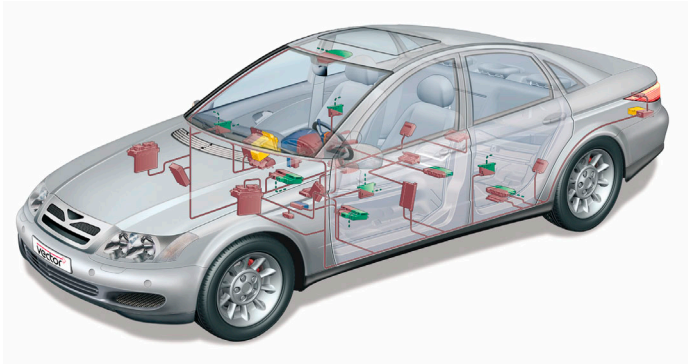


Welcome to CANbedded

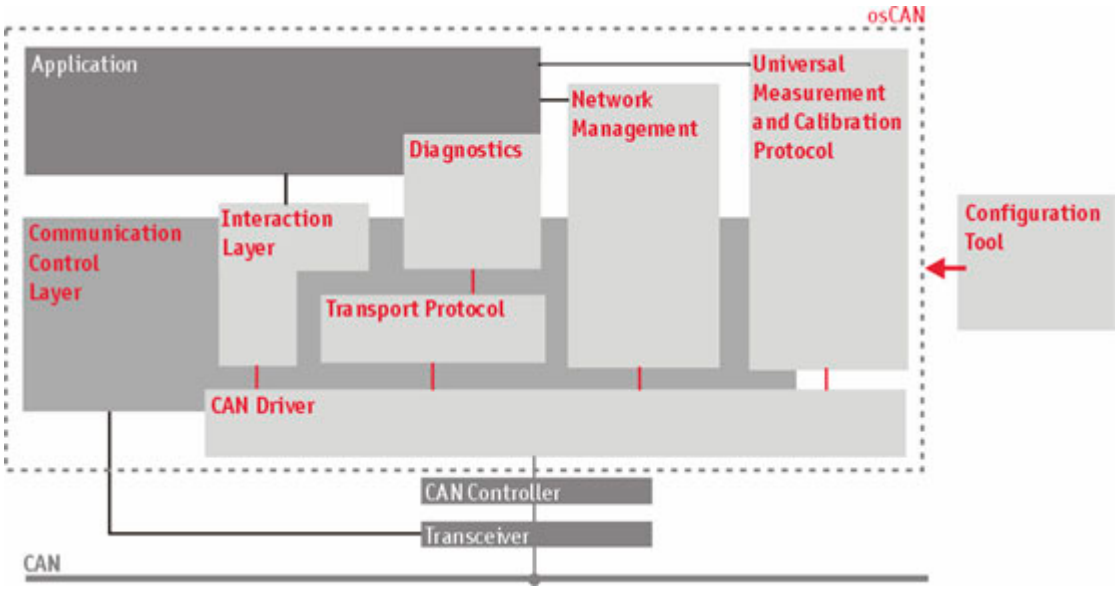
Software Components for
Communication and Diagnostics.

Get To Know The CANbedded Environment

The picture shows the layer model of the CANbedded components, their basic functions and connections. **CANbedded** consists of a set of source code components you have to include in your application. The sort of components depends on your **delivery**.

The **Configuration Tool** is the connection between the components and your project specific needs. It generates files you also have to include in your application.

CANbedded Software Components



Configuration Tool
for parameters and configuration of all components
more see Online Help

Communication Control Layer
software component integration and hardware abstraction.

CAN Driver
hardware specific CAN chip characteristics and provision of a standardized application interface

Interaction Layer
with signal interface

Network Management
to control the CAN bus

Transport Protocol
for data exchange of more than 8 data bytes

Universal Measeurement and Calibration Protocol
measurement and calibration of the ECU via different bus systems.

Diagnostics Layer
according to Keyword Protocol 2000 / UDS

How to start with ... slide 3
CANbedded tutorials slide 4

How to start with CANbedded Software Components

Follow the install shield wizard to unpack your delivery

Open the Configuration Tool (CANgen, DBKOMgen, GENy)

Create a new configuration, insert compiler, derivative, data base file and select your node

Configure all CANbedded Components that you want to use

Generated the files

Add the generated files to your application project

Adapt you application to CANbedded Software Components

- Includes
- Initialization
- cyclic calls
- callback functions …

Compile and link the project

Download and Test

CANbedded environment slide 2
CANbedded tutorials slide 4

Get To Know The CANbedded Tutorials

- Beginners of CANbedded components should read the UserManual_Startup_<OEM>_CANbedded first.
- If not part of the delivery read the component specific user manuals UserManual_<Component>. And if you use the CCL read the CCL user manual first.
- There is a set of user manuals and references for every component as you see below.

Document Types

UserManual
FIRST steps to get an example executable running for each **component** or the **complete delivery** (if available for you OEM).
e.g. UserManual_CCL, UserManual_Startup_<OEM>_CANbedded

Technical Reference(SW)
More detailed information about the component, API... e.g. TechnicalReference_candrv

Technical Reference(HW)
Hardware specific information of the component if available.
e.g. TechnicalReference_CAN_HC12

CANbedded environment slide 2
How to start with ... slide 3