AEROSPACE FEDERATION

AF-PR-9300-009

Data Acquisition and Digital Evidence Control

Space / Aviation / Defense

FIRST EDITION

AF 9300 SUPPORTING DOCUMENT

Aerospace Federation
af.org

Document identity and use

FIRST EDITION MANUSCRIPT - Prepared for Aerospace Federation review

Field	Controlled identity
Document	AF-PR-9300-009 - Data Acquisition and Digital Evidence Control
Parent standard	AF 9300 - Aerospace Testing, Verification & Qualification
Edition / language	FIRST EDITION / English master text
Family	Procedures
Primary source anchors	12; Annex H
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 9300 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-9300-001 lists the complete supporting set. AF-CM-9300-001 maps the main clauses and annexes to working documents. AF-TP-9300-001 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 Keep superseded evidence and decisions traceable.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 test level, 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

A new acquisition setup, script, processing route or recovery.

Required inputs: Channel plan, signal characteristics, software, storage, timing and retention requirements.

Use the complete parent requirements at 12; Annex H. Assign an eligible owner to each step; retain the actual baseline and time of each material action.

2 Controlled execution

Step / responsible role	Required action	Retained output
1 / Data owner	Define raw data, metadata, timing, bandwidth and protected storage.	Data plan
2 / Acquisition engineer	Validate channels and end-to-end response including failure cases.	DAQ validation
3 / Operator	Capture native observations and contemporaneous event/configuration records.	Run data package
4 / Analyst	Preserve reproducible processing versions, parameters and exclusions.	Transformation history
5 / Independent reviewer	Verify identity, relationships and states after transfer or recovery.	Recovery acceptance

Decision control: Missing raw evidence, silent zero substitution, invalid channels or broken provenance blocks the affected decision use.

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 a new readiness, validity or qualification decision is required.

3 Closure and handoff

A complete protected evidence package with validated acquisition, processing and semantic recovery.

The receiving owner checks the completeness of the identified outputs and their relationship to the intended decision. Unresolved items retain an owner, due basis and blocked scope; a due date alone does not authorize closure.

3.1 Working records

AF-FR-9300-008, AF-RG-9300-008, AF-CL-9300-007. Consult AF-ML-9300-001 for titles and locations. Reopen affected steps when configuration, conditions, evidence validity or delegated authority changes. Verify the actual technical handoff during assurance review.