

# Certificate of Action: A Trust Primitive for Verifiable Autonomous Legal AI Agent Workflows

Autonomous agents act. The proof of what they did doesn't exist yet — [this is that proof](#).

## Your AI reviewed the contract, but you can't cross-examine a log.

Delegating the task to an agent doesn't delegate the duty. When the decision is challenged, a mutable log and your word are assertion, not proof. The Certificate of Action turns the run into evidence — sealed when it happens.

### WHAT THE CERTIFICATE CAPTURES — FOUR LAYERS

#### Decision chain

What each agent did, the model + version, and the policy it operated under.

#### Consensus

Multi-agent review across independent reasoning passes — agreement rate and dissent.

#### Human review

Who reviewed, when, and on what basis — or that no one did.

#### Execution

The output, sealed to the decision that produced it.

#### Scope & standards

It uses the same legal foundations courts already accept for electronic records (eIDAS, FRE 902). EU AI Act record-keeping for high-risk systems takes effect Dec 2, 2027.

#### An Agentic Governance Standard

What should a record be required to make verifiable? Four criteria: (1) sequence integrity, (2) operating policy version, (3) human review at gates, (4) proof of when and who, strong enough to stand up as evidence.

### Open Questions

#### › Completeness, not just integrity.

Tamper-evidence protects what was sealed — it says nothing about what was never sealed. For workflows one party runs unsupervised, what stops them sealing only the favorable run?

#### › Privilege-preserving abstraction.

How much reasoning to record without exposing protected analysis. Record too little and the audit loses value; too much and privilege is at risk.

### 🔒 THE CRYPTOGRAPHIC SEAL — NO NEW PRIMITIVES

SHA-256 hash chain

x. 509 PKI identity

RFC 3161 trusted timestamp

RFC 6962 verifiable log (Certificate Transparency)

Modify any entry and every downstream hash breaks. Only the root hash is public — a third party can confirm a record was sealed, when, and by whom without ever seeing its contents, and verify it is unaltered once the record is produced — all without the platform's cooperation.



Live app  
proof-of-execution.replit.app



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