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openETCS

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Work Package 3: “Modeling”

openETCS Architecture and Design Specification

Software Component Design and Internal Interface Specification

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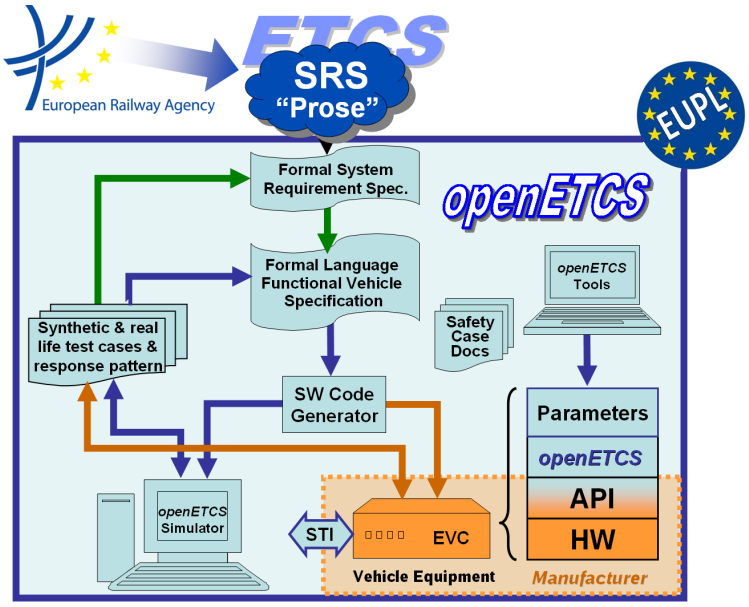
June 2015



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Document approbation

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Architecture and Design Specification

Prepared for openETCS@ITEA2 Project

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Abstract: This document describes the architecture and design specification of the openETCS onboard unit (OBU) model. The functional scope of the openETCS OBU model is to cover the functionality required for running on the ETCS level 2 Utrecht Amsterdam track. The OBU model is developed iteratively and the system model is documented in D3.5.x and the functional model is documented in D3.5.x, where x denotes the iteration.

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Modification History

Version	Sections	Modification / Description	Author	Date
1.0	all	Initial document	Peter Mahlmann	30.06.2015

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Important note on the documentation of this iteration of the openETCS OBU model

Please note that the architecture and design document of this iteration of the openETCS OBU model, i.e. D3.5.2 system model and D3.6.2 functional model, has been skipped. The reason for this is that after an initial review of the document it had been decided to completely restructure the architecture and design document to make it more appropriate for the needs of verification and validation needs. Due to this restructuring the documentation could not be finished before the next iteration (D3.5.3 system model and D3.6.3 functional model) was about to be completed. Thus, to not waste scarce resources it has been decided to focus on the documentation of D3.5.3 and D3.6.3 and we refer to these documents.

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