

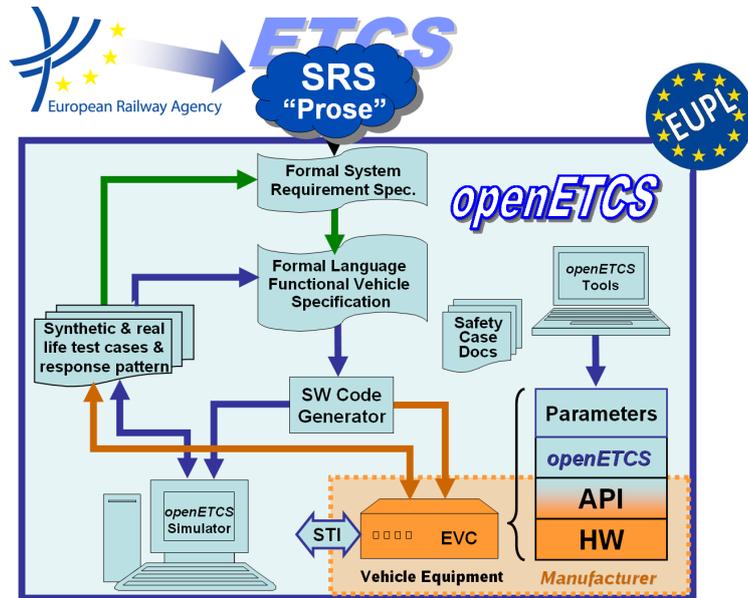
Work-Package 5: “Demonstrator”

M5.3: Report on test results

Result of scenarios use to test openETCS EVC

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November 2015



Funded by:



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OETCS/WP5/M5.3
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M5.3: Report on test results

Result of scenarios use to test openETCS EVC

Document approbation

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Description of work

Prepared for OpenETCS Project

Abstract: This document presents reports on test results.

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Modification History

Version	Section	Modification / Description	Author
0.1	All parts	First draft	Alexis Julin

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1 Introduction

Since the Open ETCS EVC is still under implementation in the demonstrator, the following chapters are describing the test results based on the EVC provided as Open Source Software by ERSA. The User Stories have been assembled to produce a scenario and have been done on the Utrecht – Amsterdam track.

2 Scenario 1 : Use case 1, 2, 3, 4



Figure 1. Graphical interpretation for scenario 1 result

This scenario is covering User Stories 1 to 4:

- User Story 1: As the End User (WP1) i want to see a demonstration of a start of Mission and RBC connection from WP 3.
- User Story 2: As the End User (WP1) i want to see a demonstration of a train is running on the Track after receiving a MA.
- User Story 3: As the End User (WP1) i want to see a demonstration of a ETCS brake intervention after revocation of a Movement Authority or not allowed speed.
- User Story 4: As the End User (WP1) i want to see a demonstration of reading of track information from the Euroradio or Eurobalise. Furthermore i want to see a demonstration of sending of information from the train to the track (Euroradio)

On this image we can see:

- at *point 1* : the train does a start of mission in level 2
- at *point 2* : the train receives a movement of Authority (MA) and going in Full Supervision mode
- at *point 3* : the train continues until it goes beyond the permitted speed and there is a brake intervention
- at *point 4* : the train receives a MA revocation (Conditional emergency stop)
- at *point 5* : All information come from the radio and balises.



Figure 2. Graphical interpretation for scenario 1 result

3 Scenario 2 : Use case 5, 6, 7, 8

This scenario is covering user stories from 5 to 8:

- User Story 5: Awakness of train with NTC.
<https://github.com/openETCS/modeling/blob/master/User%20Stories/User%20Story%205.pdf>
- SoM in Level NTC and Mode SN.
<https://github.com/openETCS/modeling/blob/master/User%20Stories/User%20Story%206.pdf>
- User Story 7: Running in Level NTC and Mode SN.
<https://github.com/openETCS/modeling/blob/master/User%20Stories/User%20Story%207.pdf>
- User Story 8: Change level NTC Mode SN to Level 2 Mode FS.
<https://github.com/openETCS/modeling/blob/master/User%20Stories/User%20Story%208.pdf>

On this image we can see:

- at *point 1* : goes from Stand By (SB) under level STM
- at *point 2* : goes in National System mode (NTC)
- at *point 3* : receives a RBC message to go on Level 2
- at *point 4* : switches in mode to Full Supervision (FS)

4 Scenario 3 : Use case 9, 10, 11, 12

WIP

5 Scenario 4 : Use case 13, 14

WIP

6 Scenario 5 : Use case 15

WIP