Work-Package 3: “Modelling”

Open Source Code

Dr. Peter Mahlmann

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Open Source Code

Document approbation

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<tr>
<th>Lead author:</th>
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Deliverable

Prepared for openETCS@ITEA2 Project

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Abstract: This document represents deliverable D3.8 "Open Source Code" of the openETCS project. Since this is a software deliverable this document only provides links to the source code of the openETCS onboard unit (OBU) developed in work package 3 "Modelling" of the project.
Modification History

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<th>Version</th>
<th>Section</th>
<th>Modification / Description</th>
<th>Author</th>
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<td>1.0</td>
<td>all</td>
<td>initial release</td>
<td>Peter Mahlmann</td>
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1 Introduction

A primary goal of the openETCS ITEA2 project is to provide a formal specification and a non-vital reference implementation of an ETCS onboard unit (OBU) according to the specification defined in Subset-026 by the European Railway Agency (ERA).

This deliverable, i.e. D3.8, provides the open source code of the openETCS OBU, which has been developed in work package 3 “Modelling” of the project. Further information about the model respectively source code can be found in the following openETCS documents and deliverables:

- the corresponding SysML model (SCADE System), available at https://github.com/openETCS/modeling/tree/master/model/sysml/openETCS_EVC,
- the corresponding functional model (SCADE Suite), available at https://github.com/openETCS/modeling/tree/master/model/Scade/System/OBU_PreIntegrations/openETCS_EVC,
- the corresponding functional design description, i.e. D3.6.4, available at https://github.com/openETCS/modeling/blob/master/deliverables/D3.6.4.docx, and
- the documentation of the generic openETCS Application Programming Interface (API), available at https://github.com/openETCS/modeling/blob/master/openETCS%20ArchitectureAndDesign/D3.5.4%20_API/D3.5.4-API.pdf.

2 Link to the Open Source Code

The open source code generated from the model mentioned above is available via the projects “srcAndBinary” GitHub repositories, i.e. https://github.com/openETCS/srcAndBinary.