

# MICROSAR Vector SLP4

## Product Information

Version 1.11.09

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Status	Released

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## 1 Introduction

All program specific details are described in this data sheet as an extension to the general Product Information MICROSAR 4 (ProductInformation\_2\_MICROSAR4.pdf).

## 2 Program Description

### 2.1 Supported Specifications

The offered software modules are implemented according to AUTOSAR 4.x specification. MICROSAR VECTOR SLP4 does not implement OEM specific requirements.

### 2.2 Software Architecture

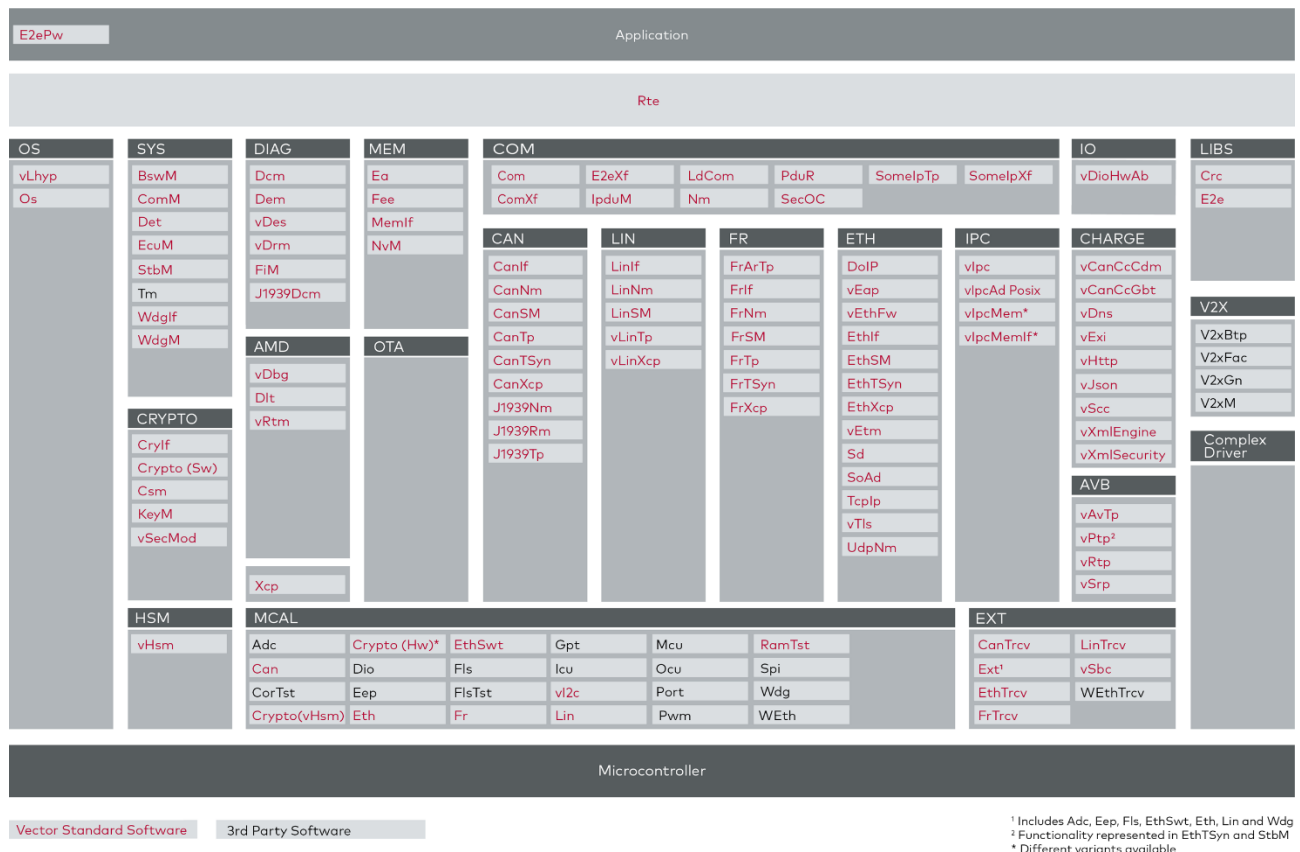


Figure 2-1 Software Architecture MICROSAR Vector SLP4

### 3 Modules and Options


**Note**

As MICROSAR VECTOR SLP4 does not realize any OEM specification there are only those modules available, which are defined by AUTOSAR 4.x.

#### 3.1 J1939Dcm

The following table gives an overview over the diagnostic messages which are defined by AUTOSAR and which are supported by the J1939Dcm.

Especially OBD related DMs are not yet supported, while the memory access messages are implemented according to the SAE specification but not yet defined by AUTOSAR.

Diagnostic Messages	Specified by AUTOSAR	Implemented by J1939DCM
DM1 - Active Diagnostic Trouble Codes	■	■
DM2 - Previously Active Diagnostic Trouble Codes	■	■
DM3 - Diagnostic Data Clear/Reset Of Previously Active DTCs	■	■
DM4 - Freeze Frame Parameters	■	■
DM5 - Diagnostic Readiness 1	■	■
DM6 - Pending DTCs	■	
DM11 - Diagnostic Data Clear/Reset For Active DTCs	■	■
DM12 - Emissions-Related Active Diagnostic Trouble Codes	■	
DM13 - Stop Start Broadcast	■	■
DM14 - Memory Access Request		■
DM15 - Memory Access Response		■
DM16 - Binary Data Transfer		■
DM17 - Boot Load Data		■
DM18 - Security Data		■
DM19 - Calibration Information	■	
DM20 - Monitor Performance Ratio	■	
DM21 - Diagnostic Readiness 2	■	
DM23 - Previously Active Emission Related Faults	■	
DM24 - SPN Support	■	■
DM25 - Expanded Freeze Frame	■	■
DM26 - Diagnostic Readiness 3	■	
DM28 - Permanent DTCs	■	

Diagnostic Messages	Specified by AUTOSAR	Implemented by J1939DCM
DM29 - DTC Counts	■	
DM31 - DTC To Lamp Association	■	■
DM35 - Immediate Fault Status	■	■

Table 3-1 Implemented Diagnostic Messages

## 4 Tools

This chapter gives an overview over the available tool chain, which supports the configuration of the Basic Software (BSW), the Runtime Environment (RTE), Software Components (SWC) and, if available, of the boot loader.

Please refer to the Vector Knowledge Base for a list of supported operating systems of each tool.

### 4.1 Available Tools

#### > **DaVinci Configurator Pro Version 5:**

- > Recommended editor for MICROSAR BSW, MICROSAR OS
- > Recommended configurator for MICROSAR RTE
- > Generic Configuration editor (GCE) which allows the configuration of any software module which provides an AUTOSAR Basic Software Module Description (BSWMD).
- > Use Case editors and validators

#### > **DaVinci Developer:** SWC editor. Basic features are

- > Creation and configuration of atomic SWC and SWC compositions
- > Support of several AUTOSAR versions when importing SWC descriptions that have been created by AUTOSAR-compliant tools

#### > **CANdela Studio:** This tool provides easy editing and creation of diagnostic configuration files (CDD) as used by the MICROSAR DCM and DEM.

## 4.2 Workflow

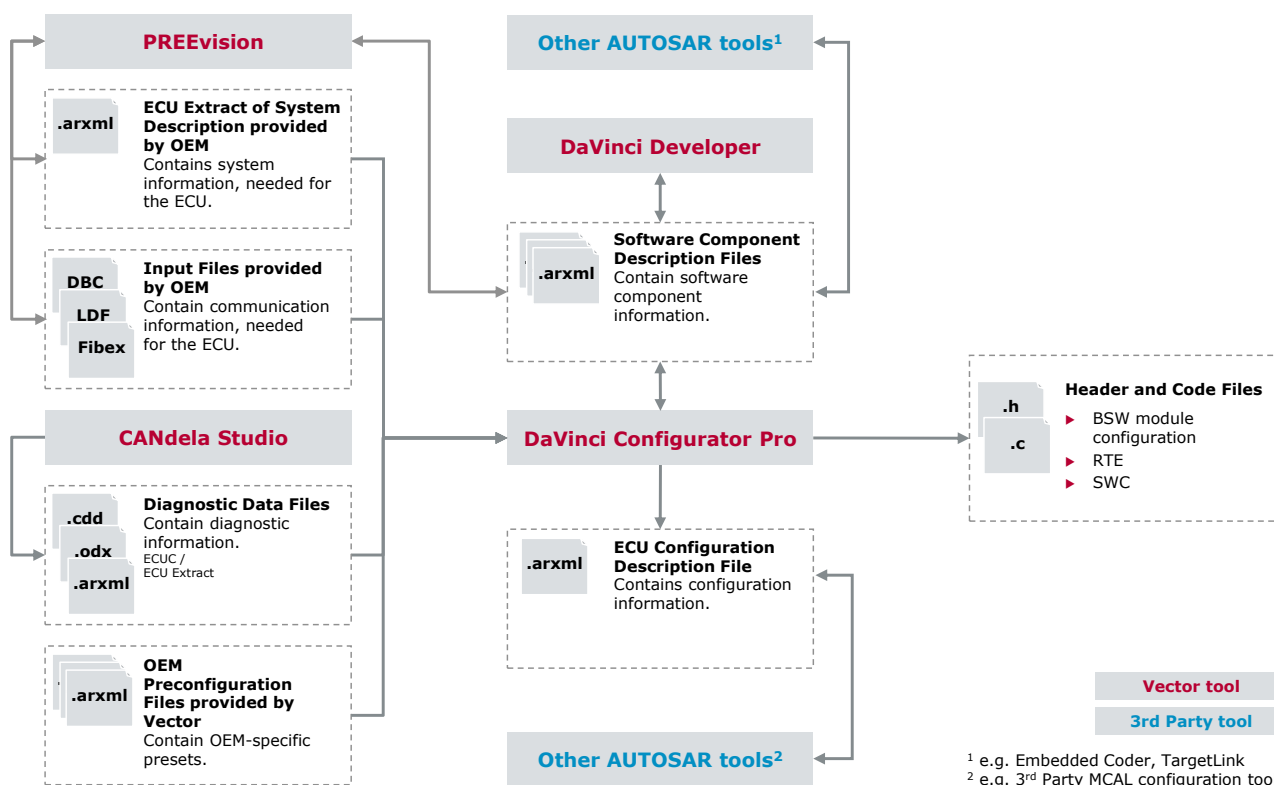


Figure 4-1 Workflow with complete BSW configuration

## 4.3 Supported File Formats

- > **CAN**  
DBC; AUTOSAR System Description 4.0.3, 4.1.3, 4.2.1, 4.2.2, 4.3.0, 4.4.0
- > **FlexRay**  
Fibex 3.0, Fibex 3.1; AUTOSAR System Description 4.0.3, 4.1.3, 4.2.1, 4.2.2, 4.3.0, 4.4.0
- > **LIN**  
LDF 2.0, LDF 2.1; AUTOSAR System Description 4.0.3, 4.1.3, 4.2.1, 4.2.2, 4.3.0, 4.4.0
- > **Ethernet**  
AUTOSAR System Description 4.1.3, 4.2.1, 4.2.2, 4.3.0, 4.4.0
- > **SWC**  
AUTOSAR System Description 4.0.3, 4.1.3, 4.2.1, 4.2.2, 4.3.0, 4.4.0



## 5 Contact

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