



AF-OM-9600-001

Autonomous Operations, Monitoring and Recovery Manual

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-OM-9600-001 - Autonomous Operations, Monitoring and Recovery Manual
Parent standard	AF 9600 - Artificial Intelligence, Autonomous Systems & Interoperability
Edition / language	FIRST EDITION / English master text
Family	Manuals
Primary source anchors	5-9, 19-22, 33-40; Annexes C, F-G, L-N
Suggested local owner	Autonomous operations 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 Keep superseded evidence and decisions traceable.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 Know the actual function and authority

Maintain AF-RG-9600-001 for functions and authority, AF-RG-9600-002 for operational domains and AF-RG-9600-011 for actual deployments. Use AF-WI-9600-001 to verify the active baseline, mode and permitted actions before consequential work.

1.1 Domain and protective readiness

Apply AF-PR-9600-002 and AF-WI-9600-006. Check observations, freshness, uncertainty and unsupported conditions. Confirm the runtime monitor and fallback remain valid within actual resources. Unknown domain membership invokes the approved protective rule.

1.2 Human and collective responsibility

Use AF-PR-9600-017 for human oversight and AF-PR-9600-016 for multi-agent duties. Verify staffing, intervention time, membership and ownership. A lost link or absent participant shall not create unassigned responsibility or expanded local authority.

2 Deploy and change with confirmed state

Use AF-PR-9600-026 for target readiness and controlled stages. Advisory or shadow results do not authorize active control. Confirm compatibility with actual peers and the complete model, data, permissions and runtime baseline.

2.1 Update evidence

Use AF-FR-9600-026 and AF-WI-9600-011 to distinguish transfer, installation, activation and confirmed behavior. Exercise interruption and rollback with persistent memory and transactions. Keep unreachable and failed targets visible instead of counting them as complete.

2.2 Operational monitoring

Use AF-PR-9600-027, AF-FR-9600-027 and AF-WI-9600-012. Monitor domain, outcomes, authority, interface quality and fallback demand. Preserve delayed outcomes, selective observation and missing sources in reports. A drift signal requires interpretation; a quiet dashboard is not proof.

3 Respond and reconcile

Use AF-PR-9600-028 and AF-RG-9600-012. Establish actual scope, consequences, uncertainty and protective authority before disruptive containment. Record the complete chronology with time uncertainty and preserve original observations.

3.1 Fallback and handover

Use AF-WI-9600-007 for control transfer. Confirm acceptance and actual ownership within the valid window. If transfer fails, use the predefined protective behavior. Check that fallback can be sustained rather than assuming its successful activation closes the incident.

3.2 Recovery and return

Use AF-WI-9600-013 and AF-SC-9600-006. Restore trusted artifacts and permissions, then reconcile learned memory, commands, transactions, physical work, partner state and earlier decisions. Demonstrate return conditions and obtain eligible authorization. Incident closure additionally requires cause and corrective-effectiveness evidence.

4 Preserve continued-use decisions

Use AF-PR-9600-029 for changed contexts, legacy gaps, support exit and retirement. Compensating controls must address the actual gap. Record restrictions in AF-RG-9600-013 and declarations in AF-RG-9600-014.

4.1 Handover and review

Shift and ownership handovers shall preserve active restrictions, unconfirmed targets and outstanding commitments. Use AF-PR-9600-030 for representative review and competence. Retire authority and preserve required evidence through AF-WI-9600-014.

Required evidence: Actual-state knowledge, feasible intervention, validated monitoring and reconciled recovery with accountable continuing decisions.