AEROSPACE FEDERATION

AF-PR-9600-019

Semantic, Spatial and Temporal Validation

Space / Aviation / Defense

FIRST EDITION

AF 9600 SUPPORTING DOCUMENT

Aerospace Federation
af.org

Document identity and use

FIRST EDITION MANUSCRIPT - Prepared for Aerospace Federation review

Field	Controlled identity
Document	AF-PR-9600-019 - Semantic, Spatial and Temporal Validation
Parent standard	AF 9600 - Artificial Intelligence, Autonomous Systems & Interoperability
Edition / language	FIRST EDITION / English master text
Family	Procedures
Primary source anchors	24; 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 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 Keep superseded evidence and decisions traceable.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 Purpose, trigger and inputs

Data meanings, units, frames, time conventions or adapters change.

Required inputs: Field dictionary, producer/consumer contracts and reference transforms.

Use the complete parent requirements at 24; Annex H. 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 / Semantic owner	Define types, meanings, units, validity and missing values.	Semantic dictionary
2 / Frame/time owner	Specify coordinates, transforms, clocks and freshness.	Spatial-temporal contract
3 / Evaluator	Test boundaries, losses, unknowns and plausible wrong meanings.	Semantic validation
4 / Interface authority	Approve exact conversions and consumer restrictions.	Semantic acceptance

Decision control: Parsing success cannot establish correct meaning, frame or data age.

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

Demonstrated shared meaning across the complete transformation chain.

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-9600-019, AF-RG-9600-007, AF-TP-9600-011, AF-CL-9600-018, AF-WI-9600-008, AF-TR-9600-001. Consult AF-ML-9600-001 for titles and locations. Reopen affected steps when configuration, conditions, evidence validity or delegated authority changes. Verify the actual technical handoff during assurance review.