

Eclipse Automotive Interest Group

Subject: Eclipse Automotive Interest Group	Participants: see attached list
Meeting date: 2010/0/18	Location: Bosch, Nordtor Plaza
Creation date: 2009/02/19	Mailing list: Participants
Created by: Andreas Graf, itemis GmbH	

↓ D = decision, A = activity, O = open issue, I = information, F = finished			
#	↓	Topic	Responsible
1		Ralph Müller: – Welcome and Introduction	
2		<p>Introduction of participants:</p> <p>Lars Geyer-Blaumeiser, Bosch Tool Platform within Bosch. Eclipse based Platform within Bosch. Platform maintenance. Central tool department. Responsible for contacts into Eclipse community (Artop). Would like to find people interested into special topics like Sphinx/Artop (AR tooling is based on Artop), CDT areas for improvement.</p> <p>Watzal Matthias, Continental: Sees the need for a standardized platform to exchange data with suppliers / OEMS</p> <p>Stefan Heiße, KMG Sees the need for a standardized platform to exchange data with suppliers / OEMS</p> <p>Olufemi Sany, Marquardt GmbH: Interest in Eclipse as a platform since trend is platforms.</p> <p>Martin Obdrzalek, Robert Bosch: Modeling with Ascet, add-ons based on Ascet.</p> <p>Andreas Seelig, Bosch Abstatt: Tool chain for documentation / information engineering. Using Eclipse as frontend. Wants to identify possible cooperation. Main interest: Big models and how to handle them in Eclipse.</p> <p>Harald Mackamul, Bosch Research: Official interface to Eclipse foundation.</p> <p>Nirmal Sasidharan, itemis: Official interface to Eclipse foundation.</p> <p>A R Imran, Bosch India</p>	

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		<p>AUTOSAR tool platform. Main interest is modeling strategy of Eclipse.</p> <p>Roland Sadler, KMG: Responsible for transportation</p> <p>Harnisch, Infineon: 3rd party tools are not integrated wells. Working on Micro-Controller configuration tool based on Eclipse modeling framework.</p> <p>Martin Bickel, Continental: Automotive IT, trying to establish standard SW-dev platform within Conti, eclipse based. Objective is exchange of SW-components between business units. BUs should not invent tools of their own. Tooling is not core competency. Preventing "re-inventing the wheel" within the company.</p> <p>Wolfgang Krenzer: Eclipse member, provides engineering environment.</p> <p>Harald Mackamul, Bosch Research: Topic is development environment: Support other research projects to improve tooling. Transfer of result is difficult if there is no support in dev division. Working on project PMT, building dev environment in embedded car software. Currently they are consumers of eclipse. Discussing further role as contributor.</p> <p>Michael Rudorfer, BMW Car-IT : Focus on SW dev for cars. Team "SW-infrastructure". Deal with AR related topics, one topic is Artop. Goal is to establish Eclipse-like platform for AR tools.</p> <p>Ralph Müller, Eclipse Foundation : Artop, Tool Infrastructure</p> <p>Hans-Jürgen Kugler, KMG: Interest is closely related to business: Improve development performance (organizational or process measures). Support spreading techniques: Best measure is good development environment.</p> <p>Jörg Noack, BMW: Tooling Department</p>	

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3		– M. Rudorfer: Introduces Artop,Sphinx. Sphinx Status: Creation Review on Wednesday (20100721)	
4		– A. Graf: Short introduction of Eclipse Modeling Platform	
5		– R. Müller: addresses Funding	
6		<p>Requirements Discussion:</p> <p>Wolfgang Krenzer: Integration on Desktop, Issues: Linking into Backend, Authorization (user-IDs), Traceability. Connectivity standards in the way that environments work together (software services). Have the working environment communicate around that.</p> <p>Watzal: AUTOSAR-Interface support to exchange software-modules easily between suppliers and customers to do a cooperation in ECU software development.</p> <p>Support of process (fixing version deactivating auto-update, provisioning).</p> <p>Archiving support: Have to provide software ~30 years.</p> <p>Interface to automotive compilers: Tasking / Greenhills. Companies provide Eclipse frameworks, but are different and have to be merged to company framework.</p> <p>ISO26262 audit support: How we can improve that?</p> <p>Code profiling / code metrics for ECU software.</p> <p>Unit test support for ECU software inside Eclipse.</p> <p>Interfaces to architecture tools (like Enterprise architect)</p> <p>Interface to CM / Configuration Management tools (PVCS/MKS)</p>	
7		<p>Olufemi Sanya:</p> <p>Automotive Spice: Question on reuse. Subsystems / variants. Component management (for basic software).</p> <p>Traceability: Tool platform as a mean for improving traceability.</p> <p>Seelig: SCM independence of platform to change management</p> <p>Mackamul: CDT enhancements, ways to customize CDT</p> <p>Nirmal: Organizational Responsibility. Who will take responsibilities. Evaluation of tooling for safety critical applications (cf ISO26262)</p> <p>Imran: Bulkiness of tooling.</p> <p>Good solution for Graphic Framework (GEF, GMF) complexity. Large systems (performance, autolayout).</p> <p>ARText extensions. Xpand.</p> <p>Harnisch:</p>	

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		<p>Model references, version control, multi-user support on model level. Concurrent modelling</p> <p>Geyer-Blaumeiser: ISO 26262 Long term support Stability (frequent Eclipse versions), Long term maintenance Exchangeability of components. Using Artop ensures that standard is interpreted in the same way. Integration on Artop is much better than integration on file basis. Eclipse / JVM: Performance. Big projects can consume more than 1GB RAM (Half model, problem storage). Scalability. Dynamic Lazy Loading would improve situation. Builder Mechanism: Complexity. Standard builder mechanism is pretty complex. Asynchronicity adds complexity. CDT: Major issues: Variants through pre-processor statements. (Indexed is only pre-processor dependent). Index model should be based on EMF. Basic XML editor: To have a small XML editor you have to install the full WST. Development environment: Hard to create an IDE without JDT and even PDE (dragged in by oAW, oboe-tooling). Editors for programming languages use JDT as basis. Integration of external tools. QM systems. Ascet. Easy integrability. Bickel: Focus on Build Systems. CDT is most important plugin. CDT is a big beast but not well documented. Adding functionality is difficult. Digging into CDT is avoided, although there is a lot of cases where it would be good. Static code analysis. Mention CODAN. Build system: Lot of compilers, unmanaged build. Code sizes have to be evaluated, every compilers have different output. Define interfaces through which this information could be extracted. Maybe address compiler vendors jointly. Model: Eclipse knows project. But projects are more complex which includes components with different compiler options.</p> <p>Jörg Noack: Handling of models with different versions (Mischverbau). One car could consist of ECUs with different AUTOSAR versions. Overall model should be able to be composed of models of different AUTOSAR version.</p> <p>Hans-Jürgen: All are mentioned.</p> <p>M. Rudorfer: Licensing and ownership</p>	

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8		SCM used: SVN, Bosch internal tooling, TCM, Vector easee, MKS (offers Eclipse plugin, should be provided - Bickel), Serena Dimensions (Olufemi),	
9		<p>Expectations:</p> <p>Hans-Jürgen: What is the minimum starting point to start with a common platform. Is what Sphinx brings acceptable as a starting point.</p> <p>Wolfgang: Priorities, Timing constraints, what are the most pressing issues.</p> <p>Watzal: Assignment of priorities, discuss Top 10. Detailed specification of Top 10 items.</p> <p>Jörg, On, Bosch, Seelig, Mackamul, : Priorities. 10 Use Cases for the Top 10.</p> <p>Lars: How to get more companies involved. How to attract more OEMs (Ford, Daimler, PSA, GM, Opel): Components should be better exchangeable.</p> <p>Bickel: Not just wishlists and prioritize them. Discuss strategy on implementation. Contributing to Open Source projects is a ongoing discussion.</p>	
10		After establishing the group formally, participants have to be Eclipse foundation members.	
11			
12		<p>Timeline:</p> <p>Bosch: CDT is an acceptance problem. Urgent issue. Misra-Checks.</p> <p>Continental: Code Analysis</p>	
13		Summary: Management Topics are important. Again: bring in OEMs.	
14		Provide information about mailing group. Provide minutes on mailing list.	A. Graf
15		Additional action items: See .pdf	

Miscellaneous:

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