# SAP Audit Protocol

Extended Layer

## 0. Purpose

Define the canonical procedure for auditing SAP execution, operator alignment, membrane integrity, sequencing correctness, and structural fidelity. Establish non-negotiable audit geometry without narrative, examples, or domain anchoring.

## 1. Audit Scope

Audits evaluate only structural compliance. No interpretive, contextual, or domain-specific content is permitted.

### 1.1 Structural Scope

- Primitive fidelity
- Specification alignment
- Notation correctness
- Gate sequencing integrity

### 1.2 Membrane Scope

- Boundary enforcement
- Contamination detection
- Exposure correctness
- Altitude gating

### 1.3 Operational Scope

- Gate execution
- Rhythm stability
- State transition recording
- Output integrity

### 1.4 Drift and Failure Scope

- Drift signature detection
- Correction protocol execution
- Residue elimination
- Non-recoverable state identification

### 1.5 Governance Scope

- Operator compliance
- Altitude discipline
- Membrane enforcement
- Specification primacy

## 2. Audit Preconditions

Audit may begin only when:

- Operator altitude is stable
- Membrane boundaries are intact
- No active drift signatures
- Specification is governing
- All artifacts 1–15 are available and unmodified

## 3. Audit Inputs

Only canonical materials may be used:

- SAP Specification
- SAP Glossary
- SAP Notation
- SAP Gate Tests
- SAP Membrane Rules
- SAP Operational Checklist
- SAP Failure Modes & Corrections
- SAP Drift Signatures
- SAP Layer Identification Guide
- SAP Case Skeletons
- SAP Training Protocol

No external frameworks or interpretive constructs are permitted.

# 4. Audit Structure

Audits follow a fixed, non-modifiable sequence.

## 4.1 Initialization Phase

- Re-assert altitude baseline
- Re-affirm membrane boundaries
- Identify active layer
- Remove interpretive residue

## 4.2 Structural Verification Phase

- Validate primitive fidelity
- Validate notation correctness
- Validate Specification alignment
- Validate invariance preservation

## 4.3 Sequencing Verification Phase

- Validate gate order
- Validate transition rhythm
- Validate state recording
- Validate absence of sequencing drift

## 4.4 Membrane Verification Phase

- Validate boundary crispness
- Validate contamination resistance
- Validate exposure correctness
- Validate altitude gating

## 4.5 Drift and Failure Verification Phase

- Validate drift detection
- Validate correction protocol execution
- Validate absence of drift residue

- Validate non-recoverable state handling

### 4.6 Governance Verification Phase

- Validate operator compliance
- Validate membrane enforcement
- Validate altitude discipline
- Validate Specification primacy

# 5. Audit Procedures

Each phase uses the following canonical procedures:

### 5.1 Inspection Procedure

- Examine structural forms
- Compare against Specification
- Identify deviations without interpretation

### 5.2 Classification Procedure

- Assign deviations to canonical categories
- Reject mixed or ambiguous classifications
- Record using SAP Notation

### 5.3 Correction Procedure

- Apply freeze → isolation → reversion → purification → reintegration
- Restore canonical state
- Re-verify corrected segment

### 5.4 Confirmation Procedure

- Confirm structural isomorphism
- Confirm membrane integrity
- Confirm sequencing stability
- Confirm altitude stability

# 6. Audit Failure Conditions

Audit fails if any of the following occur:

- Primitive distortion
- Notation drift
- Specification contradiction
- Membrane inversion
- Sequencing corruption
- Multi-layer drift
- Operator altitude collapse
- Uncorrected drift residue

Failure requires full reset to Initialization.

# 7. Audit Completion Conditions

Audit is complete only when:

- All phases executed without drift
- All deviations corrected
- Membrane boundaries remain intact
- Sequencing remains canonical
- Structural fidelity preserved
- Operator alignment verified
- No correction protocols required in final pass

# 8. Post-Audit Stabilization

After completion:

- Re-enter stillness cycle
- Re-assert Specification primacy
- Re-establish altitude baseline
- Prepare for meta-governance evaluation