



PJ.17-01 Next Steps, Q&A and brainstorming

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Founding Members



Outline (30')



- TRL4 Validation results
- Next steps
- QoS/brainstorming

TRL4 Validation results (1/3)



- In the TVALP technical validation objectives have been grouped as follows:
 - Technical Validation Objectives concerning the PJ.17-01 technical use cases derived from the technical use cases defined in the TRL4 PJ.17-01 TS.
 - Technical Validation Objectives concerning the data link modes derived from the data link modes realization options described in the TRL4 PJ.17-01.
 - Technical Validation Objectives concerning the security controls derived from the security controls specified in the TRL4 PJ.17-01 TS.
 - Technical Validation Objectives concerning the NFRs derived from the NFRs specified in the TRL4 PJ.17-01 TS.
 - Technical validation objectives linked to technical architecture deployment options derived from the deployment options defined in the TRL4 PJ.17-01 TS.

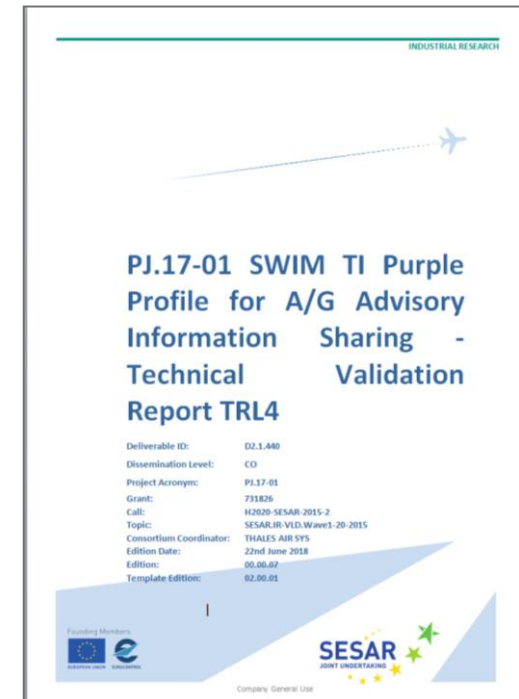
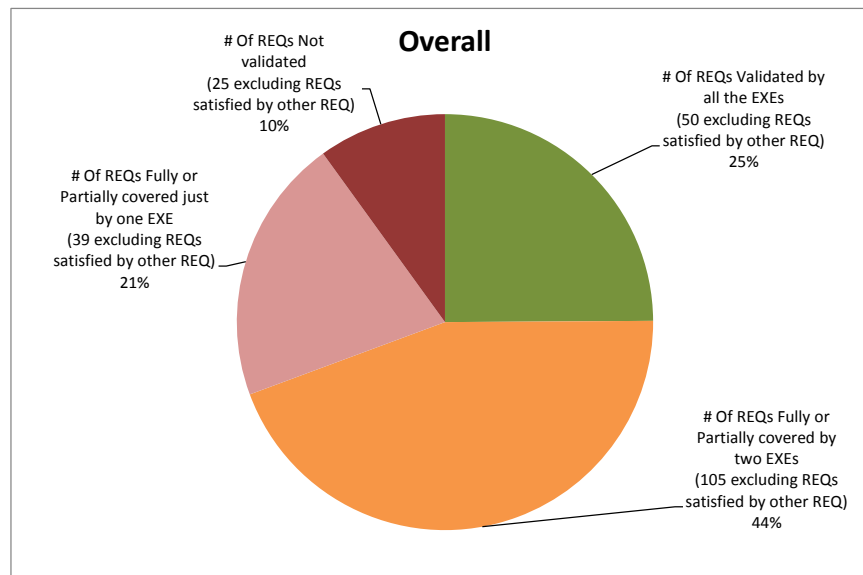
TRL4 Validation results (2/3)

- In the TVALR detailed results are provided per TOBJ and TOBJ group

Validation Objective Identifier	Validation Objective definition	Solution Level Validation View	EXE1 Coverage	EXE2 Coverage	EXE3 Coverage
OBJ-17.01-TRL4-TVALP-SMEP.0001	To validate TRL4 maturity of the architecture and requirements linked to the "Aircraft initiated Request/Response information exchange" use case (PPUC-01a).	Validated by at least one EXE	Fully Covered	Partially Covered	Partially Covered
OBJ-17.01-TRL4-TVALP-SMEP.0002	To validate TRL4 maturity of the architecture and requirements linked to the "Ground-based system provided Publish/Subscribe information exchange" use case (PPUC-02).	Validated by at least one EXE	Fully Covered	Partially Covered	Partially Covered
OBJ-17.01-TRL4-TVALP-SMEP.0003	To validate TRL4 maturity of the architecture and requirements linked to the "Ground-based system initiated Request/Response information exchange" use case (PPUC-03a).	Validated by a			
OBJ-17.01-TRL4-TVALP-SMEP.0004	To validate TRL4 maturity of the architecture and requirements linked to the "Aircraft provided Publish/Subscribe information exchange" use case (PPUC-04).	Validated by a	OBJ-17.01-TRL4-TVALP-SMEP.0001	Objective Identifier Success Criterion Validation results per validation objective Technical Validation Objective Status	
			OBJ-17.01-TRL4-TVALP-SMEP.0001 <The technical feasibility of the Purple Profile Technical Specification defined solution for the PPUC-01a use case has been validated by at least one technical validation exercise.>	The technical validation objective has been fully covered by EXE1 and partially covered by both EXE2 and EXE3. Taking into account the above, the overall coverage of traced requirements and feedback from prototyping and validation activities, the solution evaluated the related success criteria as (fully) covered.	
OBJ-17.01-TRL4-TVALP-SMEP.0006	To validate TRL4 maturity of the architecture and requirements linked to the "Aircraft initiated Request/Multi-Responses information exchange" use case (PPUC-01b).	Validated by a	OBJ-17.01-TRL4-TVALP-SMEP.0002	The technical validation objective has been fully covered by EXE1 and partially covered by both EXE2 and EXE3. Taking into account the above, the overall coverage of traced requirements and feedback from prototyping and validation activities, the solution evaluated the related success criteria as (fully) covered.	
			OBJ-17.01-TRL4-TVALP-SMEP.0003	The technical validation objective has been fully covered by EXE1 and partially covered by both EXE2 and EXE3. Taking into account the above, the overall coverage of traced requirements and feedback from prototyping and validation activities, the solution evaluated the related success criteria as (fully) covered.	
			OBJ-17.01-TRL4-TVALP-SMEP.0004	The technical validation objective has been fully covered by EXE1 and partially covered by both EXE2 and EXE3. Taking into account the above, the overall coverage of traced requirements and feedback from prototyping and validation activities, the solution evaluated the related success criteria as (fully) covered.	
			OBJ-17.01-TRL4-TVALP-SMEP.0006	The technical validation objective has been fully covered by EXE1 and not covered by both EXE2 and EXE3. Taking into account the above, the overall coverage of traced requirements and feedback from prototyping and validation activities, the solution evaluated the related success criteria as (fully) covered.	

TRL4 Validation results (3/3)

- Technical feasibility of the key elements concerning technical architecture, messaging capabilities, information exchange level security controls and interface requirements has been successfully validated at solution level.
- MEDIUM level of confidence in the validation results concerning some security controls (e.g. monitoring) and NFRs indicates the needs to further refine these aspects during next maturity phase.



Next steps



- In the TVALR detailed recommendations for next maturity phase have been provided:
 - Purple Profile TS completeness, usability and technical interoperability improvements (“what”, “how”, “how good”):
 - Technical interoperability needs assessment (when do we need to specify also the “how”),
 - Aircraft architecture & applicable regulations.
 - Quality of services,
 - Reliability,
 - Performance,
 - Reduce (when possible) technical options.
 - ...
 - Improve representativeness in terms of Purple Profile Enabled SWIM services and scenarios for next maturity phase TVALP.
 - More realistic Purple Profile Enabled SWIM services.
 - More realistic A/G network prototypes (e.g. AeroMACS, SATCOM, multilink, etc.).
 - Scenarios used to validate Purple Profile related prototypes should be more realistic in terms of workload (e.g. live data, number of aircraft, number of concurrent consumer, etc.).

Q&A / Brainstorming





PJ.17-01 Solution overview

Thank you very much
for your attention!



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