Michael Niklas
AUTOSAR Project Leader Team

AUTOSAR Foundation and Classic Platform
Overview

- Different AUTOSAR Standards – Standard Structure
- AUTOSAR Foundation Release 1.2
- AUTOSAR Classic Platform 4.3.1
- Future working topics AUTOSAR Classic
- Releases of AUTOSAR
Different AUTOSAR Standards – Standard Structure

Acceptance Tests (AT)
Application Interfaces (AI)
Classic Platform (CP)
Adaptive Platform (AP)
Foundation (FO)
Processes and Infrastructure (PI)
Further migration of common specifications between the two standards:
- End to end communication protection protocol
- Timing Analysis

Rework of main requirements document

Maintenance of existing specifications

Outlook for future releases:
- Further migration of protocols (e.g. time synchronisation, health monitoring)
- Increase traceability and maintain the existing specifications
AUTOSAR Classic Platform 4.3.1

- Contains 200+ documents with 20,000+ pages

- Increased maturity of specification by fixing close to 900 Request for Changes (RfCs), most of them corrections and clarifications mainly in the areas:
  - Diagnostic
  - Security
  - Communication Stack
  - Global Time

- Roughly 80 RfCs per month are incoming for the Classic Platform considering the data of the last 12 months
Future working topics AUTOSAR Classic Platform (1/2)

- Over 360 RfCs already stated for AUTOSAR Classic Platform R4.4.0 with a high percentage of functional extensions

- Main topics:
  - Ethernet
  - Communication Stack
  - Diagnostic

- Expected overall amount of roughly 850 RfCs
## Future working topics AUTOSAR Classic Platform (2/2)

Planned AUTOSAR concepts for AUTOSAR Classic Platform R4.4.0

<table>
<thead>
<tr>
<th>Short Name</th>
<th>Long Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>RECM</td>
<td>Remote Event Communication Manager</td>
</tr>
<tr>
<td>ARTI</td>
<td>AUTOSAR Real Time Interface</td>
</tr>
<tr>
<td>RTEImplementationPlugIns</td>
<td>RTE Implementation Plug-Ins</td>
</tr>
<tr>
<td>LINSlaveSupport</td>
<td>LIN-Support for LIN slave</td>
</tr>
<tr>
<td>EthernetWakeUpOnDataLine</td>
<td>Ethernet Wake Up on data line</td>
</tr>
<tr>
<td>FormalModelQuery</td>
<td>Formal Model Query and Blueprint Derivation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Short Name</th>
<th>Long Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BusMirroring</td>
<td>Bus-Mirroring</td>
</tr>
<tr>
<td>TLVFeature</td>
<td>Extended Serialization for Data Structures in SOME/IP with tag/length/value encoding</td>
</tr>
<tr>
<td>SecurityExtensions</td>
<td>Security Extensions</td>
</tr>
<tr>
<td>Firewalling</td>
<td>Firewalling</td>
</tr>
<tr>
<td>MCALMulticoreDistribution</td>
<td>MCAL Multicore Distribution</td>
</tr>
<tr>
<td>LET</td>
<td>Logical Execution Time</td>
</tr>
</tbody>
</table>
Releases of AUTOSAR

Adaptive Platform
- R17-03
- R17-10
- R18-03
- R18-10

Classic Platform
- R4.3.0
- R4.3.1
- R4.4.0

Foundation
- R1.1.0
- R1.2.0
- R1.3.0
- R1.4.0
- R1.5.0

Timeline:
- Q1/17
- Q2/17
- Q3/17
- Q4/17
- Q1/18
- Q2/18
- Q3/18
- Q4/18

Life Cycle:
- Development
- Evolution
- Maintenance
- Issue Notice

Release dated 11/09/2017

Synchronized Release

Check mark indicates released
Diamond indicates planned
Empty diamond indicates on demand
Thank you for your attention!

Michael Niklas

Michael.Niklas@continental-corporation.com