





Internal Assessment Introduction and Preparation of Nuernberg

supported by:











Halfterm Project Review

Marc Behrens, Hardi Hungar

Munich, 14.01.2014

WP 4 Review Schedule



- 17:00 17:20 Introduction and overview of the first V&V Level (Marc Behrens and Hardi Hungar, DLR)
- 17:20 17:50 Results on Model V&V (Ana Cavalli, Institute Telecom)
 [Video contribution]
 - 17:50 18:00 Coffee Break
- 18:00 18:10 Results on Implementation / Code V&V (Jens Gerlach, Fraunhofer FOKUS)
- 18:10 18:30 Process and Safety (Jan Welte, TU BS)
- 18:30 18:40 Internal Assessment and Preparation of Workshop in Nuernberg (Hardi Hungar, DLR)
- 18:40 19:15 Overall Conclusions & Discussion of upcoming V&V activities (Marc Behrens, DLR)



Internal Assessment



- Each SIL-4 development is to be assessed externally
- The internal assessment is to establish that the openETCS approach is viable for SIL-4 developments
- No results due yet within the task T4.5 (Task leader All4Tec)
- The first workshop on ,Internal Assessment' is hosted by

Angewandte Eisenbahntechnik GmbH

Adam-Klein Straße 28

90429 Nürnberg

- Aim of the workshop:
 - Get official feedback on the current documents under review



Workshop Schedule



Day 1 (18-February-2014) @Aebt

13:00 - 13:15 Welcome - Norbert Schäfer *not confirmed* Introduction into safety activities inside openETCS

13:15 - 13:35 Safety Case (D4.3.1 - Safety inside openETCS) - Jan Welte, TU-BS

13:40 - 14:00 Internal Assessment – Toni Adriano /Frederique Vallee (All4Tec) *not confirmed*

14:00 - 14:30 openETCS complete process (Focus tbd)-(Marielle/ Bernd) - not confirmed

14:30 - 14:45 - Break

14:45 - 15:30 Keynote: Results of the first Internal assessment (Focus-Topic tbd) - Norbert Schäfer (AEbt) not confirmed

15:30 - 16:00 QA- Plan and quality assurance process (SQS) + Discussion *not confirmed*

16:00 - 16:30 First Results on SRS - Functional decomposition (Alstom - tbr) *not confirmed*

16:30 - 17:00 VnV Concept - Approach (DLR) + Discussion

- Time for check-in
- 19:00 Dinner, drinks and networking not confirmed

Day 2 (19-February-2014) @Aebt

09:00 - 09:45 openETCS complete process (Focus tbd)-(Marielle/ Bernd) *not confirmed*

09:45 - 10:30 Keynote: Results of the first Internal assessment (Focus-Topic tbd) - Frédérique Valée (All4Tec) *not confirmed*

■ 10:30 - 10:45 - Break

10:45 - 11:30 Feedback from Manufacuturer (tbd)+ Discussion not confirmed

11:30 - 12:15 Feedback from Operators (tbd)+ Discussion not confirmed

12:15 - 13:30 - Lunch Break

13:30 - 14:15 Feedback from ISA (tbd) + Discussion not confirmed 14:15 - 15:00 Feedback from DeBo (tbd) + Discussion not confirmed



Internal Assessment – Work done so far



Specification:

CENELEC Standard EN50128

Documents under Assessment:

- Project Quality Assurance Plan (LaTeX, SQS)
- Project Quality Assurance Plan Change/Problem Management Process (LaTeX, SQS)
- Project Quality Assurance Plan Presentation of the Revision and Review Processes
- Software Configuration Management Plan (LaTeX, ALSTOM)
- Project Quality Assurance Plan Documentation control Process ()

Result:

 38 issues raised by internal assessors (Norbert Schäfer, Frédérique Valée), response of author pending

Internal Assessment – Workshop preparation



Requested parties:

AEbt

All4Tec

ALSTOM

CERTIFIER

Deutsche Bahn

EBA

ERA

ERTMS-Users Group

General Electric

Mitsubishi Electric

National Autorities from Netherlands

openETCS Foundation (JOS, Klaus)

SIEMENS

SNCF

SQS

TÜV-Süd RAIL

Further Supplier or openETCS Safety Stakeholder

Few feedback until now:



- Official invitation by projectoffice could be helpful
- Personal invitations and identification of contact partners could help

