Automotive Industry Working Group

Ralph Mueller
June 8, 2012
Strategic Drivers

- 80 – 90% of innovation electronics / software
- System orientation
- Change from 'Production Driven' to 'Quality Driven' and 'Innovation Driven'
- Innovation requires collaboration in value creation network
- Changing supplier networks
- Safety / environmental regulations
History

• First Meeting Stuttgart October 2008

• Financial and Economical Crisis 2009 stalled progress

• Restart Spring / Summer 2010 (Robert Bosch GmbH, Continental AG, BMW AG, Infineon)

• Technical work starts in 2011 (slow)

• New members and work-packages, higher range of activities in spring 2012
Members

• BMW Group - OEM, Steering Member
• Robert Bosch GmbH - Supplier (T1), Steering Member
• Continental AG - Supplier (T1), Steering Member
• Itemis AG - Modeling Expert, Steering Member
• see4sys - Automotive Project Services
• Validas AG - Safety Expert
• Virtual Car - Safety Expert
• EclipseSource - Modeling and Eclipse Technology Expert
Organization

• Steering Committee
  • Continental AG
  • Robert Bosch GmbH
  • BMW Group
  • itemis AG
• Chair: Ignacio Garro, Continental AG
• Speaker: Andreas Graf, itemis AG
Work Packages

1. Automotive Tools Platform - Definition and provisioning of a reference for tools vendors and users
2. Big Model Support - Address performance and memory consumption issues with automotive engineering models
3. CDT Extensions - Address issues and additional automotive requirements for CDT
4. FuSa Dev Process - Analyze functions that tool chains should provide regarding functional safety
5. Eclipse Qualification Kit (ISO26262) - Definition of support for functional qualification for Eclipse based tools
6. Future: Amalthea Project - Multi Core extensions, functional safety (Robert Bosch e.a.)
7. Future: EATOP Project - Embedded Automotive Architecture Analysis, see also EAST/ADL (Continental AG e.a.)
Development Funding

- Currently, the steering committee members discuss funding models
- activity based funding
- pooled funding
- more information expected August/September
Relation to other IWGs

• Polarsys: Safety critical standards, qualification packages
• Polarsys: Mutual interest in various projects - RMF, Modeling platform projects
• LTS: Initial interest
Resources

• IWG Wiki - http://wiki.eclipse.org/Auto_IWG
• Mailing List - https://dev.eclipse.org/mailman/listinfo/auto-iwg
• Meetings: http://wiki.eclipse.org/Auto_IWG_Meetings
• Work Packages: http://wiki.eclipse.org/Auto_IWG#Work_Packages