



AUTOSAR AUTomotive Open System ARchitecture

Information Day

Thursday November 16, 2006

La Butte aux Bois, Paalsteenlaan 90, 3620 Lanaken (Belgium)

PROGRAM

Chairman: Martin Pölöskey, aic/AGIT

09.30 a.m. **Reception and coffee**

10.00 a.m. **Welcome**
Herm Lux, Flanders' DRIVE

[AUTOSAR-project](#)

10.15 a.m. **AUTOSAR objectives and upcoming exploitation – the core partner's view**
Dr. Stefan Bunzel, AUTOSAR Project Leader, Continental Teves, Germany

This presentation will give an overview of the history, status, and roadmap of the AUTOSAR project. It will explain the technical background and technical key features. Furthermore, it will give an overview of possible future AUTOSAR related roles on the market, and it will discuss benefits for typical user groups.

[View of Tier 1, 2, 3](#)

11.00 a.m. **AUTOSAR effects on supply of Automotive Embedded Software**
John Elvidge, Technical Fellow - Visteon UK Ltd, United Kingdom

The AUTOSAR standards for software architecture, functionality and tools affect how suppliers create embedded software, its content and how it will be sold.

11.30 a.m. **Break**

12.00 a.m. **Applying Systems Engineering to embedded software development and experiences introducing formal modelling in such a process**
Erik Verhulst, Business Unit Manager Software & Systems Services, Melexis, Belgium

Following research more than 50% of all projects fail. Research has shown that a rigorous systems engineering process can greatly improve the quality and reliability of the end product, while helping to keep the project within its time and budget constraints. A novel approach in this domain is the use of modelling and in particular formal modelling techniques for embedded software development. Such an approach, using the TLA+ model checker, requires the explicit adoption of team work in an evolutionary project development flow. The talk will be illustrated by the approach taken and lessons learned in the OpenComRTOS project, leading to a very efficient and safe distributed RTOS ported and tested on the Melexis MLX16 microcontrollers.*

12.30 a.m. **Using Autosar in an integrated media environment**
Aad van Gerwen, Senior Software Architect, Atos Origin (Technical Automation), Netherlands

Media related functionality, like radio reception, MP3 playback, route navigation and mobile phone will more and more be used in a car. The functions need to be integrated with other car related functions. This presentation focuses on the use of AUTSAR in such an integrated media system.

13.00 p.m. **Lunch**

[View of Tool Suppliers](#)

- 14.00 p.m. **Coupling of Model-Based Design and Open System Architectures**
Richard Thompson, Senior Engineer, The MathWorks, United Kingdom
- Model-Based Design with Simulink has become a very common approach for designing and implementing embedded control systems, particularly embedded control. One key attribute of Model-Based Design is the reusability of models and the implementation of components. AUTOSAR provides a standardized framework so that these components can be reused on differing embedded hardware, essentially providing a hardware agnostic approach to controller design. The focus of this talk is twofold, firstly we examine the impact of AUTOSAR on modeling of controllers within Simulink and secondly the strategy that companies have adopted for creating AUTOSAR application software from Simulink using Real-Time Workshop Embedded Coder.*
- 14.30 p.m. **Autosar managing complexity through standardisation**
Björn Westman, Application Engineer (Automotive Networking), Mentor, Germany
- The standardization of basic software and the need to distribute functions within a network, were key reasons for the creation of AUTOSAR. This presentation shows some fundamental concepts of AUTOSAR and Mentor's strategy for AUTOSAR in 2006 and beyond, covering the role of high-quality software components as well as design tools.*
- 15.00 p.m. **View of Software suppliers**
Hans-Jürgen Schulz-Claßen, Key Account Manager, 3Soft, Germany
- Autosar-conform Standard Software for Embedded Micros*
- 15.30 p.m. **Experiences from the validation**
Dr. Stefan Bunzel, AUTOSAR Project Leader, Continental Teves, Germany
- This talk presents the AUTOSAR validation concept and the experiences and lessons learned from the first validation phase.*
- 16.00 p.m. **Conclusions**
- 16.15 p.m. **Networking drink**



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