

# DaVinci Developer

## User-Friendly Design of AUTOSAR Software Components

### What is DaVinci Developer?

DaVinci Developer is a tool for designing the architecture of software components (SWCs) for AUTOSAR ECUs. This tool lets you create a graphic design of the interfaces, define the internal behavior with runnable entities and link the SWCs to one another.

### Highlights of Version 4.0

#### Optimized Overview and Easier Navigation

- > Newly designed main window
- > Ribbon in .NET style

#### Easy Overview of Objects Thanks to the Hierarchical Properties View

- > Combined display of objects including sub-objects

#### Faster Development with New Object Browser

- > Display of object relations with only few clicks
- > Integrated display of referenced and referencing objects

### Overview of Advantages

#### User-friendly and Easy Design of AUTOSAR SWCs

- > Numerous graphic editing functions
- > Check the SWCs for AUTOSAR conformity
- > Link model-based development tools via ARXML

### Options

#### Option CPG: Contract Phase Generation

This option lets you generate the header file and the implementation template file for C-based applications easily and quickly from the DaVinci Developer tool.

The screenshot displays the DaVinci Developer software interface. The main window shows a software design diagram with various components and their interconnections. The interface includes a ribbon menu at the top with tabs for File, Home, Project, Graphic, and Window. Below the ribbon are several toolbars for editing and navigation. On the left, there is an Object Browser showing a hierarchical tree of objects. On the right, there is a Properties view showing the details of a selected component, including its name, package, and various attributes. At the bottom, there is a Messages pane showing a successful check result.

**DaVinci Developer assists you in developing and integrating the application software of AUTOSAR-conformant ECUs.**

## Special Functions

### Project Update

- > Special import functions for updating the SWC architecture after a change has been made to the input data given by the OEM

### Auto Mapping

- > Automatically generate connectors between SWCs
- > Automatically generate data mapping between SWCs and network signals
- > Name-based search algorithm designed for typical OEM naming rules

### Data Exchange Analysis

- > Representation of data exchange in the ECU by analysis of the SWC architecture
- > Detailed analysis of communication relationships on the level of individual data elements and network signals

### Organization of AUTOSAR Files via DCF Libraries

- > Shared ARXML files can be moved to DCF libraries
- > Include mechanism for write-protected loading of DCF libraries

## 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/davincideveloper](http://www.vector.com/davincideveloper)

