Meeting Minutes

ARTI Proposal Workshop

Meeting Organization

Location   : Eden Hotel Wolff, Arnulfstraße 4, 80355 Munich

Moderator : Thomas Thomsen, ASAM e.V.

Time   : 2018-12-13, 10:00 - 16:00 CEST

Participants

NAME	COMPANY	ROLE	ATTENDANCE
Peter Gliwa	GLIWA GmbH embedded systems	Member	present
Armin Stingl	iSYSTEM AG für Informatiksysteme	Member	present
Rudolf Dienstbeck	Lauterbach GmbH	Member	present
Jinoo Jeong	Lauterbach GmbH	Member	present
Thomas Gröger	PLS Programmierbare Logik & Systeme GmbH	Member	present
Christian Heissenberger	Robert Bosch GmbH	Member	present
Simon Kramer	Robert Bosch GmbH	Member	present
Thorben Knust	TU Clausthal	Member	present
Andreas Sailer	Vector Informatik	Member	present
Sebastian Ziegler	Vector Informatik	Member	present
		Member	-

Agenda

Time	TOPIC	RESPONSIBLE
10:00	Welcome	Thomsen (ASAM)
10:05	Introduction of Participants	All
10:15	A Better Debug, Trace and Profiling Tool-Interaction with "ASAM-ARTI" by Extending "AUTOSAR-ARTI"	Dienstbeck (Lauterbach), Gliwa (GLIWA)
10:45	AMALTHEA: An Open Platform Project for Embedded Multicore Systems	Kramer (Robert Bosch)
11:15	Experiences with Debug and Trace at Volkswagen HFD	Knust (TU Clausthal)
11:45	Lunch	-
13:00	ASAM Standards Development Process	Thomsen (ASAM)

Time	Topic	Responsible
13:30	Open Discussion • Additional feature requests and requirements • Standardization approach • Coordination with AUTOSAR • Market relevance of the future standard	Mod.: Thomsen (ASAM)
14:30	Break	-
14:45	Next Step and Summary	Mod.: Thomsen (ASAM)
16:00	End	-

Minutes

Technical Content

The starting point for the ASAM ARTI data model could be the AMALTHEA data model, as implemented in the APP4MC Eclipse project. It shall then be extended with AUTOSAR ARTI elements. Those extensions can be fed back to the APP4MC Eclipse project.

The technical content of the project proposal has been presented by Mr. Gliwa and Mr. Dienstbeck. Content of the proposal shall be as described on pages 6 and 10. Requirements as on page 7.

Additional requirements:

- hybrid analysis: combined static and dynamic behavior

- identification of redundant tasks

- support for hypervised systems

Deliverables of the standard are listed on page 11 and 14.

Part of AUTOSAR ARTI

► System description

  ► "model" information (which tasks, runnables exist, what are their names, etc.) has always been part of ARXML

  ► ARTI event definitions

  ► ARTI debug-expressions

► ARTI OS hooks (and later user-defined events/stopwatches and later RTE hooks, etc.)

Part of Future ASAM ARTI

► System description

  ► "model" information (which tasks, runnables exist, what are their names etc.)

  ► ARTI event definitions

  ► ARTI debug-expressions

► ARTI hooks

► Exchange format for traces

► Exchange format for timing parameters (and through min/max attributes also simplistic timing requirements)

Coordination with AUTOSAR

Same experts work in both organizations.

Market Relevance of the Standard

See page 9 of the presentation.

Service Provider

1. Service provider is needed to create the UML model and write the standard. The service provider is also responsible to create/generate the schema file for JSON.

2. Develop the ARXML-to-JSON converter.

Planning

Proposal author: Mr. Dienstbeck, Mr Gliwa.

Project proposal shall be ready for approval for the TSC meeting in February.