AEROSPACE FEDERATION

# AF-PR-9500-003

## Requirements and Interface Traceability

Space / Aviation / Defense

FIRST EDITION

AF 9500 SUPPORTING DOCUMENT

**Aerospace Federation**
af.org

# Document identity and use

FIRST EDITION MANUSCRIPT - Prepared for Aerospace Federation review

| Field | Controlled identity |
|---|---|
| Document | AF-PR-9500-003 - Requirements and Interface Traceability |
| Parent standard | AF 9500 - Aerospace Digital Systems, Software & Cybersecurity |
| Edition / language | FIRST EDITION / English master text |
| Family | Procedures |
| Primary source anchors | 7; Annex D |
| Suggested local owner | Procedure owner identified in execution table |
| Authority | Publisher approval and effective date are not assigned. Local use requires authorized adoption and completed parameters. |

## Use with the main standard

This document implements the identified AF 9500 clauses and annexes. Read the complete applicable requirements in the main standard. The source anchors are navigation references; a template does not replace technical judgement, evidence, permission or eligible approval.

AF-ML-9500-001 lists the complete supporting set. AF-CM-9500-001 maps the main clauses and annexes to working documents. AF-TP-9500-001 establishes the common local parameter baseline; add the relevant discipline profiles.

## Record control

Identify the object, configuration, record owner and dates. Reference attachments by stable identifier and version. Keep superseded evidence and decisions traceable. Use the approved local retention, access and authentication arrangements. No technical limit, numerical limit, interval or acceptance value is assigned by a blank template.

Implementation model: Translate the stated responsibilities and controls into the actual organization. Informative examples remain explanatory; use approved programme-specific values for operational decisions.

# 1 Purpose, trigger and inputs

Requirements, interfaces or dependent configurations are created or changed.

Required inputs: Authoritative needs, architecture, interface agreements, implementation and verification baselines.

Use the complete parent requirements at 7; Annex D. Assign an eligible owner to each step; retain the actual baseline and time of each significant action.

# 2 Controlled execution

| Step / responsible role | Required action | Retained output |
|---|---|---|
| 1 / Requirements owner | Define verifiable required and prohibited behavior. | Reviewed requirement baseline |
| 2 / Interface owners | Agree semantics, units, authority, freshness and failure responses. | Interface contract |
| 3 / Trace owner | Connect sources, implementation, evidence and deployed scope. | Bidirectional trace matrix |
| 4 / Reviewer | Resolve ambiguous, orphaned and unverified essential items. | Coverage and gap decision |

**Decision control:** Trace-row presence cannot establish passing verification or justify an unresolved essential requirement.

## 2.1 Exceptions and escalation

Preserve the observed condition, affected object, evidence and decision state. Refer a deviation or anomaly to its eligible technical authority. Record why a departure is acceptable, what remains blocked and whether readiness, qualification, acceptance or release must be reconsidered.

# 3 Closure and handoff

Complete accountable relationships and an honest disposition of every applicable item.

The receiving owner verifies the outputs. Open items retain an owner, due basis and blocked scope; a due date does not authorize closure.

## 3.1 Working records

AF-FR-9500-003, AF-RG-9500-002, AF-CL-9500-003. Consult AF-ML-9500-001 for titles and locations. Reopen affected steps when configuration, conditions, evidence validity or delegated authority changes. Verify the actual technical handoff during assurance review.