Minutes of Meeting

OpenETCS SSRS Kick off

UIC Paris 24th of april

Edited by Baseliyos Jacob

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**Document History**

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| **Version** | **Date** | **Editor** | **Modification** |
| V 0.0 | 14.05.2013 | B. Jacob | 1st Draft |
| V 0.1 | 16.05.2013 | B.Jacob,  KR. Hase | Rework, completing some statements,  Err. Correction |
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|  | Edited | Reviewed | Approved |
| Date |  |  |  |
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| Function | openETCS WP1-L DB Netz AG | Head of Project Management NS Reizigers | Projectleader openETCS DB Netz AG |



1. **Goals and subjects of the SSRS kick off meeting:**
   1. Presenting the goals, benefits and intention of an SSRS to   
      the participants of the Kick off meeting.
   2. Managing the efforts and performers of the SSRS
   3. Defining a schedule for organizing a SSRS working group with the ERTMS experts and reviewer.
2. **Participants**

As seen in the list of participants:



**Moderator:** Jos Holtzer (Manager NS Passenger)

Jan Welvaarts (Lloyds)

Patrick Deutsch (ERSA)

Eric Schellenberg (ERSA)

Marc Behrens (DLR)

Cyril Cornu (openETCS internal assesor - All4Tec)

Stepahan Callet (SNCF)

Guillaume Pottier (SNCF)

Martin Schröder (ERA)

Hans Bierlein (ERA)

Laura Arenas (EUG)

Sylvain Baro (SNCF)

Gilles Dalmas (SNCF)

Pierre – Francois Jauquet (Alstom Transport)

Bruno Jamdain (Alstom Transport)

Giovanni Zanelli (GE Transport)

Klaus Rüdiger Hase (DB Netz)

Ralf Pinger (Siemens)

Piero Petruccioli (UIC)

Baseliyos Jacob (DB Netz)

1. **Summary of context and SSRS expected result:**

Presented by Sylvain Baro (Syst. Engineer SNCF)



1. **FPP Schedule, milestones and allocated resources**

Presented by Baseliyos Jacob (Engineer DB)



1. **Introduction of the internal assessor for the openETCS project and the CENELEC compliance (All4Tec)**

- The traceability of the overall documents (requirements, Change requests, National Rules and National tracks, Functional Interface Specification, designer choices...) has to be precisely defined, and be consistent with the Quality Assurance Plan (work in progress).  
  
- The competencies of each person taking part in the SSRS composition has to be detailed and given. The individual responsible for the creation of the document has to identify the competencies needs for the SSRS redaction (needed competencies Matrix), then gather people's competencies for those planned for the SSRS creation (actual competencies matrix), then fill the training plan or provide the necessary skills to the team in order to fill the required competencies. This point is strongly related to the Quality Assessment Plan (work in progress).   
  
- The configuration management of the document that will have to be compliant with the Configuration Management Plan and the Quality Assurance Plan.

1. **Working session**

**6.1 Contribution and effort on the SSRS**

*Alstom:* We need system experts from the operators and manufactures.

Alstom has expressed their intention not to contribute if there is no commitment from the other manufactures on the table.

*NS:* Has initiated an ad-hoc round the table survey, asking all attendees about their commitment of working in the planned SSRS working group.

***Results:***

*UIC:* Is not a registered project openETCS@ITEA2 partner, but is sponsoring the openETCS project with facilities in the UIC, however UIC has no budget planned for a participation.

*DB:* Approved

*Alstom:* Approved

*SIEMENS:* Approved

*GE:* Approved

*SNCF:* Approved

*ERTMS Users Group:* Is not a registered project openETCS@ITEA2 partner and has no resources. But will have a meeting in May 2013. There will be the support or contribution discussed.

*ERA:*  Is not a registered project openETCS@ITEA2 partner and has no resources. But will help with documents and will help with document reviews*.*

*CEA:* Will contribute on modeling.

*DLR:* Approved

*All4Tec:* Internal assessor.

*Lloyds:* Will be clarified by NS.

* 1. **Oranization of the SSRS working Groups**

*NS:* is proposing to have a “Requirements and criteria working group” with all the

RU´s and IM´s from the openETCS consortium.

Furthermore a “ERTMS Expert team working group” will be responsible for the creation of the SSRS with all the ERTMS Experts from the openETCS consortium.

Mr. Gilles Dalmas (SNCF) was chosen as the leader for the “requirements and criteria working group”.

Mr. Giovanni Zanelli (GE Transportation) was asking by the industry partner to overtake the lead of the ERTMS experts group – must be considered by the management and will be responded by 26th of April.

Dr. Klaus-Rüdiger Hase (DB) has stated that he wants to avoid a deadlock situation in case that no one from the industrial or railway organizations is willing to accept the lead for the expert team creating the SSRS, he will make sure that DB will accept the leadership position and will provide resources for the SSRS expert team to work at the DB facility in Munich.

* 1. **How do we start to keep the timeschedule? From the scratch, SRS or another**

**document?**

*SNCF:* If we start from scratch, it takes 1 month to create the architecture of the SSRS. The aim for the preliminary version is only operate in nominal mode of 2 or 3 test tracks (VDE (Germany), Betuwe/Utrecht-Amsterdam (Netherlands), French track).

*Lloyds Register:* About what are we talking? Functional architecture of the unit or the kernel?

*SNCF:* Focus is on the Subset 26 and other relevant subsests.

* 1. **Action plan for the SSRS**
* Managing a ERTMS System Expert Group working task for the middle/end of may
* Managing a SSRS Requirement and Criteria group for the middle of may
* Preliminary version of the SSRS will be delivered **11/2013**
* Final version of the SSRS will be delivered **03/2014**

1. **DoW – Description of Work SSRS**

Presented by Jan Welvaarts (Syst. Engineer Lloyds Register)



Questions for the DoW from Lloyds Register’s presentation:

**7.1 Lloyds Register: Is “Design an architecture to structure the requirements assigned to the Kernel” a part of the workscope?**

*SNCF:* We are not fully clear of the boundaries. There must be a choice what is inside and outside of the kernel.

*NS:* Why do you want to have something in or out?

*SNCF:* Plattformindependence – we will not deal with different types of hardware. Having a kernel that address the different operator around the table – ERTMS will be considered as a toolbox. Example: DMI is a very important interface but we have to define a unified interface for the subsystem. Proposal: We have interfaces for the rest of the world – this will be a criteria. Next Step: to go in that interface and make functional breakdown to clarify interfaces – then we will have a basis that allows us to work on it.

*2 Principles:*

1st Plattformindependent

2nd National requirements – rules of the operation must been respected

***ERA:***  ERA has stated that Baseline 3 has included all previous change requests into the SRS itself, so there will be no designer choices and national rules, which will have an effect on Baseline 3 OBU design.

* 1. **Lloyds Register: “Rewrite the requirements using secondary source (f.e. operational requirements, Track layout analysis) for lifting errors and ambiguities.”**

*SNCF:* If the requirements are clear and no ambiguities we should leave them as they are.

*Lloyds:* Most requirements are not clear! (*See presentation of Lloyds – Arbitrary examples)*. Requirements should be clear and unambiguous – The methods should be defined by the working group.

* 1. **Lloyds Register: Do we need secondary sources?**

*SNCF:* the secondary sources are not needed if the SRS are clear. The interest is to check the SSRS against the secondary sources.

*Alstom:* A lot of events are not described in the SRS. They are not considered by the SS 26, but must be considered by the manufacturer. All the practical cases are not considered in the Subset 26 – for this case we need secondary sources.

1. **Open Questions**
2. What do “national requirements” mean in this B3 context (ERA)?
3. Seeking a leader for the SSRS working group. GE was asked to take over the lead.
4. If we have in the SSRS a number of requirements that are not included in the SRS! How do we handle this issue?
5. Must the SSRS respect the QA plan?
6. How do we handle the CR process, if there is an output from the openETCS project?
7. What is the role of “safety issues” or “safety properties” in the SSRS?
8. Is the SSRS inside the WP 2 or 3? Or is it a combination?

9. **Next Actions**

1. Seeking a leader for the SSRS Expert working group. GE was requested to lead the working group – Giovanni Zanelli (GE Transport) will clarify that within GE’s management.
2. Setting up a first SSRS Expert Group working task meeting for the 2nd half of May (by TBD: SSRS working group leader).
3. Setting up a SSRS Review group for the middle of May (by SNCF).