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## 3<sup>rd</sup> Newsletter (June 2007 – December 2007)

Validation of Metrics-Based Quality Control

### Overview

#### Audience:

ARiSA, Project partners (Combitech, Alstom, Windh, Artisan), KK-foundation

#### Participants

ARiSA: Rüdiger Lincke, Welf Löwe  
Alstom: Per Ranstad, Bengt-Åke Karlsson  
Artisan: Slavica Stjepanovic, Sören Strömberg, Susanne Sjö  
Combitech: Jan Thörnqvist, (Kjell Karlsson), Andreas Nilsson  
Windh: Emil Eifrem, Mattias Persson

#### Purpose

Inform about activities and changes in past period.  
Inform about pending and upcoming activities.

#### Period

June 2007 – December 2007

### Changes

The following changes occurred in the organization of the project.

1. **Alstom**  
Bengt-Åke Karlsson joined the project during spring 2007; he is the responsible contact for the *Control System* project contributed by Alstom. He retired in December 2007. A substitute is not yet assigned.
2. **Artisan**  
Susanne Sjö joined the project. She is the responsible contact for the *LKRekryteringssystem* project contributed by Artisan.
3. **Combitech**  
Kjell Karlsson retired summer 2007. Jan Thörnqvist is the new project responsible for the *RANDIS* project contributed by Combitech.
4. **Windh**  
Mattias Persson joined the project as additional contact for *daQapo* contributed by Windh.

### Upcoming Activities

The following activities are about to start and need attention of the participants.

1. **Collection of Validation Metrics**  
As pilot, we start immediately collecting the first validation metrics together with Combitech. The other projects will soon start collecting validation metrics as well.

### Pending Activities

The following activities/actions are pending.

## 2. **First Contact Analysis of LKRekryteringsystem**

Our front-end is almost finished, and the analysis will take place within the coming weeks.

## 3. **Workshop with Combitech**

The First Contact Analysis of RANDIS has been completed and partially discussed. A planned workshop was canceled. A new workshop needs to be arranged soon for discussing the results and the future proceeding.

## 4. **Workshop with Windh**

The First Contact Analysis of daQapo has been completed. The results have been discussed at Windh in a meeting. A workshop needs to be arranged soon for discussing the results and the future proceeding.

## Activities

The following activities and events can be reported for the specified period.

### **June 2007 – December 2007**

#### 1. **First Contact Analysis of daQapo.**

The daQapo project was submitted by Windh. It has been analyzed as part of a First Contact Analysis. The analysis results are currently evaluated by Windh. Their feedback will result in more specific analysis in a next step.

#### 2. **First Contact Analysis of Control System.**

The Control System project was submitted by Alstom. It has been analyzed as part of a First Contact Analysis. The analysis results are currently evaluated by Alstom. Their feedback will result in more specific analysis in a next step.

### **September 2006 – May 2007**

#### 3. **First Contact Analysis of RANDIS.**

RANDIS was submitted by Combitech. It has been analyzed as part of a First Contact Analysis. The analysis results are currently evaluated by Combitech. Their feedback will result in more specific analysis in a next step.

#### 4. **New scientific paper.**

The foundations for our unambiguous metric description framework have been documented in a scientific paper under the title: Foundations for Defining Software Metrics. It has been submitted to the 3<sup>rd</sup> International Workshop on Metamodels, Schemas, Grammars, and Ontologies for Reverse Engineering (ATEM), Genoa, Italy, 1<sup>st</sup> Oktober, 2006. It is available at: <http://www.arisa.se/files/LL-06b.pdf>

#### 5. **Presentation of paper.**

Our scientific paper was accepted for publication and has been presented at atem 2006. The paper has been discussed and we got some good feedback.

#### 6. **New journal paper.**

Our scientific paper presented at the ICSM2006 was selected as one of the best papers to be extended as a Journal article, which will be published in the IEEE Transactions of Software Engineering 2007, later this year. We are currently in the process of refining the existing version.

#### 7. **Licentiate Thesis.**

We documented and published our current project results describing the technical and scientific foundations for the experiments we want to conduct in the frame of this project as well as two case studies in form of a licentiate thesis. The thesis was presented and successfully defended the 25<sup>th</sup> of April, at the Växjö University. A hard copy of the thesis has been sent to all project partners.

**1<sup>st</sup> Newsletter: May 2006 – August 2006**

8. Randis as kick-off project.  
Combitech submitted its project RANDIS to ARiSA as first project to be analyzed. The analysis of this project is currently being prepared.
9. New scientific paper  
Our project (outline and goals) has been documented in a scientific paper under the title: Validation of a Standard- and Metric-Based Software Quality Model. It has been submitted to the 10<sup>th</sup> ECOOP Workshop on Quantitative Approaches in Object-Oriented Software Engineering (QAOOSE2006). It is available for download at: <http://www.arisa.se/files/LL-06.pdf>
10. Presentation of paper  
Our scientific paper was accepted for publication and has been presented at QAOOSE2006. The paper has been discussed and we got some good feedback, as well as a contact with a French company being interested in our experiment.
11. New scientific paper  
To facilitate our research we need a meta-model as foundation of our analysis. We described this meta-model in a scientific paper with the title: An Extensible Meta-Model for Program Analysis. It has been submitted to the 22<sup>nd</sup> IEEE International Conference on Software Maintenance (ICSM2006). It is available for download at: <http://www.arisa.se/files/SLLL-06.pdf>
12. Presentation of paper  
Our scientific paper was accepted for publication and will be presented end of the month at ICSM2006.
13. A more detailed project plan covering the current year has been created.
14. A communication plan has been created.
15. The project agreement has been signed by all parties and was submitted to KK-Foundation.
16. A Project Kick-off workshop with Alstom took place.
17. The project, its partners and the activities are documented on our homepage:  
[http://www.arisa.se/index\\_projects.html](http://www.arisa.se/index_projects.html)