OETCS/WP6/D6.1

openETCS

ITEA2

INFORMATION TECHNOLOGY FOR EUROPEAN ADVANCEMENT

ITEA2 Project
2012 – 2015

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

Dissemination Plan and Report

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

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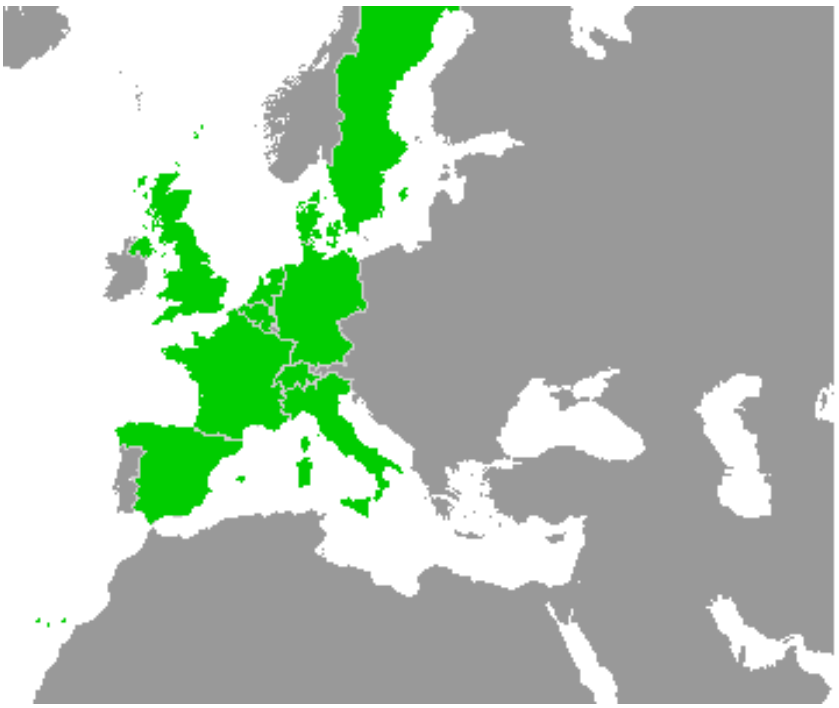

Dissemination Plan and Report

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

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Abstract:

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1 Introduction

2 Exhibitions

2.1 ITEA Symposium

2.2 Exhibitions and Trade Shows

INNOTRANS
Date(s): 2014 Location: Berlin Interested Partners: xyz, abz
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.

3 External Conferences

3.1 Railway, Vehicular and Transportation

ERTMS World Conference
Date(s): ? Location: ? Interested Partners: ?
?
Signal und Draht
Date(s): ? Location: Fulda (D) Interested Partners: ?
?
Moderne Schienenfahrzeuge
Date(s): ? Location: Graz (A) Interested Partners: ?
TU Graz
Global Transport Forum Conference
Date(s): ? Location: ? Interested Partners: ?
Conference on Signalling and Train Control
Vehicular Conference
Date(s): ? Location: ? Interested Partners: ?
?
International Conference on Design and Operation in Railway Engineering (Comprail)
Date(s): ? Location: ? Interested Partners: ?
worldwide
International Railway Safety Conference (IRSC)
Date(s): ? Location: ? Interested Partners: ?
bi-annual, worldwide
Conference on Railway Engineering (CORE)

Date(s): ? Location: ? Interested Partners: ?

bi-annual, worldwide

3.2 Verification and Validation

European Safety and Reliability Conference (ESREL)

Date(s): ? Location: ? Interested Partners: ?

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.

3.3 Software Engineering and Methodologies

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

Date(s): Feb. 2013 Location: Aachen (D) Interested Partners: ?

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.

3.4 Open Source

3.5 General Computer Engineering and Computer Science

ETFA

Date(s): ? Location: ? Interested Partners: ?

?

4 Conferences Organised by the openETCS Project

During the course of the programme two conferences are planned to present intermediate as well as final results of the project.

OpenETCS Conference 2013

Date(s): 2013 Location: ? Interested Partners: ?

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.

OpenETCS Conference 2015

Date(s): 2015 Location: ? Interested Partners: ?

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

Signal und Draht
Editors: ? Interested Partners: ?
?
International Railway Journal
Editors: ? Interested Partners: ?
?
ETR
Editors: ? Interested Partners: ?
?
ZEV Rail
Editors: ? Interested Partners: ?
?

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 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 Opens 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

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