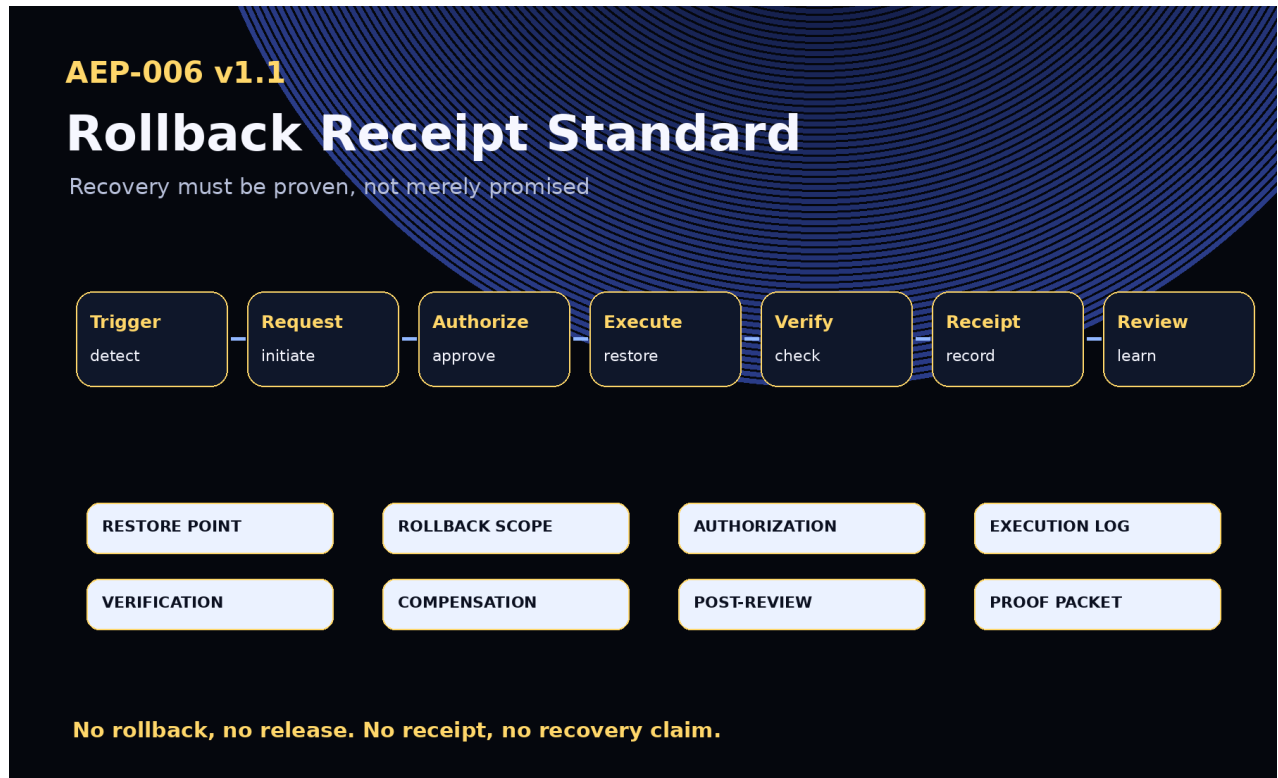


AEP-006

Rollback Receipt Standard

Recovery must be proven, not merely promised

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 the recovery proof.

1. Abstract

AEP-006 defines the Rollback Receipt Standard: the proof standard for recovery, restoration, reversal, compensation, freeze, quarantine, post-rollback verification, and post-incident review after machine work fails, violates policy, exceeds scope, causes side effects, degrades quality, or requires controlled reversion.

A rollback is not complete because someone says it is complete. A rollback is complete only when recovery is executed, verified, and recorded.

2. Canonical Law

No rollback, no release.

No receipt, no recovery claim.

No restore point, no promotion.

No compensation path, no irreversible action.

No post-rollback verification, no closure.

No proof, no evolution.

3. Required Objects

Object	Purpose
Rollback Trigger	Records the signal that initiated recovery.
Rollback Plan	Defines the target, owner, steps, verification, and compensation path.
Rollback Request	Initiates rollback.
Rollback Authorization	Records approval.
Rollback Receipt	Records execution.
Rollback Verification	Proves recovery succeeded or failed.
Compensation Receipt	Records remediation when rollback is impossible or insufficient.
Post-Rollback Review	Turns failure into reusable knowledge.
Recovery Bundle	Aggregates recovery proof objects.

Rollback Receipt Object Model

The proof object for recovery, restoration, compensation, and review

Rollback Trigger

policy violation, eval failure, incident, drift, unsafe output, failed canary

Rollback Request

who initiated, why, candidate, baseline, target, scope

Rollback Authorization

who approved, emergency class, evidence, risk acceptance

Rollback Execution

steps, timestamps, owners, affected artifacts, status

Verification

tests, evals, monitoring, customer/user notice, residual risk

Receipt

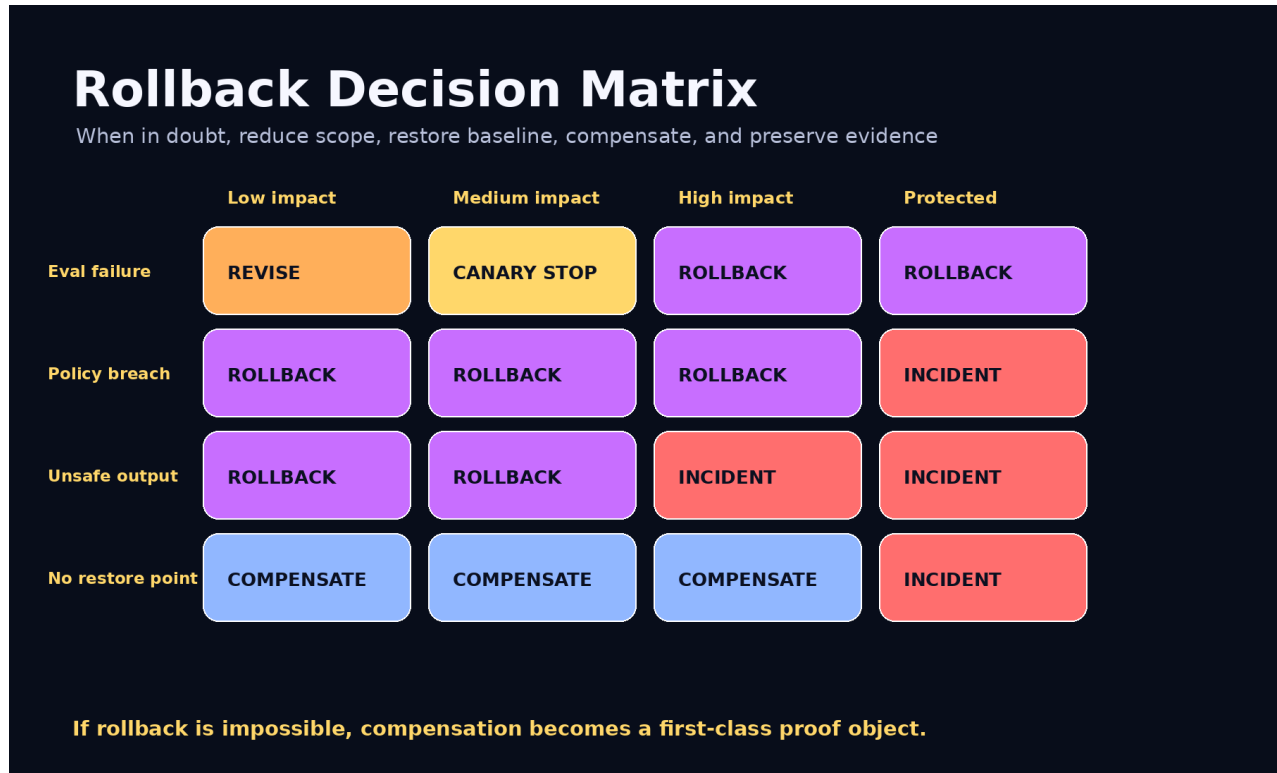
claim boundary, evidence refs, ProofPackets, hash, signature, review

Rollback is not complete until recovery is verified and recorded.

4. Status Values and Action Types

- Status: not_required, ready, requested, authorized, in_progress, completed, verified, partial, failed, compensation_required, compensated, quarantined, archived.
- Actions: restore_baseline, revert_artifact, revert_workflow, revoke_permission, stop_canary, freeze_rollout, quarantine, disable_agent, disable_tool, revert_deployment, undo_transaction, send_correction, compensate, escalate_incident, manual_review.

5. Decision Matrix



Rollback Decision Matrix

When in doubt, reduce scope, restore baseline, compensate, and preserve evidence

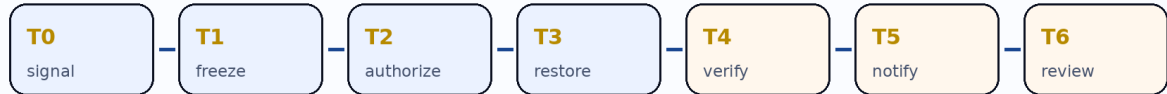
	Low impact	Medium impact	High impact	Protected
Eval failure	REVISE	CANARY STOP	ROLLBACK	ROLLBACK
Policy breach	ROLLBACK	ROLLBACK	ROLLBACK	INCIDENT
Unsafe output	ROLLBACK	ROLLBACK	INCIDENT	INCIDENT
No restore point	COMPENSATE	COMPENSATE	COMPENSATE	INCIDENT

If rollback is impossible, compensation becomes a first-class proof object.

6. Recovery Timeline

Recovery Timeline

From failure signal to verified restoration



Invariant: release requires a known recovery path before release.

After failure, restoration claims require verification evidence.

7. Required Release Invariant

- Rollback target
- Rollback plan
- Rollback owner
- Rollback trigger
- Verification plan
- Compensation path if rollback is impossible
- Evidence Docket or release proof
- Selection Certificate or equivalent release authority

8. Conformance Levels

Level	Requirement
Level 0	Informal rollback note.
Level 1	Rollback plan exists.
Level 2	Rollback execution receipt exists.
Level 3	Rollback verification exists.
Level 4	Institutional rollback with authorization, evidence, ProofPackets, Selection Certificate refs, tool receipts, compensation path, public/private boundary, and post-rollback review.
Level 5	Sovereign / regulated rollback with jurisdiction, retention, protected-boundary classification, authorized approvers, public-safe controls, affected-public notice rules, post-incident review, and audit export.

9. Claim Boundary

AEP-006 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-006 defines a recovery proof standard.

GoalOS releases only what can recover, and proves when recovery happens.