

DaVinci Configurator Pro

Conveniently Configure, Validate and Generate the AUTOSAR Basic Software and the RTE

What is DaVinci Configurator Pro?

DaVinci Configurator Pro is the central tool for configuring, validating and generating the basic software (BSW) and the runtime environment (RTE) of an AUTOSAR ECU. You can use this tool for MICROSAR modules from Vector as well as for your own BSW.

Highlights of Version 5.18

Optimized Project Update Function

- > Shorter roundtrip time by selective update of diagnostic modules only
- > Derivation of SecOC parameters according to AUTOSAR 4.3.1
- > Modify the input system description with Groovy scripts

Improved Usability of Task Mapping Editor

- > Display the origin context of the Software Components (SWC)

Overview of Advantages

- > Automatic parameterization of the BSW based on the OEM's system and diagnostic descriptions
- > Specific configuration interfaces for all areas of the BSW and the RTE
- > Easy to integrate modules from third-party suppliers
- > Validation of configuration with troubleshooting tips
- > Workflow support for a continuous integration of the ECU software

Options

- > **Option RTE:** Configure the MICROSAR RTE with assistance functions and customized editors for integrating SWCs
- > **Option MD:** Develop your own modules with a SDK
- > **Option WF:** Develop workflow scripts for automatic correction of input data and for controlling DaVinci Configurator Pro

The screenshot displays the DaVinci Configurator Pro interface with several key components:

- Configuration Editors:** A tree view on the left showing categories like Base Services, Communication, Diagnostics, I/O, Memory, and Mode Management.
- Memory Blocks:** A table listing various blocks such as App_Blk_1, App_Blk_2, and various DemPrimaryDataBlock instances.
- BSW Management:** A central panel for configuring communication control rules, including sections for General Settings, Auto Configuration, and Rules.
- Properties:** A detailed view of the selected 'App_Blk1' component, showing its description and status.
- Validation:** A console at the bottom showing 240 messages in 20 categories, including warnings like 'Deviation from initial configuration' and 'Incomplete DbgStaticIDD configuration'.

DaVinci Configurator Pro user interface with specific comfort views for configuring the basic software.

Special Functions

Project Update

- > Derive parameters from the OEM's system and diagnostic description files
- > Write-protected display of derived parameters
- > Correction of errors in the system description by controlled overwriting of individual derived parameters
- > Automatic updating of the configuration after changes to the system description

Support of continuous integration

- > Execution of scripts to modify the system description during project update
- > Execution of automation scripts to modify the ECU configuration

Coordination Between OEM and TIER1

- > Generate an HTML report, e.g. about parameters that deviate from the system description
- > Switch the configuration phase for post-build loadable ECUs

Multi-user Projects

- > Diff/Merge function for integrating different branches of a project

Editing the Network Description

- > AUTOSAR Network Explorer is integrated in DaVinci Configurator Pro for editing network descriptions in ARXML format.

Creating variant ECU code (post-build selectable)

- > Define variants (Evaluated Variant Sets according to the AUTOSAR concept)
- > Select the input file set per variant
- > Create an overall configuration with all variants
- > Interface filters for displaying a single variant
- > Display the variance/invariance of individual parameters

Product Variant

The variant **DaVinci Configurator Ltd** can be used as an alternative to the DaVinci Configurator Pro. However, it can only be used in conjunction with Vector embedded software packages that allow the use of DaVinci Configurator Ltd. You will find corresponding information in the "Customer Report" of your embedded software package.

Vector AUTOSAR Solution

You can obtain many AUTOSAR products from Vector for the entire development process – from design to functional development, basic software and integration as well as for testing and calibration.

More Information:

www.vector.com/davinciconfiguratorpro

