

### Workshop Goals

The goal of the workshop is to present results and plans from the projects AMALTHEA, MAENAD, SAFE and TIMMO-2-USE to an interested audience. The projects will explain the challenges addressed and the solutions provided in the areas of methodology, representation and tooling.

At the end of the workshop the views of the projects should be aligned and possible cooperation's be defined.

### The projects

**AMALTHEA**'s topic is "Development of an open source tool platform for model based development of automotive multi core system". AMALTHEA is an ITEA2 project with 15 partners from Finland, Germany, and Turkey. The project is funded by the national agencies (<http://www.itea2.org/project/index/view/?project=10015>).

**MAENAD** is the abbreviation for "Model-based Analysis & Engineering of Novel Architectures for Dependable Electric Vehicles". MAENAD is an FP7 project funded by the European Commission with participants from Finland, France, Germany, Italy, Sweden and the UK ([www.maenad.eu](http://www.maenad.eu)).

**SAFE** stands for "Safe Automotive software architecture". It is an ITEA2 project with 18

partners from France, Germany, and Austria. The project is funded by the national agencies ([www.safe-project.eu](http://www.safe-project.eu)).

**TIMMO-2-USE** means "TIMing MOdel – TOols, algorithms, languages, methodology, and USE cases" which summarizes the main objectives of the project. TIMMO-2-USE is an ITEA2 project with 17 partners from France, Germany, Sweden and the UK. The project is funded by the national agencies ([timmo-2-use.org](http://timmo-2-use.org)).

### ORGANIZATIONAL DATA

The workshop takes place in Berlin in the hotel:  
Angleterre Hotel,  
Friedrichstrasse 31, 10969 Berlin

Registration by E-mail at  
[amstregistration@maenad.eu](mailto:amstregistration@maenad.eu)  
is mandatory before 31.07.2012.

The participation fee for each participant is **76 .50€**, to be paid directly at the hotel reception. The participation fee includes

- Participation at the workshop presentations and the tool demonstration session for the two days.
- Drinks and coffee break on the 24.09 afternoon; drinks, coffee breaks and an international lunch buffet on the 25.09.

The hotel reserved a room contingent with an overnight price of 99€. The contingent is reserved until 24.08.2012. Please use the keyword "autoWS" in your reservation at

- Central Reservation; Tel.: +49 30 20213-300; E-Mail: [Angleterre@gold-inn.de](mailto:Angleterre@gold-inn.de)

### WORKSHOP CONTACTS

|                      |  |
|----------------------|--|
| <b>Registration:</b> | <a href="mailto:amstregistration@maenad.eu">amstregistration@maenad.eu</a>   |
| <b>AMALTHEA:</b>     | Karlheinz Topp, Robert Bosch;<br><a href="mailto:karlheinz.topp@de.bosch.com">karlheinz.topp@de.bosch.com</a>                        |
| <b>MEANAD:</b>       | Henrik Lönn, Volvo Technology;<br><a href="mailto:henrik.lonn@volvo.com">henrik.lonn@volvo.com</a>                                   |
| <b>SAFE:</b>         | Stefan Voget, Continental;<br><a href="mailto:stefan.voget@continental-corporation.com">stefan.voget@continental-corporation.com</a> |
| <b>TIMMO-2-USE:</b>  | Daniel Karlsson, Volvo Technology;<br><a href="mailto:daniel.b.karlsson@volvo.com">daniel.b.karlsson@volvo.com</a>                   |

**Program on page 2**

**PROGRAM MONDAY, 24.09.2012**

| Time  | Topic                                  | Presenter                         |
|-------|--|-----------------------------------|
| 13.00 | Welcome and introduction               |                                   |
| 13.15 | MAENAD                                 | Henrik Lönn                       |
| 13.45 | TIMMO-2-USE                            | Daniel Karlsson                   |
| 14.15 | SAFE                                   | Stefan Voget                      |
| 14.45 | AMALTHEA                               | Karlheinz Topp<br>Harald Mackamul |
| 15.15 | Tool demo introduction                 |                                   |
| 15.30 | Tool demos and coffee                  |                                   |
|       | MetaEdit+ EAST-ADL Editor              | Metacase                          |
|       | AutoFocus3                             | Fortiss                           |
|       | PREEVision                             | Vector /Aquintos                  |
|       | Pure Variants                          | Pure Systems                      |
|       | Brake By Wire validator                | Volvo                             |
|       | Timing-aware AUTOSAR system design     | DSpace                            |
|       | Typical case Analysis in TIMMO-2-USE   | TU Braunschweig                   |
|       | Timing Modelling and Analysis          | TimingArchitects                  |
|       | Requirements Engineering               | Itemis                            |
|       | SystemWeaver EAST-ADL Editor           | Systemite                         |
|       | SymTA/S                                | Symtvision                        |
|       | aiT Worst-Case Execution Time Analysis | AbsInt                            |
|       | INCHRON Tool-Suite                     | INCHRON                           |
|       | TCN TimeAnalyzer                       | TimeCriticalNetworks              |
| 17:00 | Wrap Up                                |                                   |
| 17.15 | End day 1                              |                                   |

**PROGRAM TUESDAY, 25.09.2012**

| Time  | Topic  | Presenter   |
|-------|--|---|
| 09.00 | Welcome  |   |
| 09.15 | Methodology  |   |
|       | 1. Introduction  | 1. H. Lönn (Volvo)  |
|       | 2. Generic Methodology Pattern – Theory and application to timing and safety use cases | 2. S. Kuntz (Continental)                                 |
|       | 3. Requirements Management in the Design Flow  | 3. M. Kelanti (University of Oulu)                        |
| 10.30 | Break  |   |
| 11.00 | Representation   |   |
|       | 1. Introduction  | 1. H. Blom (Volvo)  |
|       | 2. EAST-ADL Meta-model   | 2. M.-O. Reiser (TU Berlin)                               |
|       | 3. Model based development for functional safety                                       | 3. P. Cuenot (Continental),<br>T. Peikenkamp (OFFIS)      |
|       | 4. Modeling timing constraints, parameterized and multi clock systems in TADL2         | 4. J. Nordlander (Chalmers),<br>M.A Peraldi-Frati (INRIA) |
| 12.30 | Lunch  |   |
| 14.00 | Tooling  |   |
|       | 1. AMALTHEA Tool Platform Architecture   | 1. K.-H. Topp (Bosch),<br>H. Mackamul (Bosch)             |
|       | 2. EAST-ADL tool platform – EATOP  | 2. M.-O. Reiser (TU Berlin),<br>S. Voget (Continental)    |
|       | 3. Target Mapping in a multi-core environment  | 3. B. Igel, E. Kamsties (University of Dortmund)          |
|       | 4. TIMMO-2-USE tool-map: algorithms and tools in use                                   | 4. A. Monot (INRIA)                                       |
| 15.30 | Break  |   |
| 16.00 | Future directions  | S. Voget (Continental)                                    |
| 17.00 | End of workshop  |   |