



AF-HB-9600-002

Aerospace AI and Autonomy Integration Handbook

Space / Aviation / Defense

FIRST EDITION

AF 9600 SUPPORTING DOCUMENT

Document identity and use

FIRST EDITION MANUSCRIPT - Prepared for Aerospace Federation review

Field	Controlled identity
Document	AF-HB-9600-002 - Aerospace AI and Autonomy Integration Handbook
Parent standard	AF 9600 - Artificial Intelligence, Autonomous Systems & Interoperability
Edition / language	FIRST EDITION / English master text
Family	Manuals
Primary source anchors	30-32; Annex K
Suggested local owner	Aerospace integration owner
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 9600 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-9600-001 lists the complete supporting set. AF-CM-9600-001 maps the main clauses and annexes to working documents. AF-TP-9600-001 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 Keep superseded evidence and decisions traceable.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 Establish the complete aerospace function

Use AF-PR-9600-025 to identify the actual aviation, space, remote-mission or industrial task. Apply common domain, authority, data, model and interface requirements before selecting sector-specific evidence. Record the complete function and retained partner duties in AF-PR-9600-025.

1.1 Shared boundaries

Separate model performance from system behavior and operational permission. Confirm that fallback, human intervention and communication assumptions fit the actual environment. Use AF-PR-9600-024 for integrated nominal, adverse and recovery cases.

1.2 Configuration and evidence

Identify the exact aircraft installation, mission segment, robotic cell or ground workflow. Record sensors, models, data, peers, runtime and permissions. Evidence from a different configuration needs a supported applicability argument.

2 Aviation and air-ground applications

Use AF-TP-9600-015. Define phase-specific authority, crew or controller responsibilities, workload and response timing. Examine lost ground services, stale data, conflicting modes and update effectivity. A component release does not establish eligibility of every installation or operation.

2.1 Continuing observations

Track actual fleet state and critical operational populations. Assess new environments, human reliance and changed service providers. Preserve unconfirmed targets and separately required operating decisions.

3 Space and remote missions

Use AF-TP-9600-016. Define segment ownership, delayed-command validity, contact-loss behavior and autonomous limits. Verify recovery within actual power, storage, processing and communication resources.

3.1 State and long-duration support

Distinguish received packages from active, verified behavior. Include telemetry age and uncertainty in decisions. Mission extension requires review of degradation, environment, support and original assumptions.

4 Industrial, maintenance and ground services

Use AF-TP-9600-017. Define shared spaces, people, product effects, maintenance modes and task permissions. Evaluate sensor obstruction, changed lighting or fixtures and the different consequences of false acceptance and rejection.

4.1 Physical recovery and release

After interruption, reconcile work in progress, tooling, commands, item-linked records and earlier decisions. Use AF-PR-9600-028 for recovery and AF-PR-9600-029 for bounded release or continued use. A software reset does not restore the correct physical state automatically.

Required evidence: Context-specific integrated behavior, feasible protection, actual configuration and separately eligible operational decisions.