

INFORMATION TECHNOLOGY FOR EUROPEAN ADVANCEMENT





Workpackage 5 Demonstrator

supported by:











openETCS@ITEA2 Project WP5

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Paris, 03.07.2013

Main objectives



- > Provide a demonstrator to show the results of the project
- >Provide a test environment, test data and test results
- > Provide a non vital reference unit



WP5.1 Functional specification (1/2)



Set of API requirements (WP2.3)

Functional API – Prototype (WP3.2)

Set of requirements for the tools used (WP2.3)



WP5.1

Functional specification of Test Environment and interfaces with the EVC

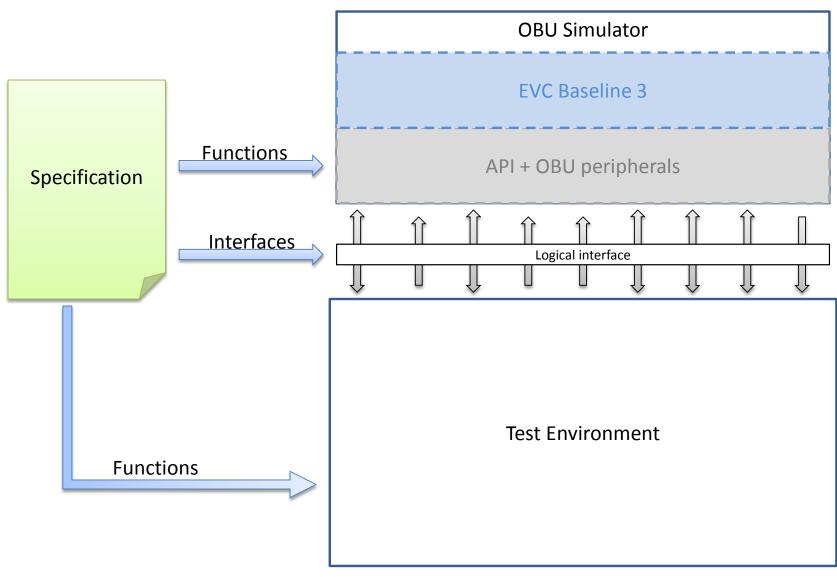


Functional specification



WP5.1 Functional specification (2/2)







WP5.2a Production of ETCS on board simulator (1/2)



Functional specification (WP5.1)



WP5.2a
Production of first version of ETCS on board based on ERSA code



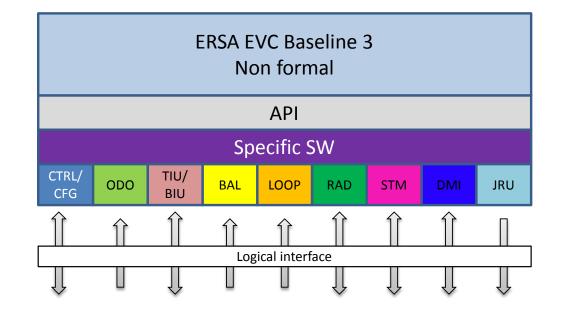
First iteration of OBU Simulator (EVC code from ERSA)

Related documentation



WP5.2a Production of ETCS on board simulator (2/2)







WP5.2b Production of ETCS on board simulator (1/4)



Functional specification (WP5.1)

System Architecture Model (WP3.3)

System API (WP3.3)

PiEM (WP3.4)

Functional API (WP3.2)

Code produced from formal methods (WP7)

WP5.2b

Production of second version of ETCS on board, integration of code produced from formal methods



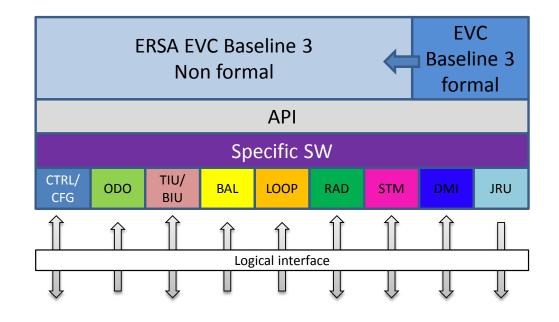
Second iteration of OBU Simulator (EVC code from WP3 and ERSA)

Related documentation



WP5.2b Production of ETCS on board simulator (2/4)

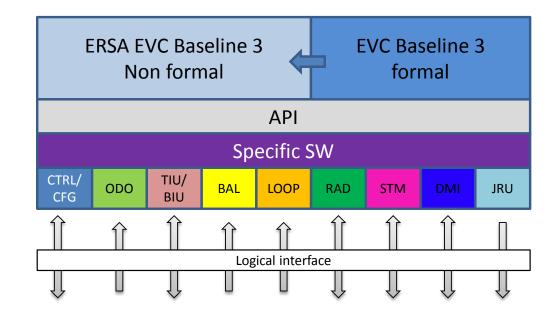






WP5.2b Production of ETCS on board simulator (3/4)

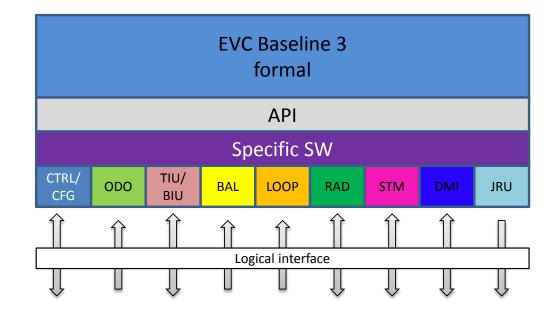






WP5.2b Production of ETCS on board simulator (4/4)







WP5.3 Production of Test environment (logical interfaces) (1/3)



Functional specification (WP5.1)



WP5.3
Creation of Test Environment SW with logical interfaces with the OBU simulator

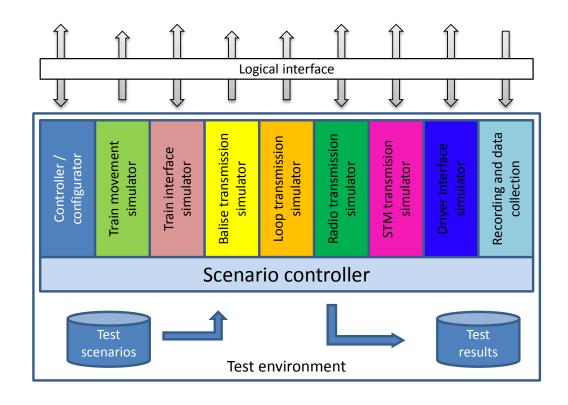


Test Environment (logical interfaces)



WP5.3 Production of Test environment (logical interfaces) (2/3)

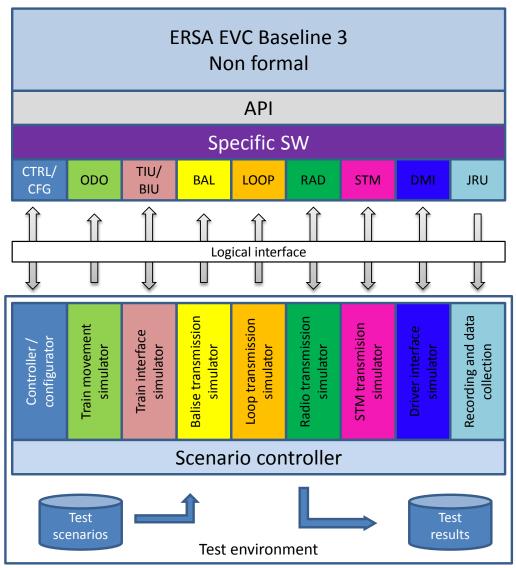






WP5.3 Production of Test environment (logical interfaces) (3/3)

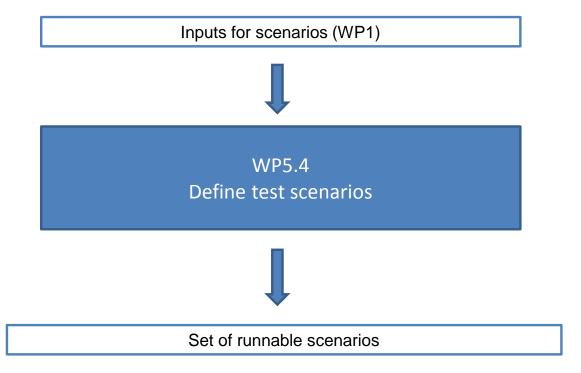






WP5.4 Data preparation (1/2)

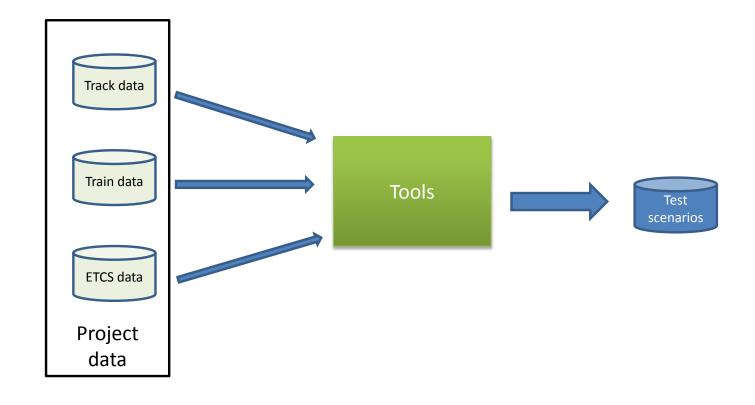






WP5.4 Data preparation (2/2)







WP5.5 Execution of scenarios (1/2)



Test scenarios (WP5.4)

Test Environment (logical interfaces) (WP5.3)

ETCS on board simulator (WP5.2)



WP5.5 Run test scenarios

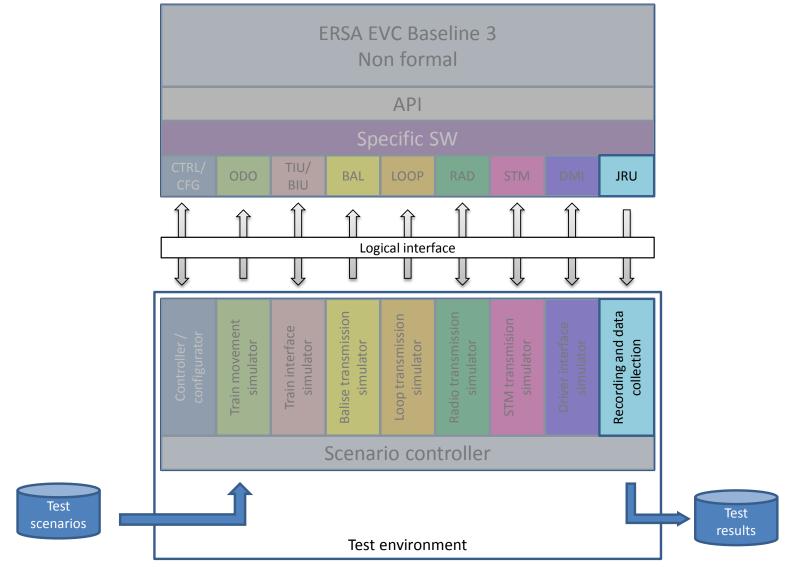


Test results



WP5.5 Execution of scenarios (2/2)







WP5.6 Data exploitation (1/2)



Test scenarios (WP5.4)

Test results (WP5.5)



WP5.6 Evaluation and analysis of results

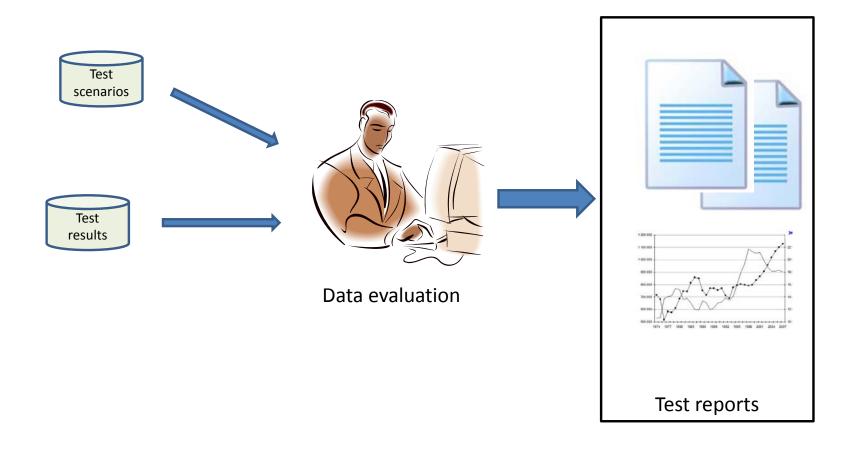


Test reports



WP5.6 Data exploitation (2/2)







WP5.7 Test environment with physical interfaces (1/2)







WP5.7 Customisation of Test Environment with physical interfaces

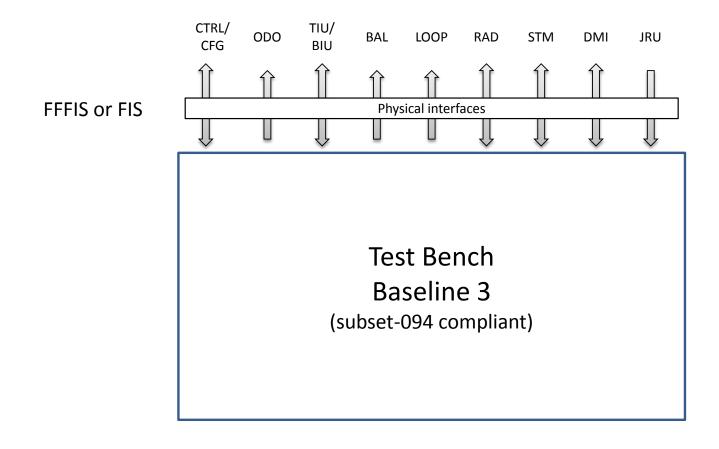


Test Environment (physical interfaces)



WP5.7 Test environment with physical interfaces (2/2)







WP5.8 Integration/ connection of Non vital Platform (1/2)



Documentation of Non Vital Platform (from GE)

Non Vital Platform with its development environment



WP5.8
Integration of OBU SW on Non Vital Platform

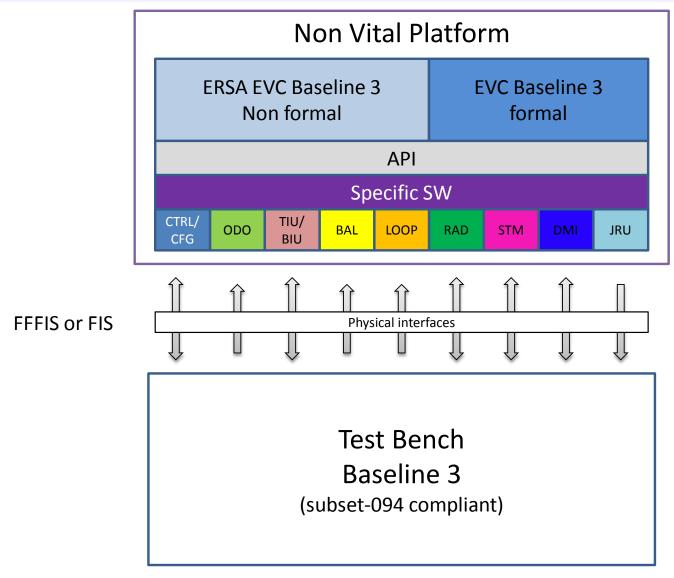


Non Vital Platform with OBU simulator SW



WP5.8 Integration/ connection of Non vital Platform (2/2)







WP5.9 Execution of industrial tests (1/2)



Test scenarios (WP5.4)

Test Environment (physical interfaces) (WP5.7)

Non Vital Platform with OBU simulator SW (WP5.8)



WP5.9 Run test scenarios

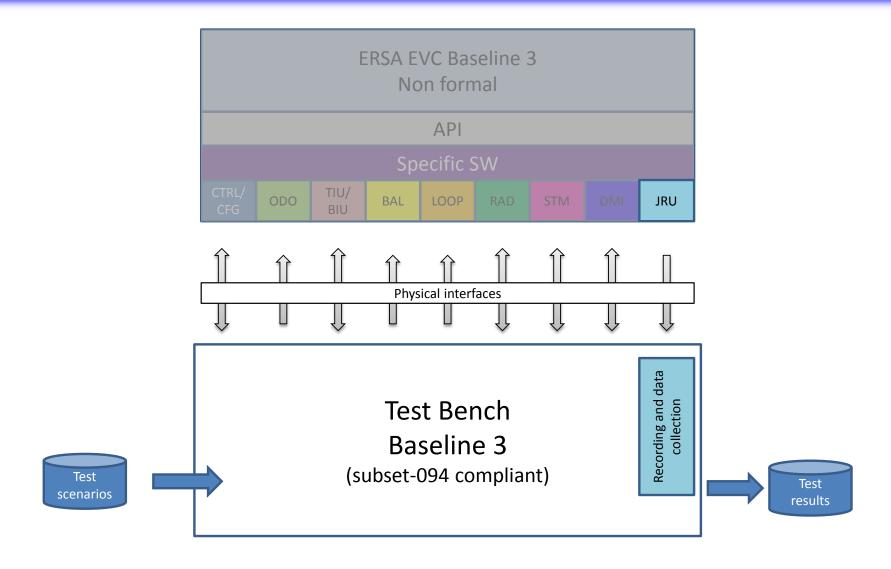


Test results



WP5.9 Execution of industrial tests (2/2)







Proposed planning



openETCS		2013											2014										2015		
	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6
WP5: Demonstrator																									
T5.1 Functional Specification			(•																					
T5.2A Production of ON BOARD simulator iteration 1																									
T5.2B Production of ON BOARD simulator iteration 2																									
T5.3 Production of Test Environment (logical interfaces)															<						Ĭ				
T5.4 Data preparation																ĺ									
T5.5 Execution of scenarios														Ĭ									(
T5.6 Exploitation of results																									
T5.7 Production of Test Environment with physical interfaces																									
T5.8 Integration/Connection of Non Vital Platform																									
T5.9 Execution of industrial tests																									

