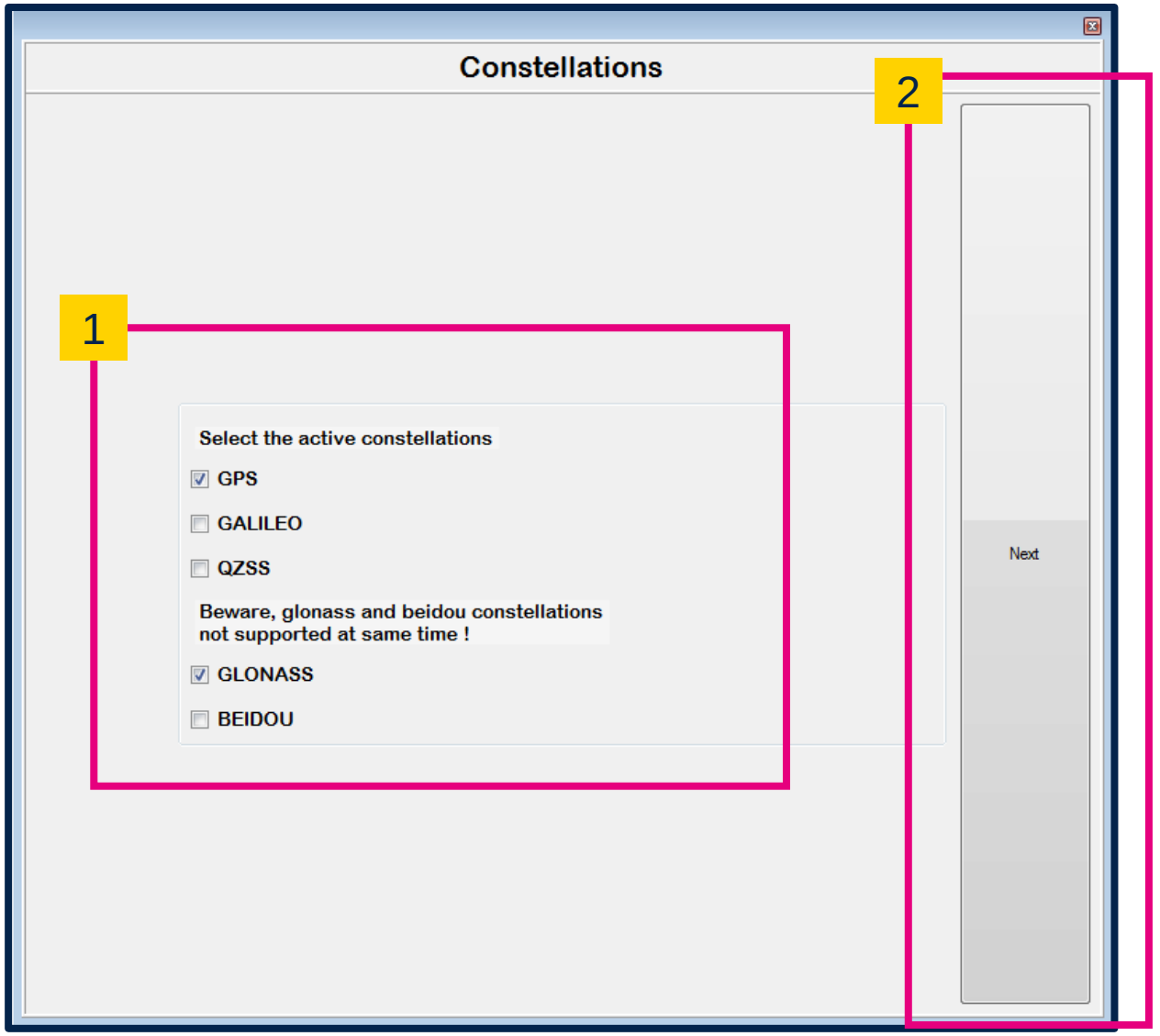
3 Connected device

4 Button to run the wizard



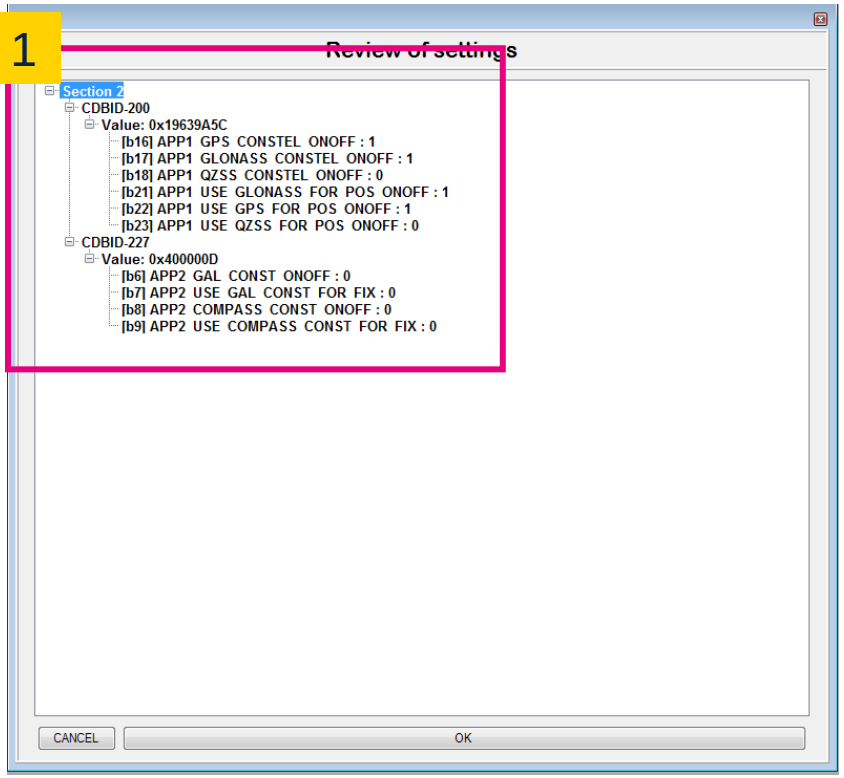
FW wizard panels

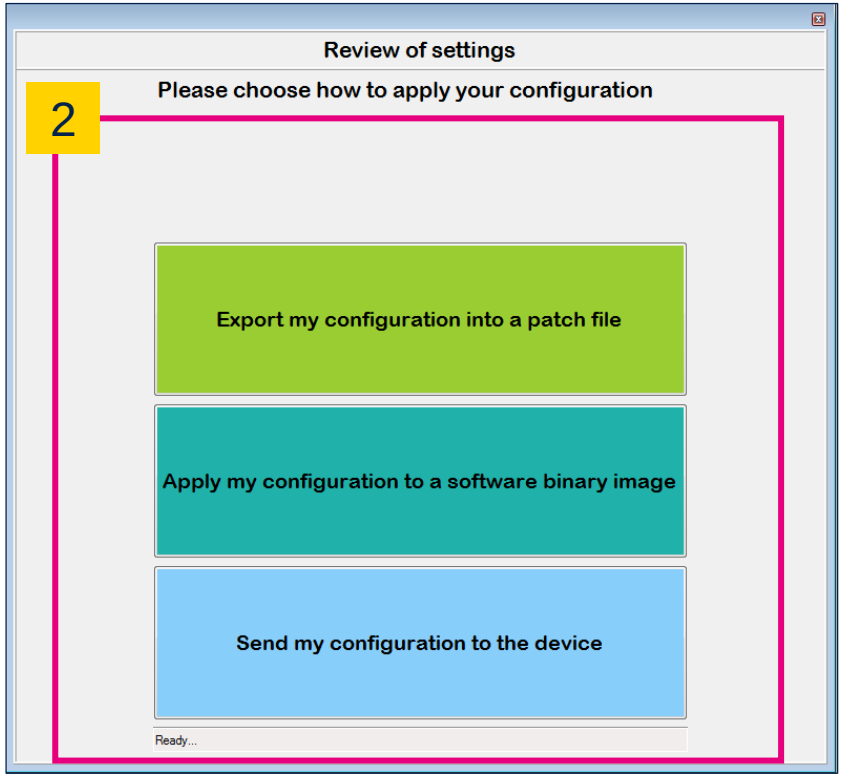
1. Each wizard panel can be configured individually
2. Click Next to continue



FW wizard configuration

1. After configuring the wizard, the user can review the modified Configuration Data Blocks (CDB)
2. Apply the new configuration to the connected device or file



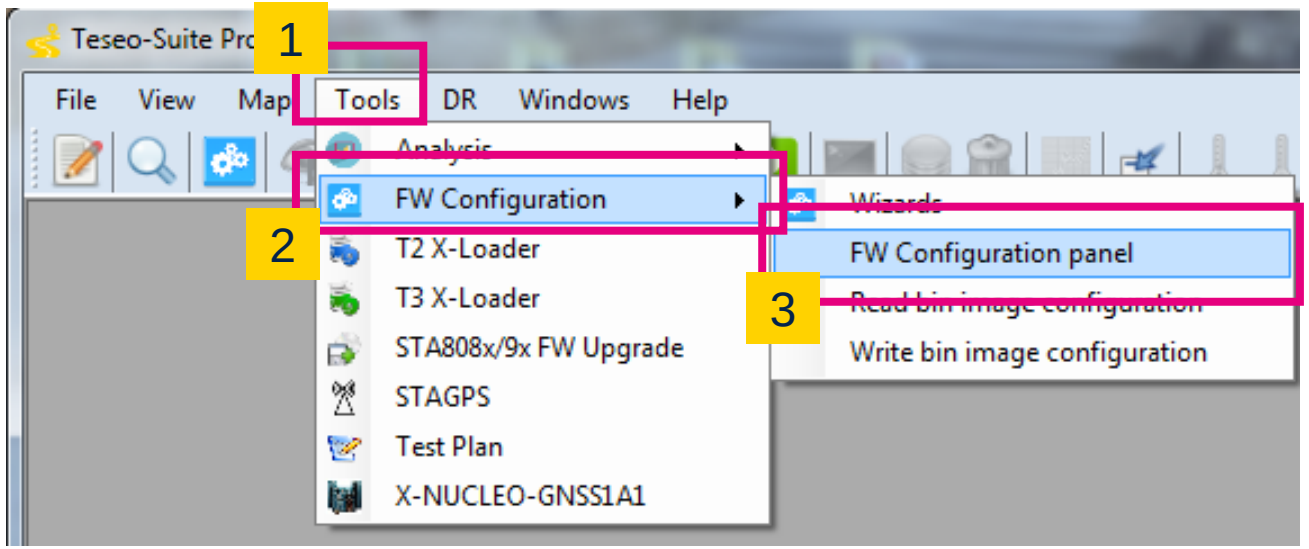


Contents

Using the FW configuration panel

In the Teseo-Suite menu, select:

1. Tools
2. FW Configuration
3. FW Configuration panel



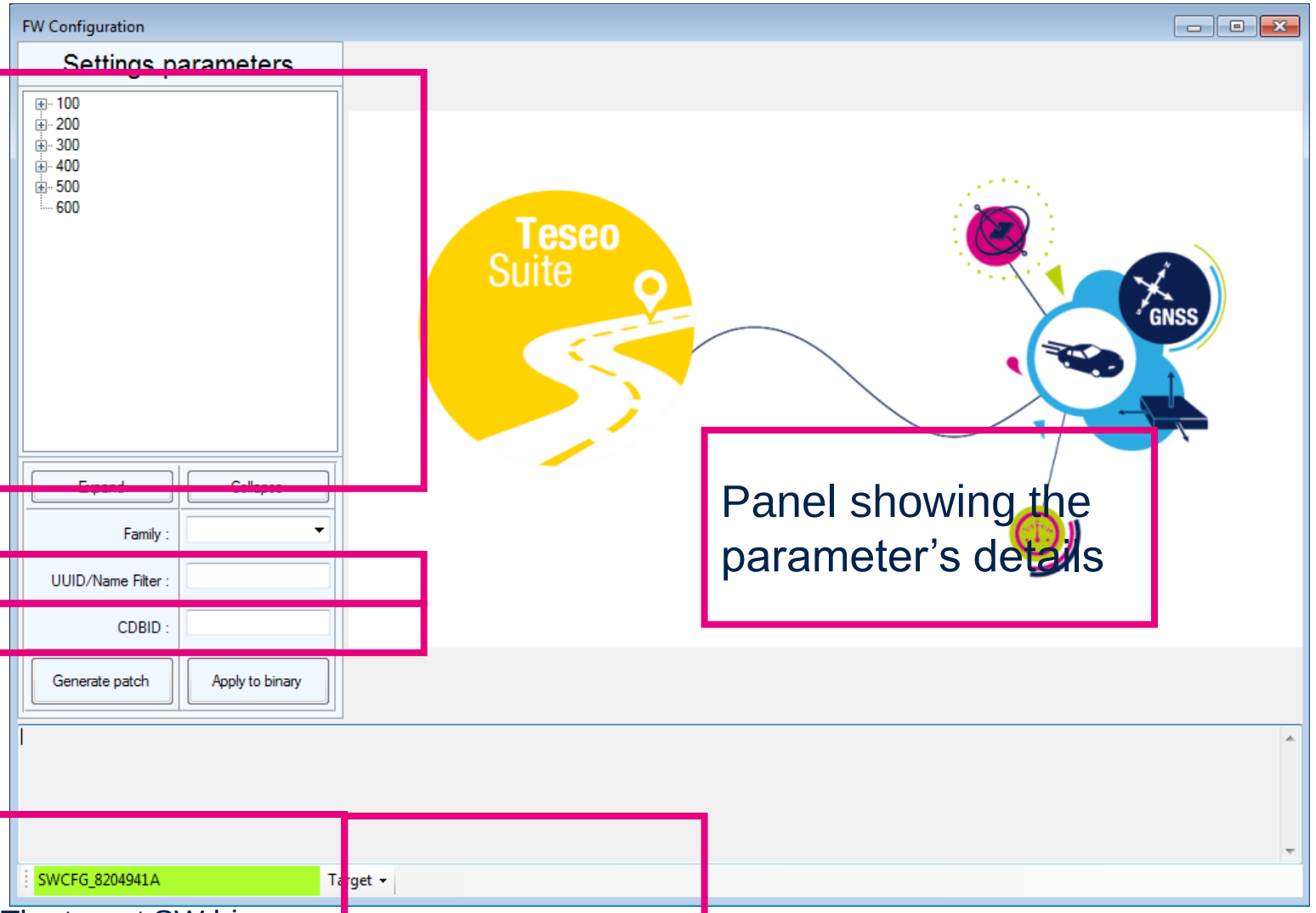
- When opening the FW Configuration panel, Teseo-Suite detects the connected device to load the SW binary version used to match the specific firmware-datamodel:
  - If the SW binary version matches, all the device-configuration is read from the device and decoded to fill in all the parameter's value
  - If the SW binary version doesn't match the xml file, an error message is displayed and the user must manually select an xml-file from the database

FW configuration panel overview

Tree view showing all the parameters sorted either by group either by family

Hidden parameters not visible

CDB under editing



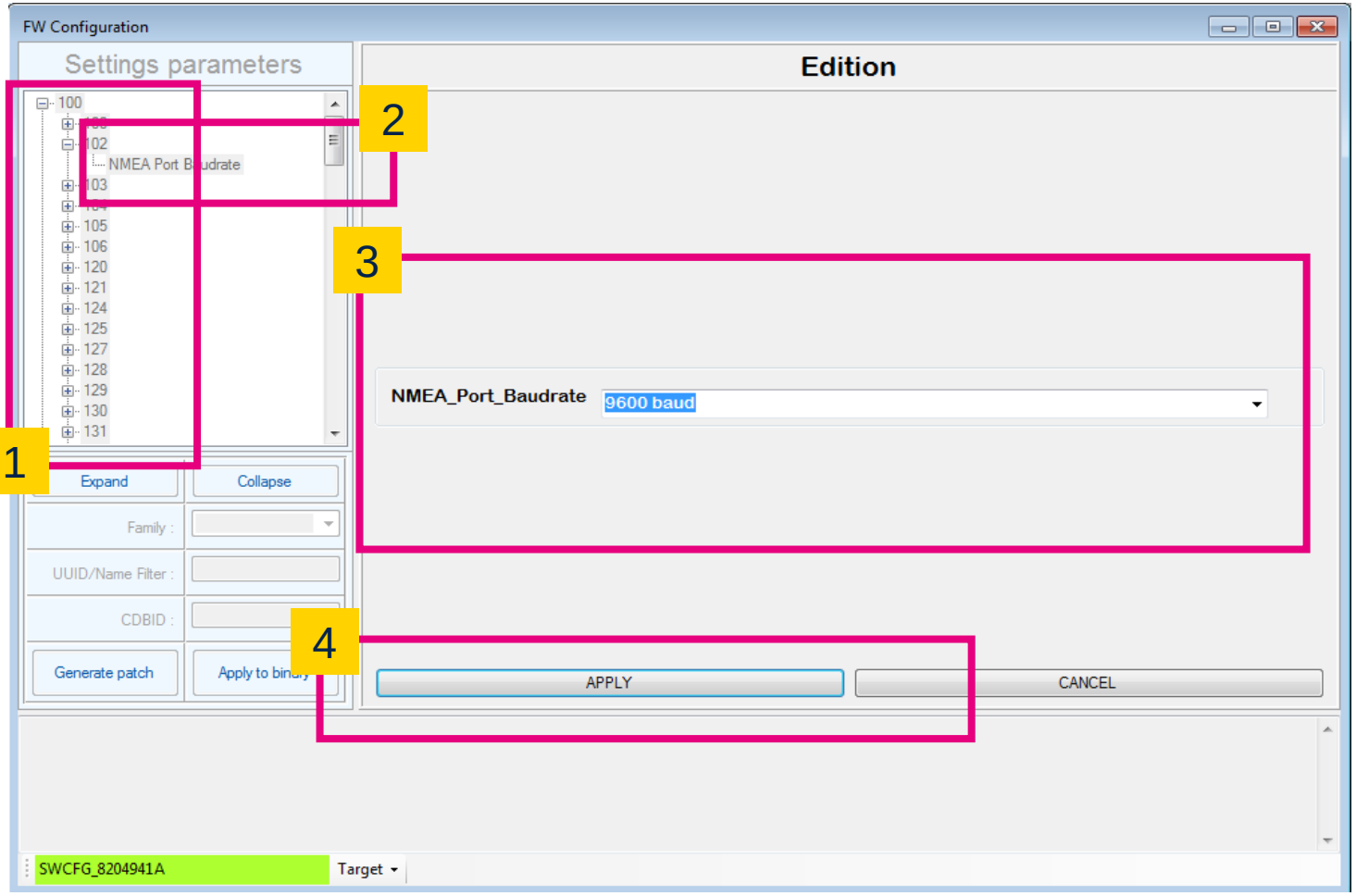
Panel showing the parameter's details

The target SW binary image version

Device selection

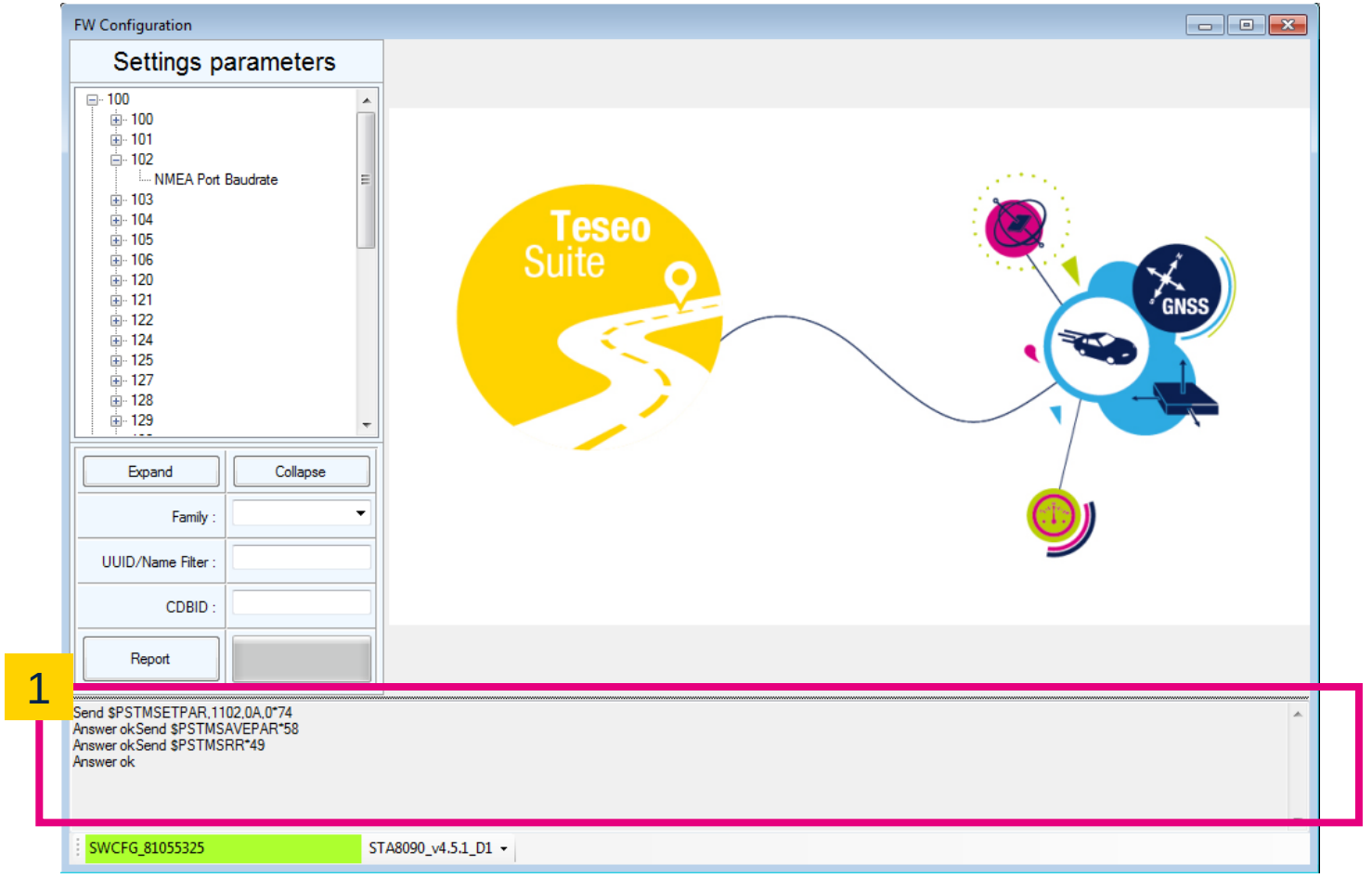
Modify the configuration [1/2]

1. Expand the tree to select the correct CDB-ID
2. Double-click on the field
3. The Edition panel will appear with the allowed values
4. Apply your changes



Modify the configuration [2/2]

1 In the log panel, you can highlight the NMEA replies to the Teseo commands to modify the configuration

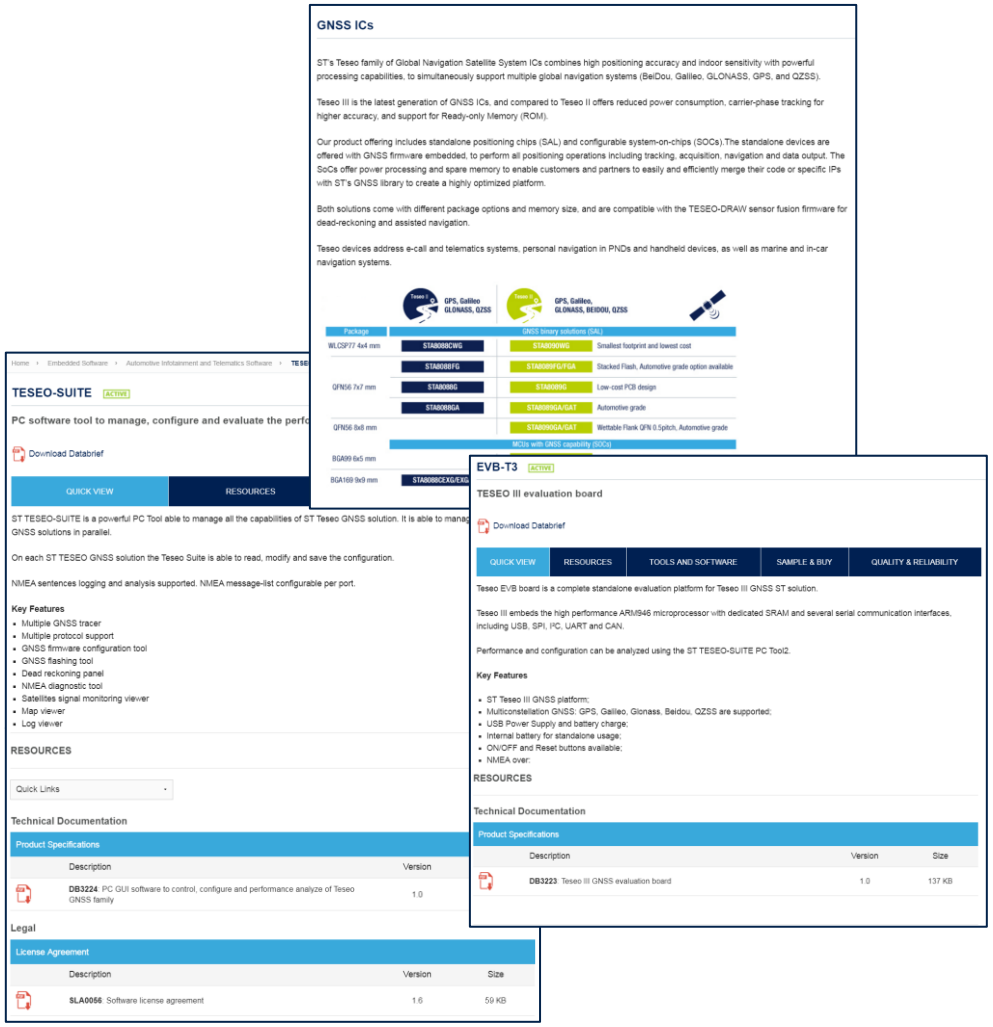


Contents

Documents & related resources

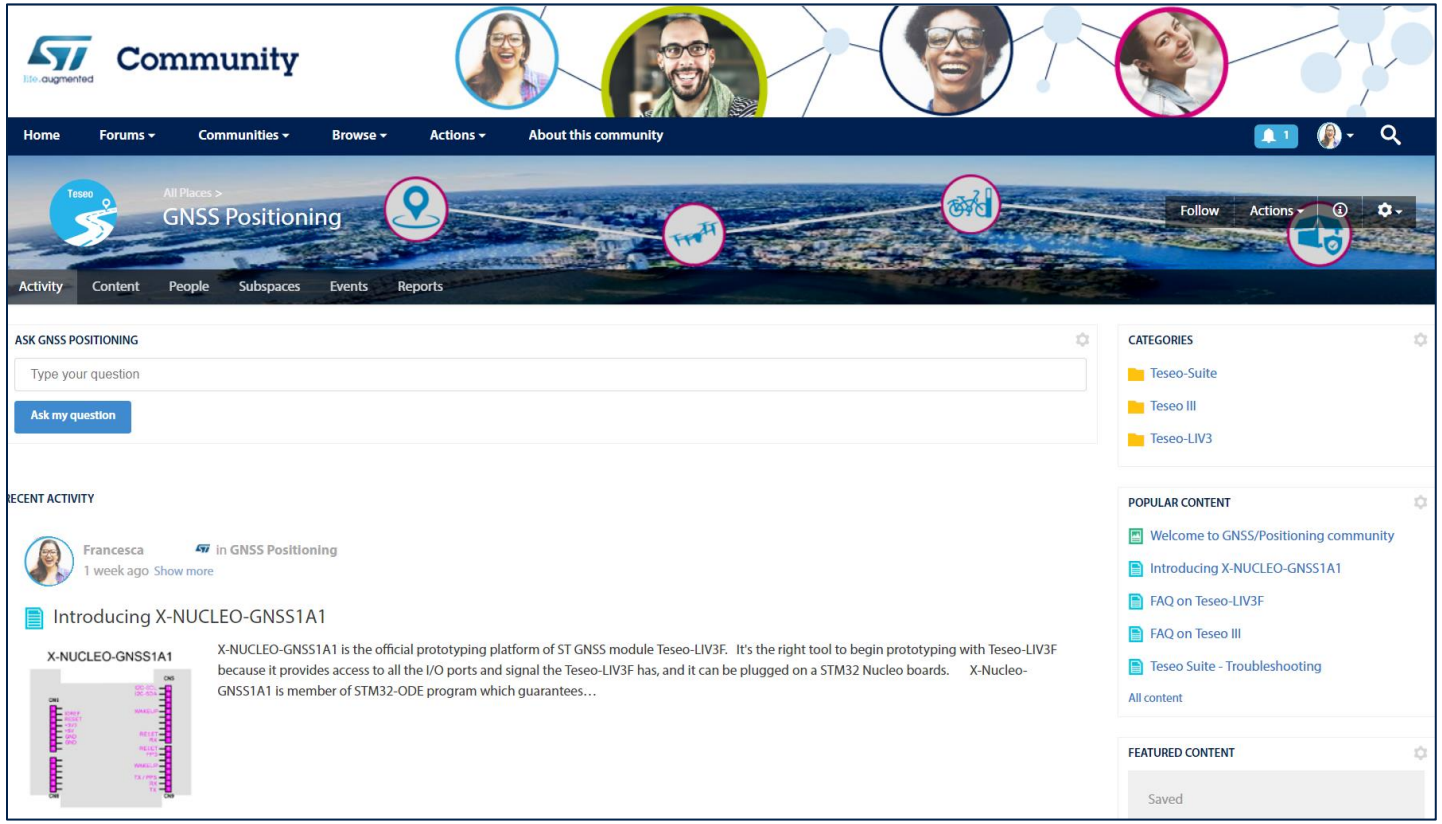
All documents are available on:
www.st.com

- Teseo ICs: Webpage
  - Product datasheets
- Teseo Modules: Webpage
  - Product datasheets
- Teseo-Suite: Webpage
  - Datasheet, user manual and training material
  - Install program
  - Video training



Join the ST GNSS community

- Get involved in the ST GNSS community
- Share ideas
- Ask questions



https://community.st.com/community/gnss