

DaVinci Configurator Pro

Configuration of the AUTOSAR Basic Software

The AUTOSAR standard describes methods for configuring and generating the Basic Software Modules (BSW modules) of an AUTOSAR ECU. It includes tasks to be performed by the tools and exchange formats. DaVinci Configurator Pro is the professional tool for configuring your AUTOSAR ECU software.

Properties and Advantages

DaVinci Configurator Pro guarantees consistent configuration parameters by a multistage validation process. Missing or faulty configurations are detected and corrected as early as possible. The tool has the following properties:

- > Supports all available AUTOSAR Releases (2.0, 2.1, 3.0 and 3.1).
- > Enables parallel configuration of modules based on different AUTOSAR Releases such as 2.1 and 3.0
- > Intuitive and convenient user guidance
- > Automated configuration and highly adaptable generation sequences make integration into your development process ideal.

Application Areas

Vector DaVinci Configurator Pro supports the professional user in optimally configuring all MICROSAR BSW modules. It is also able to configure AUTOSAR modules from third-party vendors and makes it easy to integrate their generators.

The GENy tool is included with the product, and it is used to conveniently configure communication-related MICROSAR BSW modules of the COM, CAN, LIN and FlexRay packages as well as

diagnostic modules of the DIAG package. GENy provides functional extensions for these modules.

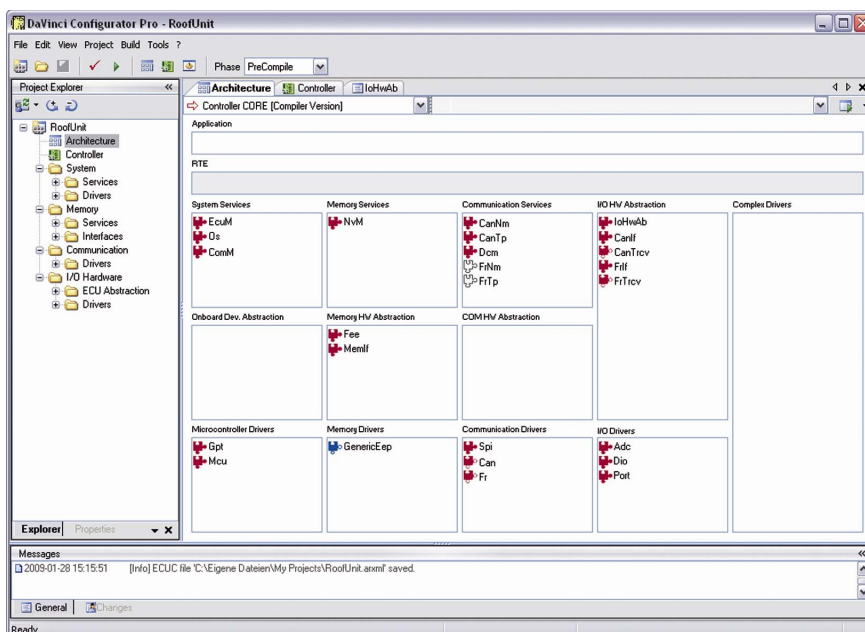
Functions:

The combination of DaVinci Configurator Pro and GENy lets you configure all of the BSW modules. It offers the following features for the parameters to be configured:

- > Conformance to AUTOSAR specifications
- > Simplified representation of complex configuration interrelationships
- > Preselection of valid input values
- > Mature, rule-based validation process (DaVinci Configurator Pro)
- > Validity and consistency check of individual values over the entire project
- > Optimized user interface to display configuration parameters for the above-named communication modules (GENy)
- > Automatic supplementation and correction of configuration settings to assure consistent overall configuration of communication parameters (GENy)

Useful auxiliary Tools included in the Delivery:

- > **Base ECUC Generator** for generating an ECUC file from a System Description
- > **ECUC Updater** for transferring an existing configuration to a new ECUC file
- > **ECUC Differ** for comparing ECUC files



Configuring BSW modules with
DaVinci Configurator Pro

Contact

We provide various services to support your work. We also provide hotlines, special workshops and training events on the topic of embedded software and AUTOSAR. You can obtain further information at www.micosar.com or by request.

E-mail: embedded@vector-informatik.com

Telephone: +49 711 80670 400

DaVinci Configurator Kit (Software Development Kit)

The DaVinci Configurator Kit is an extension of DaVinci Configurator Pro. You can use it to create, in a convenient and user-friendly way, configuration interfaces for software modules you have developed on your own. You can also define value ranges and validation rules for configuration parameters and define the process steps for code generation.

DaVinci Configurator Kit lets you:

- > Create, with tool support, the interface files for defining and validating all configuration parameters and for generating the AUTOSAR files
- > Create code generators
- > Integrate complex, application-specific dialogs or algorithms using interface files
- > Create module-specific and user-friendly user interfaces with a GUI design tool
- > Create BSW Module Description files for software modules you developed based on AUTOSAR standard definitions
- > Easily create any number of definable project reports to document the configuration used.

Scope of Delivery

DaVinci Configurator Pro:

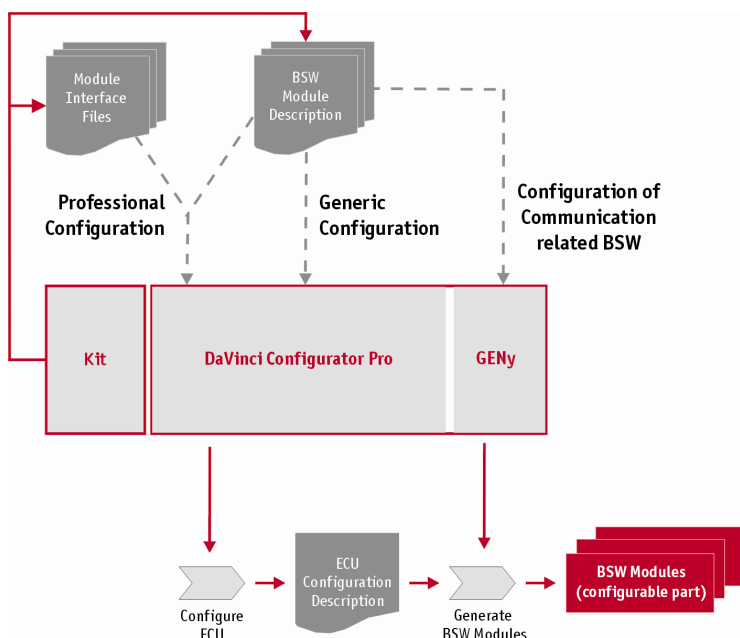
- > Windows-based configurators: DaVinci Configurator Pro and GENy
- > Base ECUC Generator, ECUC Updater, ECUC Differ

DaVinci Configurator Kit:

- > Extensive documentation of the DLL and XML interfaces to the interface files
- > Training and consultation
- > Application examples

Optional Services

- > Creating interface files needed to integrate a configuration user interface for any desired modules in DaVinci Configurator Pro
- > Consulting in system design
- > Integrating Basic Software into existing ECUs
- > Extending standard modules and development of customer-specific AUTOSAR Software Components (SWCs)
- > Hotline, special workshops and training courses on the topic of embedded software and AUTOSAR



DaVinci Configurator Kit supports you in creating configuration user interfaces for software modules you create yourself.