

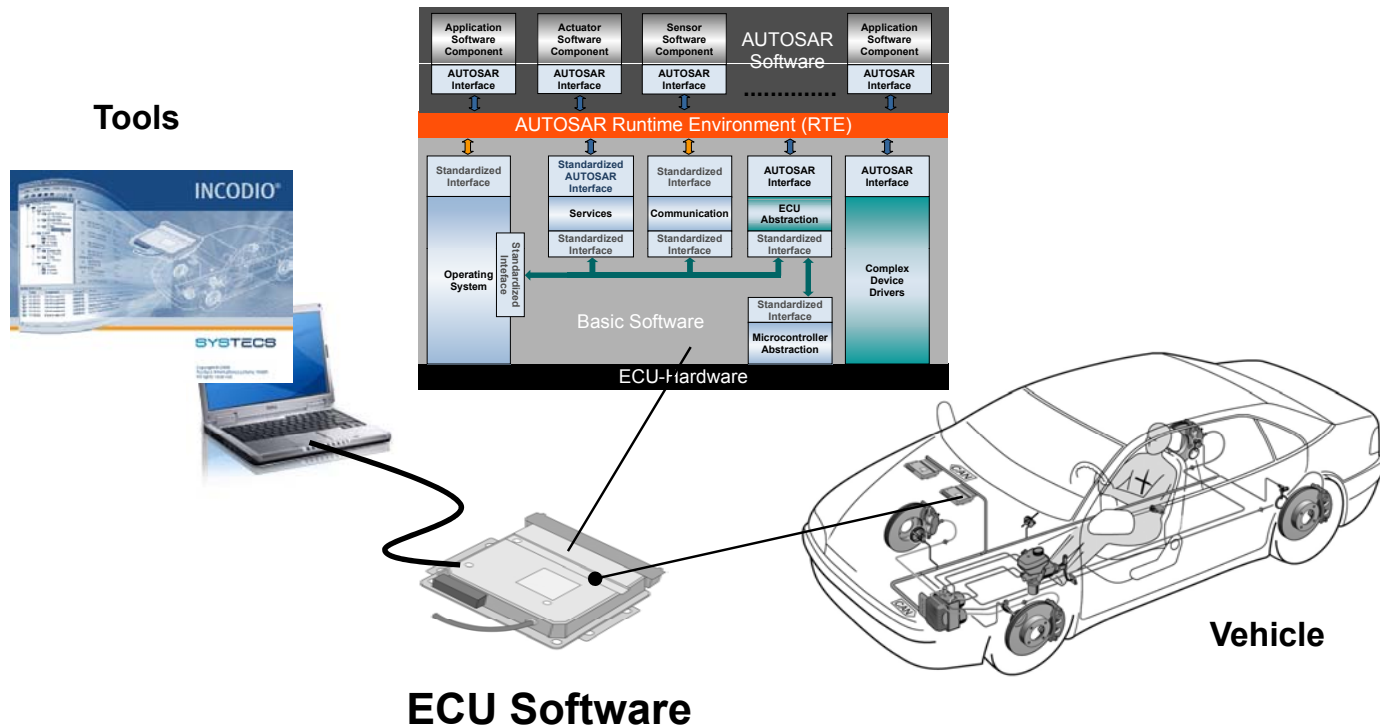


Workshops 2009 - AUTOSAR

AUTomotive Open System ARchitecture

AUTOSAR Workshops 2009

- SYSTEMCS is an **Associated Member of** **AUTOSAR**



AUTOSAR Workshops 2009



Configuration of BSW Modules

Interfaces of BSW Modules

Functionality of BSW Modules

BSW Layers & Stacks

Overview Methodology

Workshop
-AUTOSAR Basic Software-

System

ECU Configuration

ECU Resource

Software Component

Virtual Functional Bus

Runtime Environment

Overview Basic Software

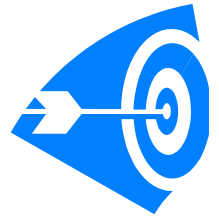
Workshop
-AUTOSAR Methodology-

Workshop **AUTOSAR** Basic Software

- **What are the Objectives ?**

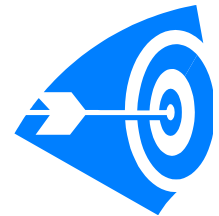
The Participants of the Workshop ...

- ... get an Overview about AUTOSAR
- ... understand the AUTOSAR Basic Software **in Detail**
- ... understand the AUTOSAR Methodology



Workshop **AUTOSAR** Basic Software

- **Who should participate ?**
 - All Stakeholders of the Automotive Industry who are
... working in the Area of ECU Software



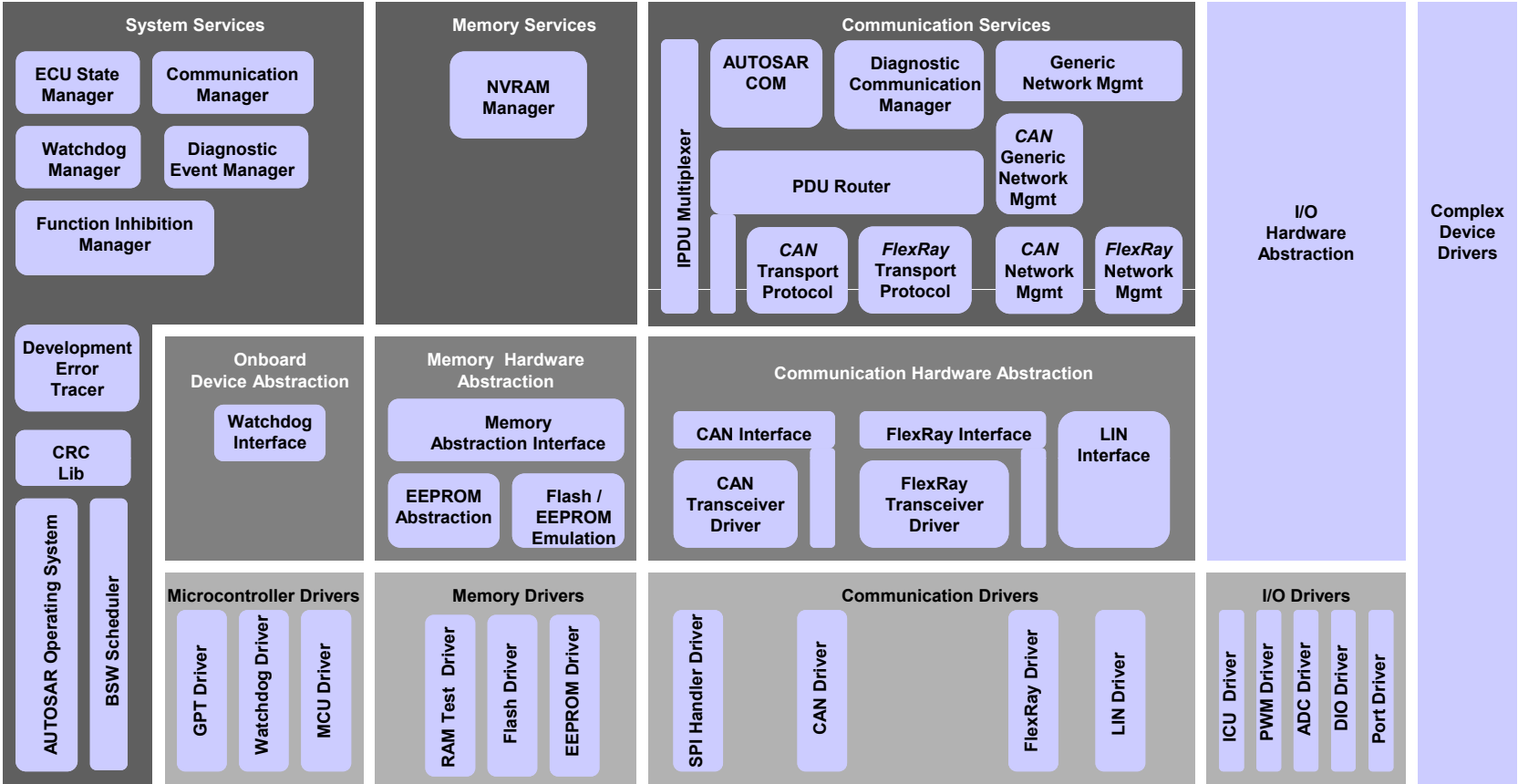
Workshop

AUTOSAR *Basic Software*

▪ Agenda

- **AUTOSAR – Introduction**
 - Basics, Objectives, Members
 - Current Status
- **AUTOSAR – Methodology**
 - ... in a Nutshell
- **AUTOSAR – Basic Software**
 - Overview see next Page
 - Part 1:
 - Layers, Stacks, Functionality of BSW Modules
 - Part 2:
 - Interfaces of BSW Modules; shown by means of an UML Model
 - Part 3:
 - Configuration of BSW Modules

AUTOSAR



Microcontroller

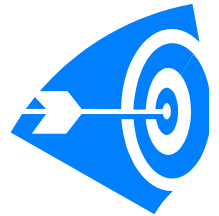


Workshop **AUTOSAR** Methodology

- **What are the Objectives ?**

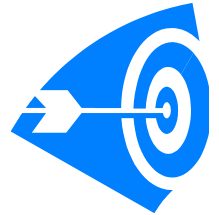
The Participants of the Workshop ...

- ... get an Overview about AUTOSAR
- ... understand the AUTOSAR Methodology **in Detail**
- ... understand the AUTOSAR Basic Software
- ... know more about current CAE-Tools which support AUTOSAR



Workshop **AUTOSAR** Methodology

- **Who should participate ?**
 - All Stakeholders of the Automotive Industry who are
... working in the Area of ECU Software



Workshop **AUTOSAR** Methodology

▪ Agenda

- **AUTOSAR – Introduction**
 - Basics, Objectives, Members
 - Current Status
- **AUTOSAR – Technical Overview**
 - Software Component
 - Virtual Functional Bus
 - ECU Software Architecture
- **AUTOSAR - Virtual Functional Bus**
 - Communication Mechanisms
 - Sender / Receiver
 - Client / Server
- **AUTOSAR – Software Components**
 - Interfaces
 - Composition
 - Runnables, Events
 - Implementation

Workshop **AUTOSAR** Methodology

- **Agenda**

- **AUTOSAR – ECU Resource**
 - Hardware Descriptions
 - ECU, Memory, Processing Unit, ...
- **AUTOSAR – System**
 - Topology, Cluster
 - Communication
 - Mapping
- **AUTOSAR – CAE-Tools**
 - Currently available Tools

Workshops 2009 **AUTOSAR**

- **Organization**

- Duration: 1 Day (9am – 5pm) for each Workshop
AUTOSAR Basic Software, AUTOSAR Methodology
- Date: to be coordinated between SYSTECS and Customer
- Number of Participants: **max. 10**
- Location: On-Site @ Customer,
Off-Site
- Language: Handouts: **English**
Presentation: **German or English**



Lecturer

▪ Curriculum Vitae

- PhD in Electronics
 - Major Area: Digital Signal Processing
- ZF Friedrichshafen AG
 - Development of ECU Software for control of Transmissions
- ETAS GmbH
 - Foundation member and CEO
- Robert Bosch GmbH
 - Senior Vice President Engineering
Development of ECU Software for control of Engines
- SYSTECS Informationssysteme GmbH
 - Shareholder and Managing Director



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