

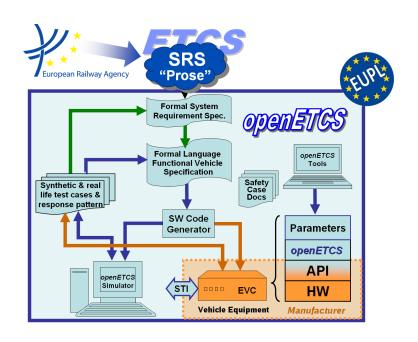
ITEA2 Project Call 6 11025 2012 - 2015

Work-Package 4: "V&V"

ETCS Specification Findings

Findings of ETCS specification analyses

Stefan Rieger September 2013



Funded by:















This page is intentionally left blank

Work-Package 4: "V&V"

OETCS/WP1/D02 September 2013

ETCS Specification Findings

Findings of ETCS specification analyses

Stefan Rieger

TWT GmbH Science & Innovation Bernhäuser Strase 40-42 73765 Neuhausen Germany

Description of work

Prepared for openETCS@ITEA2 Project

Abstract: This document lists analysis results of the ETCS specification and accompagnying standards that indicate problems such as unclearities, inconsistencies, ambiguities, incompleteness or errors. For now it is part of TWT's model verification user story but the goal is to extend its scope.

Disclaimer: This work is licensed under the "openETCS Open License Terms" (oOLT) dual Licensing: European Union Public Licence (EUPL v.1.1+) AND Creative Commons Attribution-ShareAlike 3.0 – (cc by-sa 3.0)

THE WORK IS PROVIDED UNDER OPENETCS OPEN LICENSE TERMS (oOLT) WHICH IS A DUAL LICENSE AGREEMENT INCLUDING THE TERMS OF THE EUROPEAN UNION PUBLIC LICENSE (VERSION 1.1 OR ANY LATER VERSION) AND THE TERMS OF THE CREATIVE COMMONS PUBLIC LICENSE ("CCPL"). THE WORK IS PROTECTED BY COPYRIGHT AND/OR OTHER APPLICABLE LAW. ANY USE OF THE WORK OTHER THAN AS AUTHORIZED UNDER THIS OLT LICENSE OR COPYRIGHT LAW IS PROHIBITED.

BY EXERCISING ANY RIGHTS TO THE WORK PROVIDED HERE, YOU ACCEPT AND AGREE TO BE BOUND BY THE TERMS OF THIS LICENSE. TO THE EXTENT THIS LICENSE MAY BE CONSIDERED TO BE A CONTRACT, THE LICENSOR GRANTS YOU THE RIGHTS CONTAINED HERE IN CONSIDERATION OF YOUR ACCEPTANCE OF SUCH TERMS AND CONDITIONS.

http://creativecommons.org/licenses/by-sa/3.0/

http://joinup.ec.europa.eu/software/page/eupl/licence-eupl

Table of Contents

1	Purpo	se of this Document	4
2	List of Issues		4
	2.1	Subset 026 3.6 Location Principles, Train Position and Train Orientation	4
	2.2	Subset 026 5.4 Procedure Start of Mission	4
References		4	

1 Purpose of this Document

This document lists findings in the ETCS specification and accompagnying standards indicating problems such as inconsistencies, ambiguities, incompleteness or errors that arise during analysis or modelling. The goals are the following:

- Clarify and correct problems to help in system modelling
- Indicate issues in the standard for future improvement
- ...

This document is to be considered as "living document" that is continuously extended during the runtime of the project. Solutions to issues or workarounds shall be added when available.

2 List of Issues

2.1 Subset 026 3.6 Location Principles, Train Position and Train Orientation

Issue #1 (3.6.1.3 Train Position): What is the difference between the *estimated train front end position* and the *train confidence interval*? Both values are contained in the *train position information*. It seems that the *train confidence interval* is a more conservative approximation. If this is the case, how exactly is the *estimated train front end position* defined?

Resolution: Write resolution here...

2.2 Subset 026 5.4 Procedure Start of Mission

Issue #2 (5.4.2.2 Train Data): It is not clear what the train data consists of.

References