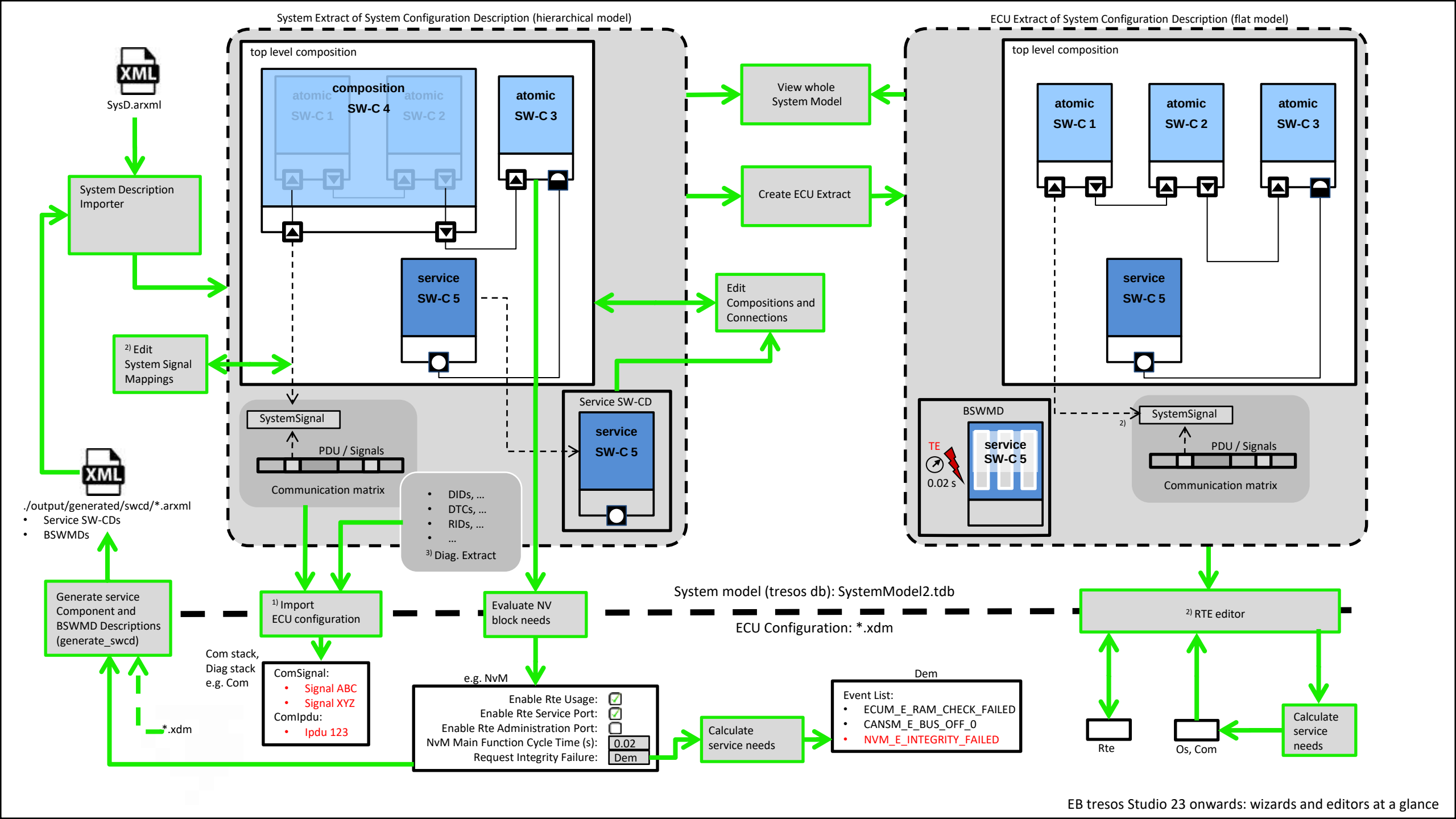
EB tresos Studio wizards and editors at a glance



EB tresos Studio 23 onwards: wizards and editors at a glance

Footnotes / Notes

Note:
Only wizards and editors are shown which are relevant for the overall workflow and which have interaction / dependencies within the workflow.

Footnotes:

- [1)] Import ECU configuration
  To convert the ECU configuration relevant parts out of the System Description format (communication matrix, diagnostic) into the ECU configuration format, there are two possibilities:
  - Within the System Description Importer. This option was removed in versions 23 of EB tresos Studio but is available in older versions
  - With the unattended wizard “Import ECU configuration”, introduced in version 19 of EB tresos Studio
- [2)] Mapping of System Signals
  To map signals from the communication stack to ports of the SW-Cs via SystemSignals, there are two possibilities:
  - With the RTE editor (This functionality has been removed from RTE editor with Module version 6.1.158 from 2015-11-10). Nevertheless, the RTE editor can do a data mapping based on the configured Com signals.
  - With the Signal Mapping Editor, introduced in Version 19 of EB tresos Studio
- [3)] Diagnostic Extract
  Even it is completely separated of the System Description, the Diagnostic Extract is shown as part of it, because the workflow is completely identical.
- [4)] Update Service Component and BSWMD descriptions
  This unattended wizard generates the SW-C descriptions of the service components as well as the BSWMDs in temporary files and imports them into the system model.
  Instead of this approach, another approach gets more and more popular in the projects:
  The service components as well as the BSWMDs are generated with the generator mode: generate_swcd into the folder ./workspace/<project>/output/generated/swcd and added to the System Description importer. With this setup, the complete system model is generated by executing the SystemDescription importer.

System Categories (according to AUTOSAR System Template)

- SYSTEM_DESCRIPTION
  The System class is used to describe the System Configuration of a complete AUTOSAR System. In this usage, it forms the core element of a System Description, the output of the AUTOSAR System Generator.
- SYSTEM_EXTRACT
  The System class is used to describe a subsystem specific view on the complete System Description. The System Extract is not fully decomposed and still contains compositions. The SYSTEM_EXTRACT is the basis for designing subsystems.
- ECU_EXTRACT
  The System class is used to describe the ECU specific view on the complete System Description. In this usage, it forms the core element of ECU Extract, the output of the AUTOSAR ECU Configuration Extractor. The ECU Extract is fully decomposed and contains only atomic software components. The ECU Extract is the basis for setting up the ECU Configuration.

Get in touch!

Elektrobit

sales@elektrobit.com
www.elektrobit.com