DaVinci Adaptive Tool Suite
Successfully Configuring Adaptive MICROsAR Software

What is DaVinci Adaptive Tool Suite?
DaVinci Adaptive Tool Suite is the optimal tool for successfully configuring AUTOSAR Adaptive projects. In addition to the actual configuration, the DaVinci Adaptive Tool Suite combines all other working steps for Adaptive MICROsAR from Vector. This includes the validation and generation of source code and the associated configuration files.

Highlights of Version 2.4
New and Optimized Functions
> Machine & Process Editor simplifies the deployment configuration of machines
> New Service Deployment Editor for more convenience
> Diagnostic Editor for easy creation of Diagnostic Interfaces from DEXT elements
> Copy-paste support directly in the AUTOSAR Model Explorer
> Comfort Editor offers quick access to all editors and wizards in the toolbar

Reliable Configuration
> Enhanced validation view with navigation support
> AUTOSAR constraint validators proves the model in real-time

Functions
Model Editing
> Model editing via tree views and textual views (DaVinci Modelling Language)
> Easy creating and editing of objects and package structures
> Simple move of objects between packages

Navigation
> Browse the AUTOSAR model by package structure or grouped by type
> Navigation within different views by following references between AUTOSAR objects

System Design
PREEvision CANdelaStudio

Application Development
DaVinci Adaptive Tool Suite

Application Verification
vVIRTUALtarget CANoe

DaVinci Adaptive Tool Suite perfectly fits into the Vector tool chain.
Fact Sheet DaVinci Adaptive Tool Suite

Validation and Code Generation *
> Automatic validation of AUTOSAR model consistency
> Assists in generating template source code and runtime settings (manifests)
> Helps to create services and machine instances
> Validates and generates deployment information
* Full functionality requires an Adaptive MICROSAR license.

Command Line Interface
Enables call of validators, generators and automation scripts from the command line for typical Continuous Integration use cases.

Distribution
DaVinci Adaptive Tool Suite is distributed as a set of Eclipse plugins (version 19-03). These plugins can easily be integrated into existing Eclipse IDE distributions for Windows and Linux.

Adaptive MICROSAR
Adaptive MICROSAR targets high performance ECUs such as in-vehicle application servers, ADAS ECUs and infotainment systems. Vector provides a complete safety solution up to ASIL D, ranging from the hypervisor, the POSIX operating system to the Adaptive Framework.

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/davinci-adaptive

Scripting and Automation
> “Groovy” scripting with full model access eases the execution of repetitive tasks
> Command line tool to run scripts, e.g. during continuous integration processes

Project Handling
> Dedicated project types (Library, Application, Platform, Integration) help to organize the work efficiently
> Project dependencies allow to include ARXML files of other projects
> Project Dashboard for quick access to most common tasks

Additional Functions
Migration Tool
The migration tool for DaVinci Adaptive projects supports the automatic model update to the latest AUTOSAR release.

Validation and Code Generation *
> Automatic validation of AUTOSAR model consistency
> Assists in generating template source code and runtime settings (manifests)
> Helps to create services and machine instances
> Validates and generates deployment information
* Full functionality requires an Adaptive MICROSAR license.

Command Line Interface
Enables call of validators, generators and automation scripts from the command line for typical Continuous Integration use cases.

Distribution
DaVinci Adaptive Tool Suite is distributed as a set of Eclipse plugins (version 19-03). These plugins can easily be integrated into existing Eclipse IDE distributions for Windows and Linux.

Adaptive MICROSAR
Adaptive MICROSAR targets high performance ECUs such as in-vehicle application servers, ADAS ECUs and infotainment systems. Vector provides a complete safety solution up to ASIL D, ranging from the hypervisor, the POSIX operating system to the Adaptive Framework.

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/davinci-adaptive

Scripting and Automation
> “Groovy” scripting with full model access eases the execution of repetitive tasks
> Command line tool to run scripts, e.g. during continuous integration processes

Project Handling
> Dedicated project types (Library, Application, Platform, Integration) help to organize the work efficiently
> Project dependencies allow to include ARXML files of other projects
> Project Dashboard for quick access to most common tasks

Additional Functions
Migration Tool
The migration tool for DaVinci Adaptive projects supports the automatic model update to the latest AUTOSAR release.

1. AUTOSAR Adaptive projects in project explorer
2. Assistance for various tasks such as creation of SOME/IP deployment
3. Compact DML syntax for textual definition of AUTOSAR models
4. Auto-completion for references and model elements
5. Generic Model Editor with object tree (package or type based)
6. Model validation with direct feedback
7. Tree element details as DML for quick insight
8. “Cheat sheets” with step-by-step guideline to create an AUTOSAR Adaptive application
9. Project frames keep the editors of each project together

DaVinci Adaptive Tool Suite offers optimal assistance for challenging configuration tasks.