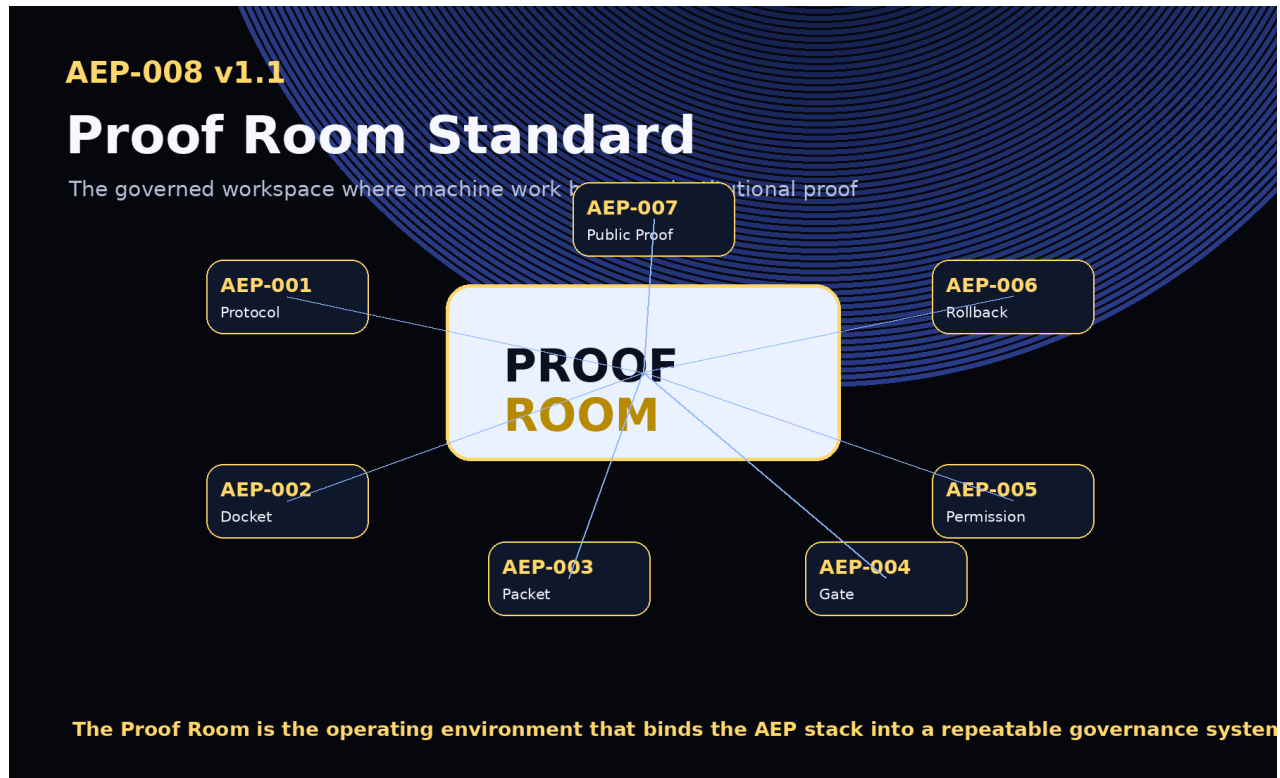


AEP-008

Proof Room Standard

Governed workspaces for institutional machine-work proof

Version 1.1 Institutional Edition · Proof Gradient / Agent Evolution Protocol



AEP-001 defines the protocol. AEP-002 defines the docket. AEP-003 defines the packet. AEP-004 defines the gate. AEP-005 defines the permission. AEP-006 defines recovery proof. AEP-007 defines public proof. AEP-008 defines the room.

1. Abstract

AEP-008 defines the Proof Room: the governed workspace where machine work becomes institutional proof. A Proof Room binds commitments, runs, ProofPackets, Evidence Dockets, Selection Gate decisions, Tool Permission records, Rollback Receipts, and Public-Safe Proof Reports into one controlled room with roles, scope, boundaries, review, approvals, publication rules, audit export, and closure.

2. Canonical Law

No room without charter.

No run without scope.

No evidence without boundary.

No promotion without gate.

No tool without permission.

No release without rollback.

No public proof without redaction.

No closure without archive.

No proof, no evolution.

3. Relationship to the AEP Stack

Standard	Role
AEP-001	Protocol
AEP-002	Evidence Docket
AEP-003	ProofPacket
AEP-004	Selection Gate
AEP-005	Tool Permission
AEP-006	Rollback Receipt
AEP-007	Public-Safe Proof Report
AEP-008	Proof Room

4. Proof Room Modes

Mode	Purpose
sandbox	Low-risk learning, demonstration, experimentation.
team	Shared team workflow improvement.
institutional	Enterprise, regulated, audit-ready governance.
public_safe	External proof report preparation and approval.
incident	Recovery, rollback, quarantine, compensation.
sovereign	Public-sector, national, jurisdictional, or protected use.

5. Lifecycle

Proof Room Lifecycle

Open -> operate -> decide -> publish -> learn -> close



A Proof Room does not just store proof. It operates proof as a lifecycle.

A Proof Room operates proof as a lifecycle: charter, scope, roles, bounded work, evidence, selection, recovery, public-safe reporting, audit export, closure, and archive.

6. Roles and Separation of Duties



A high-risk room must not allow the same actor to execute a candidate, approve its promotion, publish the public report, and audit their own decision.

7. Core Objects

Object	Purpose
Manifest	Identifies room, mode, owner, jurisdiction, purpose, status, boundary, and charter.
Charter	Defines mission, criteria, scope, agents, tools, data, evals, gate, rollback, publication, closure.
Scope Boundary	Defines tenant, user, agent, tool, data, environment, jurisdiction, time, budget, publication scope.
Role Registry	Assigns roles and records separation-of-duties requirements.
Evidence Boundary	Defines public/private/protected evidence, retention, access, and publication rules.
Work Item Registry	Tracks governed work items and references runs, dockets, gates, rollbacks, reports.
Registers	Track artifacts, permissions, dockets, packets, gates, rollback, and reports.
Decision Log	Records decisions, approvers, evidence, claim boundaries, supersession, and status.
Audit Export	Exports room evidence for review.
Closure Report	Records what was proved, published, private, unresolved, and archived.

8. Operating Modes and Boundaries

Proof Room Operating Modes

Controls increase as risk and public impact increase

SANDBOX

learning / demo
low controls

TEAM

internal workflow
shared evidence

INSTITUTIONAL

enterprise / regulated
approval + audit

PUBLIC-SAFE

external report
redaction + publication

INCIDENT

recovery room
rollback + review

SOVEREIGN

public institution
jurisdiction + protected boundary

A Proof Room may be lightweight, but its boundaries must be explicit.

9. Invariants

- No Proof Room without a charter.
- No room without scope boundary.
- No high-risk room without separation of duties.
- No evidence without classification.
- No run without commitment reference.
- No promotion without Selection Gate reference.
- No release without rollback reference.
- No public report without redaction review.
- No closure without audit export or archive reference.
- Under uncertainty, reduce scope or escalate review.

10. Conformance Levels

Level	Requirement
Level 0	Informal Proof Room.
Level 1	Basic room with manifest, charter, scope, roles, boundary, work item registry.
Level 2	Operational room with docket, packet, permission, and decision registers.
Level 3	Institutional room with gates, rollback, public reports, separation of duties, audit, closure.
Level 4	Regulated room with protected boundary, retention, jurisdiction, approvers, independent review.
Level 5	Sovereign room with sovereign jurisdiction, protected controls, public-institution roles, policy traceability, archive requirements.

11. Claim Boundary

AEP-008 does not claim achieved AGI, achieved ASI, perfect safety, legal compliance certification, financial or legal advice, guaranteed ROI, production readiness, government endorsement, or national-security readiness. AEP-008 defines an operating standard for Proof Rooms.

GoalOS turns machine work into governed, reviewable, recoverable, and public-safe institutional proof.