

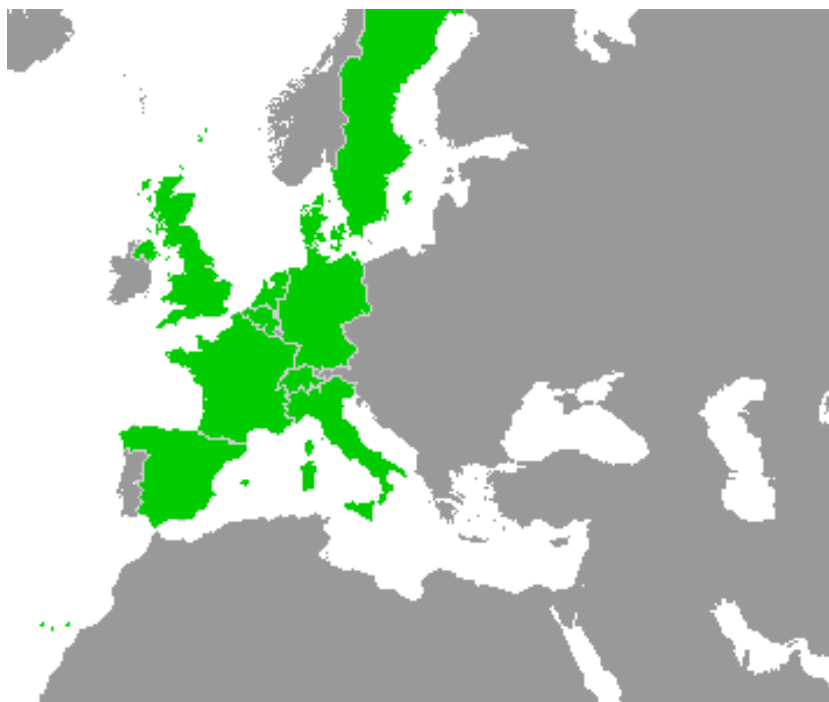
Work-Package 6: “Dissemination, Exploitation and Standardization”

Dissemination Plan and Report

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

Frank Gولاتowski, Stefan Rieger and @all: Add your name if you contributed

December 2012



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Dissemination Plan and Report

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

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Deliverable

Prepared for ITEA2 openETCS consortium
Europa

Abstract:

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1 Introduction

To be completed by TWT

2 Exhibitions

2.1 ITEA2/Artemis Symposium

To be completed

2.2 Exhibitions and Trade Shows

PLANNED INNOTRANS

Date: 2014

Location: Berlin, Germany

Interested Partners: Alstom, Deutsche Bahn, ERSa, ERTMS-Solutions, General Electric, 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 be 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, To be completed by Fraunhofer ESK

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, To be completed by Fraunhofer ESK

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 Framac tool.

3 External Conferences**3.1 Railway, Vehicular and Transportation****PAST 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

To be completed by DB

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>

@all: Please check if this is still relevant and complete it. Otherwise this entry will be removed.

PLANNED SIGNAL+DRAHT-Congress

Frequency: annual

Website: <http://www.eurailpress.de/events/eurailpress-events.html>

@all: Please check if this is still relevant and complete it. Otherwise this entry will be removed.

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>
 Interested Partners: @all: check whether this is relevant for you!

This semi-annual flagship conference of the IEEE Vehicular Technology Society will bring together individuals from academia, government, and industry to discuss and exchange ideas 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

@all: Please check if this is still relevant and complete it. Otherwise this entry will be removed.

PLANNED Conference on Railway Engineering (CORE)

Frequency: bi-annual
 Next Event: 2014

@all: Please check if this is still relevant and complete it. Otherwise this entry will be removed.

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>

@all: Please check if this is still relevant and complete it. Otherwise this entry will be removed.

PLANNED World Congress on Railway Research 2013 (WCRR 2013)

Frequency: bi-annual
 Next Event: Nov. 2013 (Sydney, Australia)
 Website: <http://www.wcrr2013.org/>
 Interested Partners: TU Braunschweig

The World Congress on Railway Research is the world's foremost international forum for the promotion, development and exchange of the latest innovations in the global rail industry. Therefore it can be used to promote openETCS and our first results to researchers, manufacturers and operators from across the global rail industry.

PLANNED 2013 IEEE International Conference on Intelligent Rail Transportation (IEEE ICIRT 2013)

Next Event: Aug. 2013 (Beijing, China)
 Website: <http://www.ieee-icirt.org/>
 Interested Partners: TU Braunschweig

Since there is a high interest in openETCS and its results in Asia, the 2013 IEEE International Conference on Intelligent Rail Transportation provides a forum to communicate with potential partners. The theme of ICIRT 2013 is "Safe, Green & Intelligent Rail".

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>

To be completed by ERTMS Solutions

PAST 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/>

To be completed by CEA LIST

PAST 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 conformance testing
 Author: Christophe Gaston (CEA LIST)
 Date: 19-21/11/2012
 Location: Aalborg (Denmark)
 Publisher: Springer (LNCS)
 Website: <http://ictss2012.aau.dk/>

To be completed by CEA LIST

PLANNED 11th IEEE International Conference on Industrial Informatics (INDIN)

Date: 29-31/07/2013
 Location: Bochum (Germany)

Interested Partners: DB, ERTMS Solutions, TWT, University of Rostock

Deutsche Bahn, TWT, the University of Rostock, and the project-external partner Infineon will organize a special session “Ensuring Safety in Industrial Critical Systems” at this conference. This workshop focuses on the design and verification of E/E systems in safety-critical areas, such as the automotive, railway, aerospace or automation industry. This includes scientific approaches, industrial case studies as well as tools that support development, validation, verification and testing of safety systems. Several contributions from the openETCS project are expected.

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, **To be completed by ALL4TEC**

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 FORMS/FORMAT 2014

Frequency: bi-annual
 Next Event: Jan. 2014 (Braunschweig, Germany)
 Website: <http://www.forms-format.de>
 Interested Partners: TU Braunschweig

The symposium FORMS/FORMAT 2012 offers scientists facing formal techniques, practitioners and managers, developers and consultants of automotive and railway industries as well as traffic system operators with interest in formal methods an accepted platform for the exchange of scientific experience and the transfer of practical description means, methods and tools for complex automation systems. With its focus on formal methods and transportation it provides an ideal forum to present openETCS and its results.

PLANNED IFIP International Conference on Formal Techniques for Distributed Systems

Interested Partners: Institut Telecom

To be completed by Institut Telecom

PLANNED International Conference on Testing Software and Systems

Interested Partners: Institut Telecom

To be completed by Institut Telecom

PLANNED International Conference on Software Engineering and Formal Methods

Interested Partners: Institut Telecom

To be completed by Institut Telecom

PLANNED IEEE International Conference on Software Testing

Interested Partners: Institut Telecom

To be completed by Institut Telecom

3.3 Software Engineering and Methodologies**PLANNED 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.

PLANNED 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

To be completed by 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

To be completed by 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

To be completed by 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

To be completed Institut Telecom

PLANNED International Conference on Quality Software

Interested Partners: Institut Telecom

To be completed 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

To be completed Institut Telecom

PLANNED IEEE International Symposium on High Assurance Systems Engineering

Interested Partners: Institut Telecom

To be completed Institut Telecom

PLANNED International Conference on Software Engineering and Knowledge Engineering

Interested Partners: Institut Telecom

To be completed Institut Telecom

PLANNED Asia-Pacific Software Engineering Conference

Interested Partners: Institut Telecom

To be completed 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.

@EclipseSource: Please check, whether these data are correct.

3.5 General Computer Engineering and Computer Science**PLANNED International Conference on Information Systems Security**

Interested Partners: Institut Telecom

To be completed 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.

@ALL4TEC: Was this workshop open for external people to attend or just an internal event?

PAST ERTMSFormalSpecs Workshop

Date: 17-18/12/2012
Location: Brussels, Belgium
Organisator: ERTMS Solutions
Participants: openETCS consortium, ERA, RFF, DVIS

WP3a/b tasks contributions, @ERTMS Solutions: Was this workshop open for external people to attend or just an internal event?

PLANNED Workshop on Advances in Model Based Testing

Organisator: Institut Telecom

To be completed by Institut Telecom

PLANNED International Summer School on Training And Research On Testing

Date: July 2013
Location: Volterra, Italy
Organisator: Institut Telecom

To be completed by Institut Telecom

PLANNED Workshop on Formal Methods in the Development of Software

Organisator: Institut Telecom

To be completed by Institut Telecom

PLANNED International Workshop on Security Testing

Organisator: Institut Telecom

To be completed by Institut Telecom

PLANNED Test4Rail Symposium

Date: Q4/2013
Location: Braunschweig
Organisator: DLR

To be completed by DLR

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

To be completed by Institut Telecom

PLANNED Annals of Telecommunications

Interested Partners: Institut Telecom

To be completed by Institut Telecom

PLANNED Computer Networks

Interested Partners: Institut Telecom

To be completed by Institut Telecom

PLANNED Journal of Statistical SoftwareWebsite: <http://www.jstatsoft.org/>

Interested Partners: Institut Telecom

To be completed by Institut Telecom

PLANNED Software Tools for Technology Transfer (STTT)Website: <http://sttt.cs.uni-dortmund.de/>

Interested Partners: CEA LIST

To be completed by CEA LIST

PLANNED SIGNAL+DRAHTWebsite: <http://www.eurailpress.de/verlag/zeitschriften/signal-draht/profil.html>

@all, especially DB: Check whether this is still relevant, then please complete it. Otherwise it will be removed.

PLANNED International Railway Journal (IRJ)

Website: <http://www.railjournal.com>

@all, especially DB: Check whether this is still relevant, then please complete it. Otherwise it will be removed.

PLANNED Eisenbahntechnische Rundschau (ETR)

Website: <http://www.eurailpress.de/verlag/zeitschriften/eisenbahntechnische-rundschau/profil.html>

@all, especially DB: Check whether this is still relevant, then please complete it. Otherwise it will be removed.

PLANNED ZEV Rail

Website: <http://www.zevrail.de>

@all, especially DB: Check whether this is still relevant, then please complete it. Otherwise it will be removed.

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6 Standardisation

To be completed by DB

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 Standardization” (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

To be completed by EclipseSource

7.1 Establishing the Infrastructure

7.1.1 Github

7.2 Toolchain

7.3 Ecosystem

7.4 Methodologies

8 Further Activities

8.1 Registered association (eingetragener Verein)

To be completed by DB

8.2 Press Releases

To be completed by DB

9 Communication

To be completed by TWT

9.1 Internal Communication

9.1.1 Google Groups

9.1.2 Mailing Lists

9.1.3 SharePoint

9.2 External Communication

9.2.1 openETCS Website

References