



AF-IG-9400-001

Implementation Guide

Space / Aviation / Defense

FIRST EDITION

AF 9400 SUPPORTING DOCUMENT

Document identity and use

FIRST EDITION MANUSCRIPT - Prepared for Aerospace Federation review

Field	Controlled identity
Document	AF-IG-9400-001 - Implementation Guide
Parent standard	AF 9400 - Aerospace Manufacturing, Materials & Supply Chain
Edition / language	FIRST EDITION / English master text
Family	Companions
Primary source anchors	0-36; Annexes A-T
Suggested local owner	Implementation lead
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 9400 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-9400-001 lists the complete supporting set. AF-CM-9400-001 maps the main clauses and annexes to working documents. AF-TP-9400-001 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 Keep superseded evidence and decisions traceable.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 process recipe, 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 Select an end-to-end pilot

Choose a representative aerospace product or material flow with actual sources, transformations and release needs. Define the scope, sites, retained duties and authorities. Use AF-FR-9400-001 and complete AF-TP-9400-001, including the full P01-P40 baseline. Select discipline profiles according to activities rather than organization labels.

1.1 Define the evidence route

Identify the authoritative product definition, configuration, material condition and acceptance basis. Map critical characteristics and their process/verification controls in AF-FR-9400-002. Assign owners to interfaces and blocked dependencies. Do not fill missing technical values with the synthetic numbers from the quantitative companion.

2 Establish trustworthy inputs

Approve exact supplier scopes with AF-FR-9400-004 and agree purchasing/subtier requirements with AF-FR-9400-005. Demonstrate receipt, authenticity assessment and material suitability. Keep physical receipt, stock availability and technical acceptance as distinct states.

2.1 Prove genealogy and stock controls

Use AF-FR-9400-009/010 for actual split, merge, issue, return and exposure events. Reconcile quantities and preserve original pedigree. Trace one output backward and one input forward. Challenge an expired or quarantined material issue and verify that the restriction remains effective.

3 Demonstrate production capability

Use the equipment, competence and process-qualification procedures. Define essential variables and show representative capability before routine release. Establish the actual software, tooling, material and people baseline. Complete a readiness gate with AF-FR-9400-003.

3.1 Execute and record

Capture actual run parameters and hidden-feature evidence using AF-FR-9400-014. Exercise a controlled nonhazardous interruption scenario. Demonstrate protective action, preserved evidence, population containment and eligible restart. Do not erase failed or invalid runs.

4 Verify and disposition the product

Use AF-FR-9400-015/016/018 to demonstrate inspection capability, justified sampling/monitoring and complete characteristic accountability. Apply approved decision rules to valid results. Keep FAIL, HOLD and approved N/A explicit and supported.

4.1 Test the exception route

Use AF-FR-9400-019/020 for a representative discrepancy. Preserve the original observation and distinguish rework, repair and concession. Verify the implemented action and any affected interfaces. A permitted departure remains a departure in the record.

5 Reconcile and release

Build the as-built dossier and use AF-FR-9400-024 to record the exact eligible release. Reconcile genealogy, traveler, inspection, nonconformity and stock states. Complete packaging and custody controls. Ensure that the declaration supports only the actual product, quantity and condition.

5.1 Exercise escape and change controls

Trace a hypothetical suspect input to every relevant output and recipient using AF-FR-9400-021. Assess a material source or software change using AF-FR-9400-022. Identify retained evidence, required new work and transition restrictions. Demonstrate the actual technical eligibility date for an alternate supply route.

6 Validate digital and record continuity

Use AF-FR-9400-017 and AF-WI-9400-012. Challenge wrong identity, units, missing results, duplicate events and prohibited transitions. Restore a representative package and verify relationships, quantities, configuration and decision states. Resolve defects before scaling the workflow.

6.1 Review implementation evidence

Use AF-CM-9400-001 to locate applicable requirements and the working records. Examine real end-to-end and adverse cases with the selected checklists. Record findings in AF-FR-9400-027 and verify effectiveness. Document completion alone does not demonstrate implementation.

7 Adopt and expand by demonstrated scope

Record local adoption in AF-FR-9400-028, including actual authority, controlled edition, profiles, methods, training and transition. Maintain AF-ML-9400-001 as the set index. Expand to further products, sites and sources when their necessary capabilities and interfaces are demonstrated.

Required evidence: The pilot establishes a complete requirement-material-process-evidence-release chain and shows that nonconformity, change, escape and recovery controls work for the actual scope.