

# 2nd Technical Meeting

Eclipse Automotive Industry Working Group  
Kornwestheim  
July 19, 2010



# Participants

Michael Rudorfer, BMW (Skype)

Jörg Noack, BMW

Martin Bickel, Continental

Matthias Watzal, Continental

Jens Harnisch, Infineon

Olufemi Sanya, Marquardt GmbH

Andreas Selig, Robert Bosch GmbH

Martin Obdrzalek, Robert Bosch GmbH

A R Imran, Robert Bosch GmbH

Lars Geyer-Blaumeiser, Robert Bosch GmbH

Harald Mackamul, Robert Bosch GmbH

Andreas Graf, Itemis

Nirmal Sasidharan, Itemis

Wolfgang Krenzer, IBM

Roland Sattler, KUGLER MAAG CIE.

Stefan Heisse, KUGLER MAAG CIE.

Hans-Jürgen Kugler, KUGLER MAAG CIE.

Ralph Müller, Eclipse Foundation

# Agenda

Short Introduction Participants

Brief Overview Past (RM)

Parallel Activities (Sphinx, Modeling Platform)

Requirements for Automotive Platform

Next Steps

# Issues (I)

cloud based tools, functions as services	1 0
authentication	2 5
connectivity standards (service based, exchange)	1 2
<b>Autosar interface support, easy exchange</b>	<b>9 0</b>
Process, administrative support of tools installation	1 8
Archiving support (30 years support timeframe)	3 3
<b>Interface to automotive compilers (tools editors have different interfaces)</b>	<b>5 5</b>
<b>ISO 26262 audit support</b>	<b>8 1</b>
Unitary test support	0 3
Interfaces to architecture tools	0 7
Interface to change management tools (independence from certain subsystems SVN, internal, eASee, MKS, Dimensions)	1 7
Re-use subsystems, variant management	3 1
Obsolete: Manage complexity of RT platform	
Product line support	0 5

# Issues (II)

## **Traceability 7 3**

CDT: enhancements, customization support 4 3

## **General OSS (bug fixes, long term support, certification ...) 6 3**

~~Over~~ **Over all tool conglomerate bulkiness (vendors using EMF in point tools add too much**

Graphical frameworks (GMF sucks, large systems not supported) 3 1

Version Control, multi-user support on model level, concurrency, locking 2 3

Mixing of models from different meta model versions („Mischverbau“) 3 2

Obsolete: Implementation for data exchange rather than standard (e.g., Artop)

## **Large models (> 1 GB) - issues as well with problem database etc 6 2**

Build / validate mechanisms are too complex 3 5

## **CDT: manage variant source code, see all code (indexing of ,dead code‘) 5 1**

CDT: to to use EMF for index model? 4 0

No small XML editor 4 2

Creation of non-Java IDE without JDT, PDT (req's from - oAW, Obeo components) 1 4

# Issues (III)

CDT: big beast, not well documented 3 0

CDT: insufficient extensibility 3 1

**Code analysis interfaces to popular tools, MISRA checks 7 3**

Component model to support embedded better than CDT has right now 3 2

**Easy integration of proprietary tools (defined, how-to) 6 3**

Governance: Licensing and ownership 1 6

# How to proceed ...

... how to get to a cooperation

## ... assign priorities

... be more specific on the top 10, define use cases

... see if these topics are addressed by e.g. modeling platform

... identify the topics not addressed anywhere else

.. identify your brothers in misery

... what is the minimum we need (define baseline, is Sphinx helpful)

## ... time line

... how to get more companies involved (Ford, Daimler, VW, PSA, GM/Opel)

... implementation plan / funding plan

... identify the topics that can be implemented and funded together

... governance: support orgs to become 'contributors'

...

# Top 10

**Autosar interface support, easy exchange**

**ISO 26262 audit support**

**Traceability (A1)**

**General OSS (bug fixes, long term support, certification ...) ->> Mgmt Team**

**Overall tool conglomerate bulkiness (vendors using EMF in point tools add too much)**

**->> Artop design board, analysis tools for Eclipse distributions (A2)**

**Large models ( > 1 GB) - issues as well with problem database etc (A1)**

**Code analysis interfaces to popular tools, MISRA checks (A3)**

**Easy integration of proprietary tools (defined, how-to)**

**Interface to automotive compilers (tools editors have different interfaces) (A3)**

**CDT: manage variant source code, see all code (indexing of ,dead code‘) (A3)**

# Actions

## **Traceability**

### **Large models (> 1 GB) - issues as well with problem database etc**

A1: Andreas Graf to check with Stephan Eberle, will provide feedback to group

A2: Ralph to arrange for conversations with EclipseSource, Genuitec;

Andreas G, Lars, Hr. Noack

A3: Andreas G sends more information, contacts Doug S to inform about issues AIWG sees

A4: ASCET as pilot? Andreas S.

A5: HJ Kugler, Ralph Müller, Lars, Stefan H.

## **Autosar interface support, easy exchange**

- lobby work for Artop
- postpone until IWG exists

## **ISO 26262 Audit Support**

- describe what this means (what are the req's from standard?)
- establish small working group to define further steps
- IP: Hr. Watzal, Hr. Sanya, Hr. Heisse, Hr. Harnisch, Lars, Andreas G., HJ Kugler

# Timeline

- Next discussion in 2 weeks
- CDT the sooner the better
- other than that no specific time constraints
- Information activities for Managament (asap)  
(what is an IWG, what are the steps, ...) A5