Evolution of AUTOSAR Organization

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9th AUTOSAR Open Conference
28-Sep-2016, Gothenburg, Sweden
The new development agreement version 16.1.1 replaces the current version 15.1.0

Material changes to support
- new collaboration models and
- the development and licensing of exemplary software

Minor changes to
- extend scope of derived applications,
- handle Open Source Software w.r.t exemplary software and
- consider AUTOSAR User Groups
The new organization starts 1 January 2017
Application of current AUTOSAR partners

A shortened applications process applies to all current AUTOSAR partners
Information packages have been sent to all current partners in Aug. 2016

Start of prolongation phase
25-Aug-2016

End of prolongation phase
30-Jun-2017

01-Jan-2017
New organization/agreements starts, old agreements ends.
What are the mayor novelties from 1 January 2017 onwards?

**Derived Applications**
- Revised definition

**Software implementations**
- Joint development of exemplary software

**Sublicensing**
- Enable smooth collaboration and joint use of specifications with third parties
New from 1 January 2017 onwards: Definition of Derived Applications

Automotive applications

Use-cases related to engine powered, land-based, non-railed vehicles, such vehicles intended for primary transportation purposes.

Derived applications

Use-cases that are neither an Automotive Application nor in a field of use of products or services that falls into the categories of ultra-hazardous activities.

Ultra-hazardous activities

Aerospace and aviation, nuclear power, chemical and/or biological reactors, petrochemical, or military (except for military marine transportation vessels).

Original target

Extended

Excluded
New from 1 January 2017 onwards: Joint development of exemplary software implementations for the AUTOSAR Adaptive Platform

Development in AUTOSAR Work Packages

validate

AUTOSAR Specifications

AUTOSAR Software Implementations

improve

Licensing for exploitation

Licensing for exploitation

Exploitation of released Specifications and exemplary Software Implementation by AUTOSAR partners
New from 1 January 2017 onwards: Sublicensing to enable smooth collaboration with third parties

Collaboration with other standardization bodies and open source projects requires sublicensing.

Process for sublicensing

1. Core Partners identify need for sublicensing
2. Clearance letter is sent to all partners
3. Partner objects within 6 weeks
   - yes: Partner provides list of IPR not be sublicensed
   - no: Sublicensing approved
4. No sublicensing of the listed IPR

based on case-by-case decision of all partners
New from 1 January 2017 onwards: Mandatory process on handling of Open Source Software

- Any major current software project contains Open Source Software
- AUTOSAR needs to support OSS for the development of its Software Implementations
- Any OSS comes along with an OSS license

The AUTOSAR Core Partners established an Open Source Control Board to ensure OSS compliance

- Joint understanding of Open Source Software
  - All partner agreements have a identical definition of Open Source Software
- Well defined mandatory process for all partners
  - Before contributing any OSS to AUTOSAR clearance by the OSS-CB is need
  - Decision is taken on a combination of use-case and license.
  - There is no general whitelist
Why do we need that?

Game changers

Highly automated driving and fully connected vehicles are becoming reality

Key success factors are

- short development cycles
- frontloading of validation
- precision and quality of the standard
- early availability of implementation
- interoperability and increased quality
How do we do that?
Evolution of AUTOSAR’s Organizational Structure

Legend
- Core Partner
- Core Partner, Premium and Development Partner
- All partners including Associate Partners
- Subcontractor
Cross-standard concerns

Work Group Structure

WP-A
Software Architecture
Subgroups
WP-A-LIB Libraries

WP-A1
VFB and RTE

WP-A2
COM Stack

WP-A3
Functional Safety

WP-A4
Diagnostics

WP-A5
MCAL

WP-M
Methodology and Templates
Subgroups
WP-M-METH Methodology
WP-M-GST Generic Structure Template
WP-M-SWCT Software Component Template
WP-M-SYST System Template ECU Configuration
WP-M-TIMEX Timing Extensions

WP-M1
Timing Analysis

WP-I
Application Interfaces
Subgroups
WP-I-BODY Body and Comfort
WP-I-ENGINE Powertrain Engine
WP-I-TRSM Powertrain Transmission
WP-I-CHASSIS Chassis Control
WP-I-OCSAFE Occupant and Pedestrian Safety

WP-T
Acceptance Test

FT-CM
Communication Management

FT-EMO
Execution Management

FT-DIAG
Adaptive Diagnostics

FT-MM
Methodology & Manifests

FT-DI
Demonstrator Integration

WP-R-JP
Japan

WP-X-SEC
Security

WP-A3*
Functional Safety

WP-X-VAL
Validation

Legend:
- Lead Work Package
- Subgroups
- Work Package
- Feature Team

Cross-standard concerns

* WP-A3 also works on safety topics for Adaptive Platform; transformation planned
**AUTOSAR User Groups**

AUTOSAR partners to work on a particular topic based on already released AUTOSAR standards.

Any AUTOSAR partner can initiate the set-up of an AUTOSAR User Group.

The focus must be of general relevance for the AUTOSAR community.

The working results of an AUTOSAR User Group shall be published by AUTOSAR.

**AUTOSAR User Groups**

- **UG-IN** (India)
  - Interoperability of exchange artefacts

- **UG-CN** (China)
  - Demonstrator development
  - System design with 3 AUTOSAR ECUs
  - BSW integration, documentation and project closure planned for E2016

- **UG-NA** (North America)
  - Common Training: OEM-Tier1 Workflows/ Security
  - Safety
  - Ethernet

- **UG-IE** (Improved Exploitation)
  - 6 thesis on optimizing the use of AUTOSAR
  - Establishment of Adaptive Platform

AUTOSAR User Groups are open to all kind of AUTOSAR partners, at least one member belonging to a Core or Premium or Development Partner company to ensures an interface to Work Packages and other AUTOSAR boards;

agree upon the member contributions on its own and will administrate itself;

benefit from the AUTOSAR infrastructure like e-mail system and SVN access for document management; and

can be terminated by request of the User Group or by the Core Partners in case of the group's inactivity.
What else?
Introduction of a “symbolic” annual contribution for Development Partners to cover administrative costs

- Contribution of Premium Partners:
  - Default option for annual contribution is 17 500 € and 1.5 FTE.

- Contribution of Development Partners:
  - Annual contribution is fixed at 2 000 € and 0.5 FTE.

- Contribution of Associate Partners:
  - Annual contribution is fixed at 10 000 € and 0 FTE.
The End.