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## Minutes 2<sup>nd</sup> Workshop (project kick-off at Alstom)

Validation of Metrics-Based Quality Control

### Overview

#### Date/Location

Date: 26<sup>th</sup> of April 2006  
Time: 8.00h – 9.00h  
Location: Alstom

#### Participants

ARiSA: Rüdiger Lincke, Welf Löwe  
Alstom: Per Ranstad

#### Purpose

1. Supplement to Minutes 2<sup>nd</sup> Workshop (Kick-off) from Monday 20<sup>th</sup> of February.
2. List of tasks for the different participants.
3. Summary about the decisions made during the meeting.
4. Summary about project and environment at Alstom.

### Tasks (*additional to already defined tasks*)

#### ARiSA:

- Get signed IPR agreements from partners and submit to KK-foundation.
- Prepare seminar at Alstom.

#### Alstom:

- Discuss IPR agreement and agree on it with ARiSA until Friday 29<sup>th</sup> of April.
- Determine an appointment for a seminar presenting the project to selected developers at Alstom, inform ARiSA until Monday 8<sup>th</sup> of May.

### Alstom Power Sweden AB

Alstom did not yet decide on a specific project, but they informed in general about the projects coming in question and infrastructure. Alstom's projects use C and Assembler as programming language. Typical are real-time applications in components based on embedded control systems being connected over network architecture with PC based data collection and monitoring systems.

Test of the different software systems are conducted according to test protocols. No records are stored and traceable. One project (pre-product state) stores test results, but it is not representative for the other projects being under development.

The architecture of an example project (EPIC III) was presented. It consists out of real-time integrated control stations connected over Ethernet with data gathering stations (PC). It is based on a framework and specific components. The control stations share the same/similar hardware platform and operating system. There is no product family defined. Code is inherited from one project to another (copy and paste, no OO inheritance/reuse). The platform is about 10 years old. Plans for creating a common product platform exist.

Alstom's goal with the participation in our project is to gain knowledge on how to measure, assure and improve quality in general. After this works for a prototype project they are interested in extending this to other projects. In particular it could be interesting to analyse for real-time aspects in the code (e.g., no while loops in real-time modules).

A seminar involving ARiSA and 3-5 Alstom developers will take place in the next weeks, duration 1-2 hours plus discussion time. A suitable date will be suggested by Per Ranstad until the 8<sup>th</sup> of May.

The contact person assigned depends on the project selected, which will happen after the seminar, till latest July.

### ***Budget used for workshop***

2x 0.5 days (Rüdiger, Per), Welf did not count.

### ***Next workshop***

In October/November 2006. Exact date will be decided on.