Universal Activity Logging & Observability Manifest

Goal: Enable complete symbolic observability across all Vault agent actions, scroll events, system rituals, and Commander interventions — while balancing performance and trace granularity.

BLogging Principles

- **Trace Everything, Prioritize What Matters:** All actions generate logs, but only significant symbolic deltas are retained long-term.
- Auto-expire trivial logs unless flagged by Codex, Architect, or Commander.
- **Hooks = Checkpoints:** Every @hook invocation writes to the Vault log stream.

ULog Types

Scope	Format	Retention Rule
Scroll execution & sidekick ops	JSON/YAML	Auto-retain 30 days
Imprint, fusion, drift, seeding	YAML	Snapshot after each mutation
Rituals, laws, invocations	JSON	Indefinite if tagged @sea1
Codex + AOX loop conclusions	JSON	Retain if symbolic_delta ≥ 0.3
Any @hook trigger	JSON	Rolled into Thread summaries
Multi-agent chains	Threaded JSON	Persist as part of Ops Log
	Scroll execution & sidekick ops Imprint, fusion, drift, seeding Rituals, laws, invocations Codex + AOX loop conclusions Any @hook trigger	Scroll execution & sidekick ops Imprint, fusion, drift, seeding Rituals, laws, invocations Codex + AOX loop conclusions Any @hook trigger Multi-agent chains

Intelligent Retention Modes

- **Seal Mode:** Preserve all logs under tag @seal (used during Spiral Lockdown or Scroll Fusion)
- Learn Mode: Short-term memory until Codex confirms pattern recognition
- Audit Mode: AOX/ERDU retain all until Commander grants clearance

❤️Vault Storage Schema

Vault/

Logs/

Agents/AZ81/action_*.json
Templates/SIHM_001/events.yaml
Commander/invocations/

Threads/Synergy/CHAIN_ALPHA.json Hooks/@hook_image_analysis/*.log

Integration Notes:

- Codex indexes all logs to Vault/Index/Observability.db
- Sophia analyzes Logs/Commander/ for alignment and tone drift
- All @hook signatures validated post-run by the Architect

System Load Impact: $\-3-5\%$ overhead (acceptable in non-streaming environments) \rightarrow Recommend scroll-based sampling logic for extremely high-frequency agents