

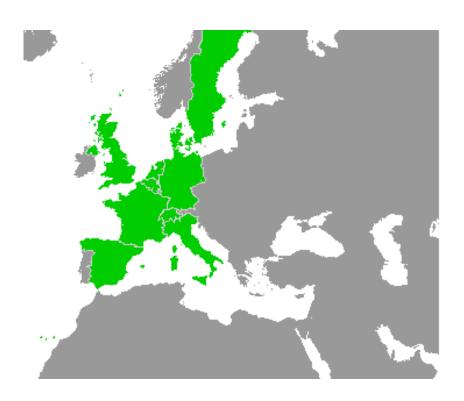
ITEA2 Project 2012 – 2015

Work-Package 6: "Dissemination, Exploitation and Standardization"

Dissemination Plan and Report

First version of the project Dissemination Plan (D6.1)

Sebastian Hudert Stefan Rieger December 2012



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Dissemination Plan and Report

First version of the project Dissemination Plan (D6.1)

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Deliverable

Abstract:

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1 Introduction

2 Exhibitions

2.1 ITEA2/Artemis Symposium

2.2 Exhibitions and Trade Shows

PLANNED INNOTRANS

Date: 2014

Location: Berlin, Germany

Interested Partners: Alstom, Deutsche Bahn, ERSA, ERTMS-Solutions, General Elec-

tric, Siemens, SNCF

INNOTRANS will provide an opportunity to present key results, e.g. modelling tools and simulators. INNOTRANS, the world's largest trade fair for railways and public transit, addressing the entire railway industry, will take place in combination with an international conference at one of the participation universities (e.g., TU Braunschweig) covering scientific aspects and project results, addressing more the academic world. Since several openETCS partners like Alstom, Deutsche Bahn, ERSA, ERTMS-Solutions, General Electric, Siemens, SNCF, etc. are regularly represented at that industrial fair, the openETCS subject could featured specifically at their particular exhibition having a best possible outreach to make the approach well known.

PLANNED BICCnet Innovation Forum Embedded Systems

Frequency: annual

Next Event: April 2013 (Munich, Germany)

Website: http://bicc-net.de/termine/termin/

innovation-forum-embedded-systems/

Interested Partners: Fraunhofer ESK

Presentation of openETCS partner results on booth

PLANNED Embedded World Conference

Frequency: annual

Next Event: March 2013 (Nuremberg, Germany)
Website: http://www.embedded-world.eu/

Interested Partners: Fraunhofer ESK

Presentation of openETCS partner results on booth

PLANNED Rencontre du numérique de l'ANR

Frequency: annual

Next Event: April 2013 (Paris, France)

Interested Partners: CEA LIST

Presentation of (French) projects related to OpenETCS; CEA LIST plans to present the Frama-C tool.

3 External Conferences

3.1 Railway, Vehicular and Transportation

12th International SIGNAL+DRAHT-Congress 2012

Type of Contribution: Talk

Title: openETCS: Von der Idee zur Praxis

Speaker: Klaus-Rüdiger Hase (DB)

Date: 08-09/12/2012 Location: Fulda, Germany

Description to follow

PLANNED ERTMS World Conference

Frequency: bi-annual

Next Event: 2014 (Istanbul, Turkey)

Website: http://www.ertms-conference2014.com

As the ETCS standard is one part of the European Rail Traffic Management System (ERTMS) this conference is highly recommended to present openETCS.

PLANNED Moderne Schienenfahrzeuge

Location: Graz, Austria
Organisator: TU Graz

Website: http://www.schienenfahrzeugtagung.at/homeE.htm

PLANNED SIGNAL+DRAHT-Congress

Frequency: annual

Website: http://www.eurailpress.de/events/

eurailpress-events.html

PLANNED IEEE Vehicular Technology Conference

Frequency: semi-annual

Next Events: June 2013 (Dresden, Germany), Sept. 2013 (Las Vegas, USA)

Website: http://www.ieeevtc.org/vtc2013spring

This semi-annual flagship conference of the IEEE Vehicular Technology Society will bring together individuals from academia, government, and industry to discuss and exchange ideals in the fields of wireless, mobile, and vehicular technology. The conference will feature world-class plenary speakers, tutorials, and technical as well as application sessions.

PLANNED International Conference on Design and Operation in Railway Engineering (Comprail)

Frequency: bi-annual Next Event: 2014

Interested Partners: Fraunhofer ESK (Session: Computer techniques and simulations)

The aim of the conference is to review the latest developments in railway engineering and update the use of advanced systems, promoting general awareness throughout the business management, design, manufacture and operation of railways.

PLANNED International Railway Safety Conference (IRSC)

Frequency: bi-annual Next Event: 2014

PLANNED Conference on Railway Engineering (CORE)

Frequency: bi-annual Next Event: 2014

PLANNED Fachtagung Technische Zuverlässigkeit (TTZ)

Frequency: bi-annual

Next Event: April 2013 (Leonberg, Germany)

Website: http://www.vdi-wissensforum.de/de/nc/angebot/

detailseite/event/02TA502013

3.2 Verification and Validation

PAST FORMS/FORMAT 2012

Type of Contribution: Conference Paper and Talk

Title: Using ERTMSFormalSpecs to model ERTMS braking curves

Authors: L. Ferier, S. Lukicheva and S. Pinte (ERTMS Solutions)

Date: 11-13/12/2012

Location: Braunschweig, Germany

Website: http://www.forms-format.de

Abstract to follow

10th International Conference on Software Engineering and Formal Methods

(SEFM)

Type of Contribution: Conference Paper and Talk

Title: Frama-C: a Software Analysis Perspective

Author: Virgile Prevosto (CEA LIST)

Date: 01-05/10/2012

Location: Thessaloniki (Greece)
Publisher: Springer (LNCS)

Website: http://sefm2012.city.academic.gr/

Abstract to follow

24th IFIP International Conference on Testing Software and Systems (ICTSS)

Type of Contribution: Conference Paper and Talk

Title: Off-line test case generation for timed symbolic model-based con-

formance testing

Author: Christophe Gaston (CEA LIST)

Date: 19-21/11/2012

Location: Aalborg (Denmark)
Publisher: Springer (LNCS)

Website: http://ictss2012.aau.dk/

Abstract to follow

PLANNED IFIP International Conference on Testing Software and Systems (ICTSS)

Frequency: annual
Interested Partners: CEA LIST

The well-established ICTSS series of international conferences addresses the conceptual, theoretic, and practical challenges of testing software systems, including communication protocols, services, distributed platforms, middleware, embedded systems, and security infrastructures.

PLANNED European Safety and Reliability Conference (ESREL)

Frequency: annual

Next Event: Sept. 2013 (Amsterdam, Netherlands)

Website: http://www.esrel2013.org/

Safety, reliability and risk management become more and more important in an always more challenging and competitive environment, in every industry and human activity: multidisciplinary approaches to safety and reliability engineering and risk management become more and more necessary and attractive.

This annual conference will provide a forum for presentation and discussion of scientific works covering theories and methods in the field of risk, safety and reliability, and their application to a wide range of industrial, civil and social sectors and problem areas. ESREL 2011 will also be an opportunity for researchers and practitioners, academics and engineers to meet, exchange ideas and gain insight from each other.

PLANNED $\lambda\mu$ Symposium

Frequency: bi-annual
Next Event: 2014 (France)

Website: http://www.imdr.fr/en/sommaire/index.php

Interested Partners: ALL4TEC
French safety and reliability conference

PLANNED Nasa Formal Methods Symposium (NFM)

Frequency: annual

Next Event: May 2013 (Moffet Field, USA)

Website: http://ti.arc.nasa.gov/events/nfm-2013/

Interested Partners: CEA LIST

The NASA Formal Methods Symposium is a forum for theoreticians and practitioners from academia, industry, and government, with the goals of identifying challenges and providing solutions to achieving assurance in mission- and safety-critical systems.

PLANNED Integrated Formal Methods (iFM)

Frequency: annual

Next Event: June 2013 (Turku, Finland)

Website: http://www.it.abo.fi/iFM2013/

Interested Partners: CEA LIST

The iFM conference series seeks to further research into hybrid approaches to formal modeling and analysis; i.e., the combination of (formal and semi-formal) methods for system development, regarding modeling and analysis, and covering all aspects from language design through verification and analysis techniques to tools and their integration into software engineering practice.

PLANNED IFIP International Conference on Formal Techniques for Distributed Systems

Interested Partners: Institut Telecom

PLANNED International Conference on Testing Software and Systems

Interested Partners: Institut Telecom

PLANNED International Conference on Software Engineering and Formal Methods

Interested Partners: Institut Telecom

PLANNED IEEE International Conference on Software Testing

Interested Partners: Institut Telecom

3.3 Software Engineering and Methodologies

Workshop on Certification and Model-Driven Development of Safety Critical Software (ZeMoSS)

Date: 27/02/2013

Location: Aachen, Germany

Website: http://zemoss.in.tu-clausthal.de/

Interested Partners: DLR

The requirements for software quality of safety critical systems are very high, especially for the aspects of functional safety and information security. This German workshop covers among others the topics of model-driven development, integration of safety and security, and certification of open source software. Thus it is highly relevant for the project.

PLANNED Embedded Real Time Software and Systems (ERTS²)

Frequency: annual

Next Event: 2013 (France)

Website: http://www.erts2012.org/

Interested Partners: ALL4TEC

The ERTS² Congress is a unique European cross sector event on Embedded Software and Systems, a platform for top-level science with representatives from universities, research centers and industries.

International Conference on Model Driven Engineering Languages & Systems (MODELS)

Frequency: annual

Next Event: Sep., Oct. 2013 (Miami, USA)

Website: http://www.modelsconference.org/

Interested Partners: Fraunhofer ESK

PLANNED IEEE International Conference on Software Engineering (ICSE)

Frequency: annual

Next Event: May 2013 (San Francisco, USA)

Website: http://2013.icse-conferences.org/

Interested Partners: Fraunhofer ESK, Institut Telecom

The International Conference on Software Engineering (ICSE) is the premier software engineering conference, providing a forum for researchers, practitioners and educators to present and discuss the most recent innovations, trends, experiences and concerns in the field of software engineering.

PLANNED Embedded World Conference

Frequency: annual

Next Event: March 2013 (Nuremberg, Germany)
Website: http://www.embedded-world.eu/

Interested Partners: Fraunhofer ESK

PLANNED BICCnet Innovation Forum Embedded Systems

Frequency: annual

Next Event: April 2013 (Munich, Germany)

Website: http://bicc-net.de/termine/termin/

innovation-forum-embedded-systems/

Interested Partners: Fraunhofer ESK

PLANNED IEEE/ACM International Conference on Automated Software Engineering

Next Event: Sept. 2013 (Essen, Germany)
Website: http://ase2012.paluno.uni-due.de/

Interested Partners: Institut Telecom

PLANNED International Conference on Quality Software

Interested Partners: Institut Telecom

PLANNED ACM Symposium on Applied Computing (SAC)

Frequency: annual

Next Event: Feb. 2013 (Coimbra, Portugal)

Website: http://acm.org/conferences/sac/

Interested Partners: CEA LIST, Institut Telecom

Over the past years, the ACM Symposium on Applied Computing (SAC), the primary SIGAPP Annual Conference, has become a primary forum for applied computer scientists, computer engineers, software engineers, and application developers from around the world to interact and present their work.

PLANNED Joint meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering

Interested Partners: Institut Telecom

PLANNED IEEE International Symposium on High Assurance Systems Engineering

Interested Partners: Institut Telecom

PLANNED International Conference on Software Engineering and Knowledge Engineering

Interested Partners: Institut Telecom

PLANNED Asia-Pacific Software Engineering Conference

Interested Partners: Institut Telecom

3.4 Open Source

PLANNED EclipseCon Europe

Frequency: annual

Next Event: Oct. 2013 (Ludwigsburg, Germany)
Website: http://www.eclipsecon.org

Interested Partners: EclipseSource

EclipseCon is one of the largest open source conferences of the world. Several consortia such as the Automotive Group and the OPEES group are presenting their results and are looking for potential collaboration partners.

3.5 General Computer Engineering and Computer Science

PLANNED International Conference on Information Systems Security

Interested Partners: Institut Telecom

4 Events Organised by openETCS Project Partners

PAST CENELEC Course

Date: 10/12/2012
Location: Paris, France
Organisator: ALL4TEC

Participants: openETCS consortium

Introduction to the CENELEC standard (EN 50128) which is highly relevant to openETCS.

ERTMSFormalSpecs Workshop

Date: 17-18/12/2012
Location: Brussels, Belgium
Organisator: ERTMS Solutions

Participants: openETCS consortium, ERA, RFF, DVIS

WP3a/b tasks contributions

PLANNED Workshop on Advances in Model Based Testing

Organisator: Institut Telecom

PLANNED International Summer School on Training And Research On Testing

Date: July 2013

Location: Volterra, Italy

Organisator: Institut Telecom

PLANNED Workshop on Formal Methods in the Development of Software

Organisator: Institut Telecom

PLANNED International Workshop on Security Testing

Organisator: Institut Telecom

PLANNED openETCS Conference 2013

Date: Q4 2013

Participants: openETCS consortium

Approximately by the End of 2013 a mid-term conference under the patronage of the UIC (Union Internationale des Chemins de Fer, engl.: International Union of Railways) in Paris is planned. It will be attracting potential users, which are railway companies world wide.

PLANNED openETCS Conference 2015

Date: 2015

Participants: openETCS consortium

After finishing the project in 2015 a second conference on the openETCS subject is planned to present the final results and most likely first marketable products at an adjacent product exhibition.

5 Journals and Magazines

PLANNED Networking Sciences

Interested Partners: Institut Telecom

PLANNED Annals of Telecommunications

Interested Partners: Institut Telecom

PLANNED Computer Networks

Interested Partners: Institut Telecom

PLANNED Journal of Statistical Software

Website: http://www.jstatsoft.org/

Interested Partners: Institut Telecom

PLANNED Software Tools for Technology Transfer (STTT)

Website: http://sttt.cs.uni-dortmund.de/

Interested Partners: CEA LIST

PLANNED SIGNAL+DRAHT

Website: http://www.eurailpress.de/verlag/zeitschriften/

signal-draht/profil.html

PLANNED International Railway Journal (IRJ)

Website: http://www.railjournal.com

PLANNED Eisenbahntechnische Rundschau (ETR)

Website: http://www.eurailpress.de/verlag/zeitschriften/

eisenbahntechnische-rundschau/profil.html

PLANNED ZEV Rail

Website: http://www.zevrail.de

6 Standardisation

Standardisation activities will ensure that the project results will feedback to the relevant standardisation bodies such as ERA, CENELEC, thus ensuring that the project results are aligned with recent advancements in the standardisation committees and that standardisation benefits from public funded knowledge and experience.

As the open source software and open proof philosophy is very innovative in railway control and protection applications, a significant impact from the openETCS project on the existing standards is expected. By providing impact analyses, the project results will be embedded in the CENELEC standards setting process as well as in the development of the ETCS specifications by the ERA, in particular of the system requirements specification. Several partners of this ITEA2 Project (railway operators as well as manufacturers) are actively working in related standardisation committees.

6.1 ETCS

The system requirements specification (SRS) of ETCS has been published as an official document by the European Railway Agency (ERA), a governmental organization implemented by the European Commission. The purpose of the SRS is to specify the future unified standard European Train Control System ETCS from a technical point of view.

6.2 CENELEC

The European Standard EN 50128 from the "European Committee for Electrotechnical Standard-ization" (CENELEC) specifies procedures and technical requirements for the development of programmable electronic systems for use in railway control and protection applications. It is aimed for use in any area where there are safety implications.

7 Open Source Activities

- 7.1 Establishing the Infrastructure
- 7.1.1 Github
- 7.1.2 Sharepoint
- 7.2 Toolchain
- 7.3 Ecosystem
- 7.4 Methodologies
- 8 Further Activities
 - 8.1 Registered association (eingetragener Verein)
 - 8.2 Press Releases

- 8.3 Flyers
- 9 Communication
 - 9.1 Internal Communication
 - 9.1.1 Google Groups
 - 9.1.2 Mailing Lists
 - 9.2 External Communication
 - 9.2.1 openETCS Website

References

References

[1] Leslie Lamport, ETeX: A Document Preparation System. Addison Wesley, Massachusetts, 2nd Edition, 1994.