

Decision Evidence Lab

Evaluator guide for the public HMOS-PUBLIC-LAB-1 synthetic demonstration

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CORE PROPOSITION

Consequential systems should not be trusted because they are intelligent. They should be governable because their authority is bounded and their consequential actions leave evidence that can survive independent challenge.

HACKETT META OS LLC

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WHAT THIS DEMONSTRATION IS

The Decision Evidence Lab is a bounded, client-side demonstration of evidence construction, replay, mutation detection, and refusal. It runs entirely in the browser using a synthetic consequential-decision scenario. **It is designed to be attacked, not admired.**

THE SCENARIO

A decision occurs under degraded communications. A bounded release is requested for one targeting-data object. A secondary sensor input is unavailable, a policy exception is invoked, and a human operator authorizes a constrained action. The node later reconnects. The evidence must survive challenge, including omission, alteration, and impersonation.

WHAT TO DO

1. Open the Decision Evidence Lab from hackettmetaos.com.
2. Replay the unmodified synthetic record and inspect each receipt.
3. Expand the authority, policy, observation, omission, and action evidence.
4. Apply each available attack: alter a receipt, remove the omission evidence, and substitute an identity.
5. Re-run verification and inspect the exact invariant that fails.

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6. Reset the scenario and compare the intact and attacked outcomes.

WHAT A CREDIBLE RESULT LOOKS LIKE

Test	Expected result	What it does not prove
Baseline replay	Declared chain and configured checks verify.	That the operational decision was correct.
Receipt mutation	Digest or continuity failure is identified.	That every possible mutation is detectable.
Omission removal	Expected evidence no longer supports an intact claim.	Cause or blame for the original absence.
Identity substitution	Binding or signature-related invariant fails.	Real-world identity proofing.
Bounded refusal	Modified record is not presented as intact.	Production authorization or certification.

EVALUATOR QUESTIONS

- Which exact artifact changed?
- Which invariant detected the change?
- Was the expectation for missing evidence registered before the omission?
- Did any cryptographically valid artifact gain authority it did not possess?
- Can the original record remain visible after amendment or repair?
- Does the interface state the boundary of what was and was not established?

WHAT THE DEMO PROVES

Within HMOS-PUBLIC-LAB-1, the browser can construct and replay the declared synthetic evidence, expose receipt-level details, apply predefined attacks, and distinguish an intact record from one that violates configured invariants.

WHAT THE DEMO DOES NOT PROVE

- Operational safety, mission suitability, regulatory compliance, or certification.
- Security of every implementation component or cryptographic use.

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- Correctness or completeness of the underlying synthetic decision.
- Integration performance in a representative operational environment.
- Resistance to attacks outside the declared public lab profile.

RECOMMENDED NEXT EVALUATION

A serious follow-on should define a mission-specific synthetic or surrogate case, freeze the claim boundary, identify attack lanes and success criteria, run the case outside the developer environment, and publish both passing evidence and unresolved findings.

LAUNCH POINT

Use the public demo at hackettmetaos.com/lab.html and the bounded verifier at hackettmetaos.com/verify.html.

DECLARED MATURITY BOUNDARY

Working local reference implementation. Not independently audited, certified, accredited, highly available, cloud-operated, fielded, or production-authorized. Domain integration and operational use require separate evaluation against the actual mission, safety, security, and regulatory boundary.

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*When systems shape reality,
the record must survive the systems.*

BOUNDED · VERIFIABLE · INDEPENDENT · ACCOUNTABLE

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