

ECSS Operability Standard and Generic OIRD

A. Accomazzo



ESA Review of ECSS E70-11 operability standard - Status



- All change requests consolidated
- Ca. 85-90% already implemented
- Work is now scheduled to be completed by November with final internal consolidation by the end of 2017

Please note that work done is not disruptive, the review is mainly seeking harmonisation with other standards and update in areas that emerged after previous issue (e.g. files)



Generic OIRD - Approach to PUS tailoring



- PUS-C module ported to DOORs and used as starting point, the following columns have been added:
 - Applicability: A (applicable) by default, N for NEW, M for Modified, D for Deleted
 - Modified or New requirement: proposed new requirement text when applicability is set to M or N
 - Justification: our goal is to provide a justification for all requirements where Applicability is different from A.
- The tailoring is done for Avionics-type subsystems. There is no intention at present to capture in the tailoring the specific needs of e.g. payloads.
- There is also no intention to express the tailoring in section 7 of the standard (packet structure); however, this should be clear from the tailoring of the functional requirements in the other sections.

PROPOSAL: it would be ideal if Industry could work in the future on a TMTC ICD (equivalent of section 7 of the standard) as an answer to the tailoring done by ESOC.

Generic OIRD - Status PUS tailoring



- Services available in DOORs
 - S2, 3, 4, 5, 8, 9, 11, 17, 19, 20, 22 and Critical Event Log
- Planning is to complete the tailoring in DOORS for the remaining services as follows:
 - in Oct: S14, 15, 21, back-up MTL
 - in Nov: S6, 12, 13, 18, 23
- Remaining at that point would be the general requirements and S1

Target is still to finish by end of 2017



Generic OIRD - Status of Functional & OBCP requirements



Functional/performance requirements

- Traceability to E70-11 C Operability Standard similar to the one done for PUS-C w/o DOORs module (later update to new issue should not be a major work)
- Discrepancies on scope of Generic OIRD resolved
- First round of comments successfully completed
- Finalization of remaining open points planned for early October
- Work expected to be ready by end of 2017

E70-01 OBCP

- lowest priority but work kicked-off
- This work is not expected to be completed by the end of 2017

