



ADS-B & ASA MASPS Requirements Proposal

Presented to WG6

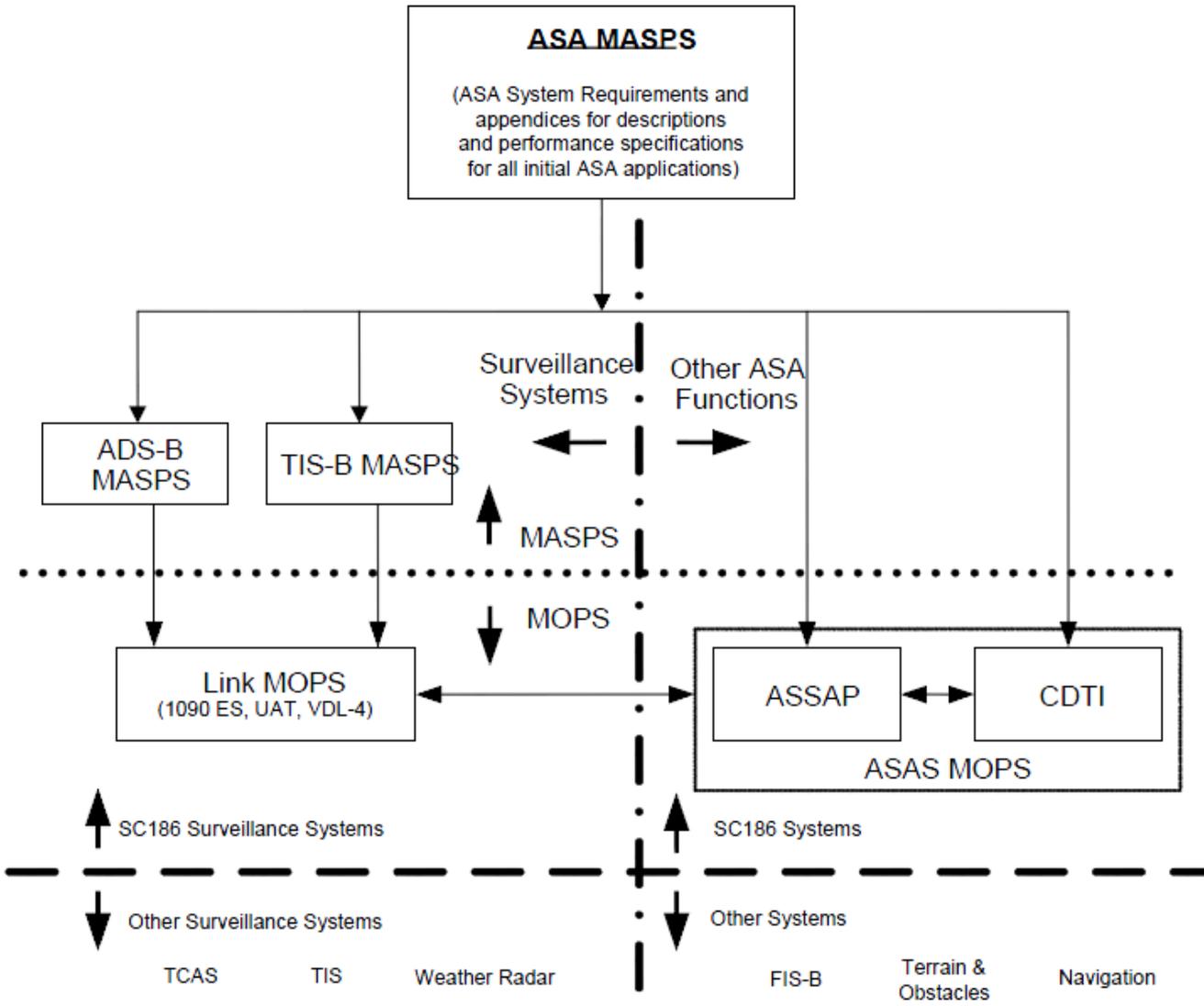
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Outline

- ❑ ADS-B Documents - Overview
- ❑ MOPS Traceability
- ❑ Proposed Combination of Requirements Sections
- ❑ Archiving Options

ADS-B Documents - Overview



MOPS Traceability

- **Revised MASPS must provide clear requirements traceability for both of the link MOPS and the ASAS MOPS without duplication of their requirements.**

MASPS Outlines

Sect	DO-242A	Sect.	DO-289
2	Operational Requirements	2	ASA System Reqmts
2.1	General Requirements	2.1	ASA Applications
2.2	System Performance	2.2	TQL / ACL
3	System Def/Funct Rqmts	2.3	ASA System Architecture
3.1	System Scope/Def of Terms	2.4	Requirements
3.2	System Description	3	Interface & Subsys Reqmts
3.3	System Requirements	3.1	ASA Transmit Subsystem
3.4	Message & Report Def	3.2	Data Link System Reqmts
3.5	Subsystem Reqmts	3.3	ASA Receive Systems
3.6	Functional Level Reqmts	3.4	External Subsystems
4	Verification Procedures		

Proposed Requirements Combination

Sect	DO-242A	Sect.	DO-289
2	Operational Requirements	2	ASA System Reqmts
2.1	General Requirements	2.1	ASA Applications
2.2	System Performance	2.2	TQL / ACL
3	System Def/Funct Reqmts	2.3	ASA System Architecture
3.1	System Scope/Def of Terms	2.4	Requirements
3.2	System Description	3	Interface & Subsys Reqmts
3.3	System Requirements	3.1	ASA Transmit Subsystem
3.4	Message & Report Def	3.2	Data Link System Reqmts
3.5	Subsystem Reqmts	3.3	ASA Receive Systems
3.6	Functional Level Reqmts	3.4	External Subsystems
4	Verification Procedures		

The diagram illustrates the mapping of requirements from DO-242A to DO-289. Blue circles highlight specific requirements in the DO-242A column, and blue arrows point to their corresponding requirements in the DO-289 column. The mappings are as follows:

- DO-242A 2.1 (General Requirements) maps to DO-289 2.1 (ASA Applications)
- DO-242A 2.2 (System Performance) maps to DO-289 2.2 (TQL / ACL)
- DO-242A 3.1 (System Scope/Def of Terms) maps to DO-289 2.4 (Requirements)
- DO-242A 3.2 (System Description) maps to DO-289 3 (Interface & Subsys Reqmts)
- DO-242A 3.3 (System Requirements) maps to DO-289 3.1 (ASA Transmit Subsystem)
- DO-242A 3.4 (Message & Report Def) maps to DO-289 3.2 (Data Link System Reqmts)
- DO-242A 3.5 (Subsystem Reqmts) maps to DO-289 3.3 (ASA Receive Systems)
- DO-242A 3.6 (Functional Level Reqmts) maps to DO-289 3.4 (External Subsystems)

Archiving Options

- **Need to preserve Appendices from both MASPS**
- **Also need to archive inactive reqmts such as TC / TC+1 – may be needed for future versions.**
- **Options**
 - Republish Appendix A thru XX in new DO-289A (~ 950 pages) or:
 - Have RTCA continue to provide DO-289 including Change 1, and DO-242A including Change 1 as active documents.