

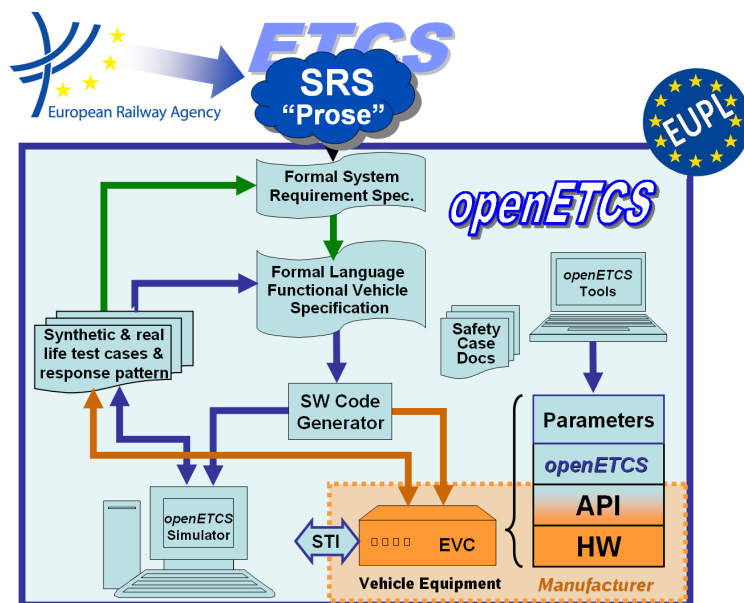
Work-Package 3: "Modeling"

Deliverable: openETCS Functional Model

First Iteration: ETCS Kernel Functions

 Bernd Hekele, Peter Mahlmann, Peyman Farhangi, Uwe Steinke,
 Christian Stahl and David Mentré

December 2014



Funded by:


 Federal Ministry
 of Education
 and Research

 Région de
 Bruxelles-
 Capitale


This page is intentionally left blank

Work-Package 3: “Modeling”

OETCS/WP3/D3.6.1
December 2014

Deliverable: openETCS Functional Model

First Iteration: ETCS Kernel Functions

Document approbation

Lead author:	Technical assessor:	Quality assessor:	Project lead:
location / date	location / date	location / date	location / date
signature	signature	signature	signature
Bernd Hekele (DB-Netz)	Uwe Steinke (Siemens)	Izaskun de la Torre (SQS)	Klaus-Rüdiger Hase (DB Netz)

Bernd Hekele, Peter Mahlmann, Peyman Farhangi

DB-Netz AG
 Völckerstrasse 5
 D-80959 München, Germany

Uwe Steinke

Siemens AG

Christian Stahl

TWT-GmbH

David Mentré

Mitsubishi Electric R&D Centre Europe

Architecture and Design Specification

Prepared for openETCS@ITEA2 Project

Abstract: The document is used to define the deliverable of the functional model.

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>

Modification History

Version	Section	Modification / Description	Author
0.1	all	Initial document providing the structure	Bernd Hekele

Table of Contents

1 D3.6.1 Deliverable

D3.6 deploys the SRS Subset 26 Functional Model.

The functional model provides a semi-formal model of the Subset 26 of the SRS. The deliverable covers the scope of the first iteration of the openETCS project (Kernel Functions). It is aligned with deliverable D3.5.1 (the Architecture).

The deliverable consists of the Scade Model, C-Code generated by the C-Code generator and a text document - also generated from the Scade Model.

You find the first iteration release on Github when you following this link: <https://github.com/openETCS/modeling/releases/tag/v0.1-D3.6.1>.

The First Iteration design document is stored under this link: https://github.com/openETCS/modeling/blob/master/openETCSDesignDocuments/firstIteration/WP3_InitialArchitecture_DesignDescription.pdf