Motivation

The data exchange is a critical bottleneck in all phases of plant engineering which reduces the efficiency of the planning and the consistency of the planning data due to a lack of consistency. While the lossless neutral data exchange is already state of the art, it is still not established within plant engineering.

The AutomationML e.V. addresses this issue with the data exchange format AutomationML in order to reduce the expensive and error-prone multiple creation of planning data, to avoid redundancies of planning data, to merge related planning data, and to optimize the data exchange.

Date

When: October 14th/15th, 2015
Where: Fraunhofer IOSB, Karlsruhe
Fraunhofer Straße 1
76131 Karlsruhe
Germany

Participation fee:
- 100 Euro (plus 19 % VAT)

Application deadline: September 18th, 2015

Requirements

To make the developers workshop as effectively as possible we request the following requirements of the participants

You are:
- tool developer,
- have basic knowledge about the implemented or to be implemented interface,
- and bring your engineering tool to the PlugFest,
- which internal data interfaces are accessible for you?

You have installed the development environment MS Visual Studio (at least 2012) on your workstation.

In that case we are looking forward to your registration.

Contact

AutomationML e.V. c/o IAF
Universitätsplatz 2
39106 Magdeburg
Germany
Phone + 49 (0) 391 67 51826
Fax + 49 (0) 391 67 12404

Email: office@automationml.org
www.automationml.org

Invitation to the 3rd AutomationML PlugFest 2015

The AutomationML e.V. invites you from October 14th to 15th, 2015 to the third PlugFest. The motto is:

„Developers workshop – Tool test and integration“

The aim of the PlugFest is to impart practical knowledge for a successful implementation of AutomationML interfaces and to improve the trust in existing implementations.

Currently, AutomationML is the comprehensive approach to establish a consistent data exchange between tools of the plant engineering with the aim to increase the planning efficiency and quality for discrete manufacturing industry as well as process industry.

The AutomationML e.V. consists of companies like Daimler, ABB, Siemens, KUKA und Volkswagen AG and a large number of further companies and leading research institutes.
Day 1: October 14th, 2015; 9:00-18:00

9:00-10:00 Reception, presentation of the agenda

Track 1 – Lecture series
10:00-12:00 Introduction to the architecture
Rainer Drath, ABB AG

Data modelling with AutomationML: Understand, structure, and classify data
Björn Grimm, Daimler AG

Data modelling with AutomationML: Mapping of data into the data exchange format AutomationML
Arndt Lüder, Otto-von-Guericke University Magdeburg

Admission ticket: What does an engineering tool need to have? Criteria for openness
Rainer Drath, ABB AG

12:00 Lunch

Track 1 – Guided programming workshop
13:00-16:45 Introduction to the programming of CAEX, programming with the AutomationML Engine 3.1
Rainer Drath, ABB AG, Josef Prinz, inpro mbH

Track 1 – Success stories
16:45-18:00 Smart Engineering Production 4.0 – AML in use as digital production description resp. as virtual prototype
Olaf Graesser, Phoenix Contact GmbH & Co. KG

Secure Plug & Work
Miriam Schliepan, Fraunhofer IOSB

MoMo – Mobile Monitoring and smart data analysis based on open standards
Miriam Schliepan, Fraunhofer IOSB

PCFF (Plug&Control for flexible material handling)
Michael Okon, Robert Henßien, Fraunhofer IOSB

Implementation of an AML interface in AVANTI project
Ender Yemenicioglu, tarakos GmbH

Engineering data management with the AML Hub
Stefan Biffl, TU Wien

Engineering data management with the NAMUR Container
Rainer Drath, ABB AG

19:00 Dinner

Day 2: October 15th, 2015; 9:00-16:00

Track 1 – Lecture series
09:00-11:00 Plugin development for the AML Editor
Josef Prinz, inpro mbH

Creation of COLLADA files
Ender Yemenicioglu, tarakos GmbH

Presentation and programming with a Java Engine
Ronald Rosendahl, Otto-von-Guericke University Magdeburg

Dealing with semantics in a heterogeneous tool landscape
Rainer Drath, ABB AG

Example: Creation of a role class library for material handling
Ender Yemenicioglu, tarakos GmbH

09:00-15:00 Continuation of the guided programming of Day 1
Rainer Drath, ABB AG, Josef Prinz, inpro mbH

12:00 Lunch

Track 1 – Guided programming workshop
11:00-15:00 Modelling and consistency check of multi-variant AML models with Eclipse
Sven Kägebein, inpro mbH

Track 2 – Expert panel A, B
Track 3 – Expert panel A, B
Track 4 – Interactive lectures

This awaits you:

At the third PlugFest you have the opportunity to test resp. to implement AutomationML interfaces among other tool developers. Thereby, the program contains:

- specialized lectures to the concepts of and to the implementation with the data exchange format AutomationML,
- interface programming and test on site,
- support by the AutomationML experts,
- networking while having dinner together.

Form your own opinion. Use the direct contact to the members of the AutomationML e.V. as well as to the other participants. We guarantee enough time for contacts and conversations and ensure a pleasant atmosphere during the whole event.

We are looking forward to be able to welcome you in Karlsruhe and to address the subject data exchange in a heterogeneous tool landscape with you. Your feedback is always welcome.

The program for both days is shown in the following figure.

You can find further information on our web page: www.automationml.org