LexiPro Forensic OS **STATUS: INTEGRATION-READY PROTOTYPE (DEMONSTRATED) (v1.3.0)**

Integration Architecture & Liability Containment

This document describes a code-level enforcement substrate intended for integration into existing GenAI systems.
~~Delivered as a modular server substrate + client citation-teleport component; designed to drop into existing RAG stacks.~~

1. Deterministic Grounding & Enforcement Engine

Unlike standard RAG, LexiPro enforces a deterministic verification loop at the API level.
- Vector Retrieval: High-fidelity embedding model (swappable).
- Verification pass: cross-checks generated claims against retrieved source spans prior to release.
- Enforcement Gate: If logic fails, the API throws 422 Unprocessable Entity.
  We strictly prefer silence over hallucination.

2. Cryptographic Deletion ("Aggressive Amnesia")

Eliminating long-tail liability via cryptographic deletion (AES-256-GCM).
- Data at Rest: All workspace data is encrypted with a unique ephemeral key.
- Deletion = Destruction: Deleting a case shreds the key.
- Result: Data becomes unrecoverable under the defined threat model.

3. Immutable Chain of Custody

A hash-chained audit ledger for evidence integrity.
- Hashing: Every action is SHA-256 hashed and linked to the previous event.
- Tamper Detection: Database modifications break the chain instantly.
- Verification: Exportable ledgers allow offline verification by opposing counsel.

Includes: repeatable proof-run artifacts, audit-linked proof packets, and license/SBOM inventory.

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