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 4.7

New Supported AUTOSAR Design Features

> RuleBasedValueSpecification for an easier definition of array init values
> Enhanced support of BitfieldTexttables
> Now supporting the Runnable TimingEvent.Offset as well as the BaseType category 'VOID'

Useful Enhancements

> New ShowIn concept for easy navigation between object locations in different editors
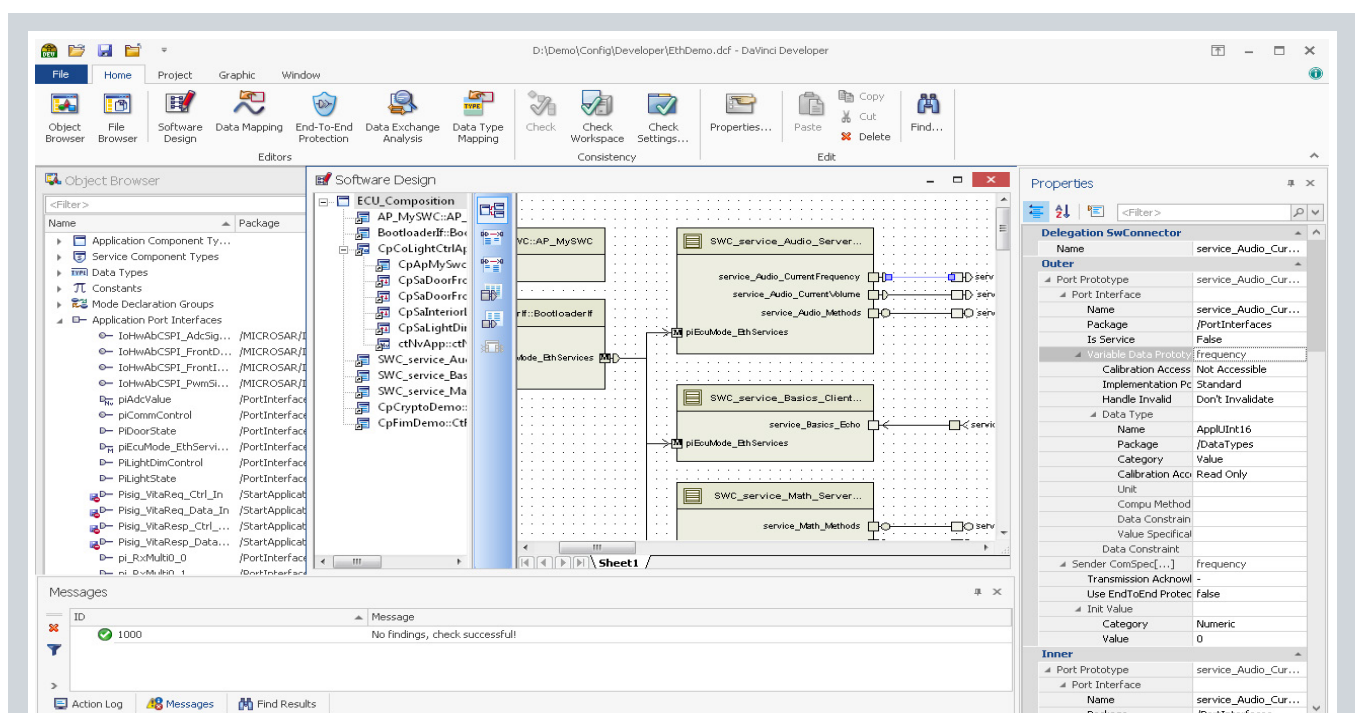
Overview of Advantages

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
> Supports ARXML files according to AUTOSAR 4.4

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.

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**

System Design

AUTOSAR ECU / System
SWC 2
SWC 1 — SWC 3

System Verification

Application Software Development

AUTOSAR ECU / System
SWC 2
SWC 1 — SWC 3

Application Software Verification

ECU Software Integration

AUTOSAR ECU
SWC 1   SWC 3
RTE
Basic Software (BSW)

ECU Software Verification

Circular model of typical AUTOSAR projects. DaVinci Developer is used in the phase of "application software development".