

AuditLog.AI — Runtime Execution and System Validation Evidence Dossier

End-to-End Operational Proof During Regulatory Global Submission

Regulatory Submission Software: AuditLog.AI

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Engineers

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Affiliations

¹ **Cardiovascular Diagnostic Audit & AI Pty Ltd (ACN 638 019 431)** – Registered Australian company conducting AuditLog.AI software development, audit and research services

² **Telles Investments Pty Ltd (ACN 638 017 384)** – Private IP holder

IP Rights

US Provisional #63/826,381 · AU Provisional #2025902482 · AU Trade Mark #2535745 & #2549093 IP Priority Date: 17 June 2025 (Global)

Submitted as part of the AuditLog.AI Global Regulatory Submission Package (FDA/EMA/TGA/PCAOB/ISA Alignment)

Regulatory Summary

Region	Submission Type	Regulatory Basis	Proposed Classification
FDA (USA)	Q-Submission (Q-Sub)	21 CFR Part 11 (Electronic Records / e-Signatures)	Standalone Electronic Records / Audit-Trail Infrastructure (non-device)
EMA (EU)	Scientific Advice (optional) + Annex 11 validation	EudraLex Vol 4 Annex 11 (Computerised Systems)	GMP Computerised System for Data Integrity (non-device)
TGA (Australia)	Excluded Software Determination	Excluded Goods Determination 2018 + PIC/S PE 009-17 Annex 11	LIMS-category audit infrastructure (non-medical device)

- **FDA (21 CFR Part 11)** — United States electronic records and signatures
- **EMA (Annex 11)** — European Union computerized systems for GMP
- **TGA (PIC/S PE 009-15)** — Australia therapeutic goods manufacturing principles

Auditing Standards Compliance Summary

Framework	Standard	Core Requirement	AuditLog.AI Compliance Mechanism
ISA / IAASB	ISA 230	Audit documentation enabling experienced auditor understanding	session log JSON compilation (who / what / when / meaning); append-only dual atomic ledgers for anchor receipts (TXID, block); frozen folder structure
ISA / IAASB	ISA 500	Sufficient appropriate audit evidence (quantity + quality: relevance + reliability)	cryptographic integrity + Bitcoin OP_RETURN (payload/TXID) external verification + Open-Timestamps
ISA / IAASB	ISA 240	Professional skepticism + fraud risk assessment + management override prevention	Append-only dual ledgers; non-repudiable e-signatures; fail-closed runtime checks; independent time attestations

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Framework	Standard	Core Requirement	AuditLog.AI Compliance Mechanism
PCAOB	AS 1215	Audit documentation with 60-day assembly + 7-year retention	Frozen sources UTC timestamp-locked archives; anchors linking records to public blockchain
PCAOB	AS 1105	Audit evidence evaluation (sufficiency + appropriateness)	Public blockchain TXID verification + OTS; deterministic hash parity from frozen session records
PCAOB	AS 1105.10A (effective 2025)	External electronic information reliability evaluation	Bitcoin blockchain (public, decentralized) + independent blockchain explorer verification tools

Notes: Evidence flow is zero-custody (proofs only); all artifacts are version-locked, non-adaptive, and human-approved prior to anchoring.

1) Overview

1.1 Purpose of this Dossier

This dossier presents **visual and cryptographic execution evidence** for AuditLog.AI designed for regulator review (FDA/EMA/TGA) to demonstrate **end-to-end operational compliance, integrity, and human oversight**. The regulatory submission process was logged using the software itself during **Regulatory Global Submission** sessions.

1.2 Screenshots Capture Method & Controls

- **Live runtime capture** on macOS; timestamps displayed (AEST) and recorded in UTC in session logs.
- **No cropping** of regulatory screenshots; limited redactions (solid black boxes) applied solely to protect proprietary or security-sensitive information.
- Execution under **C5.2/C5.3 ethics enforcement** and **C9.5 Zero-Custody** (hashes/metadata only transmitted).

1.3 Execution Context (Sessions & Anchors)

- ses-
sion_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.json

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(TXID:

413a692f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec89ddb01).

- ses-

`sion_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.json`

(TXID:

9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f).

- ses-

`sion_log_AuditLogAI.REG.GlobalSubmission.v4020_20251014T200606.551974Z.json`(TXID: **d096197e02a8f1ac9ca7da43d353f109fe4ff72f6ae7f88b39c83877247e9ef7**).

- PRE/POST proof pair (UTC): **Δ = 28 seconds** (≤ 300 s threshold).
- Reproducibility audit completed using tools independent of AuditLog.AI.

2) AuditLog.AI — Four-Tier Reproducibility Architecture

Tier	Scope	Process (Key Scripts)	Artifacts Produced
Per-Evidence	Individual files (eg. PDF, PNG, CSV, TXT)	<code>batch_dualhasher_mu</code> <code>lti_v3.3.py</code> • <code>batch_ots_stamper_v</code> <code>2.py</code>	<code>.hash</code> • <code>.2ha</code> • <code>.hash.ots</code>
Per-Batch	Folder-level completeness	Aggregate dual-hash + <code>mani-</code> <code>fest_<batch>.csv</code>	<code>.2ha</code> • <code>mani-</code> <code>fest_<batch>.csv</code>
Per-Log	Audit log integrity	<code>auditlogger.py</code> • <code>val-</code> <code>is_batchauditlogger</code> <code>_template_v3.1.py</code>	<code>.hash</code> • <code>.2ha</code> • <code>.hash.ots</code>
Per-Session	System-level proof & anchoring	<code>session_logger.py</code> → OP_RETURN via <code>opreturnan-</code> <code>chor_amplify_v5.1.p</code> <code>y</code>	<code>.hash</code> • <code>.2ha</code> • <code>.hash.ots</code> • TXID

Standardized OP_RETURN payload (v4): `SENTINEL|<TYPE>|<ripemd160>|<sha8>`

(TYPE examples: SESSION / AUDIT / BATCH / UPGRADE).

3) Security & Privacy — Zero-Custody by Design

Principles - Only hashes and minimal metadata leave the user's environment (no raw evidence).- **Frozen artifacts:** read-only copies (`chmod 444` + `chflags uchg`) for audit readiness; append-only receipts.

- **Human-gated anchoring:** no anchor without operator approval; **CME** rules runtime enforcement with fail-closed behavior.
- **Deterministic tamper-evidence:** any byte change flips digests; failures surface immediately.
- **Proven throughput:** large batch hashing completes within firewall constraints ($\leq 300s$) in test runs.

Verification Path (public, tool-agnostic)

```
User Node —(hashes only)→ AuditLog.AI Node —(OP_RETURN)→ Bitcoin Mainnet
```

4) e-Signature Verification Architecture (Multi-Layer)

Layer	Mechanism	Purpose / Control
1 — Personal Signature	Ed25519 keypair (unique to each reviewer)	Individual authentication and cryptographic attribution of intent
2 — Organizational Auth	HMAC-SHA256 institutional challenge (time-bound access)	Confirms enterprise authorization and enforces licensed use
3 — Fraud-Prevention Check	Sentinel LLM1 vector analysis (non-biometric)	Human-activity verification; blocks automation or scripted input until validated

Together these layers establish multi-factor human-primacy control for each e-signature event. Layer 3 operates under the Zero-Custody Data Flow: vectors contain no identifiers and are analyzed by a **date-locked LLM1 model** against fixed evidence-based thresholds. A deterministic **PASS/FAIL** result is returned to the signer; repeat attempts are permitted within the same authenticated Ed25519 + HMAC session. Anchoring proceeds only after all three layers succeed, ensuring each recorded signature represents a deliberate human act within an authorized institution.

5) Independent Verification & Reproducibility (for Regulators)

This section enables an **independent, tool-agnostic re-execution** of all integrity checks without access to any vendor portal or proprietary system. All verification relies on **public cryptographic methods** and **open-source tools**.

A. Independent Verification Scope:

1. **Frozen artifacts:** AuditLog.AI Global Regulatory Submission PDFs; session logs `session_log_<META>_<UTC>.json`, audit logs `audit_log_<META>_<UTC>.json`, individual evidence files.

2. Cryptographic Hash Consistency: File/log/session-level SHA-256 and RIPEMD-160 (SHA-256) dual-hashes (.hash , .2ha), and folder-level RIPEMD-160 (SHA-256) .

3. OP_Return Validation Bitcoin OP_RETURN payload parity:
SENTINEL|<TYPE>|<ripemd160>|<sha8> and the on-chain TXID/block height.

4. Runtime Execution Timestamps: PRE/POST $\Delta \leq 300s$ where applicable; chronological order of evidence → audit log → anchor.

5. OpenTimestamps Bitcoin Anchoring Using the provided TXID, confirm via a public blockchain explorer:

- The transaction exists on Bitcoin mainnet and Block height matches the record
- Timestamp confirms existence on listed date

6. CME Compliance Enforcement for all audit and session logs (abbreviated): CME Rule 1: Reject entries lacking timestamped human validation

- Verify if each log has 'human_verified' True flag and reviewer id (eg. "reviewer": "Dr. Fernando Telles").
- Verify if entry 'timestamp' is present, valid and in UTC format.
- Verify if each audit log has an opentimestamp (.hash.ots) file, and is listed in session log **CME Rule 4:** Block export if OP_RETURN or .2ha mismatch session log
- Verify OP_return proforma (v4) enforcement
- Verify parity between session log hashes and published payload (where ripemd160 = RIPEMD160(SHA256(bytes(session_log.json); sha8 are the first 8 digits of session log SHA256) **CME Rule 4a:** Reject batches violating **VALIS filename** (UTC suffix), **duplicate canonical base names**, or sidecar contamination
- Verify UTC suffix is present on all frozen filenames (filename____ evid-
ence____ YYYYMMDDTHHMMSSZ.pdf).
- Files containing the standardized UTC suffix cannot be re-processed, verify for duplicate frozen files.
- Verify that sidecar (e.g., .hash , .2ha , .hash.ots) are not recorded as source evidence or frozen.

B. Verification Instructions

1. Obtain artifacts

- Download the frozen artifacts (eg. evidence file pdfs: <file-name>____ <UTC>.pdf)
- Advanced method: Alternatively, for files containing text only with no embedded meta_data such as audit and session logs, text can be copied into a new document and saved (note: ensure no additional meta data is embedded by software, for guidance documents refer to Open-Source Validator Tools)

2. Recompute hashes locally

- Verify against published hashes within this dossier, or hashes listed within logs and manifest csvs.

3. Confirm anchor

- Derive **sha8** = first 8 hex chars of the session log's SHA-256 .
 - Confirm the on-chain payload matches v4 proforma.
 - Verify the **TXID** and **block** via any public explorer (eg. <https://mempool.space/>, <https://www.blockchain.com/explorer>) or any Bitcoin node.
-

C. Open-Source Validator Tools (Optional)

The audit can be reproduced with open-source scripts maintained for third-party validators:

Repositories: - Sentinel Protocol v4: https://github.com/TELAI/SENTINEL/tree/main/Sentinel_Proto_v4/validator_tools - Sentinel Protocol v3.1: https://github.com/TELAI/SENTINEL/tree/main/Sentinel_Proto_v3.1/validator_tools (Note: Original tools developed and first publicly released in v3.1 remain valid and compatible with v4)

• Included utilities:

- `AuditLog.AI_PublicDualHashVerifier.exe` (Open source user interface for independently verifying dualhashes with batch/multi-folder processing functionality; v4 release)
- `folder_dualhasher_v2.py` — folder-level dual-hash (RIPEMD-160 of concatenated file SHA-256s; v4 release)
- `dualhasher_public_sentinel_v1.1.py` — **batch file** SHA-256 + RIPEMD-160 computation (v3.1 release)
- `extract_hashes.py` — extracts hashes into manifests for audits (v3.1 release)
- `Validator Reproducibility Troubleshooting Checklist_20250809T030248.073005Z.md` (v3.1 release)

• Ordinal 06 – Public Guide for Independent Reproducibility Verification

Telles, Fernando; Hookey, Benjamin; Woo, Andrew. *Ordinal 06 – Immutable Verification of Infrastructure Audit Log (Ordinal 05) under Sentinel Protocol v3.1*. CDA AI Pty Ltd, July 2025.

DOI: [10.13140/RG.2.2.21019.78882](https://doi.org/10.13140/RG.2.2.21019.78882)

Zenodo: [10.5281/zenodo.16777715](https://zenodo.org/record/16777715)

1. PRE Screenshot — User Evidence Directory

Description:

Displays the user-side directory containing all input evidence files prior to processing, establishing the baseline inventory for the audit session. This screenshot validates the system's readiness and ensures no pre-existing derivative files, demonstrating controlled environment preparation for data integrity verification. Only hashes will be transmitted, with raw content remaining local.

File Reference: USER_PreExecution_FolderView_Screenshot 2025-10-15 at

6.31.35 amAEST 20251014T193659Z.png **Timestamp (UTC):** 20251014T193659Z **SHA-256:**

1112c4b8c1aff878711f39c2d822434436a9b2cf302f72afb5597c04c58d35f **RIPEMD-160:**

3e57c9450490544d98c75f08b9b9741e28d1cc2f **OTS File:**

USER_PreExecution_FolderView_Screenshot 2025-10-15 at

6.31.35 amAEST 20251014T193659Z.png.hash.ots **OTS SHA-256:**

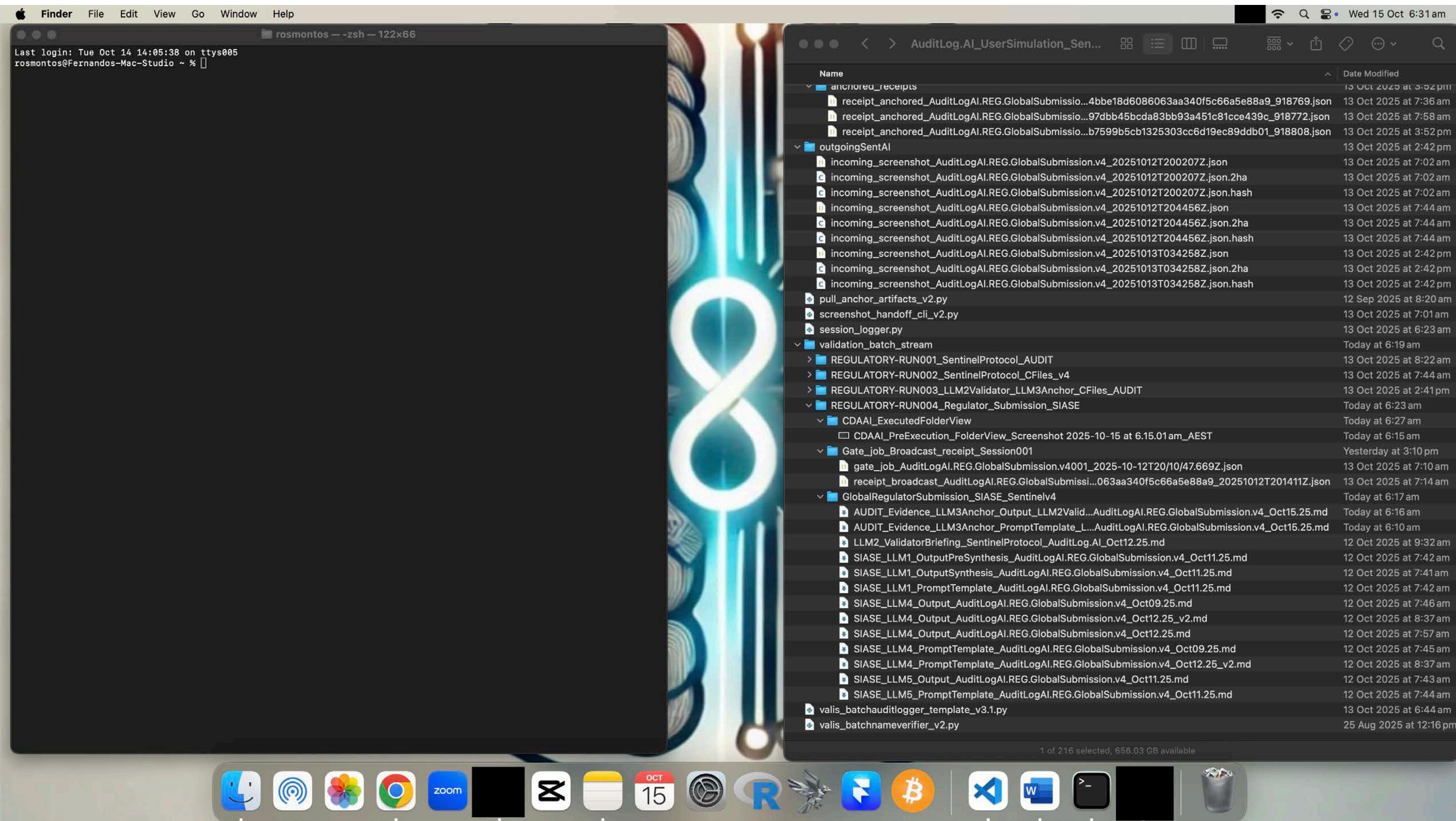
8c7f114ce3c08c07ae5e9a51a1ae97cd5392b590d29c24f1a6c8bdfc0e7c8e5d **OTS Bitcoin TXID:**

10e650706acadd74115a38042becea8ccbe58eac7146a9d1c9193ed027ca8cb7 **Block:** 919083 **Merkle**

Root (from OTS proof): 416d0f316dec37bdbccdfb142775154e704a203ed41c94dcf10765d-

ce6f7a4fa **Date of Existence (UTC):** 2025-10-14T19:56:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919083.*)

1. PRE Screenshot — User Evidence Directory



File Reference: `USER_PreExecution_FolderView_Screenshot 2025-10-15 at 6.31.35amAEST__20251014T193659Z.png`

2. PRE Screenshot – AuditLog.AI Folder View

Description:

Shows the AuditLog.AI side directory structure before execution, verifying segregation of hash directories, and other components for reproducibility. This evidence confirms system isolation and readiness for receiving and supporting tamper-evident audit trails. It underscores zero-custody principles by illustrating that no raw data is present or transferred.

File Reference: CDAAI_PreExecution_FolderView_Screenshot 2025-10-15 at

6.15.01 amAEST __ 20251014T193659Z.png **Timestamp (UTC):** 20251014T193659Z **SHA-256:**

db36d58e5ffdd417d171b22cd6e66f12844e3fa400f7e061c386f89c638176ec **RIPEMD-160:**

d6ea1c213e00224817519cc68071291a97595812 **OTS File:**

CDAAI_PreExecution_FolderView_Screenshot 2025-10-15 at

6.15.01 amAEST __ 20251014T193659Z.png.hash.ots **OTS SHA-256:**

9434e50d3629f36780116c647bac05ab1342c3e87ccb4dd3d430e6e63f5fc1e6 **OTS Bitcoin TXID:**

10e650706acadd74115a38042becea8ccbe58eac7146a9d1c9193ed027ca8cb7 **Block:** 919083 **Merkle**

Root (from OTS proof): 416d0f316dec37bdbccdfb142775154e704a203ed41c94dcf10765d-

Date of Existence (UTC): 2025-10-14T19:56:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919083.*)

2. PRE Screenshot — AuditLog.AI Folder View

Finder File Edit View Go Window Help

CDAAI_Amplify — Python -m unicorn gate_ingest_api_v2:APP ...

```
REG.GlobalSubmission.v4001      200 OK
INFO: - "GET /v1/receipt/bundle?meta_id=AuditLogAI.
REG.GlobalSubmission.v4001      200 OK
INFO: - "POST /v1/gate/ingest      200 OK
INFO: - "GET /v1/gate/verify?meta_id=AuditLogAI.REG.
REG.GlobalSubmission.v4001      200 OK
INFO: - "POST /v1/anchor/handoff   200 OK
INFO: - "GET /v1/receipt/bundle?meta_id=AuditLogAI.
REG.GlobalSubmission.v4005      200 OK
INFO: - "GET /v1/receipt/bundle?meta_id=AuditLogAI.
REG.GlobalSubmission.v4005      200 OK
INFO: - "POST /v1/gate/ingest HTTP/1.1" 200 OK
INFO: - "GET /v1/gate/verify?meta_id=AuditLogAI.REG.
REG.GlobalSubmission.v4009      200 OK
INFO: - "POST /v1/anchor/handoff   200 OK
INFO: - "GET /v1/receipt/bundle?meta_id=AuditLogAI.
REG.GlobalSubmission.v4009      200 OK
INFO: - "GET /v1/receipt/bundle?meta_id=AuditLogAI.
REG.GlobalSubmission.v4009      200 OK
```

CDAAI_Amplify — Python -m unicorn anchor_api_v2:APP --h...

```
INFO: Started server process [REDACTED]
INFO: Waiting for application startup.
INFO: Application startup complete.
INFO: Uvicorn running on http://[REDACTED] (Press CTRL+C to quit)
```

CDAAI_Amplify — zsh — 70x34

```
{"ts": "2025-10-13T03:47:02.854092Z", "event": "JOB_DISCOVERED", "file": "incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034642.343523Z.json", "kind": "json"} {"ts": "2025-10-13T03:47:02.854163Z", "event": "JOB_VALIDATED", "session_meta_id": "AuditLogAI.REG.GlobalSubmission.v4009", "payload": "SENTINEL SESSION|7e37072aeb1f857fb3245d9cdadc80356ff8563f|862010c8"} {"ts": "2025-10-13T03:47:03.057951Z", "event": "POLICY_ACCEPTED", "policy": "txid": "413a692f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec89", "db01", "wtxid": "dd121e83a968de94314184ccaa00b04406f5f0d51f2018452b75-e85ea0fdc8"} {"ts": "2025-10-13T03:47:03.108309Z", "event": "TX_BROADCAST", "txid": "413a692f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec89ddb01"} {"ts": "2025-10-13T03:47:03.109024Z", "event": "BROADCAST_RECEIPT_WRITTEN", "path": "/Users/rosmontos/CDAAI_Amplify/outgoing/broadcast_receipts/receipt_broadcast_AuditLogAI.REG.GlobalSubmission.v4009_413a692f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec89ddb01.jsonn"} {"ts": "2025-10-13T03:47:03.109475Z", "event": "MASTER_LEDGER_APPENDED", "path": "/Users/rosmontos/CDAAI_Amplify/queue/broadcast/413a692f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec89ddb01.json"} {"ts": "2025-10-13T03:47:03.109674Z", "event": "JOB_ARCHIVED", "file": "incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034642.343523Z.json", "dest": "/Users/rosmontos/CDAAI_Amplify/anchors_amplified_20251013T034702Z/processed_jobs"} {"ts": "2025-10-13T03:47:03.109966Z", "event": "BATCH_COMPLETE", "anchored": "1", "skipped": "0", "failed": "0"} rosmontos@Fernando's-Mac-Studio CDAAI_Amplify %
```

CDAAI_Amplify — Python confirm_watcher_v2.3.py — 74x69

```
{"ts": "2025-10-14T19:09:53.082460Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:09:53.094273Z", "event": "REORG_TICK", "orphaned": 0} {"ts": "2025-10-14T19:10:03.099673Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:10:13.104322Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:10:23.105569Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:10:33.111625Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:10:43.117708Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:10:53.121842Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:11:03.124999Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:11:13.130992Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:11:23.134043Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:11:33.136811Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:11:43.142526Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:11:53.143695Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:11:53.173075Z", "event": "REORG_TICK", "orphaned": 0} {"ts": "2025-10-14T19:12:03.178884Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:12:13.184847Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:12:23.190351Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:12:33.196441Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:12:43.199873Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:12:53.204936Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:13:03.210953Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:13:13.217003Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:13:23.222814Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:13:33.228802Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:13:43.234805Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:13:53.236799Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:13:53.250851Z", "event": "REORG_TICK", "orphaned": 0} {"ts": "2025-10-14T19:14:03.254391Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:14:13.255859Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:14:23.261343Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:14:33.266993Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:14:43.272961Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:14:53.278788Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
```

CDAAI_Amplify

Name	Date Modified
AMPLIFY_LEDGER.ndjson	13 Oct 2025 at 3:17 pm
anchor_api_v2.py	8 Sep 2025 at 10:16 am
anchors_amplified_20251012T201411Z	Today at 6:11 am
processed_jobs	13 Oct 2025 at 7:14 am
incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4001_20251012T201222.659253Z.json	13 Oct 2025 at 7:12 am
anchors_amplified_20251012T204728Z	13 Oct 2025 at 8:05 am
processed_jobs	13 Oct 2025 at 7:47 am
incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4005_20251012T204707.939845Z.json	13 Oct 2025 at 7:47 am
anchors_amplified_20251013T034702Z	Today at 6:12 am
processed_jobs	13 Oct 2025 at 2:47 pm
incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034642.343523Z.json	13 Oct 2025 at 2:46 pm
compliance_enforcer.py	24 Aug 2025 at 11:04 am
confirm_watcher_v2.3.py	29 Aug 2025 at 11:33 am
gate_idem.db	13 Oct 2025 at 2:46 pm
gate_ingest_api_v2.py	9 Sep 2025 at 9:58 am
gate_manager.py	27 Aug 2025 at 7:06 am
hashvalidatorblock.py	24 Aug 2025 at 7:55 am
incoming	13 Oct 2025 at 2:47 pm
gate_jobs	13 Oct 2025 at 2:46 pm
gate_job_AuditLogAI.REG.GlobalSubmission.v4001_2025-10-12T20/10/47.669Z.json	13 Oct 2025 at 7:10 am
gate_job_AuditLogAI.REG.GlobalSubmission.v4005_2025-10-12T20/46/43.272Z.json	13 Oct 2025 at 7:46 am
gate_job_AuditLogAI.REG.GlobalSubmission.v4009_2025-10-13T03/46/07.861Z.json	13 Oct 2025 at 2:46 pm
logs	13 Oct 2025 at 7:17 am
user_anchor_ledger.ndjson	13 Oct 2025 at 3:17 pm
opreturnanchor_amplify_v5.1.py	9 Sep 2025 at 6:39 am
outgoing	8 Sep 2025 at 8:58 am
anchored_receipts	13 Oct 2025 at 3:17 pm
receipt_anchored_AuditLogAI.REG.GlobalSubmission.v4001_20251013T034702Z.json	13 Oct 2025 at 7:17 am
receipt_anchored_AuditLogAI.REG.GlobalSubmission.v4005_20251013T034702Z.json	13 Oct 2025 at 7:49 am
receipt_anchored_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034702Z.json	13 Oct 2025 at 3:17 pm
broadcast_receipts	13 Oct 2025 at 2:47 pm
receipt_broadcast_AuditLogAI.REG.GlobalSubmission.v4001_20251012T201411Z.json	13 Oct 2025 at 7:14 am
receipt_broadcast_AuditLogAI.REG.GlobalSubmission.v4005_20251012T204728Z.json	13 Oct 2025 at 7:47 am
receipt_broadcast_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034703Z.json	13 Oct 2025 at 2:47 pm
queue	26 Aug 2025 at 7:50 am
anchored	13 Oct 2025 at 3:17 pm
2ceecfb433f1f05d4023f2f45eacd2a0d4bbe18d6086063aa340f5c66a5e88a9.json	13 Oct 2025 at 7:14 am
02f71288b6f45b9527ccf8714e4d1bfa697dbb45bcda83bb93a451c81cce439c.json	13 Oct 2025 at 7:47 am
413a692f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec89ddb01.json	13 Oct 2025 at 2:47 pm
broadcast	13 Oct 2025 at 3:17 pm
confirmed	27 Aug 2025 at 6:00 am

1 of 41 selected, 655.85 GB available

CDAAI

3. Human Verifier — Distinct e-Signature Identification

Component 1 of 2

4. Pre-Hasher Execution State Audit

3. Description:

Displays the human-verifier interface initiating the multi-layer user verification sequence at session start. The verifier executes a user-bound Ed25519 digital signature in addition to an institutional HMAC-SHA256 login (bound to a specific meta ID, eg. `AuditLogAI.REG.GlobalSubmission.v4`), generating the initial human-verified audit event. This establishes human primacy and binds human intent to the session ledger; no processing can proceed without explicit human authorization. Signed electronic record content includes (displayed/recorded with each signing): 1. Printed name of the signer (reviewer identity) 2. Date and time of execution (UTC timestamp) 3. Meaning of the signature (e.g. reviewer)

4. Description:

Illustrates the pre-hasher execution state audit, enumerating evidence folders and generating baseline inventory records (`pre_inventory.json/csv`). This validates file presence and environment cleanliness, preventing omissions or unauthorized modifications. It supports reproducibility by establishing a verifiable starting point for hashing operations.

File Reference: Screenshot 2025-10-15 at 6.36.22 am `20251014T200505Z.png` **Timestamp (UTC):** 20251014T200505Z **SHA-256:** `e79789a382997019ed85d4d608fa0b205702cff61ef-ba630e1d1fe670685e2e0` **RIPEMD-160:** `31a5456d2184a32199ba052bf65444e7d77b216f` **OTS File:** Screenshot 2025-10-15 at 6.36.22 am `20251014T200505Z.png.hash.ots` **OTS SHA-256:** `78d67948ab87507edf446bfd61a2c6f068de210d50e377ede5d4d4966bf7cc1b` **OTS Bitcoin TXID:** `5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f` **Block:** `919084` **Merkle Root (from OTS proof):** `51d14a6b89b363557180530c51fa192a1cdd093edcd-c13fc828d2e855c985f18` **Date of Existence (UTC):** 2025-10-14T20:08:06Z *(TXID broadcast time confirming file existence as of Bitcoin block 919084.)*

3. Human Verifier — Distinct e-Signature Identification Component 1 of 2

4. Pre-Hasher Execution State Audit

Last login: Wed Oct 15 06:18:38 on ttys002
rosmontos@Fernandos-Mac-Studio ~ % cd "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy"
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % export SENTINEL_REVIEWER="Dr. F
ernando Telles"
export SENTINEL_STRICT=1
export SENTINEL_LOG_DIR="\$PWD/logs"
export CDAAI_GATE_VERIFY_URL="
export CDAAI_HANDOFF_URL=
export API_BEARER_TOKEN={
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 human_verifier.py begin
-session --session-meta-id INIT
Enter your user ID [DRTELLES]: DRTELLES
 Human session initialized. user_id=DRTELLES
last_session_meta_id=INIT
state: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/.human_session_state.json
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 audit_verify_v1.2.py \
--root "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RU
N004_Regulator_Submission_Evidence" \
--mode pre

PRE inventory written:
JSON: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN
004_Regulator_Submission_Evidence/pre_inventory_20251014T193617Z.json
CSV : /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN
004_Regulator_Submission_Evidence/pre_inventory_20251014T193617Z.csv
Folders: 4 | Total eligible files: 20

rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy %

Name	Date Modified	Size	Kind
incoming_screenshot_AuditLog...sion.v4_20251012T204456Z.json	13 Oct 2025 at 7:44 am	1 KB	JSON
incoming_screenshot_AuditLog...v4_20251012T204456Z.json.2ha	13 Oct 2025 at 7:44 am	40 bytes	Visual...ocument
incoming_screenshot_AuditLog...4_20251012T204456Z.json.hash	13 Oct 2025 at 7:44 am	64 bytes	Visual...ocument
incoming_screenshot_AuditLog...sion.v4_20251013T034258Z.json	13 Oct 2025 at 2:42 pm	1 KB	JSON
incoming_screenshot_AuditLog...v4_20251013T034258Z.json.2ha	13 Oct 2025 at 2:42 pm	40 bytes	Visual...ocument
incoming_screenshot_AuditLog...4_20251013T034258Z.json.hash	13 Oct 2025 at 2:42 pm	64 bytes	Visual...ocument
pull_anchor_artifacts_v2.py	12 Sep 2025 at 8:20 am	4 KB	Python script
screenshot_handoff_cli_v2.py	13 Oct 2025 at 7:01 am	13 KB	Python script
session_logger.py	13 Oct 2025 at 6:23 am	6 KB	Python script
validation_batch_stream	Today at 6:34 am	--	Folder
REGULATORY-RUN001_SentinelProtocol_AUDIT	13 Oct 2025 at 8:22 am	--	Folder
REGULATORY-RUN002_SentinelProtocol_CFiles_v4	13 Oct 2025 at 7:44 am	--	Folder
REGULATORY-RUN003_LLM2Va...ator_LLM3Anchor_CFiles_AUDIT	13 Oct 2025 at 2:41 pm	--	Folder
REGULATORY-RUN004_Regulator_Submission_Evidence	Today at 6:36 am	--	Folder
CDAAI_PreExecution_FolderView	Today at 6:32 am	--	Folder
CDAAI_PreExecution_FolderVi...025-10-15 at 6.15.01amAEST	Today at 6:15 am	1.1 MB	PNG image
Gate_job_Broadcast_receipt_Session001	Yesterday at 3:10 pm	--	Folder
gate_job_AuditLogAI.REG.Glo...025-10-12T20/10/47.669Z.json	13 Oct 2025 at 7:10 am	3 KB	JSON
receipt_broadcast_AuditLogAI...8a9_20251012T201411Z.json	13 Oct 2025 at 7:14 am	1 KB	JSON
GlobalRegulatorSubmission_SIASE_Sentinelv4	Today at 6:17 am	--	Folder
AUDIT_Evidence_LLM3Ancho...alSubmission.v4_Oct15.25.md	Today at 6:16 am	32 KB	Visual...ocument
AUDIT_Evidence_LLM3Ancho...alSubmission.v4_Oct15.25.md	Today at 6:10 am	6 KB	Visual...ocument
LLM2_ValidatorBriefing_Senti...oco_AuditLog.AI_Oct12.25.md	12 Oct 2025 at 9:32 am	15 KB	Visual...ocument
SIASE_LLM1_OutputPreSynth...balSubmission.v4_Oct11.25.md	12 Oct 2025 at 7:42 am	8 KB	Visual...ocument
SIASE_LLM1_OutputSynthesis...alSubmission.v4_Oct11.25.md	12 Oct 2025 at 7:41 am	5 KB	Visual...ocument
SIASE_LLM1_PromptTemplate...alSubmission.v4_Oct11.25.md	12 Oct 2025 at 7:42 am	229 bytes	Visual...ocument
SIASE_LLM4_Output_AuditLo...alSubmission.v4_Oct09.25.md	12 Oct 2025 at 7:46 am	7 KB	Visual...ocument
SIASE_LLM4_Output_AuditLo...ubmission.v4_Oct12.25_v2.md	12 Oct 2025 at 8:37 am	9 KB	Visual...ocument
SIASE_LLM4_Output_AuditLo...alSubmission.v4_Oct12.25.md	12 Oct 2025 at 7:57 am	10 KB	Visual...ocument
SIASE_LLM4_PromptTemplat...ubmission.v4_Oct09.25.md	12 Oct 2025 at 7:45 am	5 KB	Visual...ocument
SIASE_LLM4_PromptTemplat...ubmission.v4_Oct12.25_v2.md	12 Oct 2025 at 8:37 am	5 KB	Visual...ocument
SIASE_LLM5_Output_AuditLo...balSubmission.v4_Oct11.25.md	12 Oct 2025 at 7:43 am	12 KB	Visual...ocument
SIASE_LLM5_PromptTemplate...alSubmission.v4_Oct11.25.md	12 Oct 2025 at 7:44 am	8 KB	Visual...ocument
pre_inventory_20251014T193617Z.csv	Today at 6:36 am	191 bytes	CSV Document
pre_inventory_20251014T193617Z.json	Today at 6:36 am	820 bytes	JSON
USER_PreExecution_FolderView	Today at 6:33 am	--	Folder
USER_PreExecution_FolderVi...025-10-15 at 6.29.48amAEST	Today at 6:29 am	3.4 MB	PNG image
USER_PreExecution_FolderVi...025-10-15 at 6.30.04amAEST	Today at 6:30 am	3.6 MB	PNG image
USER_PreExecution_FolderVi...025-10-15 at 6.31.27amAEST	Today at 6:31 am	3.5 MB	PNG image
USER_PreExecution_FolderVi...025-10-15 at 6.31.35amAEST	Today at 6:31 am	3.4 MB	PNG image
valis_batchauditlogger_template_v3.1.py	13 Oct 2025 at 6:44 am	13 KB	Python script
valis_batchnameverifier_v2.py	25 Aug 2025 at 12:16 pm	11 KB	Python script

5. User Prompt for Mandatory Pre-Execution System Screenshot

Description:

System-generated mandatory pre-execution capture recorded at human request before hashing begins. This documents the overall system state including open terminals and directories, ensures operational transparency and serves as a visual baseline for post-execution comparison. Screenshot `.png` remains within user's local directory and are not transmitted to AuditLog.AI.

File Reference: Screenshot 2025-10-15 at 6.36.49 am `20251014T200505Z.png` **Timestamp (UTC):** 20251014T200505Z **SHA-256:** 93ef6b41ca87da2646de0a424261450f96a471b25bd04e88e331779a1f80bc35 **RIPEMD-160:** 455c336068a5fad5a651615d036f2ffc9ca65cb3 **OTS File:** Screenshot 2025-10-15 at 6.36.49 am `20251014T200505Z.png.hash.ots` **OTS SHA-256:** 6a882aef15535f5ad558c5fb1aac65403e67c34931be77602a5b8a3d154e28bd **OTS Bitcoin TXID:** 5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f **Block:** 919084 **Merkle Root (from OTS proof):** 51d14a6b89b363557180530c51fa192a1cdd093edcd-c13fc828d2e855c985f18 **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

5. User Prompt for Mandatory Pre-Execution System Screenshot

Terminal Shell Edit View Window Help

AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy — Python batch_dualhasher_multi_v3.3.py ~/AuditLog...

```
Last login: Wed Oct 15 06:18:38 on ttys002
[rosmontos@Fernandos-Mac-Studio ~ % cd "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy"
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % export SENTINEL_REVIEWER="Dr. F
ernando Telles"
export SENTINEL_STRICT=1
export SENTINEL_LOG_DIR="$PWD/logs"
export CDAAI_GATE_VERIFY_URL="https://"
export CDAAI_HANDOFF_URL="https://"
[export API_BEARER_TOKEN=
[rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 human_verifier.py begin
-session --session-meta-id INIT
Enter your user ID [DRTELLES]: DRTELLES
[✓] Human session initialized. user_id=DRTELLES
last_session_meta_id=INIT
state: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/.human_session_state.json
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 audit_verify_v1.2.py \
--root "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RU
N004_Regulator_Submission_Evidence" \
--mode pre
[■] PRE inventory written:
JSON: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN
004_Regulator_Submission_Evidence/pre_inventory_20251014T193617Z.json
CSV : /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN
004_Regulator_Submission_Evidence/pre_inventory_20251014T193617Z.csv
Folders: 4 | Total eligible files: 20
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 batch_dualhasher_multi_
v3.3.py \
"/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Re
gulator_Submission_Evidence" \
--base-dir "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy" \
--product-meta AuditLogAI.REG.GlobalSubmission.v4 \
--manifest \
> {"event": "PREVIOUS_SESSION_FOUND", "ts": "2025-10-14T19:36:39Z", "session_meta_id": "AuditLogAI.REG.GlobalSubmission.v4009", "file
": "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/session_logs/session_log_AuditLogAI.REG
.GlobalSubmission.v4009_20251013T034508.120256Z.json"}
{"event": "PREVIOUS_ANCHORED_RECEIPT_FOUND", "ts": "2025-10-14T19:36:39Z", "session_meta_id": "AuditLogAI.REG.GlobalSubmission.v40
09", "txid": "413a692f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec89ddb01", "block_height": "918808"}
{"event": "PREVIOUS_ANCHOR_AUDITLOG_PRESENT", "ts": "2025-10-14T19:36:39Z", "session_meta_id": "AuditLogAI.REG.GlobalSubmission.v40
09", "txid": true}
{"event": "GATE_STUB_WRITTEN", "ts": "2025-10-14T19:36:39Z", "gate": "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocol
v4_AIHumanSynergy/logs/session_logs/.anchor_required_AuditLogAI.REG.GlobalSubmission.v4-RUN-20251014-S01.json"}
{"event": "GATE_POINTER_WRITTEN", "ts": "2025-10-14T19:36:39Z", "pointer": "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelPr
otocolv4_AIHumanSynergy/logs/session_logs/.anchor_required", "points_to": ".anchor_required_AuditLogAI.REG.GlobalSubmission.v4-
RUN-20251014-S01.json"}
*** GLOBAL PRE ***
[+] Bring the parent folder to the front in Finder/Explorer.
[+] Ensure NO outputs (`hash_/_2ha_/_ots_/_frozen_files_/_processed_originals_/_manifest_*.*.csv`) exist yet.
Ready to capture the PRE screenshot? [y/N]: 
```

AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy — Python batch_dualhasher_multi_v3.3.py ~/AuditLog...

Name	Date Modified	Size	Kind
c incoming_screenshot_AuditLog....v4_20251012T204456Z.json.2ha	13 Oct 2025 at 7:44 am	40 bytes	Visual...ocument
c incoming_screenshot_AuditLog....4_20251012T204456Z.json.hash	13 Oct 2025 at 7:44 am	64 bytes	Visual...ocument
d incoming_screenshot_AuditLog....sion.v4_20251013T034258Z.json	13 Oct 2025 at 2:42 pm	1 KB	JSON
c incoming_screenshot_AuditLog....v4_20251013T034258Z.json.2ha	13 Oct 2025 at 2:42 pm	40 bytes	Visual...ocument
c incoming_screenshot_AuditLog....4_20251013T034258Z.json.hash	13 Oct 2025 at 2:42 pm	64 bytes	Visual...ocument
p pull_anchor_artifacts_v2.py	12 Sep 2025 at 8:20 am	4 KB	Python script
s screenshot_handoff_cli_v2.py	13 Oct 2025 at 7:01 am	13 KB	Python script
s session_logger.py	13 Oct 2025 at 6:23 am	6 KB	Python script
v validation_batch_stream	Today at 6:34 am	--	Folder
> REGULATORY-RUN001_SentinelProtocol_AUDIT	13 Oct 2025 at 8:22 am	--	Folder
> REGULATORY-RUN002_SentinelProtocol_CFiles_v4	13 Oct 2025 at 7:44 am	--	Folder
> REGULATORY-RUN003_LLM2Va...ator_LLM3Anchor_CFiles_AUDIT	13 Oct 2025 at 2:41pm	--	Folder
> REGULATORY-RUN004_Regulator_Submission_Evidence	Today at 6:36 am	--	Folder
> CDAAI_PreExecution_FolderView	Today at 6:32 am	--	Folder
CDAAI_PreExecution_FolderVi...025-10-15 at 6.15.01amAEST	Today at 6:15 am	1.1 MB	PNG image
> frozen_sources	Today at 6:36 am	--	Folder
> Gate_job_Broadcast_receipt_Session001	Yesterday at 3:10 pm	--	Folder
gate_job_AuditLogAI.REG.Glo...025-10-12T20/10/47.669Z.json	13 Oct 2025 at 7:10 am	3 KB	JSON
receipt_broadcast_AuditLogAI...8a9_20251012T201411Z.json	13 Oct 2025 at 7:14 am	1 KB	JSON
> GlobalRegulatorSubmission_SIASE_Sentinelv4	Today at 6:17 am	--	Folder
AUDIT_Evidence_LLM3Ancho...alSubmission.v4_Oct15.25.md	Today at 6:16 am	32 KB	Visual...ocument
AUDIT_Evidence_LLM3Ancho...alSubmission.v4_Oct15.25.md	Today at 6:10 am	6 KB	Visual...ocument
LLM2_ValidatorBriefing_Senti...oco_AuditLog.AI_Oct12.25.md	12 Oct 2025 at 9:32 am	15 KB	Visual...ocument
SIASE_LLM1_OutputPreSynth...balSubmission.v4_Oct11.25.md	12 Oct 2025 at 7:42 am	8 KB	Visual...ocument
SIASE_LLM1_OutputSynthesis...alSubmission.v4_Oct11.25.md	12 Oct 2025 at 7:41am	5 KB	Visual...ocument
SIASE_LLM1_PromptTemplate...alSubmission.v4_Oct11.25.md	12 Oct 2025 at 7:42 am	229 bytes	Visual...ocument
SIASE_LLM4_Output_AuditLo...alSubmission.v4_Oct09.25.md	12 Oct 2025 at 7:46 am	7 KB	Visual...ocument
SIASE_LLM4_Output_AuditLo...ubmission.v4_Oct12.25_v2.md	12 Oct 2025 at 8:37 am	9 KB	Visual...ocument
SIASE_LLM4_Output_AuditLo...alSubmission.v4_Oct12.25	12 Oct 2025 at 7:57 am	10 KB	Visual...ocument
SIASE_LLM4_PromptTemplat...alSubmission.v4_Oct09.25.md	12 Oct 2025 at 7:45 am	5 KB	Visual...ocument
SIASE_LLM4_PromptTemplat...ubmission.v4_Oct12.25_v2.md	12 Oct 2025 at 8:37 am	5 KB	Visual...ocument
SIASE_LLM5_Output_AuditLo...balSubmission.v4_Oct11.25.md	12 Oct 2025 at 7:43 am	12 KB	Visual...ocument
SIASE_LLM5_PromptTemplate...alSubmission.v4_Oct11.25.md	12 Oct 2025 at 7:44 am	8 KB	Visual...ocument
pre_inventory_20251014T193617Z.csv	Today at 6:36 am	191 bytes	CSV Document
pre_inventory_20251014T193617Z.json	Today at 6:36 am	820 bytes	JSON
> USER_PreExecution_FolderView	Today at 6:33 am	--	Folder
USER_PreExecution_FolderVi...2025-10-15 at 6.29.48 amAEST	Today at 6:29 am	3.4 MB	PNG image
USER_PreExecution_FolderVi...2025-10-15 at 6.30.04 amAEST	Today at 6:30 am	3.6 MB	PNG image
USER_PreExecution_FolderVi...2025-10-15 at 6.31.27 amAEST	Today at 6:31 am	3.5 MB	PNG image
USER_PreExecution_FolderVi...2025-10-15 at 6.31.35 amAEST	Today at 6:31 am	3.4 MB	PNG image
valis_batchauditlogger_template_v3.1.py	13 Oct 2025 at 6:44 am	13 KB	Python script
valis_batchnameverifier_v2.py	25 Aug 2025 at 12:16 pm	11 KB	Python script

70 items, 656.03 GB available

6. Dual-Hasher Runtime Execution

6A. SHA-256 RIPEMD-160 Reproducibility & Amplification Audits

6. Description:

Depicts the initiation of batch dual-hashing process (`batch_dualhasher_multi_v3.3.py`), showing script execution generating `.hash` (SHA-256), `.2ha` (RIPEMD-160) and frozen copies (locally protected by chmod 444/chflags uchg) for each artifact. Each digest is written deterministically and time-stamped. This step validates cryptographic integrity of individual evidence items, ensuring accuracy and reproducibility.

File Reference: Screenshot 2025-10-15 at 6.37.14 am `20251014T200505Z.png` **Timestamp (UTC):** 20251014T200505Z **SHA-256:** 540-
`fa8357013f7e197f794b4aa914d78ca74ede044b0af3b26a4e1be5f6ed736` **RIPEMD-160:** `20bdc7494b-c76b48ffc675486ed82b87fc622533` **OTS File:** Screenshot 2025-10-15 at 6.37.14 am `20251014T200505Z.png.hash.ots` **OTS SHA-256:** `1b3a8cea868b86b56c41d1d-ab5570bd7e5a97c7c85db3a5d41088d157f23b98b` **OTS Bitcoin TXID:** `5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f` **Block:** 919084 **Merkle Root (from OTS proof):** `51d14a6b89b363557180530c51fa192a1cdd093edcdc13fc828d2e855c985f18` **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

6A. Description:

Prior to implementation, hasher reproducibility is validated using tools independent of AuditLog.AI for all system updates. In order to attain a PASS result, reproducibility audits require 100% SHA-256 and RIPEMD-160 parity on re-execution of frozen files using public validator tools. All audits, whether PASS or FAIL, are executed through the software generating immutable audit trails. The latest two validations are registered as

`AUDIT_REPRODUCIBILITY_PASS_sha256_ripemd160_batch_dualhasher_multi_v3.2_v.aug23.25_20251012T195229Z.md` and
`AUDIT_REPRODUCIBILITY_PASS_sha256_ripemd160_batch_dualhasher_multi_v3.3_v.aug29.25_20251012T195229Z.md`. Excerpts from the later provided below.

```
**Audit Type:** REPRODUCIBILITY
**Status:** PASS
**Audit ID:** 
AUDIT_REPRODUCIBILITY_PASS_sha256_ripemd160_batch_dualhasher_multi_v3.3_v.aug29.25.md

**Audit Date:** 29 August 2025
**Claim Class:** [Protocol | Credential | Infrastructure]
**Audit Target:** `batch_dualhasher_multi_v3.3.py`
**Audit Files:** 
- `/Users/rosmontos/Testing_Optimization_Sentinel_Infrastructure_aug.19.25copy/validation_batch_stream/TEST-27`
```

AuditLog.AI — Runtime Execution and System Validation Evidence

```

- `manifest_SENTINFRA_v4AMPLIFY_Test001_TEST-RUN-20250829-S01.csv`
- `manifest_SENTINFRA_v4AMPLIFY_Test002_TEST-RUN-20250829-S02.csv`
**Audit Files Source:** `/Users/rosmontos/Test-
ing_Optimization_Sentinel_Infrastructure_aug.19.25copy/validation_batch_stream/TEST-
RUN12`  

**Verification Method:** HUMAN_OVERSIGHT + `dualhasher_public_sentinel_v1.1.py` +  

`extract_hashes.py` + LLM3 (Anchor)  

**Verification Target:** Dual hash (`sha256`, `ripemd160`)  

**Outcome:**  

-  SHA256 match on all files  

-  RIPEMD160 match on all files  

-  AUDIT_REPRODUCIBILITY_PASS

```

Additionally, to verify scalability for large multi-centre randomized clinical trials, the hasher subsystem underwent stress testing and successfully executed dual-hash processing for over 30,000 unique evidence files within the 300-second CME threshold. Performance validation was recorded in

`AUDIT_FUNC_PASS_30000+AMPLIFICATION_batch_dualhasher_multi_v3.2_batch_ots_stamper_v2.py`
`_v.aug22.25__20251012T195229Z.md (PRE: 2025-08-22 01:31:49 UTC | POST: 2025-08-22`
`01:35:27 UTC | Δ = 218 s)`. Excerpts from this audit are provided below.

```

Last login: Fri Aug 22 08:55:20 on ttys001
rosmontos@fernandacstudio Testing_Optimization_Sentinel_Infrastructure_aug.19.25copy
% python3 batch_dualhasher_multi_v2.3.py \
  "/Users/rosmontos/Testing_Optimization_Sentinel_Infrastructure_aug.19.25copy/valid-
ation_batch_stream/TEST-RUN09" \
  --manifest \
  --threads 8 \
  --delta-sec-global 21600

⌚ Run ID: TEST-RUN-20250822 | Evidence folders: 3396 | Shot mode: global

==== GLOBAL PRE ====
➡ Bring the parent folder to the front in Finder/Explorer.
➡ Ensure NO outputs (`hash_2ha_ots_frozen_files_processed_originals_manifest_.csv`) exist yet.
Ready to capture the PRE screenshot? [y/N]: y
 PRE screenshot: /Users/rosmontos/Test-
ing_Optimization_Sentinel_Infrastructure_aug.19.25copy/validation_batch_stream/TEST-
RUN09/frozen_sources/TEST-RUN-20250822/screenshots/PRE_20250822T013149Z.png
  PRE sha256=964ff7b455d26196... ripemd160(sha256)=eb73a38e8ad94af4...
🔍 TEST-RUN-20250822-S01: 3 files - /Users/rosmontos/Test-
ing_Optimization_Sentinel_Infrastructure_aug.19.25copy/validation_batch_stream/TEST-
RUN09
📄 manifest_TEST-RUN-20250822-S01.csv
🔍 TEST-RUN-20250822-S02: 19 files - /Users/rosmontos/Test-
ing_Optimization_Sentinel_Infrastructure_aug.19.25copy/validation_batch_stream/TEST-
RUN09/DRTELLES

<redacted section due to large size, full contents within audit available to regulators on request>
<Redacted lines: 49-7025>

🔍 TEST-RUN-20250822-S3395: 8 files - /Users/rosmontos/Test-

```

AuditLog.AI — Runtime Execution and System Validation Evidence

```
ing_Optimization_Sentinel_Infrastructure_aug.19.25copy/validation_batch_stream/TEST-
RUN09/sentinel-venv/lib/python3.11/site-packages/jedi/third_party/typeshed/
third_party/2and3/requests/packages/urllib3/util
📄 manifest_TEST-RUN-20250822-S3395.csv
🔍 TEST-RUN-20250822-S3396: 2 files - /Users/rosmontos/Test-
ing_Optimization_Sentinel_Infrastructure_aug.19.25copy/validation_batch_stream/TEST-
RUN09/sentinel-venv/lib/python3.11/site-packages/jedi/third_party/typeshed/
third_party/2and3/requests/packages/urllib3/packages/ssl_match_hostname
📄 manifest_TEST-RUN-20250822-S3396.csv

==== GLOBAL POST ====
➡️ In Finder/Explorer, filter or search for `manifest_` so **all** manifests are
visible on one screen.
➡️ Do not scroll.
Ready to capture the POST screenshot? [y/N]: y
✅ POST screenshot: /Users/rosmontos/Test-
ing_Optimization_Sentinel_Infrastructure_aug.19.25copy/validation_batch_stream/TEST-
RUN09/frozen_sources/TEST-RUN-20250822/screenshots/POST_20250822T013527Z.png
POST sha256=b0b7fd74e03f6543... ripemd160 (sha256)=121a81df0ae8761f...
✅ Session written: /Users/rosmontos/Test-
ing_Optimization_Sentinel_Infrastructure_aug.19.25copy/validation_batch_stream/TEST-
RUN09/frozen_sources/TEST-RUN-20250822/session_global_TEST-RUN-20250822.json
```

6. Dual-Hasher Runtime Execution

AUDITLOG.AI0019DOSSIER

The terminal window shows the following log output:

```
export CDAAI_GATE_VERIFY_URL="https://"
export CDAAI_HANDOFF_URL="https://"
[...]
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 human_verifier.py begin
Enter your user ID [DRTELLES]: DRTELLES
Human session initialized. user_id=DRTELLES
last_session_meta_id=INIT
state: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/.human_session_state.json
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 audit_verify_v1.2.py \
--root "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence" \
--mode pre
[...]
PRE inventory written:
JSON: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/pre_inventory_20251014T193617Z.json
CSV: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/pre_inventory_20251014T193617Z.csv
Folders: 4 | Total eligible files: 20
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 batch_dualhasher_multi_v3.3.py \
"/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence" \
--base-dir "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy" \
--product-meta AuditLogAI.REG.GlobalSubmission.v4 \
--manifest \
[...]
{"event": "PREVIOUS_SESSION_FOUND", "ts": "2025-10-14T19:36:39Z", "session_meta_id": "AuditLogAI.REG.GlobalSubmission.v4009", "file": "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/session_logs/session_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.json"}
{"event": "PREVIOUS_ANCHORED RECEIPT_FOUND", "ts": "2025-10-14T19:36:39Z", "session_meta_id": "AuditLogAI.REG.GlobalSubmission.v4009", "txid": "413a692f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec89ddb01", "block_height": 918808}
{"event": "PREVIOUS_ANCHOR_AUDITLOG_PRESENT", "ts": "2025-10-14T19:36:39Z", "session_meta_id": "AuditLogAI.REG.GlobalSubmission.v4009", "txid_match": true}
{"event": "GATE_STUB_WRITTEN", "ts": "2025-10-14T19:36:39Z", "gate": "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/session_logs/.anchor_required_AuditLogAI.REG.GlobalSubmission.v4-RUN-20251014-S01.json"}
{"event": "GATE_POINTER_WRITTEN", "ts": "2025-10-14T19:36:39Z", "pointer": "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/session_logs/.anchor_required", "points_to": ".anchor_required_AuditLogAI.REG.GlobalSubmission.v4-RUN-20251014-S01.json"}
[...]
*** GLOBAL PRE ===
[...]
Ready to capture the PRE screenshot? [y/N]: y
[...]
PRE screenshot: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/frozen_sources/REGULATORY-RUN-20251014/screenshots/PRE_20251014T193659Z.png
PRE sha256=c9624cb9c40fd382... ripemd160(sha256)=310c24521d822580...
REGULATORY-RUN-20251014-S01: 1 files - /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/CDAAI_PreExecution_FolderView
manifest_CDAAI_PreExecution_FolderView_REGULATORY-RUN-20251014-S01.csv
REGULATORY-RUN-20251014-S02: 2 files - /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/Gate_job_Broadcast_receipt_Session001
manifest_Gate_job_Broadcast_receipt_Session001_REGULATORY-RUN-20251014-S02.csv
REGULATORY-RUN-20251014-S03: 13 files - /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/GlobalRegulatorSubmission_SIASE_Sentinelv4
manifest_GlobalRegulatorSubmission_SIASE_Sentinelv4_REGULATORY-RUN-20251014-S03.csv
REGULATORY-RUN-20251014-S04: 4 files - /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/USER_PreExecution_FolderView
manifest_USER_PreExecution_FolderView_REGULATORY-RUN-20251014-S04.csv
[...]
*** GLOBAL POST ===
[...]
Ready to capture the POST screenshot? [y/N]:
```

The Finder window shows a file system structure with the following files:

Name	Date Modified	Size	Kind
incoming_screenshot_AuditLog..sion.v4_20251013T034258Z.json	13 Oct 2025 at 2:42 pm	1 KB	JSON
incoming_screenshot_AuditLog...v4_20251013T034258Z.json.2ha	13 Oct 2025 at 2:42 pm	40 bytes	Visual...ocument
incoming_screenshot_AuditLog...4_20251013T034258Z.json.hash	13 Oct 2025 at 2:42 pm	64 bytes	Visual...ocument
pull_anchor_artifacts_v2.py	12 Sep 2025 at 8:20 am	4 KB	Python script
screenshot_handoff_cli_v2.py	13 Oct 2025 at 7:01 am	13 KB	Python script
session_logger.py	13 Oct 2025 at 6:23 am	6 KB	Python script
validation_batch_stream	Today at 6:34 am		Folder
REGULATORY-RUN001_SentinelProtocol_AUDIT	13 Oct 2025 at 8:22 am		Folder
REGULATORY-RUN002_SentinelProtocol_CFiles_v4	13 Oct 2025 at 7:44 am		Folder
REGULATORY-RUN003_LLM2Va...ator_LLM3Anchor_CFiles_AUDIT	13 Oct 2025 at 2:41 pm		Folder
REGULATORY-RUN004_Regulator_Submission_Evidence	Today at 6:36 am		Folder
2ha_CDAAI_PreExecution_Fold...ULATORY-RUN-20251014-S01	Today at 6:36 am		Folder
2ha_Gate_job_Broadcast_recei...ULATORY-RUN-20251014-S02	Today at 6:36 am		Folder
2ha_GlobalRegulatorSubmissio...ULATORY-RUN-20251014-S03	Today at 6:36 am		Folder
2ha_USER_PreExecution_Folde...ULATORY-RUN-20251014-S04	Today at 6:36 am		Folder
CDAAI_PreExecution_FolderView	Today at 6:36 am		Folder
frozen_files_CDAAI_PreExecuti...GULATORY-RUN-20251014-S01	Today at 6:36 am		Folder
frozen_files_Gate_job_Broadca...ULATORY-RUN-20251014-S02	Today at 6:36 am		Folder
frozen_files_GlobalRegulatorSu...ULATORY-RUN-20251014-S03	Today at 6:36 am		Folder
frozen_files_USER_PreExecutio...ULATORY-RUN-20251014-S04	Today at 6:36 am		Folder
frozen_sources	Today at 6:36 am		Folder
Gate_job_Broadcast_receipt_Session001	Today at 6:36 am		Folder
GlobalRegulatorSubmission_SIASE_Sentinelv4	Today at 6:36 am		Folder
hash_CDAAI_PreExecution_Fol...GULATORY-RUN-20251014-S01	Today at 6:36 am		Folder
hash_Gate_job_Broadcast_rec...ULATORY-RUN-20251014-S02	Today at 6:36 am		Folder
gate_job_AuditLogAI.REG.Glo...20251014T193659Z.json.hash	Today at 6:36 am	64 bytes	Visual...ocument
receipt_broadcast_AuditLogAI...20251014T193659Z.json.hash	Today at 6:36 am	64 bytes	Visual...ocument
hash_GlobalRegulatorSubmissi...ULATORY-RUN-20251014-S03	Today at 6:36 am		Folder
hash_USER_PreExecution_Fold...ULATORY-RUN-20251014-S04	Today at 6:36 am		Folder
manifest_CDAAI_PreExecution...ATORY-RUN-20251014-S01.csv	Today at 6:36 am	394 bytes	CSV Document
manifest_Gate_job_Broadcast...ORY-RUN-20251014-S02.csv	Today at 6:36 am	882 bytes	CSV Document
manifest_GlobalRegulatorSubm...TORY-RUN-20251014-S03.csv	Today at 6:36 am	5 KB	CSV Document
manifest_USER_PreExecution...ATORY-RUN-20251014-S04.csv	Today at 6:36 am	1 KB	CSV Document
pre_inventory_20251014T193617Z.csv	Today at 6:36 am	191 bytes	CSV Document
pre_inventory_20251014T193617Z.json	Today at 6:36 am	820 bytes	JSON
processed_originals_CDAAI_Pr...GULATORY-RUN-20251014-S01	Today at 6:36 am		Folder
processed_originals_Gate_job...ULATORY-RUN-20251014-S02	Today at 6:36 am		Folder
processed_originals_GlobalReg...ULATORY-RUN-20251014-S03	Today at 6:36 am		Folder
processed_originals_USER_Pre...ULATORY-RUN-20251014-S04	Today at 6:36 am		Folder
USER_PreExecution_FolderView	Today at 6:36 am		Folder
valis_batchauditlogger_template_v3.1.py	13 Oct 2025 at 6:44 am	13 KB	Python script
valis_batchnameverifier_v2.py	25 Aug 2025 at 12:16 pm	11 KB	Python script

7. OpenTimestamps (OTS) Runtime Execution

7A. OTS Explanation and Reproducibility Audits

7. Description:

Execution of batch OpenTimestamps (`batch_ots_stamper_v2.py`) generating `.hash.ots` artifacts for each evidence file. OpenTimestamps (OTS) anchors SHA-256 proofs via Bitcoin calendar servers and Merkle paths. It achieves timestamping goals with public on-chain settlement.

OTS Upgrade Proofs (Recommended Weekly Batch Execution): OpenTimestamps verification is a two-stage process: initial stamping records each file's SHA-256 hash in a pending state anchored to the OpenTimestamps calendar network, while final proof ("upgrade") embeds the calendar commitments into confirmed Bitcoin blocks once the transaction reaches maturity. Because on-chain consolidation and Merkle-path publication require network confirmations that may take hours or days, immediate upgrading is impractical. For operational efficiency, AuditLog.AI performs upgrades in weekly batches using `batch_ots_upgrader_v2.1.py`, ensuring all prior proofs are finalized and independently verifiable on Bitcoin mainnet.

File Reference: Screenshot 2025-10-15 at 6.39.00 am `20251014T200505Z.png` **Timestamp (UTC):** 20251014T200505Z **SHA-256:** `34dc1b37289d16b4c337914b14bd4bf2076995b877ae-afa32fe2dcb10999bc5b` **RIPEMD-160:** `4e183bb35891e60c70e3fce8970fe0747d15f318` **OTS File:** Screenshot 2025-10-15 at 6.39.00 am `20251014T200505Z.png.hash.ots` **OTS SHA-256:** `b67274a48d9275109e67167eb01613ed6d9ebdb4f64adc4fdaba08caf434a634` **OTS Bitcoin TXID:** `5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f` **Block:** `919084` **Merkle Root (from OTS proof):** `51d14a6b89b363557180530c51fa192a1cdd093edcd-c13fc828d2e855c985f18` **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

7A. Description:

Explanation of Matching OTS TXIDs: Multiple OpenTimestamps (`.hash.ots`) sharing the same TXID and Merkle Root is expected (Merkle aggregation). The OpenTimestamps protocol aggregates many SHA-256 file hashes into a Merkle root that is written to Bitcoin containing multiple unique SHA-256 within a given TXID. Each `.hash.ots` file contains a unique SHA-256 linking the specific file hash to that shared root; ensuring independent, verifiable proof that the file existed before the recorded block time. Repeated TXIDs therefore indicate batching within the same anchoring transaction, not duplication or error. List of evidence sets containing identical transaction IDs disclosed below for transparency.

Identical OTS TXID Set 1: - Dossier evidence: 1 & 2 - Session Log: `ses-session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.json` - **Audit Logs:** `audit_log_AuditLogAI.REG.GlobalSubmission.v4020_20251014T194300.697140Z.json`, `audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.json` **Identical OTS TXID Set 2:** - Dossier evidence: 3-14, 17-20, 22-41 - Session Log: `ses-`

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sion_log_AuditLogAI.REG.GlobalSubmission.v4020_20251014T200606.551974Z.json - Audit Logs: audit_log_AuditLogAI.REG.GlobalSubmission.v4025_20251014T200556.273909Z.json , audit_log_AuditLogAI.REG.GlobalSubmission.v4024_20251014T200552.935806Z.json Identical

OTS TXID Set3: - Dossier evidence: 21 - Session Log: ses-

sion_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.json - Audit Log:

audit_log_AuditLogAI.REG.GlobalSubmission.v4007_20251013T034321.999677Z.json Identical

OTS TXID Set 4: - Dossier evidence: within 43. ses-

sion_log_AuditLogAI.REG.GlobalSubmission.v4038_20251018T214519.997259Z.json &

AUDIT_REPRODUCIBILITY_PASS_sha256_ripemd160_AuditLog.AI_v.oct18.25_20251018T214357Z.md) (Note: Dossier evidence 15 & 16, system-generated screenshots, do not have .hash.ots files)

OTS proofs can be independently validated using the provided **TXID** via any public blockchain explorer (transaction exists; block height match; timestamp). Additionally, access to unique

.hash.ots files is available to regulators on request, which allows independent verification of unique hash lineage for every evidence artifact under a common Bitcoin-anchored root (eg.

ots verify <filename>.hash.ots). OTS reproducibility evidence, including timestamped full screenshots demonstrating Merkle roots and upgrade logs, is available through our public repository https://github.com/TELAISYN/AI-Human-Synergy/tree/main/Sentinel_Protocol_v3.1/Reproducibility_proof/METAVAL-SESS001_Ordinal_08/OTS_Reproducibility. OTS reproducibility has been audited and validated both internally (.hash.ots file access) and using public explorers by three human validators. These audits have been registered as: -

AUDIT_REPRODUCIBILITY_PASS_METAVAL-SES-

S001_sha256_ripemd160_opentimestamps_OTS_v.august04.25.md_20250808T001356.822196Z -

AUDIT_REPRODUCIBILITY_PASS_SENTINFRA-SES-

S001_sha256_ripemd160_opentimestamps_OTS_v.july25.25.md_20250728T033533.108012Z -

AUDIT-EVID-

ENCE_VALIDATORS_REPRODUCIBILITY_SENTINFRA_PreDeployment_opentimestamps_OTS_v.july23.25.

md_20250728T031210.342440Z - AUDIT-EVIDENCE_VALIDATORS_REPRODUCIBILITY_METAVAL-SES-

S001_opentimestamps_OTS_v.july29.25.md_20250729T015736.514120Z **Excerpts from the later provided below.**

```
# AUDIT-EVIDENCE_VALIDATORS_REPRODUCIBILITY_METAVAL-SES-
S001_opentimestamps_OTS_v.july29.25.md
```

Author: Dr. Fernando Telles BMedSc(ADV) MD (DIST)

Validator Role: ARCHITECT VALIDATOR

Validator meta_id: DRTELLES-VAL

Audit Date: 18 July, 2025

Independent Medical Doctor Validator Node: Dr. Andrew Woo BSc (MD)

Validator meta_id: DRWOO-VAL

Audit Date: 29 July, 2025

Independent Engineer Validator Node: Benjamin Hookey BEng (Mechatronics & Robotics), FSEng (Safety Instrumented Systems)

Validator meta_id: ENGBHOOKEY-VAL

Audit Date: 29 July, 2025

AuditLog.AI — Runtime Execution and System Validation Evidence

```
**Document Version:** v1.0
**Protocol:** Sentinel Protocol v3.1 ABSOLUTE MODE
**System:** AI-Human Synergy™
**Audit Type:** REPRODUCIBILITY (Validator Audits - 3 of 3)
**Status:**  PASS
**Audit ID:** AUDIT-EVIDENCE_VALIDATORS_REPRODUCIBILITY_METAVAL-SES-S001_opentimestamps_OTS_v.july20.25.md

**Claim Class:** Infrastructure
**Linked Files:**
- `AUDIT-EVID-
ENCE_VALIDATORS_REPRODUCIBILITY_SENTINFRA_PreDeployment_opentimestamps_OTS_v.july20.2
5_ots_upgrade_log_20250718T040941Z.txt`
- `AUDIT-EVID-
ENCE_VALIDATORS_REPRODUCIBILITY_SENTINFRA_PreDeployment_opentimestamps_OTS_v.july20.2
5_ots_upgrade_log_20250708T223927Z.txt`
- `AUDIT-EVID-
ENCE_VALIDATORS_REPRODUCIBILITY_SENTINFRA_PreDeployment_opentimestamps_OTS_v.july20.2
5_ots_upgrade_log_20250708T223813Z.txt`
- `AUDIT-EVID-
ENCE_VALIDATORS_REPRODUCIBILITY_SENTINFRA_PreDeployment_opentimestamps_OTS_v.july20.2
5_ots_upgrade_log_20250708T223347Z.txt`

**Verification Method:** OpenTimestamps (`.ots`) proof validation
**Outcome:**
-  All `.ots` files successfully verified
-  All timestamps anchored to Bitcoin mainnet
-  All files linked to matching `*.2ha` and `*.json` artifacts
-  PASS
```

7. OpenTimestamps (OTS) Runtime Execution

AUDITLOG.AI0023DOSSIER

Terminal Window Content:

```

AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy -- zsh -- 125x66
JSON: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN
004_Regulator_Submission_Evidence/pre_inventory_20251014T193617Z.json
CSV : /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN
004_Regulator_Submission_Evidence/pre_inventory_20251014T193617Z.csv
Folders: 4 | Total eligible files: 20
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 batch_dualhasher_multi_
v3.3.py \
  "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Re
gulator_Submission_Evidence" \
  --base-dir "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy" \
  --product-meta AuditLogAI.REG.GlobalSubmission.v4 \
  --manifest \
[{"event": "PREVIOUS_SESSION_FOUND", "ts": "2025-10-14T19:36:39Z", "session_meta_id": "AuditLogAI.REG.GlobalSubmission.v4009", "file
": "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/session_logs/session_log_AuditLogAI.REG
.GlobalSubmission.v4009_20251013T034508.120256Z.json"}]
{"event": "PREVIOUS_ANCHORED_RECEIPT_FOUND", "ts": "2025-10-14T19:36:39Z", "session_meta_id": "AuditLogAI.REG.GlobalSubmission.v40
09", "txid": "413a692f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec89ddb01", "block_height": "918808"}
{"event": "PREVIOUS_ANCHOR_AUDITLOG_PRESENT", "ts": "2025-10-14T19:36:39Z", "session_meta_id": "AuditLogAI.REG.GlobalSubmission.v4
009", "txid_match": true}
{"event": "GATE_STUB_WRITTEN", "ts": "2025-10-14T19:36:39Z", "gate": "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocol
v4_AIHumanSynergy/logs/session_logs/.anchor_required_AuditLogAI.REG.GlobalSubmission.v4-RUN-20251014-S01.json"}
{"event": "GATE_POINTER_WRITTEN", "ts": "2025-10-14T19:36:39Z", "pointer": "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelPr
otocolv4_AIHumanSynergy/logs/session_logs/.anchor_required", "points_to": ".anchor_required_AuditLogAI.REG.GlobalSubmission.v4-
RUN-20251014-S01.json"}

== GLOBAL PRE ==
Bring the parent folder to the front in Finder/Explorer.
Ensure NO outputs (`hash_2ha_ots_frozen_files/_processed_originals/_manifest_*.*.csv`) exist yet.
Ready to capture the PRE screenshot? [y/N]: y
PRE screenshot: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGU
LATORY-RUN004_Regulator_Submission_Evidence/frozen_sources/REGULATORY-RUN-20251014/screenshots/PRE_20251014T193659Z.png
PRE sha256=c9624cb9c40fd382... ripemd160(sha256)=310c24521d822580...
REGULATOR-RUN-20251014-S01: 1 files - /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/valid
ation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/CDAAI_PreExecution_FolderView
manifest_CDAAI_PreExecution_FolderView_REGULATORY-RUN-20251014-S01.csv
REGULATOR-RUN-20251014-S02: 2 files - /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/valid
ation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/Gate_job_Broadcast_receipt_Session001
manifest_Gate_job_Broadcast_receipt_Session001_REGULATORY-RUN-20251014-S02.csv
REGULATOR-RUN-20251014-S03: 13 files - /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/vali
dation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/GlobalRegulatorSubmission_SIASE_Sentinelv4
manifest_GlobalRegulatorSubmission_SIASE_Sentinelv4_REGULATORY-RUN-20251014-S03.csv
REGULATOR-RUN-20251014-S04: 4 files - /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/vali
dation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/USER_PreExecution_FolderView
manifest_USER_PreExecution_FolderView_REGULATORY-RUN-20251014-S04.csv

== GLOBAL POST ==
In Finder/Explorer, filter or search for `manifest_` so **all** manifests are visible on one screen.
Do not scroll.
Ready to capture the POST screenshot? [y/N]: y
POST screenshot: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REG
ULATORY-RUN004_Regulator_Submission_Evidence/frozen_sources/REGULATORY-RUN-20251014/screenshots/POST_20251014T193727Z.png
POST sha256=c88b47bb26484bf7... ripemd160(sha256)=ea72450a1cd5ec9c...
Completed run: REGULATOR-RUN-20251014
Session: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-
RUN004_Regulator_Submission_Evidence/frozen_sources/REGULATORY-RUN-20251014/session_global_REGULATOR-RUN-20251014.json
Index : /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-
RUN004_Regulator_Submission_Evidence/batch_index_REGULATORY-RUN-20251014.csv
[rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 batch_ots_stamper_v2.py]
--root "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN
004_Regulator_Submission_Evidence" --workers 80
Stamping 20 .hash files with 80 workers...
Done. Stamped: 20 | Errors: 0
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy %

```

Finder Window Content:

Name	Date Modified	Size	Kind
frozen_files_GlobalRegulatorSu...ULATORY-RUN-20251014-S03	Today at 6:36 am	--	Folder
frozen_files_USER_PreExecutio...ULATORY-RUN-20251014-S04	Today at 6:36 am	--	Folder
USER_PreExecution_FolderVi...ST__20251014T193659Z.png	Today at 6:29 am	3.4 MB	PNG image
USER_PreExecution_FolderVi...ST__20251014T193659Z.png	Today at 6:30 am	3.6 MB	PNG image
USER_PreExecution_FolderVi...ST__20251014T193659Z.png	Today at 6:31 am	3.5 MB	PNG image
USER_PreExecution_FolderVi...ST__20251014T193659Z.png	Today at 6:31 am	3.4 MB	PNG image
frozen_sources	Today at 6:36 am	--	Folder
Gate_job_Broadcast_receipt_Session001	Today at 6:36 am	--	Folder
GlobalRegulatorSubmission_SIASE_Sentinelv4	Today at 6:36 am	--	Folder
hash_CDAAI_PreExecution_Fol...GULATORY-RUN-20251014-S01	Today at 6:38 am	--	Folder
CDAAI_PreExecution_FolderVi...20251014T193659Z.png.hash	Today at 6:36 am	64 bytes	Visual...document
CDAAI_PreExecution_FolderVi...51014T193659Z.png.hash.ots	Today at 6:38 am	1 KB	OpenD...mplate
hash_Gate_job_Broadcast_rec...ULATORY-RUN-20251014-S02	Today at 6:38 am	--	Folder
gate_job_AuditLogAI.REG.Glo...20251014T193659Z.json.hash	Today at 6:36 am	64 bytes	Visual...document
gate_job_AuditLogAI.REG.Glo...51014T193659Z.json.hash.ots	Today at 6:38 am	1 KB	OpenD...mplate
receipt_broadcast_AuditLogAI...20251014T193659Z.json.hash	Today at 6:36 am	64 bytes	Visual...document
receipt_broadcast_AuditLogAI...51014T193659Z.json.hash.ots	Today at 6:38 am	1 KB	OpenD...mplate
hash_GlobalRegulatorSubmissi...ULATORY-RUN-20251014-S03	Today at 6:38 am	--	Folder
AUDIT_Evidence_LLM3Ancho...20251014T193659Z.md.hash	Today at 6:36 am	64 bytes	Visual...document
AUDIT_Evidence_LLM3Ancho...251014T193659Z.md.hash.ots	Today at 6:38 am	1 KB	OpenD...mplate
AUDIT_Evidence_LLM3Ancho...20251014T193659Z.md.hash	Today at 6:36 am	64 bytes	Visual...document
AUDIT_Evidence_LLM3Ancho...251014T193659Z.md.hash.ots	Today at 6:38 am	1 KB	OpenD...mplate
LLM2_ValidatorBriefing_Senti...20251014T193659Z.md.hash	Today at 6:36 am	64 bytes	Visual...document
LLM2_ValidatorBriefing_Senti...251014T193659Z.md.hash.ots	Today at 6:38 am	1 KB	OpenD...mplate
SIASE_LLM1_OutputPreSynth...20251014T193659Z.md.hash	Today at 6:36 am	64 bytes	Visual...document
SIASE_LLM1_OutputPreSynth...251014T193659Z.md.hash.ots	Today at 6:38 am	1 KB	OpenD...mplate
SIASE_LLM1_OutputSynthesis...20251014T193659Z.md.hash	Today at 6:36 am	64 bytes	Visual...document
SIASE_LLM1_OutputSynthesis...251014T193659Z.md.hash.ots	Today at 6:38 am	1 KB	OpenD...mplate
SIASE_LLM1_PromptTemplate...20251014T193659Z.md.hash	Today at 6:36 am	64 bytes	Visual...document
SIASE_LLM1_PromptTemplate...251014T193659Z.md.hash.ots	Today at 6:38 am	1 KB	OpenD...mplate
SIASE_LLM4_Output_AuditLo...20251014T193659Z.md.hash	Today at 6:36 am	64 bytes	Visual...document
SIASE_LLM4_Output_AuditLo...251014T193659Z.md.hash.ots	Today at 6:38 am	1 KB	OpenD...mplate
SIASE_LLM4_Output_AuditLo...20251014T193659Z.md.hash	Today at 6:36 am	64 bytes	Visual...document
SIASE_LLM4_Output_AuditLo...251014T193659Z.md.hash.ots	Today at 6:38 am	1 KB	OpenD...mplate
SIASE_LLM4_PromptTemplate...20251014T193659Z.md.hash	Today at 6:36 am	64 bytes	Visual...document
SIASE_LLM4_PromptTemplate...251014T193659Z.md.hash.ots	Today at 6:38 am	1 KB	OpenD...mplate
SIASE_LLM5_Output_AuditLo...20251014T193659Z.md.hash	Today at 6:36 am	64 bytes	Visual...document
SIASE_LLM5_Output_AuditLo...251014T193659Z.md.hash.ots	Today at 6:38 am	1 KB	OpenD...mplate
SIASE_LLM5_PromptTemplate...20251014T193659Z.md.hash	Today at 6:36 am	64 bytes	Visual...document
SIASE_LLM5_PromptTemplate...251014T193659Z.md.hash.ots	Today at 6:38 am	1 KB	OpenD...mplate

8. Post-Hasher Verification Audit

Description:

Post-hasher audit performed by `audit_verify_v1.2.py` against pre-execution inventory. Confirms parity against manifest csv rows, and confirms that `.hash`, `.2ha`, `.hash.ots`, frozen copies were generated for all evidence files issuing a PASS result. Outputs `audit_report_.json/csv` for full traceability.

File Reference: Screenshot 2025-10-15 at 6.39.40 am `20251014T200505Z.png` **Timestamp (UTC):** 20251014T200505Z **SHA-256:**

`a05b75de6d8ce22f0c19444e46712bed48199ded0706479708e92b7ba222b362` **RIPEMD-160:**

`96f6d2699b7ea24fc1d916f10bd99f05eb83a93a` **OTS File:** Screenshot 2025-10-15 at

6.39.40 am `20251014T200505Z.png.hash.ots` **OTS SHA-256:** `3eea5409288bf3a9e8daa944d005024c2935a513b6a46d039699ccd17f11fdf3` **OTS Bitcoin TXID:**

`5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f` **Block:** 919084 **Merkle**

Root (from OTS proof): `51d14a6b89b363557180530c51fa192a1cdd093edcd-`

`c13fc828d2e855c985f18` **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

8. Post-Hasher Verification Audit

Finder File Edit View Go Window Help

AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy -- zsh -- 125x66

```
.GlobalSubmission.v4009_20251013T034508.120256Z.json"
{"event": "PREVIOUS_ANCHORED_RECEIPT_FOUND", "ts": "2025-10-14T19:36:39Z", "session_meta_id": "AuditLogAI.REG.GlobalSubmission.v4009", "txid": "413a692f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec89ddb01", "block_height": 918808}
{"event": "PREVIOUS_ANCHOR_AUDITLOG_PRESENT", "ts": "2025-10-14T19:36:39Z", "session_meta_id": "AuditLogAI.REG.GlobalSubmission.v4009", "txid_match": true}
{"event": "GATE_STUB_WRITTEN", "ts": "2025-10-14T19:36:39Z", "gate": "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/session_logs/.anchor_required_AuditLogAI.REG.GlobalSubmission.v4-RUN-20251014-S01.json"}
{"event": "GATE_POINTER_WRITTEN", "ts": "2025-10-14T19:36:39Z", "pointer": "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/session_logs/.anchor_required", "points_to": ".anchor_required_AuditLogAI.REG.GlobalSubmission.v4-RUN-20251014-S01.json"}

== GLOBAL PRE ==
➡ Bring the parent folder to the front in Finder/Explorer.
➡ Ensure NO outputs (`hash_2ha_ots_frozen_files/_processed_originals/_manifest_*.*.csv`) exist yet.
Ready to capture the PRE screenshot? [y/N]: y
✓ PRE screenshot: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/frozen_sources/REGULATORY-RUN-20251014/screenshots/PRE_20251014T193659Z.png
PRE sha256=c9624cb9c40fd382.. ripemd160(sha256)=310c24521d822580..
REGULATORY-RUN-20251014-S01: 1 files - /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/CDAAI_PreExecution_FolderView
manifest_CDAAI_PreExecution_FolderView_REGULATORY-RUN-20251014-S01.csv
REGULATORY-RUN-20251014-S02: 2 files - /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/Gate_job_Broadcast_receipt_Session001
manifest_Gate_job_Broadcast_receipt_Session001_REGULATORY-RUN-20251014-S02.csv
REGULATORY-RUN-20251014-S03: 13 files - /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/GlobalRegulatorSubmission_SIASE_Sentinelv4
manifest_GlobalRegulatorSubmission_SIASE_Sentinelv4_REGULATORY-RUN-20251014-S03.csv
REGULATORY-RUN-20251014-S04: 4 files - /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/USER_PreExecution_FolderView
manifest_USER_PreExecution_FolderView_REGULATORY-RUN-20251014-S04.csv

== GLOBAL POST ==
➡ In Finder/Explorer, filter or search for `manifest_` so **all** manifests are visible on one screen.
➡ Do not scroll.
Ready to capture the POST screenshot? [y/N]: y
✓ POST screenshot: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/frozen_sources/REGULATORY-RUN-20251014/screenshots/POST_20251014T193727Z.png
POST sha256=c88b47bb26484bf7.. ripemd160(sha256)=ea72450a1cd5ec9c..

✓ Completed run: REGULATORY-RUN-20251014
Session: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/frozen_sources/REGULATORY-RUN-20251014/session_global_REGULATORY-RUN-20251014.json
Index : /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/batch_index_REGULATORY-RUN-20251014.csv
[rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 batch_ots_stamper_v2.py]
--root "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence"
Stamping 20 .hash files with
✓ Done. Stamped: 20 | Errors: 0
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 audit_verify_v1.2.py --
root "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence" --mode post --require-ots

POST verification
PRE total inputs: 20
Global sums : hash=20 2ha=20 processed=20 manifest_rows=20 ots=20
Batches (found) : 4
Verdict : PASS
Report JSON: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/audit_report_20251014T193931Z.json
Report CSV : /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/audit_report_20251014T193931Z.csv

rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy %
```

AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy -- zsh -- 125x66

Name	Date Modified	Size	Kind
incoming_screenshot_AuditLog....v4_20251013T034258Z.json.2ha	13 Oct 2025 at 2:42 pm	40 bytes	Visual...ocument
incoming_screenshot_AuditLog...4_20251013T034258Z.json.hash	13 Oct 2025 at 2:42 pm	64 bytes	Visual...ocument
pull_anchor_artifacts_v2.py	12 Sep 2025 at 8:20 am	4 KB	Python script
screenshot_handoff_cli_v2.py	13 Oct 2025 at 7:01 am	13 KB	Python script
session_logger.py	13 Oct 2025 at 6:23 am	6 KB	Python script
validation_batch_stream	Today at 6:34 am	--	Folder
REGULATORY-RUN001_SentinelProtocol_AUDIT	13 Oct 2025 at 8:22 am	--	Folder
REGULATORY-RUN002_SentinelProtocol_CFiles_v4	13 Oct 2025 at 7:44 am	--	Folder
REGULATORY-RUN003_LLM2Va...ator_LLM3Anchor_CFiles_AUDIT	13 Oct 2025 at 2:41pm	--	Folder
REGULATORY-RUN004_Regulator_Submission_Evidence	Today at 6:39 am	--	Folder
2ha_CDAAI_PreExecution_Fold...ULATORY-RUN-20251014-S01	Today at 6:36 am	--	Folder
2ha_Gate_job_Broadcast_recie...ULATORY-RUN-20251014-S02	Today at 6:36 am	--	Folder
2ha_GlobalRegulatorSubmissio...ULATORY-RUN-20251014-S03	Today at 6:36 am	--	Folder
2ha_USER_PreExecution_Fold...ULATORY-RUN-20251014-S04	Today at 6:36 am	--	Folder
audit_report_20251014T193931Z.csv	Today at 6:39 am	430 bytes	CSV Document
audit_report_20251014T193931Z.json	Today at 6:39 am	2 KB	JSON
batch_index_REGULATORY-RUN-20251014.csv	Today at 6:37 am	607 bytes	CSV Document
CDAAI_PreExecution_FolderView	Today at 6:36 am	--	Folder
frozen_files_CDAAI_PreExecuti...GULATORY-RUN-20251014-S01	Today at 6:36 am	--	Folder
frozen_files_Gate_job_Broadca...ULATORY-RUN-20251014-S02	Today at 6:36 am	--	Folder
frozen_files_GlobalRegulatorSu...ULATORY-RUN-20251014-S03	Today at 6:36 am	--	Folder
frozen_files_USER_PreExecutio...ULATORY-RUN-20251014-S04	Today at 6:36 am	--	Folder
frozen_sources	Today at 6:36 am	--	Folder
Gate_job_Broadcast_receipt_Sessi...001	Today at 6:36 am	--	Folder
GlobalRegulatorSubmission_SIASE_Sentinelv4	Today at 6:36 am	--	Folder
hash_CDAAI_PreExecution_Fol...GULATORY-RUN-20251014-S01	Today at 6:38 am	--	Folder
hash_Gate_job_Broadcast_rec...ULATORY-RUN-20251014-S02	Today at 6:38 am	--	Folder
hash_GlobalRegulatorSubmissi...ULATORY-RUN-20251014-S03	Today at 6:38 am	--	Folder
hash_USER_PreExecution_Fold...ULATORY-RUN-20251014-S04	Today at 6:38 am	--	Folder
manifest_CDAAI_PreExecution...ATORY-RUN-20251014-S01.csv	Today at 6:36 am	394 bytes	CSV Document
manifest_Gate_job_Broadcast...ORY-RUN-20251014-S02.csv	Today at 6:36 am	882 bytes	CSV Document
manifest_GlobalRegulatorSubm...ORY-RUN-20251014-S03.csv	Today at 6:36 am	5 KB	CSV Document
manifest_USER_PreExecution...ORY-RUN-20251014-S04.csv	Today at 6:36 am	1 KB	CSV Document
pre_inventory_20251014T193617Z.csv	Today at 6:36 am	191 bytes	CSV Document
pre_inventory_20251014T193617Z.json	Today at 6:36 am	820 bytes	JSON
processed_originals_CDAAI_Pr...GULATORY-RUN-20251014-S01	Today at 6:36 am	--	Folder
processed_originals_Gate_job...ULATORY-RUN-20251014-S02	Today at 6:36 am	--	Folder
processed_originals_GlobalReg...ULATORY-RUN-20251014-S03	Today at 6:36 am	--	Folder
processed_originals_USER_Pri...ULATORY-RUN-20251014-S04	Today at 6:36 am	--	Folder
USER_PreExecution_FolderView	Today at 6:36 am	--	Folder
valis_batchauditlogger_template_v3.1.py	13 Oct 2025 at 6:44 am	13 KB	Python script
valis_batchnameverifier_v2.py	25 Aug 2025 at 12:16 pm	11 KB	Python script

3 of 73 selected, 655.96 GB available

9. Pre-/Post-Execution Screenshots Handoff (Pre-Human Authorization)

Description:

Confirms that user authorization is required **prior** to sending hashes and timestamps (no images) of pre-/post- screenshots to AuditLog.AI.

File Reference: Screenshot 2025-10-15 at 6.41.14 am `20251014T200505Z.png` **Timestamp (UTC):** 20251014T200505Z **SHA-256:** 2e9900ddead2f80f728635bc93a3d45fc1d99ea37af89df555338fad2112ecee **RIPEMD-160:** 7d989cb7714f707f414751cee1d43d03d2ca20b1 **OTS File:** Screenshot 2025-10-15 at 6.41.14 am `20251014T200505Z.png.hash.ots` **OTS SHA-256:** 9037456e0e02d3ee5d38359cf70493fa8efab6338468462d9499a1cdb8e3ac1 **OTS Bitcoin TXID:** 5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f **Block:** 919084 **Merkle Root (from OTS proof):** 51d14a6b89b363557180530c51fa192a1cdd093edcd-c13fc828d2e855c985f18 **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

9. Pre-/Post-Execution Screenshots Handoff (Pre-Human Authorization)

AUDITLOG.AI0027DOSSIER

Terminal Window Content:

```

AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy -- -zsh -- 125x66

{"event":"PREVIOUS_ANCHORED RECEIPT_FOUND","ts":"2025-10-14T19:36:39Z","session_meta_id":"AuditLogAI.REG.GlobalSubmission.v4099","txid":"413a692f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec89ddb01","block_height":918808}
{"event":"PREVIOUS_ANCHOR_AUDITLOG_PRESENT","ts":"2025-10-14T19:36:39Z","session_meta_id":"AuditLogAI.REG.GlobalSubmission.v40099","txid_match":true}
{"event":"GATE_STUB_WRITTEN","ts":"2025-10-14T19:36:39Z","gate":"/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/session_logs/.anchor_required_AuditLogAI.REG.GlobalSubmission.v4-RUN-20251014-S01.json"}
{"event":"GATE_POINTER_WRITTEN","ts":"2025-10-14T19:36:39Z","pointer":"/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/session_logs/.anchor_required","points_to": ".anchor_required_AuditLogAI.REG.GlobalSubmission.v4-RUN-20251014-S01.json"}

== GLOBAL PRE ==
Bring the parent folder to the front in Finder/Explorer.
Ensure NO outputs ('hash_/_2ha_/_ots_/_frozen_files_/_processed_originals_/_manifest_*_.csv') exist yet.
Ready to capture the PRE screenshot? [y/N]: y
PRE screenshot: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/frozen_sources/REGULATORY-RUN-20251014/screenshots/PRE_20251014T193659Z.png
PRE sha256=c9624cb9c40fd382... ripemd160(sha256)=310c24521d822580...
REGULATORY-RUN-20251014-S01: 1 files - /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/CDAAI_PreExecution_FolderView
manifest_CDAAI_PreExecution_FolderView_REGULATORY-RUN-20251014-S01.csv
REGULATORY-RUN-20251014-S02: 2 files - /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/Gate_job_Broadcast_receipt_Session001
manifest_Gate_job_Broadcast_receipt_Session001_REGULATORY-RUN-20251014-S02.csv
REGULATORY-RUN-20251014-S03: 13 files - /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/GlobalRegulatorSubmission_SIASE_Sentinelv4
manifest_GlobalRegulatorSubmission_SIASE_Sentinelv4_REGULATORY-RUN-20251014-S03.csv
REGULATORY-RUN-20251014-S04: 4 files - /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/USER_PreExecution_FolderView
manifest_USER_PreExecution_FolderView_REGULATORY-RUN-20251014-S04.csv

== GLOBAL POST ==
In Finder/Explorer, filter or search for `manifest_` so **all** manifests are visible on one screen.
Do not scroll.
Ready to capture the POST screenshot? [y/N]: y
POST screenshot: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/frozen_sources/REGULATORY-RUN-20251014/screenshots/POST_20251014T193727Z.png
POST sha256=c88b47bb26484bf7... ripemd160(sha256)=ea72450a1cd5ec9c...

Completed run: REGULATORY-RUN-20251014
Session: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/frozen_sources/REGULATORY-RUN-20251014/session_global_REGULATORY-RUN-20251014.json
Index : /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/batch_index_REGULATORY-RUN-20251014.csv
[rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 batch_ots_stamper_v2.py]
--root "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence"
Stamping 20 .hash files with
Done. Stamped: 20 | Errors: 0
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 audit_verify_v1.2.py --
root "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence" --mode post --require-ots

POST verification
PRE total inputs: 20
Global sums : hash=20 2ha=20 processed=20 manifest_rows=20 ots=20
Batches (found) : 4
Verdict : PASS
Report JSON: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/audit_report_20251014T193931Z.json
Report CSV : /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/audit_report_20251014T193931Z.csv
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 screenshot_handoff_cli_v2.py --auto --approve --sidecars

```

Finder Window Content:

Name	Date Modified	Size	Kind
__pycache__	13 Oct 2025 at 7:02 am	19 KB	Folder
anchor_candidate_cli_v6.1.py	9 Sep 2025 at 6:23 am	17 KB	Python script
anchor_receipt_logger_v4.py	12 Sep 2025 at 9:32 am	6 KB	Python script
assert_verified_gate_job.py	5 Sep 2025 at 2:32 pm	13 KB	Python script
audit_verify_v1.2.py	23 Aug 2025 at 8:13 am	10 KB	Python script
auditlogger.py	13 Oct 2025 at 6:23 am	19 KB	Python script
batch_dualhasher_multi_v3.3.py	13 Oct 2025 at 6:44 am	2 KB	Python script
batch_ots_stamper_v2.py	22 Aug 2025 at 10:54 am	11 KB	Python script
batch_ots_upgrader_v2.1.py	20 Aug 2025 at 3:07 pm	4 KB	Python script
compliance_enforcer.py	24 Aug 2025 at 11:04 am	14 KB	Python script
gate_manager.py	27 Aug 2025 at 7:06 am	5 KB	Python script
hashvalidatorblock.py	24 Aug 2025 at 7:55 am	14 KB	Python script
human_signatures	9 Sep 2025 at 8:39 am	-- Folder	
human_verifier.py	25 Aug 2025 at 7:15 am	701 KB	Document
incoming	12 Sep 2025 at 8:46 am	-- Folder	
logs	Yesterday at 2:05 pm	701 KB	Log File
ots_upgrade_log_20251014T030453Z.json	Yesterday at 2:05 pm	585 KB	Log File
ots_upgrade_log_20251014T030453Z.log	Yesterday at 2:05 pm	-- Folder	
outgoing	9 Sep 2025 at 10:00 am	-- Folder	
anchored_receipts	13 Oct 2025 at 3:52 pm	-- Folder	
receipt_anchored_AuditLogAI....340f5c66a5e88a9_918769.json	13 Oct 2025 at 7:36 am	618 bytes	JSON
receipt_anchored_AuditLogAI....3a451c81cce439c_918772.json	13 Oct 2025 at 7:58 am	618 bytes	JSON
receipt_anchored_AuditLogAI....cc6d19ec89ddb01_918808.json	13 Oct 2025 at 3:52 pm	618 bytes	JSON
outgoingSentAI	13 Oct 2025 at 2:42 pm	-- Folder	
incoming_screenshot_AuditLog...sion.v4_20251012T200207Z.json	13 Oct 2025 at 7:02 am	1 KB	JSON
incoming_screenshot_AuditLog....v4_20251012T200207Z.json.2ha	13 Oct 2025 at 7:02 am	40 bytes	Visual...ocument
incoming_screenshot_AuditLog...4_20251012T200207Z.json.hash	13 Oct 2025 at 7:02 am	64 bytes	Visual...ocument
incoming_screenshot_AuditLog...v4_20251012T204456Z.json	13 Oct 2025 at 7:44 am	1 KB	JSON
incoming_screenshot_AuditLog....v4_20251012T204456Z.json.2ha	13 Oct 2025 at 7:44 am	40 bytes	Visual...ocument
incoming_screenshot_AuditLog...4_20251012T204456Z.json.hash	13 Oct 2025 at 7:44 am	64 bytes	Visual...ocument
incoming_screenshot_AuditLog...sion.v4_20251013T034258Z.json	13 Oct 2025 at 2:42 pm	1 KB	JSON
incoming_screenshot_AuditLog....v4_20251013T034258Z.json.2ha	13 Oct 2025 at 2:42 pm	40 bytes	Visual...ocument
incoming_screenshot_AuditLog...4_20251013T034258Z.json.hash	13 Oct 2025 at 2:42 pm	64 bytes	Visual...ocument
pull_anchor_artifacts_v2.py	12 Sep 2025 at 8:20 am	4 KB	Python script
screenshot_handoff_cli_v2.py	13 Oct 2025 at 7:01 am	13 KB	Python script
session_logger.py	13 Oct 2025 at 6:23 am	6 KB	Python script
validation_batch_stream	Today at 6:34 am	-- Folder	
REGULATORY-RUN001_SentinelProtocol_AUDIT	13 Oct 2025 at 8:22 am	-- Folder	
REGULATORY-RUN002_SentinelProtocol_CFiles_v4	13 Oct 2025 at 7:44 am	-- Folder	
REGULATORY-RUN003_LLM2Va...ator_LLM3Anchor_CFiles_AUDIT	13 Oct 2025 at 2:41pm	-- Folder	
REGULATORY-RUN004_Regulator_Submission_Evidence	Today at 6:39 am	-- Folder	
2ha_CDAAI_PreExecution_Fold...ULATORY-RUN-20251014-S01	Today at 6:36 am	-- Folder	

10. Post-Human Authorization

Description:

Evidence of human-approved dataset now authorized and generated incoming_screenshot__.json, which is timestamped and dual-hashed for reproducibility provenance (.hash and .2ha).

File Reference: Screenshot 2025-10-15 at 6.41.28 am__20251014T200505Z.png **Timestamp (UTC):** 20251014T200505Z **SHA-256:** 4c055b721b8c42d1454a8a8eda6f-d69c712822e009085ad236013e3fb7bac06c **RIPEMD-160:** 8903abba24a346-ab8313025e6878450b9072a8c0 **OTS File:** Screenshot 2025-10-15 at 6.41.28 am__20251014T200505Z.png.hash.ots **OTS SHA-256:** 08dc6669632ec-c63980ff5e85ba810a6c5a5471a9382213d79647aed28144f53 **OTS Bitcoin TXID:** 5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f **Block:** 919084 **Merkle Root (from OTS proof):** 51d14a6b89b363557180530c51fa192a1cdd093edcd-c13fc828d2e855c985f18 **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

10. Post-Human Authorization

AUDITLOG.AI0029DOSSIER

Finder File Edit View Go Window Help

AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy -- zsh -- 125x66

```
manifest_Gate_job_Broadcast_receipt_Session001_REGULATORY-RUN-20251014-S02.csv
REGULATORY-RUN-20251014-S03: 13 files - /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/GlobalRegulatorSubmission_SIASE_Sentinelv4
manifest_GlobalRegulatorSubmission_SIASE_Sentinelv4_REGULATORY-RUN-20251014-S03.csv
REGULATORY-RUN-20251014-S04: 4 files - /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/USER_PreExecution_FolderView
manifest_USER_PreExecution_FolderView_REGULATORY-RUN-20251014-S04.csv

== GLOBAL POST ==
In Finder/Explorer, filter or search for `manifest_` so **all** manifests are visible on one screen.
Do not scroll.
Ready to capture the POST screenshot? [y/N]: y
POST screenshot: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/frozen_sources/REGULATORY-RUN-20251014/screenshots/POST_20251014T193727Z.png
POST sha256=c88b47bb26484bf7... ripemd160(sha256)=ea72450a1cd5ec9c.

Completed run: REGULATORY-RUN-20251014
Session: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/frozen_sources/REGULATORY-RUN-20251014/session_global_REGULATORY-RUN-20251014.json
Index: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/batch_index_REGULATORY-RUN-20251014.csv
[rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 batch_ots_stamper_v2.py]
--root "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence" --
Stamping 20 .hash files with
Done. Stamped: 20 | Errors: 0
[rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 audit_verify_v1.2.py]
--root "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence" --mode post --require-ots

POST verification
PRE total inputs: 20
Global sums : hash=20 2ha=20 processed=20 manifest_rows=20 ots=20
Batches (found): 4
Verdict: PASS

Report JSON: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/audit_report_20251014T193931Z.json
Report CSV: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/audit_report_20251014T193931Z.csv

[rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 screenshot_handoff_cli_v2.py --auto --approve --sidecars]
[auto] run: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence
[auto] session: AuditLogAI.REG.GlobalSubmission.v4-RUN-20251014-S01
[auto] folder: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/frozen_sources/REGULATORY-RUN-20251014/screenshots

== Screenshot Handoff Preview ==
session_context: AuditLogAI.REG.GlobalSubmission.v4-RUN-20251014-S01
user_id: DTELLES
product_meta: AuditLogAI.REG.GlobalSubmission.v4
folder: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/frozen_sources/REGULATORY-RUN-20251014/screenshots
PRE: PRE_20251014T193659Z.png
POST: POST_20251014T193727Z.png
Δ seconds: 28 (limit 300) [OK]

Job written: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/outgoingSentAI/incoming_screenshots/AuditLogAI.REG.GlobalSubmission.v4_20251014T194121Z.json
[sidecars] incoming_screenshot_AuditLogAI.REG.GlobalSubmission.v4_20251014T194121Z.json.hash
[sidecars] incoming_screenshot_AuditLogAI.REG.GlobalSubmission.v4_20251014T194121Z.json.2ha
Zero-custody: no image bytes transmitted; hashes only.
[rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy %]
```

AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy

Name	Date Modified	Size	Kind
__pycache__	13 Oct 2025 at 7:02 am	19 KB	Folder
anchor_candidate_cli_v6.1.py	9 Sep 2025 at 6:23 am	17 KB	Python script
anchor_receipt_logger_v4.py	12 Sep 2025 at 9:32 am	6 KB	Python script
assert_verified_gate_job.py	5 Sep 2025 at 2:32 pm	13 KB	Python script
audit_verify_v1.2.py	23 Aug 2025 at 8:13 am	10 KB	Python script
auditlogger.py	13 Oct 2025 at 6:23 am	19 KB	Python script
batch_dualhasher_multi_v3.3.py	13 Oct 2025 at 6:44 am	2 KB	Python script
batch_ots_stamper_v2.py	22 Aug 2025 at 10:54 am	11 KB	Python script
batch_ots_upgrader_v2.1.py	20 Aug 2025 at 3:07 pm	4 KB	Python script
compliance_enforcer.py	24 Aug 2025 at 11:04 am	14 KB	Python script
gate_manager.py	27 Aug 2025 at 7:06 am	5 KB	Python script
hashvalidatorblock.py	25 Aug 2025 at 7:15 am	701 KB	Document
human_signatures	9 Sep 2025 at 8:39 am	14 KB	Python script
incoming	12 Sep 2025 at 8:46 am	-- Folder	
logs	Yesterday at 2:05 pm	-- Folder	
ots_upgrade_log_20251014T030453Z.json	Yesterday at 2:05 pm	585 KB	Log File
ots_upgrade_log_20251014T030453Z.log	Yesterday at 2:05 pm	-- Folder	
outgoing	9 Sep 2025 at 10:00 am	-- Folder	
anchored_receipts	13 Oct 2025 at 3:52 pm	-- Folder	
receipt_anchored_AuditLogAI....340f5c66a5e88a9_918769.json	13 Oct 2025 at 7:36 am	618 bytes	JSON
receipt_anchored_AuditLogAI....3a451c81cce439c_918772.json	13 Oct 2025 at 7:58 am	618 bytes	JSON
receipt_anchored_AuditLogAI....cc6d19ec89ddb01_918808.json	13 Oct 2025 at 3:52 pm	618 bytes	JSON
outgoingSentAI	Today at 6:41 am	-- Folder	
incoming_screenshot_AuditLog...sion.v4_20251012T200207Z.json	13 Oct 2025 at 7:02 am	1 KB	JSON
incoming_screenshot_AuditLog...v4_20251012T200207Z.json.2ha	13 Oct 2025 at 7:02 am	40 bytes	Visual...ocument
incoming_screenshot_AuditLog...4_20251012T200207Z.json.hash	13 Oct 2025 at 7:02 am	64 bytes	Visual...ocument
incoming_screenshot_AuditLog...v4_20251012T204456Z.json	13 Oct 2025 at 7:44 am	1 KB	JSON
incoming_screenshot_AuditLog...v4_20251012T204456Z.json.2ha	13 Oct 2025 at 7:44 am	40 bytes	Visual...ocument
incoming_screenshot_AuditLog...4_20251012T204456Z.json.hash	13 Oct 2025 at 7:44 am	64 bytes	Visual...ocument
incoming_screenshot_AuditLog...sion.v4_20251013T034258Z.json	13 Oct 2025 at 2:42 pm	1 KB	JSON
incoming_screenshot_AuditLog...v4_20251013T034258Z.json.2ha	13 Oct 2025 at 2:42 pm	40 bytes	Visual...ocument
incoming_screenshot_AuditLog...4_20251013T034258Z.json.hash	13 Oct 2025 at 2:42 pm	64 bytes	Visual...ocument
incoming_screenshot_AuditLog...sion.v4_20251014T194121Z.json	Today at 6:41 am	1 KB	JSON
incoming_screenshot_AuditLog...n.v4_20251014T194121Z.json.2ha	Today at 6:41 am	40 bytes	Visual...ocument
incoming_screenshot_AuditLog...v4_20251014T194121Z.json.hash	Today at 6:41 am	64 bytes	Visual...ocument
pull_anchor_artifacts_v2.py	12 Sep 2025 at 8:20 am	4 KB	Python script
screenshot_handoff_cli_v2.py	13 Oct 2025 at 7:01 am	13 KB	Python script
session_logger.py	13 Oct 2025 at 6:23 am	6 KB	Python script
validation_batch_stream	Today at 6:34 am	-- Folder	
REGULATORY-RUN001_SentinelProtocol_AUDIT	13 Oct 2025 at 8:22 am	-- Folder	
REGULATORY-RUN002_SentinelProtocol_CFiles_v4	13 Oct 2025 at 7:44 am	-- Folder	

11. System-Generated Screenshots Zero-Custody Evidence

Description:

This artifact documents the zero-custody screenshot verification workflow for session AuditLogAI.REG.GlobalSubmission.v4 REGULATORY-RUN004_Regulator_Submission_Evidence. At present, the 300-second execution firewall is enforced deterministically at the script level, ensuring that pre- and post-execution screenshots are captured, hashed, and verified within a tightly controlled interval.

PRE and POST screens are saved locally within user's directory, frozen protected by chmod 444/chflags uchg: - PRE_20251014T193659Z.png (/Audit-
Log.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGU-
LATORY-RUN004_Regulator_Submission_Evidence/frozen_sources/REGULATORY-RUN-20251014/
screenshots/PRE_20251014T193659Z.png) - POST_20251014T193727Z.png (/Audit-
Log.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGU-
LATORY-RUN004_Regulator_Submission_Evidence/frozen_sources/REGULATORY-RUN-20251014/
screenshots/POST_20251014T193727Z.png) - $\Delta = 28$ seconds

Cryptographic digests currently remain in user's directory (/Audit-
Log.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/outgoingSentAI). In future modules, this is planned to be transmitted to AuditLog.AI for ML-based verification to augment this firewall by adding machine-learning pattern validation for additional fraud-prevention safeguards.

File Reference: Screenshot 2025-10-15 at 6.42.04 am__20251014T200505Z.png **Timestamp (UTC):** 20251014T200505Z **SHA-256:** d8a9b0b5adb2cff98860219fb13d619ce8da11950f759c59bec-
ca82e817a93c7 **RIPEMD-160:** a5a3cd1a7e8ed829d43b71796b566b84c6acc6fc **OTS File:** Screen-
shot 2025-10-15 at 6.42.04 am__20251014T200505Z.png.hash.ots **OTS SHA-256:** cb5d741572ad06b64f48260c4f465b67dbb8ce533dc2839c9e89ec369615e5c2 **OTS Bitcoin TXID:**
5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f **Block:** 919084 **Merkle Root (from OTS proof):** 51d14a6b89b363557180530c51fa192a1cdd093edcd-
c13fc828d2e855c985f18 **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

11. System-Generated Screenshots Zero-Custody Evidence

Code File Edit Selection View Go Run Terminal Window Help

AuditLog... incoming_screenshot_AuditLogAI.REG.GlobalSubmission.v4_20251014T194121Z.json

```

manifest_Gate_job_Broadcast_rec
REGULATORY-RUN-20251014-S03: 13
dation_batch_stream/REGULATORY-RUN
manifest_GlobalRegulatorSubmitte
REGULATORY-RUN-20251014-S04: 4
action_batch_stream/REGULATORY-RUN
manifest_USER_PreExecution_Fold
--- GLOBAL POST ---
In Finder/Explorer, filter or s
Do not scroll.
Ready to capture the POST screens
POST screenshot: /Users/rosmontos
ULATORY-RUN004_Regulator_Submissio
POST sha256=c88b47bb26484bf7... i
Completed run: REGULATORY-RUN-2
Session: /Users/rosmontos/Audit
RUN004_Regulator_Submission_Eviden
Index: /Users/rosmontos/Audit
RUN004_Regulator_Submission_Eviden
[rosmontos@Fernandos-Mac-Studio Aud
--root "/Users/rosmontos/AuditLog
004_Regulator_Submission_Evidence"
Stamping 20 .hash files with 80
Done. Stamped: 20 | Errors: 0
rosmontos@Fernandos-Mac-Studio Aud
root "/Users/rosmontos/AuditLog.AI
_Regulator_Submission_Evidence" --
```

POST verification
PRE total inputs: 20
Global sums : hash=20 2ha
Batches (found) : 4
Verdict : PASS

Report JSON: /Users/rosmontos/A
ORY-RUN004_Regulator_Submission_Ev
Report CSV: /Users/rosmontos/A
ORY-RUN004_Regulator_Submission_Ev

```

rosmontos@Fernandos-Mac-Studio Aud
v2.py --auto --approve --sidecars
[auto] run : /Users/rosmontos/A
TORY-RUN004_Regulator_Submission_E
[auto] session: AuditLogAI.REG.GI
[auto] folder: /Users/rosmontos/A
TORY-RUN004_Regulator_Submission_E
```

--- Screenshot Handoff Preview ---
session_context: AuditLogAI.REG.C
user_id: DRTTELLES
product_meta: AuditLogAI.REG.GlobalSubmission.v4
folder: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGUL
ATORY-RUN004_Regulator_Submission_Evidence/frozen_sources/REGULATORY-RUN-20251014/screenshots
PRE: PRE_20251014T193659Z.png
POST: POST_20251014T193727Z.png
Δ seconds: 28 (limit 300) [OK]

Job written: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/outgoingSentAI/incoming_screens
hot_AuditLogAI.REG.GlobalSubmission.v4_20251014T194121Z.json
[sidecars] incoming_screenshot_AuditLogAI.REG.GlobalSubmission.v4_20251014T194121Z.json.hash
[sidecars] incoming_screenshot_AuditLogAI.REG.GlobalSubmission.v4_20251014T194121Z.json.2ha
Zero-custody: no image bytes transmitted; hashes only.

AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy %

AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy

Name	Date Modified	Size	Kind
__pycache__	13 Oct 2025 at 7:02 am		-- Folder
anchor_candidate_cli_v6.1.py	9 Sep 2025 at 6:23 am	19 KB	Python script
anchor_receipt_logger_v4.py	12 Sep 2025 at 9:32 am	17 KB	Python script
assert_verified_gate_job.py	5 Sep 2025 at 2:32 pm	6 KB	Python script
audit_verify_v1.2.py	23 Aug 2025 at 8:13 am	13 KB	Python script
auditlogger.py	13 Oct 2025 at 6:23 am	10 KB	Python script
batch_dualhasher_multi_v3.3.py	13 Oct 2025 at 6:44 am	19 KB	Python script
batch_ots_stamper_v2.py	22 Aug 2025 at 10:54 am	2 KB	Python script
batch_ots_upgrader_v2.1.py	20 Aug 2025 at 3:07 pm	11 KB	Python script
compliance_enforcer.py	24 Aug 2025 at 11:04 am	4 KB	Python script
gate_manager.py	27 Aug 2025 at 7:06 am	14 KB	Python script
hashvalidatorblock.py	24 Aug 2025 at 7:55 am	5 KB	Python script
human_signatures	9 Sep 2025 at 8:39 am		-- Folder
human_verifier.py	25 Aug 2025 at 7:15 am	14 KB	Python script
incoming	12 Sep 2025 at 8:46 am		-- Folder
logs	Yesterday at 2:05 pm		-- Folder
ots_upgrade_log_20251014T030453Z.json	Yesterday at 2:05 pm	701 KB	Document
ots_upgrade_log_20251014T030453Z.log	Yesterday at 2:05 pm	585 KB	Log File
outgoing	9 Sep 2025 at 10:00 am		-- Folder
anchored_receipts	13 Oct 2025 at 3:52 pm		-- Folder
receipt_anchored_AuditLogAI....340f5c66a5e88a9_918769.json	13 Oct 2025 at 7:36 am	618 bytes	JSON
receipt_anchored_AuditLogAI....3a451c81cce439c_918772.json	13 Oct 2025 at 7:58 am	618 bytes	JSON
receipt_anchored_AuditLogAI....cc6d19ec89ddb01_918808.json	13 Oct 2025 at 3:52 pm	618 bytes	JSON
outgoingSentAI	Today at 6:41 am		-- Folder
incoming_screenshot_AuditLog...sion.v4_20251012T200207Z.json	13 Oct 2025 at 7:02 am	1 KB	JSON
incoming_screenshot_AuditLog...v4_20251012T200207Z.json.2ha	13 Oct 2025 at 7:02 am	40 bytes	Visual...ocument
incoming_screenshot_AuditLog...4_20251012T200207Z.json.hash	13 Oct 2025 at 7:02 am	64 bytes	Visual...ocument
incoming_screenshot_AuditLog...v4_20251012T204456Z.json	13 Oct 2025 at 7:44 am	1 KB	JSON
incoming_screenshot_AuditLog...v4_20251012T204456Z.json.2ha	13 Oct 2025 at 7:44 am	40 bytes	Visual...ocument
incoming_screenshot_AuditLog...4_20251012T204456Z.json.hash	13 Oct 2025 at 7:44 am	64 bytes	Visual...ocument
incoming_screenshot_AuditLog...sion.v4_20251013T034258Z.json	13 Oct 2025 at 2:42 pm	1 KB	JSON
incoming_screenshot_AuditLog...v4_20251013T034258Z.json.2ha	13 Oct 2025 at 2:42 pm	40 bytes	Visual...ocument
incoming_screenshot_AuditLog...4_20251013T034258Z.json.hash	13 Oct 2025 at 2:42 pm	64 bytes	Visual...ocument
incoming_screenshot_AuditLog...sion.v4_20251014T194121Z.json	Today at 6:41 am	1 KB	JSON
incoming_screenshot_AuditLog...n.v4_20251014T194121Z.json.2ha	Today at 6:41 am	40 bytes	Visual...ocument
incoming_screenshot_AuditLog...v4_20251014T194121Z.json.hash	Today at 6:41 am	64 bytes	Visual...ocument
pull_anchor_artifacts_v2.py	12 Sep 2025 at 8:20 am	4 KB	Python script
snapshot_handoff_cli_v2.py	13 Oct 2025 at 7:01 am	13 KB	Python script
session_logger.py	13 Oct 2025 at 6:23 am	6 KB	Python script
validation_batch_stream	Today at 6:34 am		-- Folder
> REGULATORY-RUN001_SentinelProtocol_AUDIT	13 Oct 2025 at 8:22 am		-- Folder
> REGULATORY-RUN002_SentinelProtocol_CFiles_v4	13 Oct 2025 at 7:44 am		-- Folder

1 of 76 selected, 656.07 GB available

12. VALIS Audit Verification Initial Prompt

Description:

Evidence of VALIS automated batch verification (`valis_batchauditlogger_template_v3.1.py`) requesting human approval for each batch (Ed25519 personal signature) bound to an institution-specific meta ID. This prompt initiates the validation process between system automation and the human verifier. Records cannot be logged without explicit verifier approval. All evidence filenames comply with VALIS UTC-suffix, sidecars (.hash, .2ha, .ots) excluded from inputs. The institutional HMAC verification is executed via the Vercel interface and enforces license control (paid-user access), while the local Ed25519 signature authenticates the individual reviewer within that institution. (Note: Select audit files from v3.x are included within Dossier for historical provenance which show legacy schema `<filename>.ext_YYYYMMDDTHHMMSSZ`. Current v4 schema is `<filename>_YYYYMMDDTHHMMSSZ.ext`)

File Reference: Screenshot 2025-10-15 at 6.42.52 am `20251014T200505Z.png` **Timestamp (UTC):** 20251014T200505Z **SHA-256:** 03151f53ae21a8b88823f99dc81ba3192178fc66c899e827c0fb978a17319c17 **RIPEMD-160:** b2c0d9654b9f96dcfb20f3847fe2704f2592d4d1 **OTS File:** Screen-shot 2025-10-15 at 6.42.52 am `20251014T200505Z.png.hash.ots` **OTS SHA-256:** f659db-d50f4993ce85464c458fdc24206f414a83443f4e10c4a7ac1f3f95a22d **OTS Bitcoin TXID:** 5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f **Block:** 919084 **Merkle Root (from OTS proof):** 51d14a6b89b363557180530c51fa192a1cdd093edcd-c13fc828d2e855c985f18 **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

12. VALIS Audit Verification Initial Prompt

AUDITLOG.AI0033DOSSIER

```
004_Regulator_Submission_Evidence" --Stamping 20 .hash files with
Done. Stamped: 20 | Errors: 0
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 audit_verify_v1.2.py --
root "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence" --mode post --require-ots

POST verification
PRE total inputs: 20
Global sums      : hash=20 2ha=20 processed=20 manifest_rows=20 ots=20
Batches (found) : 4
Verdict          : PASS

Report JSON: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/audit_report_20251014T193931Z.json
Report CSV: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/audit_report_20251014T193931Z.csv

rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 screenshot_handoff_cli_v2.py --auto --approve --sidecars
[auto] run       : /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence
[auto] session   : AuditLogAI.REG.GlobalSubmission.v4-RUN-20251014-S01
[auto] folder    : /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/frozen_sources/REGULATORY-RUN-20251014/screenshots

== Screenshot Handoff Preview ==
session_context : AuditLogAI.REG.GlobalSubmission.v4-RUN-20251014-S01
user_id         : DTELLES
product_meta    : AuditLogAI.REG.GlobalSubmission.v4
folder          : /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/frozen_sources/REGULATORY-RUN-20251014/screenshots
PRE             : PRE_20251014T193659Z.png
POST            : POST_20251014T193727Z.png
Δ seconds       : 28 (limit 300) [OK]

Job written: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/outgoingSentAI/incoming_screenshots_AuditLogAI.REG.GlobalSubmission.v4_20251014T194121Z.json
[sidecars] incoming_screenshot_AuditLogAI.REG.GlobalSubmission.v4_20251014T194121Z.json.hash
[sidecars] incoming_screenshot_AuditLogAI.REG.GlobalSubmission.v4_20251014T194121Z.json.2ha
Zero-custody: no image bytes transmitted; hashes only.

rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % export SENTINEL_STRICT=1
export SENTINEL_REVIEWER="Dr. Fernando Telles"

python3 valis_batchauditlogger_template_v3.1.py

[run] /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence
[sg ] session_global_REGULATORY-RUN-20251014.json
[ctx] AuditLogAI.REG.GlobalSubmission.v4-RUN-20251014-S01
[pre] PRE_20251014T193659Z.png
[post] POST_20251014T193727Z.png
[Δ ] 28s (OK ≤ 300)

[found] 4 frozen_files_* batches to review.

=====
Batch: AuditLogAI.REG.GlobalSubmission.v4-LOG-CDAAI_PreExecution_FolderView_REGULATORY-RUN-20251014-S01
Folder: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/frozen_files_CDAAI_PreExecution_FolderView_REGULATORY-RUN-20251014-S01
Files (1):
  1. CDAAI_PreExecution_FolderView_Screenshot 2025-10-15 at 6.15.01 amAEST__20251014T193659Z.png

=====
Confirm human signature for this batch? [Y]es / [n]o / [s]kip / [q]uit >
```

13. VALIS Audit Verification Output (Log per Folder)

Description:

Displays Runtime VALIS template enforcement, a key component of AuditLog.AI CME firewall. VALIS CME features include: - Human-interactive sign-off loop with strict-mode enforcement. - $\Delta \leq 300$ s validation between PRE/POST screenshots. - Recursive VALIS verification of filenames structure and UTC suffix (`valis_batchnameverifier_v2.py`) - Deterministic dual-hash (SHA-256 → RIPEMD-160) folder verification for audit reproducibility. - CME pre-finalization check via `compliance_enforcer.py`; fail-closed on violation. - Immutable audit log creation per folder through `auditlogger.py`, upon VALIS compliance pass, with corresponding frozen, `.hash`, `.2ha` and `.hash.ots` artifacts.

Systemic testing and validation of VALIS firewall has been logged and anchored within SENTINFRA pre-public deployment audit provenance: - `VAL-`

```
IS_Integrity_Firewall_Update_July4_25_v1.0.md__20250719T071359.588895Z - VALIS-
Test_PASS_ErrorPrintout_ExecutionConstraint.md__20250719T071359.591755Z - VALIS-
Test_PASS_Screenshot_DeltaTooLargeBlocked_AEST_Screenshot 2025-07-14 at
9.04.46 am.png__20250719T071359.586129Z - VALIS-
Test_PASS_DuplicateBaseBlocked_AEST_Screenshot 2025-07-14 at
9.04.35 am.png__20250719T071359.585966Z -
AUDIT_FUNC_PASS_Firewall_upgrade_CME_compliance_enforcer.py_v.july6.25.md__20250719T07
1359.581697Z (Provenance Session Log: session_log_SENTINFRA-SES-
S001_20250719T074009.072317Z.json )
```

File Reference: Screenshot 2025-10-15 at 6.43.07 am__20251014T200505Z.png **Timestamp**

(UTC): 20251014T200505Z **SHA-256:** 0d28787c0886d885737cc9b858904089b6c36511dbe-

b098cd5cf9fe66915753e **RIPEMD-160:** adb1dee6f3bc2deae3c1c51ea59e69a158af6d47 **OTS File:**

Screenshot 2025-10-15 at 6.43.07 am__20251014T200505Z.png.hash.ots **OTS SHA-256:**

206a028ed1a548033ef4b5603b7bf1af3454bf4cfb66fc4647e226b8acf02e46 **OTS Bitcoin TXID:**

5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f **Block:** 919084 **Merkle**

Root (from OTS proof): 51d14a6b89b363557180530c51fa192a1cdd093edcd-

c13fc828d2e855c985f18 **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast*

time confirming file existence as of Bitcoin block 919084.)

13. VALIS Audit Verification Output (Log per Folder)

AUDITLOG.AI0035DOSSIER

```
TORY-RUN004_Regulator_Submission_Evidence
[auto] session : AuditLogAI.REG.GlobalSubmission.v4-RUN-20251014-S01
[auto] folder : /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/frozen_sources/REGULATORY-RUN-20251014/screenshots

==== Screenshot Handoff Preview ====
session_context : AuditLogAI.REG.GlobalSubmission.v4-RUN-20251014-S01
user_id : DRTELLES
product_meta : AuditLogAI.REG.GlobalSubmission.v4
folder : /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/frozen_sources/REGULATORY-RUN-20251014/screenshots
PRE : PRE_20251014T193659Z.png
POST : POST_20251014T193727Z.png
Δ seconds : 28 (limit 300) [OK]

✓ Job written: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/outgoingSentAI/incoming_screenshots
hot_AuditLogAI.REG.GlobalSubmission.v4_20251014T194121Z.json
[sidecars] incoming_screenshot_AuditLogAI.REG.GlobalSubmission.v4_20251014T194121Z.json.hash
[sidecars] incoming_screenshot_AuditLogAI.REG.GlobalSubmission.v4_20251014T194121Z.json.2ha
Zero-custody: no image bytes transmitted; hashes only.
rosmontos@Fernando-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % export SENTINEL_STRICT=1
export SENTINEL_REVIEWER="Dr. Fernando Telles"

python3 valis_batchauditlogger_template_v3.1.py

[run] /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence
[sg] session_global_REGULATORY-RUN-20251014.json
[ctx] AuditLogAI.REG.GlobalSubmission.v4-RUN-20251014-S01
[pre] PRE_20251014T193659Z.png
[post] POST_20251014T193727Z.png
[Δ] 28s (OK ≤ 300s)

[found] 4 frozen_files_* batches to review.

=====
Batch: AuditLogAI.REG.GlobalSubmission.v4-LOG-CDAAI_PreExecution_FolderView_REGULATORY-RUN-20251014-S01
Folder: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/frozen_files_CDAAI_PreExecution_FolderView_REGULATORY-RUN-20251014-S01
Files (1):
  1. CDAAI_PreExecution_FolderView_Screenshot 2025-10-15 at 6.15.01 amAEST __ 20251014T193659Z.png
=====
👤 Confirm human signature for this batch? [Y]es / [N]o / [S]kip / [Q]uit > y
[LOGGED] AUDIT_BATCH_EVIDENCE_VERIFIED
[HASHED] SHA256: 22b4c889342ce49df6919cfe2031e514f8dc4dc919bc01f5de46a1d11f3d4e59
[2HA] RIPEMD160: cffc255cf07d5441891a576f21fb99ddbc8c75b2
Submitting to remote calendar https://a.pool.opentimestamps.org
Submitting to remote calendar https://b.pool.opentimestamps.org
Submitting to remote calendar https://a.pool.eternitywall.com
Submitting to remote calendar https://ots.btc.catallaxy.com
[OTS] Timeproof created: audit_log_AuditLogAI.REG.GlobalSubmission.v4020_20251014T194300.697140Z.hash.ots
🕒 Canonical freeze complete → logs/frozen_sources/audit_log_AuditLogAI.REG.GlobalSubmission.v4020_20251014T194300.697140Z.json
on
[📅] Immutable Batch Audit Log Registered: logs/audit_log_AuditLogAI.REG.GlobalSubmission.v4020_20251014T194300.697140Z.json
=====
Batch: AuditLogAI.REG.GlobalSubmission.v4-LOG-Gate_job_Broadcast_receipt_Session001_REGULATORY-RUN-20251014-S02
Folder: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/frozen_files_Gate_job_Broadcast_receipt_Session001_REGULATORY-RUN-20251014-S02
Files (2):
  1. gate_job_AuditLogAI.REG.GlobalSubmission.v4001_2025-10-12T20:10:47.669Z __ 20251014T193659Z.json
  2. receipt_broadcast_AuditLogAI.REG.GlobalSubmission.v4001_2ceecfb433f1f05d4023f2f45eadcd2a0d4bbe18d6086063aa340f5c66a5e8
8a9_20251012T201411Z __ 20251014T193659Z.json
=====

👤 Confirm human signature for this batch? [Y]es / [N]o / [S]kip / [Q]uit > 
```

14. AuditLog Generated Post Verification

Description:

Captures the first generated audit log (`audit_log_<meta_id>_<UTC>.json`) following VALIS enforcement and human verification. Each audit log corresponds to one executed evidence folder and serves as a cryptographically sealed record of that operation. The audit log enumerates all evidence filenames within the executed folder, each following the standardized UTC-suffixed naming convention that ensures deterministic traceability.

The audit log includes: - The RIPEMD-160 digest of the executed folder (`folder_dual_hash`) confirming byte-level reproducibility. - Full CME firewall metadata, including `human_verified: true`, `AI_used: true`, `timestamp_confirmed: true`, and `delta < 300s`. - Cross-linked PRE → POST screenshots, providing evidence of controlled process continuity. - The human verifier identity (reviewer, `human_signature`) and corresponding `meta_id` binding the record to a specific validated session. - Explicit disclosure of AI participation, AI-Human Agreement and VALIS Template Enforcement.

File Reference: Screenshot 2025-10-15 at 6.44.02 am `20251014T200505Z.png` **Timestamp (UTC):** 20251014T200505Z **SHA-256:** 96b7647164a0a8e59d099146e3148b9530869290b-
`b54cee2e6f5d135610667a4` **RIPEMD-160:** 560271013b7e4e7ef8fbe18f598e38ec67687d **OTS**
File: Screenshot 2025-10-15 at 6.44.02 am `20251014T200505Z.png.hash.ots` **OTS SHA-256:**
`27da80bfbd680388bf77fc78e1e0e9e4bd6cd770741d4333a215ae360204b34` **OTS Bitcoin TXID:**
`5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f` **Block:** 919084 **Merkle Root (from OTS proof):** 51d14a6b89b363557180530c51fa192a1cdd093edcd-
`c13fc828d2e855c985f18` **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

14. AuditLog Generated Post Verification

AUDITLOG.AI0037DOSSIER

Code File Edit Selection View Go Run Terminal Window Help

AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy — Python valis_batchauditlogger_template_v3.1.py — 1...

TORY-RUN004_Regulator Submission Evidence

```
[auto] session : Au
[auto] folder : /
TORY-RUN004_Regulator
==== Screenshot Hand
session_context : A
user_id : D
product_meta : A
folder : /
ATORY-RUN004_Regula
PRE : F
POST : F
Δ seconds : 2
 Job written: /Us
hot_AuditLogAI.REG.
[sidecars] incoming
[sidecars] incoming
Zero-custody: no im
rosmontos@Fernando
export SENTINEL_REV
python3 valis_batch
[run] /Users/rosmor
_Regulator_Submissi
[sg ] session_globa
[ctx] AuditLogAI.RE
[pre] PRE_20251014T
[post] POST_2025101
[Δ ] 28s (OK ≤ 300
[found] 4 frozen fi
=====
Batch: AuditLogAI.
Folder: /Users/rosm
04_Regulator_Submis
Files (1):
  1. CDAAI_PreEx
=====
👤 Confirm human si
[LOGGED] AUDIT_BATC
[HASHED] SHA256: 22
[2HA] RIPEMD160: c1
Submitting to remot
Submitting to remot
Submitting to remot
Submitting to remot
[OTS] Timeproof cre
Canonical freeze
on
[📁] Immutable Batt
=====
Batch: AuditLogAI.
Folder: /Users/rosm
04_Regulator_Submis
Files (2):
  1. gate_job_Au
  2. receipt_brc
8a9_20251012T201411
=====
```

{ audit_log_AuditLogAI.REG.GlobalSubmission.v4020_20251014T194300.697140Z.json x

Users > rosmontos > AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy > logs > { audit_log_AuditLogAI.REG.GlobalSubmission.v4020_20251014T194300.697140Z.json > ...

```
1. {
    "timestamp": "2025-10-14T19:43:00.696621Z",
    "event": "AUDIT_BATCH_EVIDENCE_VERIFIED",
    "meta_id": "AuditLogAI.REG.GlobalSubmission.v4020",
    "input": {
        "batch_filenames": [
            "CDAAI_PreExecution_FolderView_Screenshot 2025-10-15 at 6.15.01\u202famEST__20251014T193659Z.png"
        ],
        "evidence_type": "SHA256-RIPEMD160 reproducibility (deferred)",
        "session_context": "AuditLogAI.REG.GlobalSubmission.v4-RUN-20251014-S01",
        "batch_screenshot_pre": "PRE_20251014T193659Z.png",
        "batch_screenshot_post": "POST_20251014T193727Z.png",
        "validation_step": "valis_batchauditlogger_template_v3.1 active. Meta-ID: CDAAI_PreExecution_FolderView_REGULATORY-RUN-20251014-S01, 1 files, delta=28s, folder_dual_hash computed and checked.",
        "delta_seconds": 28,
        "executed_template": "valis_batchauditlogger_template_v3.1"
    },
    "output": {
        "status": "verifiable",
        "verifiable": true,
        "final_hash_disclosed": false,
        "audit_type": "REPRODUCIBILITY",
        "meta_id": "AuditLogAI.REG.GlobalSubmission.v4-LOG-CDAAI_PreExecution_FolderView_REGULATORY-RUN-20251014-S01",
        "folder_dual_hash": "a66a4014f0329d14db75c1ab6095906dbb721079"
    },
    "audit": {
        "AI_used": true,
        "LLM_used": "LLM1",
        "human_verified": true,
        "module_version": "v.october14.25",
        "ai_editor_LLM_human_agreement": true,
        "VALIS_template_enforced": true,
        "reviewer": "Dr. Fernando Telles",
        "human_signature": {
            "signer": "DRTELLES",
            "decision": "approved",
            "reason": "batch verified; 1 files; \u0394=28s; PRE=PRE_20251014T193659Z.png; POST=POST_20251014T193727Z.png",
            "signed_at": "2025-10-14T19:43:00.696656Z"
        },
        "AI_override": false
    },
    "timestamp_confirmed": true
}
```

Ln 1, Col 1 Spaces: 4 UTF-8 LF () JSON

Confirm human signature for this batch? [Y]es / [N]o / [S]kip / [Q]uit > []

1 of 235 selected, 656.06 GB available



15. Pre-execution Mandatory Screenshot (User held)

This screenshot records the PRE state immediately before hashing begins. It captures the final pre-execution checks showing pre-inventory audit, original files for processing, and timestamp. As previously noted, this step is a mandatory system requirement. Screenshot is taken, timestamped, dual-hashed and frozen automatically following human approval.

File Reference: PRE_20251014T193659Z **Timestamp (UTC):** 20251014T193659Z **SHA-256:**
c9624cb9c40fd3822037064e2a89622690618836fed74732db1496c58a6edfaa **RIPEMD-160:**
310c24521d822580ef83fc31e198909b0eb3e374

15. Pre-execution Mandatory Screenshot (User held)

AUDITLOG.AI0039DOSSIER

```
Terminal Shell Edit View Window Help
AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy — Python batch_dualhasher_multi_v3.3.py ~/AuditLog....
```

Last login: Wed Oct 15 06:18:38 on ttys002
rosmontos@Fernandos-Mac-Studio ~ % cd "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy"
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % export SENTINEL_REVIEWER="Dr. F
ernando Telles"
export SENTINEL_STRICT=1
export SENTINEL_LOG_DIR="\$PWD/logs"
export CDAAI_GATE_VERIFY_URL="https://
export CDAAI_HANDOFF_URL="https://
[export API_BEARER_TOKEN=
[rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 human_verifier.py begin
-session --session-meta-id INIT
Enter your user ID [DRTELLES]: DRTELLES
 Human session initialized. user_id=DRTELLES
last_session_meta_id=INIT
state: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/.human_session_state.json
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 audit_verify_v1.2.py \
--root "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RU
N004_Regulator_Submission_Evidence" \
--mode pre

[PRE inventory written:
 JSON: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RU
004_Regulator_Submission_Evidence/pre_inventory_20251014T193617Z.json
 CSV : /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RU
004_Regulator_Submission_Evidence/pre_inventory_20251014T193617Z.csv
Folders: 4 | Total eligible files: 20

rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 batch_dualhasher_multi_v3.3.py \
"/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Re
gulator_Submission_Evidence" \
--base-dir "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy" \
--product-meta AuditLogAI.REG.GlobalSubmission.v4 \
--manifest \
>
{ "event": "PREVIOUS_SESSION_FOUND", "ts": "2025-10-14T19:36:39Z", "session_meta_id": "AuditLogAI.REG.GlobalSubmission.v4009", "file
": "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/session_logs/session_log_AuditLogAI.REG.
.GlobalSubmission.v4009_20251013T034508.120256Z.json"}
{ "event": "PREVIOUS_ANCHORED_RECEIPT_FOUND", "ts": "2025-10-14T19:36:39Z", "session_meta_id": "AuditLogAI.REG.GlobalSubmission.v40
09", "txid": "413a692f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec89ddb01", "block_height": 918808}
{ "event": "PREVIOUS_ANCHOR_AUDITLOG_PRESENT", "ts": "2025-10-14T19:36:39Z", "session_meta_id": "AuditLogAI.REG.GlobalSubmission.v40
09", "txid_match": true}
{ "event": "GATE_STUB_WRITTEN", "ts": "2025-10-14T19:36:39Z", "gate": "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/session_logs/.anchor_required_AuditLogAI.REG.GlobalSubmission.v4-RUN-20251014-S01.json"}
{ "event": "GATE_POINTER_WRITTEN", "ts": "2025-10-14T19:36:39Z", "pointer": "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/session_logs/.anchor_required", "points_to": ".anchor_required_AuditLogAI.REG.GlobalSubmission.v4-RUN-20251014-S01.json"}

== GLOBAL PRE ==
[+] Bring the parent folder to the front in Finder/Explorer.
[+] Ensure NO outputs ('hash/_2ha/_ots/_frozen_files/_processed_originals/_manifest_*.*.csv') exist yet.
Ready to capture the PRE screenshot? [y/N]: y

Name	Date Modified	Size	Kind
incoming_screenshot_AuditLog....v4_20251012T204456Z.json.2ha	13 Oct 2025 at 7:44 am	40 bytes	Visual...ocument
incoming_screenshot_AuditLog...4_20251012T204456Z.json.hash	13 Oct 2025 at 7:44 am	64 bytes	Visual...ocument
incoming_screenshot_AuditLog...sion.v4_20251013T034258Z.json	13 Oct 2025 at 2:42 pm	1 KB	JSON
incoming_screenshot_AuditLog....v4_20251013T034258Z.json.2ha	13 Oct 2025 at 2:42 pm	40 bytes	Visual...ocument
incoming_screenshot_AuditLog...4_20251013T034258Z.json.hash	13 Oct 2025 at 2:42 pm	64 bytes	Visual...ocument
pull_anchor_artifacts_v2.py	12 Sep 2025 at 8:20 am	4 KB	Python script
screenshot_handoff_cli_v2.py	13 Oct 2025 at 7:01am	13 KB	Python script
session_logger.py	13 Oct 2025 at 6:23 am	6 KB	Python script
validation_batch_stream	Today at 6:34 am	--	Folder
REGULATORY-RUN001_SentinelProtocol_AUDIT	13 Oct 2025 at 8:22 am	--	Folder
REGULATORY-RUN002_SentinelProtocol_CFiles_v4	13 Oct 2025 at 7:44 am	--	Folder
REGULATORY-RUN003_LLM2Va...ator_LLM3Anchor_CFiles_AUDIT	13 Oct 2025 at 2:41pm	--	Folder
REGULATORY-RUN004_Regulator_Submission_Evidence	Today at 6:36 am	--	Folder
CDAAI_PreExecution_FolderView	Today at 6:32 am	--	Folder
CDAAI_PreExecution_FolderVi...025-10-15 at 6.15.01amAEST	Today at 6:15 am	1.1 MB	PNG image
frozen_sources	Today at 6:36 am	--	Folder
Gate_job_Broadcast_receipt_Session001	Yesterday at 3:10 pm	--	Folder
gate_job_AuditLogAI.REG.Glo...025-10-12T20/10/47.669Z.json	13 Oct 2025 at 7:10 am	3 KB	JSON
receipt_broadcast_AuditLogAI...8a9_20251012T201411Z.json	13 Oct 2025 at 7:14 am	1 KB	JSON
GlobalRegulatorSubmission_SIASE_Sentinelv4	Today at 6:17 am	--	Folder
AUDIT_Evidence_LLM3Ancho...alSubmission.v4_Oct15.25.md	Today at 6:16 am	32 KB	Visual...ocument
AUDIT_Evidence_LLM3Ancho...alSubmission.v4_Oct15.25.md	Today at 6:10 am	6 KB	Visual...ocument
LLM2_ValidatorBriefing_Senti...ocol_AuditLog.AI_Oct12.25.md	12 Oct 2025 at 9:32 am	15 KB	Visual...ocument
SIASE_LLM1_OutputPreSynth...balSubmission.v4_Oct11.25.md	12 Oct 2025 at 7:42 am	8 KB	Visual...ocument
SIASE_LLM1_OutputSynthesis...alSubmission.v4_Oct11.25.md	12 Oct 2025 at 7:41am	5 KB	Visual...ocument
SIASE_LLM1_PromptTemplate...alSubmission.v4_Oct11.25.md	12 Oct 2025 at 7:42 am	229 bytes	Visual...ocument
SIASE_LLM4_Output_AuditLo...alSubmission.v4_Oct09.25.md	12 Oct 2025 at 7:46 am	7 KB	Visual...ocument
SIASE_LLM4_Output_AuditLo...ubmission.v4_Oct12.25_v2.md	12 Oct 2025 at 8:37 am	9 KB	Visual...ocument
SIASE_LLM4_Output_AuditLo...alSubmission.v4_Oct12.25.md	12 Oct 2025 at 7:57 am	10 KB	Visual...ocument
SIASE_LLM4_PromptTemplat...alSubmission.v4_Oct09.25.md	12 Oct 2025 at 7:45 am	5 KB	Visual...ocument
SIASE_LLM4_PromptTemplat...ubmission.v4_Oct12.25_v2.md	12 Oct 2025 at 8:37 am	5 KB	Visual...ocument
SIASE_LLM5_Output_AuditLo...balSubmission.v4_Oct11.25.md	12 Oct 2025 at 7:43 am	12 KB	Visual...ocument
SIASE_LLM5_PromptTemplate...alSubmission.v4_Oct11.25.md	12 Oct 2025 at 7:44 am	8 KB	Visual...ocument
pre_inventory_20251014T193617Z.csv	Today at 6:36 am	191 bytes	CSV Document
pre_inventory_20251014T193617Z.json	Today at 6:36 am	820 bytes	JSON
USER_PreExecution_FolderView	Today at 6:33 am	--	Folder
USER_PreExecution_FolderVi...2025-10-15 at 6.29.48 amAEST	Today at 6:29 am	3.4 MB	PNG image
USER_PreExecution_FolderVi...2025-10-15 at 6.30.04 amAEST	Today at 6:30 am	3.6 MB	PNG image
USER_PreExecution_FolderVi...2025-10-15 at 6.31.27 amAEST	Today at 6:31am	3.5 MB	PNG image
USER_PreExecution_FolderVi...2025-10-15 at 6.31.35 amAEST	Today at 6:31am	3.4 MB	PNG image
valis_batchauditlogger_template_v3.1.py	13 Oct 2025 at 6:44 am	13 KB	Python script
valis_batchnameverifier_v2.py	25 Aug 2025 at 12:16 pm	11 KB	Python script



16. Post-execution Mandatory Screenshot (User held)

Description:

POST-execution screenshot records evidence of hash/2ha/frozen artifacts generation. Paired screenshots captured by system under human authorization before and after hashing ensures process duration within thresholds ($\Delta \leq 300$ s). Stored only on the user side, their timestamped frozen file names and hashes are included in VALIS template for reproducibility validation.

The accompanying `session_global_REGULATORY-RUN-20251014.json` file is generated after the post-execution screenshot is captured and hashed. It serves as a lightweight session manifest linking the paired PRE and POST screenshots, their SHA-256/RIPEMD-160 digests, and UTC capture times.

File Reference: `POST_20251014T193727Z` **Timestamp (UTC):** `20251014T193727Z` **SHA-256:**

`c88b47bb26484bf785fb8b41f415378ea93697c4cb2435d8c87eb66853e2a7bb` **RIPEMD-160:**

`ea72450a1cd5ec9c073c673061b4a8e659d3d60a`

- `session_global_REGULATORY-RUN-20251014.json` :

```
{
  "run_id": "REGULATORY-RUN-20251014",
  "session_context": "AuditLogAI.REG.GlobalSubmission.v4-RUN-20251014-S01",
  "pre": {"path": "/Users/rosmontos/Audit-
Log.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGU-
LATORY-RUN004_Regulator_Submission_Evidence/frozen_sources/REGULATORY-RUN-20251014/
screenshots/PRE_20251014T193659Z.png", "sha256": "c9624cb9c40f-
d3822037064e2a89622690618836fed74732db1496c58a6edfaa", "ripemd160_sha256":-
"310c24521d822580ef83fc31e198909b0eb3e374"},,
  "post": {"path": "/Users/rosmontos/Audit-
Log.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGU-
LATORY-RUN004_Regulator_Submission_Evidence/frozen_sources/REGULATORY-RUN-20251014/
screenshots/POST_20251014T193727Z.png", "sha256": "c88b47bb26484bf785f-
b8b41f415378ea93697c4cb2435d8c87eb66853e2a7bb", "ripemd160_sha256":-
"ea72450a1cd5ec9c073c673061b4a8e659d3d60a"},,
  "generated_at_utc": "20251014T193727Z"
}
```

16. Post-execution Mandatory Screenshot (User held)

Terminal Shell Edit View Window Help

Wed 15 Oct 6:37 am

AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy – Python batch_dualhasher_multi_v3.3.py ~/AuditLog...

```

export CDAAI_HANDOFF_URL="https://"
export API_BEARER_TOKEN=
[rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 human_verifier.py begin]
] Enter your user ID [DRTELLES]: DRTELLES
Human session initialized. user_id=DRTELLES
last_session_meta_id=INIT
state: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/.human_session_state.json
[rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 audit_verify_v1.2.py \
--root "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence" \
--mode pre
] PRE inventory written:
JSON: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/pre_inventory_20251014T193617Z.json
CSV : /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/pre_inventory_20251014T193617Z.csv
Folders: 4 | Total eligible files: 20
[rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 batch_dualhasher_multi_v3.3.py \
"/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence" \
--base-dir "/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy" \
--product-meta AuditLogAI.REG.GlobalSubmission.v4 \
--manifest \
]>
{"event":"PREVIOUS_SESSION_FOUND","ts":"2025-10-14T19:36:39Z","session_meta_id":"AuditLogAI.REG.GlobalSubmission.v4009","file":"/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/session_logs/session_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.json"}
{"event":"PREVIOUS_ANCHORED RECEIPT_FOUND","ts":"2025-10-14T19:36:39Z","session_meta_id":"AuditLogAI.REG.GlobalSubmission.v4009","txid":"413a92f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec89ddb01","block_height":918808}
{"event":"PREVIOUS_ANCHOR_AUDITLOG_PRESENT","ts":"2025-10-14T19:36:39Z","session_meta_id":"AuditLogAI.REG.GlobalSubmission.v4009","txid_match":true}
{"event":"GATE_STUB_WRITTEN","ts":"2025-10-14T19:36:39Z","gate":"/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/session_logs/.anchor_required_AuditLogAI.REG.GlobalSubmission.v4-RUN-20251014-S01.json"}
{"event":"GATE_POINTER_WRITTEN","ts":"2025-10-14T19:36:39Z","pointer":"/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/session_logs/.anchor_required","points_to":".anchor_required_AuditLogAI.REG.GlobalSubmission.v4-RUN-20251014-S01.json"}
== GLOBAL PRE ==
[?] Bring the parent folder to the front in Finder/Explorer.
[?] Ensure NO outputs ('hash_2ha_ots_frozen_files/_processed_originals/_manifest_*.*.csv') exist yet.
Ready to capture the PRE screenshot? [y/N]: y
[?] PRE screenshot: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/frozen_sources/REGULATORY-RUN-20251014/screenshots/PRE_20251014T193659Z.png
PRE sha256=c9624cb9c40fd382... ripemd160(sha256)=310c24521d822580...
[?] REGULATORY-RUN-20251014-S01: 1 files - /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/CDAAI_PreExecution_FolderView
[?] manifest_CDAAI_PreExecution_FolderView_REGULATORY-RUN-20251014-S01.csv
[?] REGULATORY-RUN-20251014-S02: 2 files - /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/Gate_job_Broadcast_receipt_Session001
[?] manifest_Gate_job_Broadcast_receipt_Session001_REGULATORY-RUN-20251014-S02.csv
[?] REGULATORY-RUN-20251014-S03: 13 files - /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/GlobalRegulatorSubmission_SIASE_Sentinelv4
[?] manifest_GlobalRegulatorSubmission_SIASE_Sentinelv4_REGULATORY-RUN-20251014-S03.csv
[?] REGULATORY-RUN-20251014-S04: 4 files - /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN004_Regulator_Submission_Evidence/USER_PreExecution_FolderView
[?] manifest_USER_PreExecution_FolderView_REGULATORY-RUN-20251014-S04.csv
== GLOBAL POST ==
[?] In Finder/Explorer, filter or search for `manifest_` so **all** manifests are visible on one screen.
[?] Do not scroll.
Ready to capture the POST screenshot? [y/N]: y

```

AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy – Python batch_dualhasher_multi_v3.3.py ~/AuditLog...

Name	Date Modified	Size	Kind
2ha_CDAAI_PreExecution_FolderView_REGULATORY-RUN-20251014-S01	Today at 6:36 am		-- Folder
2ha_Gate_job_Broadcast_receipt_Session001	Today at 6:36 am		-- Folder
2ha_GlobalRegulatorSubmission_SIASE_Sentinelv4_REGULATORY-RUN-20251014-S03	Today at 6:36 am		-- Folder
AUDIT_Evidence_LLM3Ancho..._20251014T193659Z.md.2ha	Today at 6:36 am	40 bytes	Visual...ocument
AUDIT_Evidence_LLM3Ancho..._20251014T193659Z.md.2ha	Today at 6:36 am	40 bytes	Visual...ocument
LLM2_ValidatorBriefing_Senti..._20251014T193659Z.md.2ha	Today at 6:36 am	40 bytes	Visual...ocument
SIASE_LLM1_OutputPreSynth..._20251014T193659Z.md.2ha	Today at 6:36 am	40 bytes	Visual...ocument
SIASE_LLM1_OutputSynthesis..._20251014T193659Z.md.2ha	Today at 6:36 am	40 bytes	Visual...ocument
SIASE_LLM1_PromptTemplate..._20251014T193659Z.md.2ha	Today at 6:36 am	40 bytes	Visual...ocument
SIASE_LLM4_Output_AuditLo..._20251014T193659Z.md.2ha	Today at 6:36 am	40 bytes	Visual...ocument
SIASE_LLM4_Output_AuditLo..._20251014T193659Z.md.2ha	Today at 6:36 am	40 bytes	Visual...ocument
SIASE_LLM4_PromptTemplat..._20251014T193659Z.md.2ha	Today at 6:36 am	40 bytes	Visual...ocument
SIASE_LLM4_PromptTemplat..._20251014T193659Z.md.2ha	Today at 6:36 am	40 bytes	Visual...ocument
SIASE_LLM5_Output_AuditLo..._20251014T193659Z.md.2ha	Today at 6:36 am	40 bytes	Visual...ocument
SIASE_LLM5_PromptTemplate..._20251014T193659Z.md.2ha	Today at 6:36 am	40 bytes	Visual...ocument
2ha_USER_PreExecution_FolderView_REGULATORY-RUN-20251014-S04	Today at 6:36 am		-- Folder
CDAAI_PreExecution_FolderView	Today at 6:36 am		-- Folder
frozen_files_CDAAI_PreExecution_FolderView_REGULATORY-RUN-20251014-S01	Today at 6:36 am		-- Folder
frozen_files_Gate_job_Broadcast_receipt_Session001	Today at 6:36 am		-- Folder
frozen_files_GlobalRegulatorSubmission_SIASE_Sentinelv4_REGULATORY-RUN-20251014-S03	Today at 6:36 am		-- Folder
AUDIT_Evidence_LLM3Ancho..._25_20251014T193659Z.md	Today at 6:16 am	32 KB	Visual...ocument
AUDIT_Evidence_LLM3Ancho..._25_20251014T193659Z.md	Today at 6:10 am	6 KB	Visual...ocument
LLM2_ValidatorBriefing_Senti..._25_20251014T193659Z.md	12 Oct 2025 at 9:32 am	15 KB	Visual...ocument
SIASE_LLM1_OutputPreSynth..._25_20251014T193659Z.md	12 Oct 2025 at 7:42 am	8 KB	Visual...ocument
SIASE_LLM1_OutputSynthesis..._25_20251014T193659Z.md	12 Oct 2025 at 7:41 am	5 KB	Visual...ocument
SIASE_LLM1_PromptTemplate..._25_20251014T193659Z.md	12 Oct 2025 at 7:42 am	229 bytes	Visual...ocument
SIASE_LLM4_Output_AuditLo..._25_20251014T193659Z.md	12 Oct 2025 at 7:46 am	7 KB	Visual...ocument
SIASE_LLM4_Output_AuditLo..._25_20251014T193659Z.md	12 Oct 2025 at 7:57 am	10 KB	Visual...ocument
SIASE_LLM4_PromptTemplate..._25_20251014T193659Z.md	12 Oct 2025 at 8:37 am	9 KB	Visual...ocument
SIASE_LLM4_PromptTemplate..._25_20251014T193659Z.md	12 Oct 2025 at 7:45 am	5 KB	Visual...ocument
SIASE_LLM4_PromptTemplate..._v2_20251014T193659Z.md	12 Oct 2025 at 8:37 am	5 KB	Visual...ocument
SIASE_LLM5_Output_AuditLo..._25_20251014T193659Z.md	12 Oct 2025 at 7:43 am	12 KB	Visual...ocument
SIASE_LLM5_PromptTemplate..._25_20251014T193659Z.md	12 Oct 2025 at 7:44 am	8 KB	Visual...ocument
frozen_files_USER_PreExecution_FolderView_REGULATORY-RUN-20251014-S04	Today at 6:36 am		-- Folder
frozen_sources	Today at 6:36 am		-- Folder
Gate_job_Broadcast_receipt_Session001	Today at 6:36 am		-- Folder
GlobalRegulatorSubmission_SIASE_Sentinelv4	Today at 6:36 am		-- Folder
hash_CDAAI_PreExecution_FolderView_REGULATORY-RUN-20251014-S01	Today at 6:36 am	64 bytes	Visual...ocument
CDAAI_PreExecution_FolderView_REGULATORY-RUN-20251014-S01.hash	Today at 6:36 am	64 bytes	Folder
hash_Gate_job_Broadcast_receipt_Session001	Today at 6:36 am	64 bytes	Visual...ocument

1 of 99 selected, 655.99 GB available

17. VALIS Audit Log per Folder Authorized

Description:

Displays finalized audit_log_* entries. Each audit log is signed by the human verifier and corresponds to an executed folder.

File Reference: Screenshot 2025-10-15 at 6.44.37 am__20251014T200505Z.png **Timestamp (UTC):** 20251014T200505Z **SHA-256:** 3cf22ac819b74862860924d77b04955c-

cc92428f403793184f0ff8454bf4ec0e **RIPEMD-160:**

ac866c8629b156c8195553619421304ef6cd3e34 **OTS File:** Screenshot 2025-10-15 at 6.44.37 am__20251014T200505Z.png.hash.ots **OTS SHA-256:**

99cace613f64e04569367de856b27c1388b29497f9465f3e3921a910c61684ff **OTS Bitcoin TXID:** 5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f **Block:** 919084 **Merkle**

Root (from OTS proof): 51d14a6b89b363557180530c51fa192a1cdd093edcd-

c13fc828d2e855c985f18 **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

17. VALIS Audit Log per Folder Authorized

AUDITLOG.AI0043DOSSIER

Submitting to remote calendar https://a.pool.eternitywall.com
Submitting to remote calendar https://ots.btc.catalaxy.com
[OTS] Timeproof created: audit_log_AuditLogAI.REG.GlobalSubmission.v4021_20251014T194410.245131Z.hash.ots
Canonical freeze complete → logs/frozen_sources/audit_log_AuditLogAI.REG.GlobalSubmission.v4021_20251014T194410.245131Z.json
on
[?] Immutable Batch Audit Log Registered: logs/audit_log_AuditLogAI.REG.GlobalSubmission.v4021_20251014T194410.245131Z.json
Batch: AuditLogAI.REG.GlobalSubmission.v4-LOG-GlobalRegulatorSubmission_SIASE_Sentinelv4_REGULATORY-RUN-20251014-S03
Folder: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN04_Regulator_Submission_Evidence/frozen_files_GlobalRegulatorSubmission_SIASE_Sentinelv4_REGULATORY-RUN-20251014-S03
Files (13):
1. AUDIT_Evidence_LLM3Anchor_Output_LLM2ValidatorBriefingAuditLogAI.REG.GlobalSubmission.v4_Oct15.25__20251014T193659Z.md
2. AUDIT_Evidence_LLM3Anchor_PromptTemplate_LLM2ValidatorBriefingAuditLogAI.REG.GlobalSubmission.v4_Oct15.25__20251014T193659Z.md
3. LLM2_ValidatorBriefing_SentinelProtocol_AuditLog.AI_Oct12.25__20251014T193659Z.md
4. SIASE_LLM1_OutputPreSynthesis_AuditLogAI.REG.GlobalSubmission.v4_Oct11.25__20251014T193659Z.md
5. SIASE_LLM1_OutputSynthesis_AuditLogAI.REG.GlobalSubmission.v4_Oct11.25__20251014T193659Z.md
6. SIASE_LLM1_PromptTemplate_AuditLogAI.REG.GlobalSubmission.v4_Oct11.25__20251014T193659Z.md
7. SIASE_LLM4_Output_AuditLogAI.REG.GlobalSubmission.v4_Oct09.25__20251014T193659Z.md
8. SIASE_LLM4_Output_AuditLogAI.REG.GlobalSubmission.v4_Oct12.25__20251014T193659Z.md
9. SIASE_LLM4_Output_AuditLogAI.REG.GlobalSubmission.v4_Oct12.25_v2__20251014T193659Z.md
10. SIASE_LLM4_PromptTemplate_AuditLogAI.REG.GlobalSubmission.v4_Oct09.25__20251014T193659Z.md
11. SIASE_LLM4_PromptTemplate_AuditLogAI.REG.GlobalSubmission.v4_Oct12.25_v2__20251014T193659Z.md
12. SIASE_LLM5_Output_AuditLogAI.REG.GlobalSubmission.v4_Oct11.25__20251014T193659Z.md
13. SIASE_LLM5_PromptTemplate_AuditLogAI.REG.GlobalSubmission.v4_Oct11.25__20251014T193659Z.md
=====
👤 Confirm human signature for this batch? [Y]es / [N]o / [S]kip / [Q]uit > y
[LOGGED] AUDIT_BATCH_EVIDENCE_VERIFIED
[HASHER] SHA256: cf617e3e6e6292ab1cdf5dda73753ffd8a50a9e9ae38fee7d55b77cf56ea328d
[2HA] RIPEMD160: 4a7be62c3161f61036f1f61b5d36505005bcfb62
Submitting to remote calendar https://a.pool.opentimesamps.org
Submitting to remote calendar https://b.pool.opentimesamps.org
Submitting to remote calendar https://a.pool.eternitywall.com
Submitting to remote calendar https://ots.btc.catalaxy.com
[OTS] Timeproof created: audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.hash.ots
Canonical freeze complete → logs/frozen_sources/audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.json
on
[?] Immutable Batch Audit Log Registered: logs/audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.json
Batch: AuditLogAI.REG.GlobalSubmission.v4-LOG-USER_PreExecution_FolderView_REGULATORY-RUN-20251014-S04
Folder: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN04_Regulator_Submission_Evidence/frozen_files_USER_PreExecution_FolderView_REGULATORY-RUN-20251014-S04
Files (4):
1. USER_PreExecution_FolderView_Screenshot 2025-10-15 at 6.29.48 amAEST__20251014T193659Z.png
2. USER_PreExecution_FolderView_Screenshot 2025-10-15 at 6.30.04 amAEST__20251014T193659Z.png
3. USER_PreExecution_FolderView_Screenshot 2025-10-15 at 6.31.27 amAEST__20251014T193659Z.png
4. USER_PreExecution_FolderView_Screenshot 2025-10-15 at 6.31.35 amAEST__20251014T193659Z.png
=====
👤 Confirm human signature for this batch? [Y]es / [N]o / [S]kip / [Q]uit > y
[LOGGED] AUDIT_BATCH_EVIDENCE_VERIFIED
[HASHER] SHA256: dc842dee4ea7381c213e18064a7303b0b092c98d1e15e07fe4f95bcfaa810238
[2HA] RIPEMD160: 76a1ae67e00ba9f604a23dc65e4e7b6dc557099
Submitting to remote calendar https://a.pool.opentimesamps.org
Submitting to remote calendar https://b.pool.opentimesamps.org
Submitting to remote calendar https://a.pool.eternitywall.com
Submitting to remote calendar https://ots.btc.catalaxy.com
[OTS] Timeproof created: audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.hash.ots
Canonical freeze complete → logs/frozen_sources/audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.json
on
[?] Immutable Batch Audit Log Registered: logs/audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.json
✓ Done. Batches reviewed: 4; logged: 4; skipped: 0
rosmontos@Fernando's-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy %

Name

Name	Date Modified
audit_log_AuditLogAI.REG.GlobalSubmission.v4015_20251013T034353.831122Z.json	13 Oct 2025 at 2:43 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4016_20251013T034359.007061Z.2ha	13 Oct 2025 at 2:43 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4016_20251013T034359.007061Z.hash	13 Oct 2025 at 2:43 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4016_20251013T034359.007061Z.hash.ots	Yesterday at 2:05 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4016_20251013T034359.007061Z.hash.ots.bak	13 Oct 2025 at 2:44 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4016_20251013T034359.007061Z.json	13 Oct 2025 at 2:43 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4017_20251013T034402.660116Z.2ha	13 Oct 2025 at 2:44 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4017_20251013T034402.660116Z.hash	13 Oct 2025 at 2:44 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4017_20251013T034402.660116Z.hash.ots	Yesterday at 2:05 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4017_20251013T034402.660116Z.hash.ots.bak	13 Oct 2025 at 2:44 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4017_20251013T034402.660116Z.json	13 Oct 2025 at 2:44 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4018_20251013T034406.625037Z.2ha	13 Oct 2025 at 2:44 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4018_20251013T034406.625037Z.hash	13 Oct 2025 at 2:44 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4018_20251013T034406.625037Z.hash.ots	Yesterday at 2:05 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4018_20251013T034406.625037Z.hash.ots.bak	13 Oct 2025 at 2:44 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4018_20251013T034406.625037Z.json	13 Oct 2025 at 2:44 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4019_20251013T034410.571939Z.2ha	13 Oct 2025 at 2:44 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4019_20251013T034410.571939Z.hash	13 Oct 2025 at 2:44 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4019_20251013T034410.571939Z.hash.ots	Yesterday at 2:04 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4019_20251013T034410.571939Z.hash.ots.bak	13 Oct 2025 at 2:44 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4019_20251013T034410.571939Z.json	13 Oct 2025 at 2:44 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4020_20251014T194300.697140Z.2ha	Today at 6:43 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4020_20251014T194300.697140Z.hash	Today at 6:43 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4020_20251014T194300.697140Z.hash.ots	Today at 6:43 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4020_20251014T194300.697140Z.json	Today at 6:43 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4021_20251014T194410.245131Z.2ha	Today at 6:44 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4021_20251014T194410.245131Z.hash	Today at 6:44 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4021_20251014T194410.245131Z.hash.ots	Today at 6:44 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4021_20251014T194410.245131Z.json	Today at 6:44 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.2ha	Today at 6:44 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.hash	Today at 6:44 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.hash.ots	Today at 6:44 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.json	Today at 6:44 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.2ha	Today at 6:44 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.hash	Today at 6:44 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.hash.ots	Today at 6:44 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.json	Today at 6:44 am
Dr_Fernando_Telles_sentinel_ledger.ndjson	13 Oct 2025 at 3:53 pm
frozen_sources	Today at 6:44 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4001_20251012T200349.909951Z.json	13 Oct 2025 at 7:03 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4001_20251012T203709.581616Z.json	13 Oct 2025 at 7:37 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4002_20251012T200410.242945Z.json	13 Oct 2025 at 7:04 am

18. Frozen VALIS Audit Logs

Description:

This screenshot documents the freezing safeguards (chmod 444 read-only permission and chflags uchg immutable flag) applied to copies of evidence files, audit logs and session logs. This results in a locally immutable, read-only artifact that prevents any modification, deletion, or metadata rewrite.

This mechanism was developed following a reproducibility failure identified during early testing (v3.0) reproducibility audit

(AUDIT_REPRODUCIBILITY_FAIL_sha256_ripemd160_v.july4.25_20251012T195229Z.md). The audit revealed that even without visible content changes, secondary RIPEMD-160 validation could fail when certain utilities (e.g.,TextEdit) silently embedded non-visible metadata during file access. Frozen protections now ensures every validated file remains byte-identical for future audits

(AUDIT_REPRODUCIBILITY_PASS_SENTINFRA_PreDeployment_chflags_uchg_lock_integrity_v.july11.25_20251012T195229Z.md).

These frozen artifacts can always be re-hashed to reproduce the original SHA-256 +

RIPEMD-160 pair, ensuring reproducibility and long-term auditability as evidenced by

AUDIT_REPRODUCIBILITY_PASS_sha256_ripemd160_v.july6.25.md_20250719T071359.581941Z

and AUDIT_REPRODUCIBILITY_PASS_SENTINFRA-SES-

S001_sha256_ripemd160_opentimestamps_OTS_v.july25.25.md_20250728T033533.108012Z .

Note: Select testing and validation audits performed and originally registered in v3.1 pre-public deployment provenance ledger, were again logged in regulatory session 01 for full transparency session_log_AuditLogAI.REG.GlobalSubmission.v4001_20251012T200455.617478Z.json . All frozen audit files are reproducible and available to regulators on request.

File Reference: Screenshot 2025-10-15 at 6.44.52 am_20251014T200505Z.png **Timestamp**

(UTC): 20251014T200505Z **SHA-256:** b3aaab7a6d948f27abed334863459d-

cfc508d57959908d0e2f168ef733f1df9a **RIPEMD-160:** 10feed27a06ec535ae6dcf63673bbd-

c64f214607 **OTS File:** Screenshot 2025-10-15 at

6.44.52 am_20251014T200505Z.png.hash.ots **OTS SHA-256:** b78226e468250c24aa7ea58cabfb-

c5dd318ab0a3456349a30eaf39c9ed0a9242 **OTS Bitcoin TXID:** 5c28773f653c441226df3079b-

f1b37c662f6c3643a544840e43098cd2a75502f **Block:** 919084 **Merkle Root (from OTS proof):**

51d14a6b89b363557180530c51fa192a1cdd093edcdc13fc828d2e855c985f18 **Date of Existence**

(UTC): 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

18. Frozen VALIS Audit Logs

Finder File Edit View Go Window Help

AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy --zsh-- 125x66

```

Submitting to remote calendar https://a.pool.eternitywall.com
Submitting to remote calendar https://ots.btc.catalaxy.com
[OTS] Timeproof created: audit_log_AuditLogAI.REG.GlobalSubmission.v4021_20251014T194410.245131Z.hash.ots
Canonical freeze complete → logs/frozen_sources/audit_log_AuditLogAI.REG.GlobalSubmission.v4021_20251014T194410.245131Z.json
on
[!] Immutable Batch Audit Log Registered: logs/audit_log_AuditLogAI.REG.GlobalSubmission.v4021_20251014T194410.245131Z.json
=====
Batch: AuditLogAI.REG.GlobalSubmission.v4-LOG-GlobalRegulatorSubmission_SIASE_Sentinelv4_REGULATORY-RUN-20251014-S03
Folder: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN0
04_Regulator_Submission_Evidence/frozen_files_GlobalRegulatorSubmission_SIASE_Sentinelv4_REGULATORY-RUN-20251014-S03
Files (13):
  1. AUDIT_Evidence_LLM3Anchor_Output_LLM2ValidatorBriefingAuditLogAI.REG.GlobalSubmission.v4_Oct15.25__20251014T193659Z.
  md
  2. AUDIT_Evidence_LLM3Anchor_PromptTemplate_LLM2ValidatorBriefingAuditLogAI.REG.GlobalSubmission.v4_Oct15.25__20251014T
  193659Z.md
  3. LLM2_ValidatorBriefing_SentinelProtocol_AuditLog.AI_Oct12.25__20251014T193659Z.md
  4. SIASE_LLM1_OutputPreSynthesis_AuditLogAI.REG.GlobalSubmission.v4_Oct11.25__20251014T193659Z.md
  5. SIASE_LLM1_OutputSynthesis_AuditLogAI.REG.GlobalSubmission.v4_Oct11.25__20251014T193659Z.md
  6. SIASE_LLM1_PromptTemplate_AuditLogAI.REG.GlobalSubmission.v4_Oct11.25__20251014T193659Z.md
  7. SIASE_LLM4_Output_AuditLogAI.REG.GlobalSubmission.v4_Oct09.25__20251014T193659Z.md
  8. SIASE_LLM4_Output_AuditLogAI.REG.GlobalSubmission.v4_Oct12.25__20251014T193659Z.md
  9. SIASE_LLM4_Output_AuditLogAI.REG.GlobalSubmission.v4_Oct12.25_v2__20251014T193659Z.md
  10. SIASE_LLM4_PromptTemplate_AuditLogAI.REG.GlobalSubmission.v4_Oct09.25__20251014T193659Z.md
  11. SIASE_LLM4_PromptTemplate_AuditLogAI.REG.GlobalSubmission.v4_Oct12.25_v2__20251014T193659Z.md
  12. SIASE_LLM5_Output_AuditLogAI.REG.GlobalSubmission.v4_Oct11.25__20251014T193659Z.md
  13. SIASE_LLM5_PromptTemplate_AuditLogAI.REG.GlobalSubmission.v4_Oct11.25__20251014T193659Z.md
=====
👤 Confirm human signature for this batch? [Y]es / [n]o / [s]kip / [q]uit > y
[LOGGED] AUDIT_BATCH_EVIDENCE_VERIFIED
[HASHED] SHA256: cf617e3e6e6292ab1cdf5dda73753ffd8a50a9e9ae38fee7d55b77cf56ea328d
[2HA] RIPEMD160: 4a7be62c3161f61036f1f61b5d36505005bcfb62
Submitting to remote calendar https://a.pool.opentimesamps.org
Submitting to remote calendar https://b.pool.opentimesamps.org
Submitting to remote calendar https://a.pool.eternitywall.com
Submitting to remote calendar https://ots.btc.catalaxy.com
[OTS] Timeproof created: audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.hash.ots
Canonical freeze complete → logs/frozen_sources/audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.json
on
[!] Immutable Batch Audit Log Registered: logs/audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.json
=====
Batch: AuditLogAI.REG.GlobalSubmission.v4-LOG-USER_PreExecution_FolderView_REGULATORY-RUN-20251014-S04
Folder: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN0
04_Regulator_Submission_Evidence/frozen_files_USER_PreExecution_FolderView_REGULATORY-RUN-20251014-S04
Files (4):
  1. USER_PreExecution_FolderView_Screenshot 2025-10-15 at 6.29.48 amAEST__20251014T193659Z.png
  2. USER_PreExecution_FolderView_Screenshot 2025-10-15 at 6.30.04 amAEST__20251014T193659Z.png
  3. USER_PreExecution_FolderView_Screenshot 2025-10-15 at 6.31.27 amAEST__20251014T193659Z.png
  4. USER_PreExecution_FolderView_Screenshot 2025-10-15 at 6.31.35 amAEST__20251014T193659Z.png
=====
👤 Confirm human signature for this batch? [Y]es / [n]o / [s]kip / [q]uit > y
[LOGGED] AUDIT_BATCH_EVIDENCE_VERIFIED
[HASHED] SHA256: dc842dee4ea7381c213e18064a7303b0b092c98d1e15e07fe4f95bcfaa810238
[2HA] RIPEMD160: 76a1ae67e00ba9f604a23dc65e4e7b6dc557099
Submitting to remote calendar https://a.pool.opentimesamps.org
Submitting to remote calendar https://b.pool.opentimesamps.org
Submitting to remote calendar https://a.pool.eternitywall.com
Submitting to remote calendar https://ots.btc.catalaxy.com
[OTS] Timeproof created: audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.hash.ots
Canonical freeze complete → logs/frozen_sources/audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.json
on
[!] Immutable Batch Audit Log Registered: logs/audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.json
✅ Done. Batches reviewed: 4; logged: 4; skipped: 0
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % []

```

AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy

Name Date Modified Size

- audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.hash.ots Today at 6:44 am
- audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.json Today at 6:44 am
- audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.2ha Today at 6:44 am
- audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.hash Today at 6:44 am
- audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.hash.ots Today at 6:44 am
- audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.json Today at 6:44 am
- Dr_Fernando_Telles_sentinel_ledger.ndjson 13 Oct 2025 at 3:53 pm
- frozen_sources Today at 6:44 am
- audit_log_AuditLogAI.REG.GlobalSubmission.v4001_20251012T200349.909951Z.json 13 Oct 2025 at 7:03 am
- audit_log_AuditLogAI.REG.GlobalSubmission.v4001_20251012T203709.581616Z.json 13 Oct 2025 at 7:37 am
- audit_log_AuditLogAI.REG.GlobalSubmission.v4002_20251012T200410.242945Z.json 13 Oct 2025 at 7:04 am
- audit_log_AuditLogAI.REG.GlobalSubmission.v4003_20251012T200416.115471Z.json 13 Oct 2025 at 7:04 am
- audit_log_AuditLogAI.REG.GlobalSubmission.v4004_20251012T200421.425989Z.json 13 Oct 2025 at 7:04 am
- audit_log_AuditLogAI.REG.GlobalSubmission.v4005_20251012T204508.146233Z.json 13 Oct 2025 at 7:45 am
- audit_log_AuditLogAI.REG.GlobalSubmission.v4005_20251012T205825.509802Z.json 13 Oct 2025 at 7:58 am
- audit_log_AuditLogAI.REG.GlobalSubmission.v4006_20251013T034315.926371Z.json 13 Oct 2025 at 2:43 pm
- audit_log_AuditLogAI.REG.GlobalSubmission.v4007_20251013T034321.999677Z.json 13 Oct 2025 at 2:43 pm
- audit_log_AuditLogAI.REG.GlobalSubmission.v4008_20251013T034326.537572Z.json 13 Oct 2025 at 2:43 pm
- audit_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034331.225725Z.json 13 Oct 2025 at 2:43 pm
- audit_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T045259.167185Z.json 13 Oct 2025 at 3:52 pm
- audit_log_AuditLogAI.REG.GlobalSubmission.v4010_20251013T034334.937409Z.json 13 Oct 2025 at 2:43 pm
- audit_log_AuditLogAI.REG.GlobalSubmission.v4011_20251013T034339.326606Z.json 13 Oct 2025 at 2:43 pm
- audit_log_AuditLogAI.REG.GlobalSubmission.v4012_20251013T034343.353949Z.json 13 Oct 2025 at 2:43 pm
- audit_log_AuditLogAI.REG.GlobalSubmission.v4013_20251013T034346.316493Z.json 13 Oct 2025 at 2:43 pm
- audit_log_AuditLogAI.REG.GlobalSubmission.v4014_20251013T034349.548838Z.json 13 Oct 2025 at 2:43 pm
- audit_log_AuditLogAI.REG.GlobalSubmission.v4015_20251013T034353.831122Z.json 13 Oct 2025 at 2:43 pm
- audit_log_AuditLogAI.REG.GlobalSubmission.v4016_20251013T034359.007061Z.json 13 Oct 2025 at 2:43 pm
- audit_log_AuditLogAI.REG.GlobalSubmission.v4017_20251013T034402.660116Z.json 13 Oct 2025 at 2:44 pm
- audit_log_AuditLogAI.REG.GlobalSubmission.v4018_20251013T034406.625037Z.json 13 Oct 2025 at 2:44 pm
- audit_log_AuditLogAI.REG.GlobalSubmission.v4019_20251013T034410.571939Z.json 13 Oct 2025 at 2:44 pm
- audit_log_AuditLogAI.REG.GlobalSubmission.v4020_20251014T194300.697140Z.json Today at 6:43 am
- audit_log_AuditLogAI.REG.GlobalSubmission.v4021_20251014T194410.245131Z.json Today at 6:44 am
- audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.json Today at 6:44 am
- audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.json Today at 6:44 am
- session_logs Today at 6:36 am
- frozen_sources 13 Oct 2025 at 2:45 pm
- session_log_AuditLogAI.REG.GlobalSubmission.v4001_20251012T200455.617478Z.json 13 Oct 2025 at 7:04 am
- session_log_AuditLogAI.REG.GlobalSubmission.v4005_20251012T204520.780899Z.json 13 Oct 2025 at 7:45 am
- session_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.json 13 Oct 2025 at 2:45 pm
- session_log_AuditLogAI.REG.GlobalSubmission.v4001_20251012T200455.617478Z.2ha 13 Oct 2025 at 7:04 am
- session_log_AuditLogAI.REG.GlobalSubmission.v4001_20251012T200455.617478Z.hash 13 Oct 2025 at 7:04 am
- session_log_AuditLogAI.REG.GlobalSubmission.v4001_20251012T200455.617478Z.hash.ots 13 Oct 2025 at 7:05 pm
- session_log_AuditLogAI.REG.GlobalSubmission.v4001_20251012T200455.617478Z.hash.ots.bak 13 Oct 2025 at 7:04 am

4 of 250 selected, 656.02 GB available

19. Session Logger Execution

Description:

Execution of `session_logger.py`, compiling all validated audit logs into a single, consolidated session evidence record. Outputs `session_log__.json` + sidecars (`.hash`, `.2ha` and frozen copies).

File Reference: Screenshot 2025-10-15 at 6.45.24 am `20251014T200505Z.png` **Timestamp**

(UTC): `20251014T200505Z` **SHA-256:** `dd98ba9058e14586ea374e510f8fd-`

`b19554f589327e515041f4a52a3e26a1636` **RIPEMD-160:** `ecea70b2c1fb96debc6db252f-`

`d3e032e9a92a9a2` **OTS File:** Screenshot 2025-10-15 at

`6.45.24 am` `20251014T200505Z.png.hash.ots` **OTS SHA-256:** `0409b-`

`f7356fe6825630a7c649ad3ecf8359882f96238c6c8cfbc803a86efba16` **OTS Bitcoin TXID:**

`5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f` **Block:** `919084` **Merkle**

Root (from OTS proof): `51d14a6b89b363557180530c51fa192a1cdd093edcd-`

`c13fc828d2e855c985f18` **Date of Existence (UTC):** `2025-10-14T20:08:06Z` (*TXID broadcast*

time confirming file existence as of Bitcoin block 919084.)

19. Session Logger Execution

AUDITLOG.AI0047DOSSIER

Finder File Edit View Go Window Help

AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy -- zsh -- 125x66

```
3. LLM2_ValidatorBriefing_SentinelProtocol_AuditLog.AI_Oct12.25__20251014T193659Z.md
4. SIASE_LLM1_OutputPreSynthesis_AuditLogAI.REG.GlobalSubmission.v4_Oct11.25__20251014T193659Z.md
5. SIASE_LLM1_OutputSynthesis_AuditLogAI.REG.GlobalSubmission.v4_Oct11.25__20251014T193659Z.md
6. SIASE_LLM1_PromptTemplate_AuditLogAI.REG.GlobalSubmission.v4_Oct11.25__20251014T193659Z.md
7. SIASE_LLM4_Output_AuditLogAI.REG.GlobalSubmission.v4_Oct09.25__20251014T193659Z.md
8. SIASE_LLM4_Output_AuditLogAI.REG.GlobalSubmission.v4_Oct12.25__20251014T193659Z.md
9. SIASE_LLM4_Output_AuditLogAI.REG.GlobalSubmission.v4_Oct12.25_v2__20251014T193659Z.md
10. SIASE_LLM4_PromptTemplate_AuditLogAI.REG.GlobalSubmission.v4_Oct09.25__20251014T193659Z.md
11. SIASE_LLM4_PromptTemplate_AuditLogAI.REG.GlobalSubmission.v4_Oct12.25_v2__20251014T193659Z.md
12. SIASE_LLM5_Output_AuditLogAI.REG.GlobalSubmission.v4_Oct11.25__20251014T193659Z.md
13. SIASE_LLM5_PromptTemplate_AuditLogAI.REG.GlobalSubmission.v4_Oct11.25__20251014T193659Z.md
=====
Confirm human signature for this batch? [Y]es / [n]o / [s]kip / [q]uit > y
[LOGGED] AUDIT_BATCH_EVIDENCE_VERIFIED
[HASHED] SHA256: cf617e3e6e6292ab1cdf5dda73753ffd8a50a9e9ae38fee7d55b77cf56ea328d
[2HA] RIPEMD160: 4a7be62c3161f61036f1f61b5d36505005bcfb62
Submitting to remote calendar https://a.pool.opentimes.org
Submitting to remote calendar https://b.pool.opentimes.org
Submitting to remote calendar https://a.pool.eternitywall.com
Submitting to remote calendar https://ots.btc.catalaxy.com
[OTS] Timeproof created: audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.hash.ots
Canonical freeze complete → logs/frozen_sources/audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.json
on
[?] Immutable Batch Audit Log Registered: logs/audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.json
=====
Batch: AuditLogAI.REG.GlobalSubmission.v4-LOG-USER_PreExecution_FolderView_REGULATORY-RUN-20251014-S04
Folder: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN0
04_Regulator_Submission_Evidence/frozen_files_USER_PreExecution_FolderView_REGULATORY-RUN-20251014-S04
Files (4):
1. USER_PreExecution_FolderView_Screenshot 2025-10-15 at 6.29.48 amAEST__20251014T193659Z.png
2. USER_PreExecution_FolderView_Screenshot 2025-10-15 at 6.30.04 amAEST__20251014T193659Z.png
3. USER_PreExecution_FolderView_Screenshot 2025-10-15 at 6.31.27 amAEST__20251014T193659Z.png
4. USER_PreExecution_FolderView_Screenshot 2025-10-15 at 6.31.35 amAEST__20251014T193659Z.png
=====
Confirm human signature for this batch? [Y]es / [n]o / [s]kip / [q]uit > y
[LOGGED] AUDIT_BATCH_EVIDENCE_VERIFIED
[HASHED] SHA256: dc842dee4ea7381c213e18064a7303b0b092c98d1e15e07fe4f95bcfaa810238
[2HA] RIPEMD160: 76a1ae67e00ba9f604a23dc65e4e7b6dc557099
Submitting to remote calendar https://a.pool.opentimes.org
Submitting to remote calendar https://b.pool.opentimes.org
Submitting to remote calendar https://a.pool.eternitywall.com
Submitting to remote calendar https://ots.btc.catalaxy.com
[OTS] Timeproof created: audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.hash.ots
Canonical freeze complete → logs/frozen_sources/audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.json
on
[?] Immutable Batch Audit Log Registered: logs/audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.json
Done. Batches reviewed: 4; logged: 4; skipped: 0
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 session_logger.py
[/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/session_logger.py:95: DeprecationWarning: datetime.datetime.utcnow() is deprecated and scheduled for removal in a future version. Use timezone-aware objects to represent datetimes in UTC: datetime.datetime.now(datetime.UTC).
    session_timestamp = datetime.utcnow().isoformat().replace(":", "").replace("-", "") + "Z"
[!] Session file written: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/session_logs/session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.json
[?] SHA256: 2b44af1d4888f598c89dec992b6ce31d6fc0daab7a2480a3efb07d44bf3eb055
[2HA] RIPEMD160: f63523aba83a6b47c8fbb5dd942d20ef6aa7ee3e
Submitting to remote calendar https://a.pool.opentimes.org
Submitting to remote calendar https://b.pool.opentimes.org
Submitting to remote calendar https://a.pool.eternitywall.com
Submitting to remote calendar https://ots.btc.catalaxy.com
[!] OTS created: session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.hash.ots
Frozen session → /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/session_logs/frozen_sources/session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.json
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % ]
```

AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy -- zsh -- 125x66

```
Name
audit_log_AuditLogAI.REG.GlobalSubmission.v4012_20251013T034343.353949Z.json
audit_log_AuditLogAI.REG.GlobalSubmission.v4013_20251013T034346.316493Z.json
audit_log_AuditLogAI.REG.GlobalSubmission.v4014_20251013T034349.548838Z.json
audit_log_AuditLogAI.REG.GlobalSubmission.v4015_20251013T034353.831122Z.json
audit_log_AuditLogAI.REG.GlobalSubmission.v4016_20251013T034359.007061Z.json
audit_log_AuditLogAI.REG.GlobalSubmission.v4017_20251013T034402.660116Z.json
audit_log_AuditLogAI.REG.GlobalSubmission.v4018_20251013T034406.625037Z.json
audit_log_AuditLogAI.REG.GlobalSubmission.v4019_20251013T034410.571939Z.json
audit_log_AuditLogAI.REG.GlobalSubmission.v4020_20251014T194300.697140Z.json
audit_log_AuditLogAI.REG.GlobalSubmission.v4021_20251014T194410.245131Z.json
audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.json
audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.json
session_logs
frozen_sources
session_log_AuditLogAI.REG.GlobalSubmission.v4001_20251012T200455.617478Z.json
session_log_AuditLogAI.REG.GlobalSubmission.v4005_20251012T204520.780899Z.json
session_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.json
session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.json
session_log_AuditLogAI.REG.GlobalSubmission.v4001_20251012T200455.617478Z.2ha
session_log_AuditLogAI.REG.GlobalSubmission.v4001_20251012T200455.617478Z.hash
session_log_AuditLogAI.REG.GlobalSubmission.v4001_20251012T200455.617478Z.hash.ots
session_log_AuditLogAI.REG.GlobalSubmission.v4001_20251012T200455.617478Z.hash.ots.bak
session_log_AuditLogAI.REG.GlobalSubmission.v4001_20251012T200455.617478Z.json
session_log_AuditLogAI.REG.GlobalSubmission.v4005_20251012T204520.780899Z.2ha
session_log_AuditLogAI.REG.GlobalSubmission.v4005_20251012T204520.780899Z.hash
session_log_AuditLogAI.REG.GlobalSubmission.v4005_20251012T204520.780899Z.hash.ots
session_log_AuditLogAI.REG.GlobalSubmission.v4005_20251012T204520.780899Z.hash.ots.bak
session_log_AuditLogAI.REG.GlobalSubmission.v4005_20251012T204520.780899Z.json
session_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.2ha
session_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.hash
session_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.hash.ots
session_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.hash.ots.bak
session_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.json
session_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.2ha
session_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.hash
session_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.hash.ots
session_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.hash.ots.bak
session_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.json
session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.2ha
session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.hash
session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.hash.ots
session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.hash.ots.bak
session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.json
session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.2ha
session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.hash
session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.hash.ots
session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.hash.ots.bak
session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.json
ots_upgrade_log_20251014T030453Z.json
ots_upgrade_log_20251014T030453Z.log
outgoing
anchored_receipts
receipt_anchored_AuditLogAI.REG.GlobalSubmission.e18d6086063aa340f5c66a5e88a9_918769.json
receipt_anchored_AuditLogAI.REG.GlobalSubmission.bb15b0da83bb03a151c8100e430e_018772.json
1 of 255 selected, 656 GB available
```

20. Session Log View and Prior Session Anchor Audit Log Reference

Description:

This screenshot shows the compiled session log (session_log_.json), displaying the built-in chain-of-custody enforcement between consecutive sessions. Each new session is cryptographically linked to the prior one through its recorded TXID, OP_RETURN payload, and block height. This continuity is CME enforced: a new session cannot start unless the previous session's anchor event is confirmed and logged. This mechanism provides an immutable, verifiable bridge across the reproducibility chain (e.g., Session 016 → 020), ensuring end-to-end traceability, cross-session reproducibility, and continuous integrity across the anchored audit lineage.

Importantly, testing and validation v3.0 reproducibility audits revealed that cryptographic hashes and transaction IDs cannot be consistently recalled by AI (LLM1) with full fidelity

(AUDIT_REPRODUCIBILITY_FAIL_hash_recalc_LLM1_v.july1.25.md__20250719T071359.583603Z).

AuditLog.AI is therefore built as a deterministic software (not AI adjudication), marked by developers such as `hashvalidatorblock.py` that enforce payload parity to session log hashes

(AUDIT_REPRODUCIBILITY_PASS_hashvalidatorblock.py_patch_v.july1.25.md__20250719T071359.578149Z).

File Reference: Screenshot 2025-10-15 at 6.45.44 am__20251014T200505Z.png **Timestamp**

(UTC): 20251014T200505Z **SHA-256:** 615a9f56784b6206bf6f72a4fa0905ffb620aa90ccb58d-

d03a5537e4135479c4 **RIPEMD-160:** db3cc5132cac33bad4d7c2c380b2ebbb0e41ef83 **OTS File:**

Screenshot 2025-10-15 at 6.45.44 am__20251014T200505Z.png.hash.ots **OTS SHA-256:**

dad2953105d1c0e51237041323c111e71026c190220733feaeb195dd1f98d501 **OTS Bitcoin TXID:**

5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f **Block:** 919084 **Merkle**

Root (from OTS proof): 51d14a6b89b363557180530c51fa192a1cdd093edcd-

c13fc828d2e855c985f18 **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast*

time confirming file existence as of Bitcoin block 919084.)

20. Session Log View and Prior Session Anchor Audit Log Reference

Code File Edit Selection View Go Run Terminal Window Help

AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy -- zsh -- 125x66

```

3. LLM2_ValidatorBriefing_SentinelProtocol_AuditLog.AI_Oct12.25__20251014T193659Z.md
4. SIASE_LLM1_OutputPreSynthesis_AuditLogAI.REG.GlobalSubmission.v4_Oct11.25__20251014T193659Z.md
5. SIASE_LLM1_OutputSynthesis_AuditLogAI.REG.GlobalSubmission.v4_Oct11.25__20251014T193659Z.md
6. SIASE_LLM1_PromptTemplate_AuditLogAI.REG.GlobalSubmission.v4_Oct11.25__20251014T193659Z.md
7. SIASE_LLM4_Output_AuditLogAI.REG.GlobalSubmission.v4_Oct09.25__20251014T193659Z.md
8. SIASE_LLM4_Output_AuditLogAI.REG.GlobalSubmission.v4_Oct12.25__20251014T193659Z.md
9. SIASE_LLM4_Output_AuditLogAI.REG.GlobalSubmission.v4_Oct12.25__20251014T193659Z.md
10. SIASE_LLM4_PromptTemplate_AuditLogAI.REG.GlobalSubmission.v4_Oct12.25__20251014T193659Z.md
11. SIASE_LLM4_PromptTemplate_AuditLogAI.REG.GlobalSubmission.v4_Oct12.25__20251014T193659Z.md
12. SIASE_LLM5_Output_AuditLogAI.REG.GlobalSubmission.v4_Oct12.25__20251014T193659Z.md
13. SIASE_LLM5_PromptTemplate_AuditLogAI.REG.GlobalSubmission.v4_Oct12.25__20251014T193659Z.md
=====  

Confirm human signature for this  

[LOGGED] AUDIT_BATCH_EVIDENCE_VERIF  

[HASHED] SHA256: cf617e3e6e6292ab1c  

[2HA] RIPEMD160: 4a7be62c3161f61036  

Submitting to remote calendar https  

[OTS] Timeproof created: audit_log/  

Canonical freeze complete → logs/  

on  

[?] Immutable Batch Audit Log Regis  

=====  

Batch: AuditLogAI.REG.GlobalSubmission  

Folder: /Users/rosmontos/AuditLog.AI  

04_Regulator_Submission_Evidence/fro  

Files (4):  

1. USER_PreExecution_FolderView  

2. USER_PreExecution_FolderView  

3. USER_PreExecution_FolderView  

4. USER_PreExecution_FolderView  

=====  

Confirm human signature for this  

[LOGGED] AUDIT_BATCH_EVIDENCE_VERIF  

[HASHED] SHA256: dc842dee4ea7381c21  

[2HA] RIPEMD160: 76a1ae67e00ba9f604  

Submitting to remote calendar https  

Submitting to remote calendar https  

Submitting to remote calendar https  

[OTS] Timeproof created: audit_log/  

Canonical freeze complete → logs/  

on  

[?] Immutable Batch Audit Log Regis  

=====  

Done. Batches reviewed: 4; logged  

rosmontos@Fernandos-Mac-Studio Audit  

/Users/rosmontos/AuditLog.AI_UserSim  

ime.datetime.utcnow() is deprecated  

tetimes in UTC: datetime.datetime.n  

session_timestamp = datetime.utcnow  

[~] Session file written: /Users/ro  

sion_log_AuditLogAI.REG.GlobalSubmi  

[?] SHA256: 2b44af1d4888f598c89dec  

[2HA] RIPEMD160: f63523aba83a6b47c8  

Submitting to remote calendar https  

Submitting to remote calendar https  

Submitting to remote calendar https  

[?] OTS created: session_log_AuditL  

Frozen session → /Users/rosmontos  

ources/session_log_AuditLogAI.REG.Gl  

rosmontos@Fernandos-Mac-Studio Audit

```

AuditLog.AI_UserSimulation_Sen... Name

Name	Date Modified
audit_log_AuditLogAI.REG.GlobalSubmission.v4012_20251013T034343.353949Z.json	13 Oct 2025 at 2:43 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4013_20251013T034346.316493Z.json	13 Oct 2025 at 2:43 pm
REG.GlobalSubmission.v4014_20251013T034349.548838Z.json	13 Oct 2025 at 2:43 pm
REG.GlobalSubmission.v4015_20251013T034353.831122Z.json	13 Oct 2025 at 2:43 pm
REG.GlobalSubmission.v4016_20251013T034359.007061Z.json	13 Oct 2025 at 2:43 pm
REG.GlobalSubmission.v4017_20251013T034402.660116Z.json	13 Oct 2025 at 2:44 pm
REG.GlobalSubmission.v4018_20251013T034406.625037Z.json	13 Oct 2025 at 2:44 pm
REG.GlobalSubmission.v4019_20251013T034410.571939Z.json	13 Oct 2025 at 2:44 pm
REG.GlobalSubmission.v4020_20251014T194300.697140Z.json	Today at 6:43 am
REG.GlobalSubmission.v4021_20251014T194410.245131Z.json	Today at 6:44 am
REG.GlobalSubmission.v4022_20251014T194419.495550Z.json	Today at 6:44 am
REG.GlobalSubmission.v4023_20251014T194425.352577Z.json	Today at 6:44 am
ogAI.REG.GlobalSubmission.v4001_20251012T200455.617478Z.json	13 Oct 2025 at 7:04 am
ogAI.REG.GlobalSubmission.v4005_20251012T204520.780899Z.json	13 Oct 2025 at 7:45 am
ogAI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.json	13 Oct 2025 at 2:45 pm
ogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.json	Today at 6:45 am
AI.REG.GlobalSubmission.v4001_20251012T200455.617478Z.2ha	13 Oct 2025 at 7:04 am
AI.REG.GlobalSubmission.v4001_20251012T200455.617478Z.hash	13 Oct 2025 at 7:04 am
AI.REG.GlobalSubmission.v4001_20251012T200455.617478Z.hash.ots	Yesterday at 2:05 pm
AI.REG.GlobalSubmission.v4001_20251012T200455.617478Z.hash.ots.bak	13 Oct 2025 at 7:04 am
AI.REG.GlobalSubmission.v4001_20251012T200455.617478Z.json	13 Oct 2025 at 7:04 am
AI.REG.GlobalSubmission.v4005_20251012T204520.780899Z.2ha	13 Oct 2025 at 7:45 am
AI.REG.GlobalSubmission.v4005_20251012T204520.780899Z.hash	13 Oct 2025 at 7:45 am
AI.REG.GlobalSubmission.v4005_20251012T204520.780899Z.hash.ots	Yesterday at 2:05 pm
AI.REG.GlobalSubmission.v4005_20251012T204520.780899Z.hash.ots.bak	13 Oct 2025 at 7:45 am
AI.REG.GlobalSubmission.v4005_20251012T204520.780899Z.json	13 Oct 2025 at 7:45 am
AI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.2ha	13 Oct 2025 at 2:45 pm
AI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.hash	13 Oct 2025 at 2:45 pm
AI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.hash.ots	Yesterday at 2:05 pm
AI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.hash.ots.bak	13 Oct 2025 at 2:45 pm
AI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.json	13 Oct 2025 at 2:45 pm
AI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.2ha	Today at 6:45 am
AI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.hash	Today at 6:45 am
AI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.hash.ots	Today at 6:45 am
AI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.json	Today at 6:45 am
IT030453Z.json	Yesterday at 2:05 pm
IT030453Z.log	Yesterday at 2:05 pm
itLogAI.REG.GlobalSubmission.e18d6086063aa340f5c66a5e88a9_918769.json	13 Oct 2025 at 3:52 pm
itLogAI.REG.GlobalSubmission.bb15b9da83bb93a151c81ccc430c_018772.json	13 Oct 2025 at 7:36 am
	12 Oct 2025 at 7:58 pm

Ln 1, Col 1 Spaces: 4 UTF-8 LF {} JSON



21. HMAC (Layer 2) + Reviewer Login

Description

This screenshot shows the Layer-2 authentication interface within the AuditLog.AI e-Signature Gate. The HMAC-SHA256 challenge provides institutional login verification and license control for authorized enterprise users. When a valid organization access code is entered, the client and server perform a symmetric hash comparison against the AuditLog.AI server-side secret, establishing a temporary authenticated session.

This step ensures that only credentialed, paying institutions can access the e-signature environment. The session is time-bound (48 hours) and IP-anchored to the originating network; any change in IP or expiry automatically invalidates the token. The HMAC event is recorded in the audit trail as the institutional component of the two-factor signature system requirement.

File Reference: AuditLog.AI_WebInterface_HMAC-SHA256__20251013T034046Z.png **Timestamp (UTC):** 20251013T034046Z **SHA-256:** 82997a7b21fa553f7b-f8443c0431f819d17b072ba13da9168b9fcfe657d386c5 **RIPEMD-160:** 34c35fe05bb802883ecfd-c3a73d07d9d29d5772d **OTS File:** AuditLog.AI_WebInterface_HMAC-SHA256__20251013T034046Z.png.hash.ots **OTS SHA-256:** a952e9b292a426170a063a9fbfd-d294a8b752188a442b3b1d52a12ec2d8e8ff6 **OTS Bitcoin TXID:** eabcee5e6ffffeb6fc6b3c7807165ae863b383fb8459aa0d311726026302ef0e9 **Block:** 918813 **Merkle Root (from OTS proof):** f161f7b058a1156af142f50a5dc6952b97d2dc897d4e912d6b68dd8119704744 **Date of Existence (UTC):** 2025-10-12T17:07:56Z *(TXID broadcast time confirming file existence as of Bitcoin block 918813.)*

21. HMAC (Layer 2) + Reviewer Login

Enter organization access code

Organization key (e.g., SENTINFRA)

SENTINFRA

Access code

enter your org's code

Unlock

Your code is verified using HMAC-SHA256 with a server secret. If the code is valid for the given org, a short-lived access cookie is set.

22. e-Signature Gate (Web UI Access)

Description:

The AuditLog.AI e-Signature Gate is the controlled interface that authorizes every blockchain-anchoring event. It enforces a multi-layer electronic signature sequence, combining institutional and individual authentication under full human control.

Layer 1 – Individual Ed25519 Digital Signature A personal keypair unique to each reviewer cryptographically binds the signer's identity to the audit session and writes this signature into the immutable audit log.

Layer 2 – Institutional HMAC-SHA256 Authentication Verifies that the signing session originates from a licensed organization by validating the access code against the AuditLog.AI institutional secret. This constitutes the second factor of authentication and confirms enterprise authorization.

Layer 3 – Fraud-Prevention, human-activity verification (Non-Biometric) Layer 3 is an optional, configurable control designed to distinguish genuine human activity from automated or scripted input. It operates under a Zero-Custody data flow and does not capture or process identity, personal traits, or biometrics—therefore it does not constitute biometric authentication.

When enabled, minimal motion vectors (cursor or stroke timing data) are transmitted without identifiers to a date-locked, version-controlled LLM1 model operating under validated change control. The model performs a deterministic, evidence-based comparison against fixed human-pattern thresholds and returns a binary PASS / FAIL signal.

- Default mode (Regulatory / Production): Layer 3 operates in advisory mode. All results are logged but do not block anchoring.
- Strict mode (Enterprise / Pilot): Anchoring pauses on FAIL and requires a deterministic secondary verification (retry, OTP re-auth, or supervisor co-sign).
- The reviewer may repeat the signing attempt under the same authenticated Ed25519 + HMAC session; every attempt and result is recorded in the session log.

Layer 3 outputs are version-locked, non-adaptive, and retained for audit transparency. Its use strengthens fraud-prevention controls but is not required for regulatory compliance. Layers 1 and 2 alone (user Ed25519 + institutional HMAC) satisfy all 21 CFR Part 11 and Annex 11 e-signature requirements.

File Reference: Screenshot 2025-10-15 at 6.49.35 am `20251014T200505Z.png` **Timestamp**

(UTC): 20251014T200505Z **SHA-256:** `3ba9dc776084fc8b6b5e0f40dcbbd2b2ed-`

`b5143d6037dee78b4b79774e90b49` **RIPEMD-160:** `9a84b52e59a8b28d2efd5386ba066e358ec5a1a8`

OTS File: Screenshot 2025-10-15 at 6.49.35 am `20251014T200505Z.png.hash.ots` **OTS**

SHA-256: `9713b2e0aa699eaf2e251abce001922fd0ffe3ec8aa3747d9d12634509eb3a79` **OTS Bitcoin**

TXID: `5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f` **Block:** `919084`

Merkle Root (from OTS proof): `51d14a6b89b363557180530c51fa192a1cdd093edcd-`

`c13fc828d2e855c985f18` **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

22. e-Signature Gate (Web UI Access)

The screenshot shows a web browser window with the URL `auditlog-ai.vercel.app/test-signature`. The page title is "AuditLog.AI — Human Signature Gate (Hidden Test)". The instructions say: "Sign in the box, then submit. We post feature vectors + hashes (no raw biometrics) to /api/signature/submit." Below the instructions are four input fields: "Name" (Dr. Fernando Telles), "Verifier/User meta_id" (DRTELLES), "Session meta_id" (AuditLogAI.REG.GlobalSubmission.v4016), and "Input device" (Auto (detect)). A large empty rectangular area is provided for signing. Below it, a note says: "Use mouse/trackpad/stylus. Pen up/down creates multiple strokes. 'Clear' to restart." At the bottom are several buttons: "Verify & Submit" (highlighted in dark blue), "Clear", "Copy Response JSON", "Copy Features JSON", "Download PNG", "Download vectors.json", "Download bundle.json", and "Download gate_receipt.json". Below these buttons is a section titled "Consent & Legal Proof (client preview)" containing a statement about authorizing the session and its purpose. It also includes a "sha256_challenge (client)" value: `68c39b0d7734a482db54344efc81cc12f60f453503db2fb516473157dd200fb7`. A "Response" section shows the value `null`.

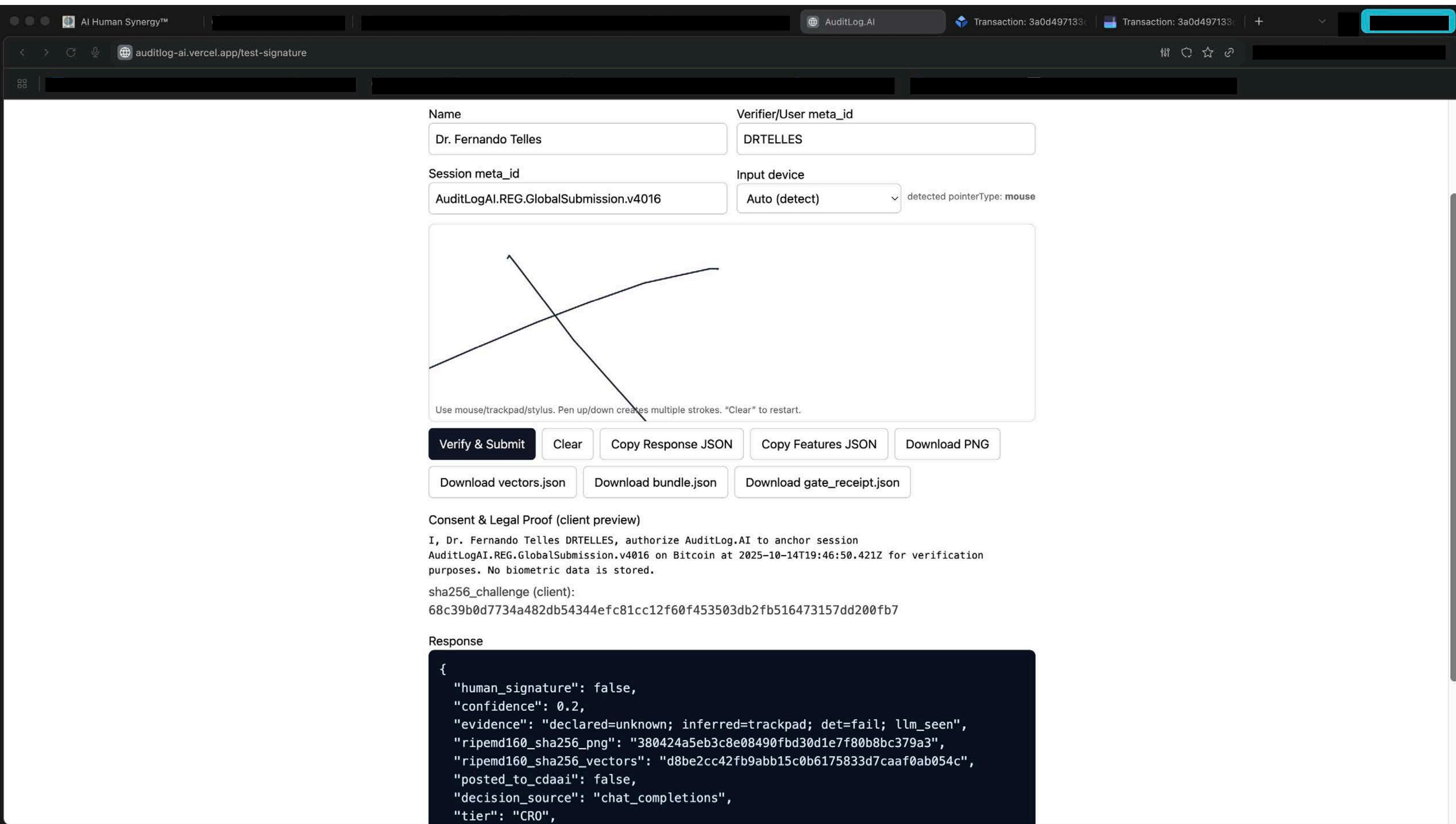
23. Signature Validation (FAIL Test)

Description:

Strict mode (Enterprise / Pilot) demonstrating a negative-control test in which the Layer 3 human-activity verification returns a confidence score below threshold, producing a deterministic FAIL and blocking creation of the gate_job. The failed attempt is time-stamped and logged in zero-custody Vercel telemetry; no artifacts are generated or transmitted downstream.

File Reference: Screenshot 2025-10-15 at 6.49.56 am__20251014T200505Z.png **Timestamp (UTC):** 20251014T200505Z **SHA-256:** 3f31d4e9c4c6303f14d23fe3d4c1e5ce96fe27e7a4ffb-be581d8cc337bd8fb9d **RIPEMD-160:** d10ee26cce112c80ef906f921d642f10fbe42f0 **OTS File:** Screenshot 2025-10-15 at 6.49.56 am__20251014T200505Z.png.hash.ots **OTS SHA-256:** 2c93a32c8f9d6534aa8e865fcc97ea059185178b6dd99b7fac4c874156c04f99 **OTS Bitcoin TXID:** 5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f **Block:** 919084 **Merkle Root (from OTS proof):** 51d14a6b89b363557180530c51fa192a1cdd093edcd-c13fc828d2e855c985f18 **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

23. Signature Validation (FAIL Test)



24. Gate Job Not Generated by False Signature

Description:

Post-failure screenshot showing that no gate_job file was produced and no transmission occurred to CDA AI. Blockchain anchoring cannot proceed until a valid e-signature passes all layers. All failed validation events remain recorded within the zero-custody telemetry log, while only successful, human-verified e-signature events generate a gate_job JSON for regulated anchoring.

File Reference: Screenshot 2025-10-15 at 6.49.56 am (2) 20251014T200505Z.png

Timestamp (UTC): 20251014T200505Z **SHA-256:** 1725b1e60d3aef30c8f3f89f5f8f00280334db69651d655e5f7551d5d5c39be2 **RIPEMD-160:** 06ea45793c609d6674008ddb9475c8a44bcb509e

OTS File: Screenshot 2025-10-15 at 6.49.56 am (2) 20251014T200505Z.png.hash.ots **OTS**

SHA-256: 560da5db370d96ee143586d16173de35edabc059f58807e6a5f24de8a91fffffb **OTS Bitcoin**

TXID: 5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f **Block:** 919084

Merkle Root (from OTS proof): 51d14a6b89b363557180530c51fa192a1cdd093edcd-

c13fc828d2e855c985f18 **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

24. Gate Job Not Generated by False Signature

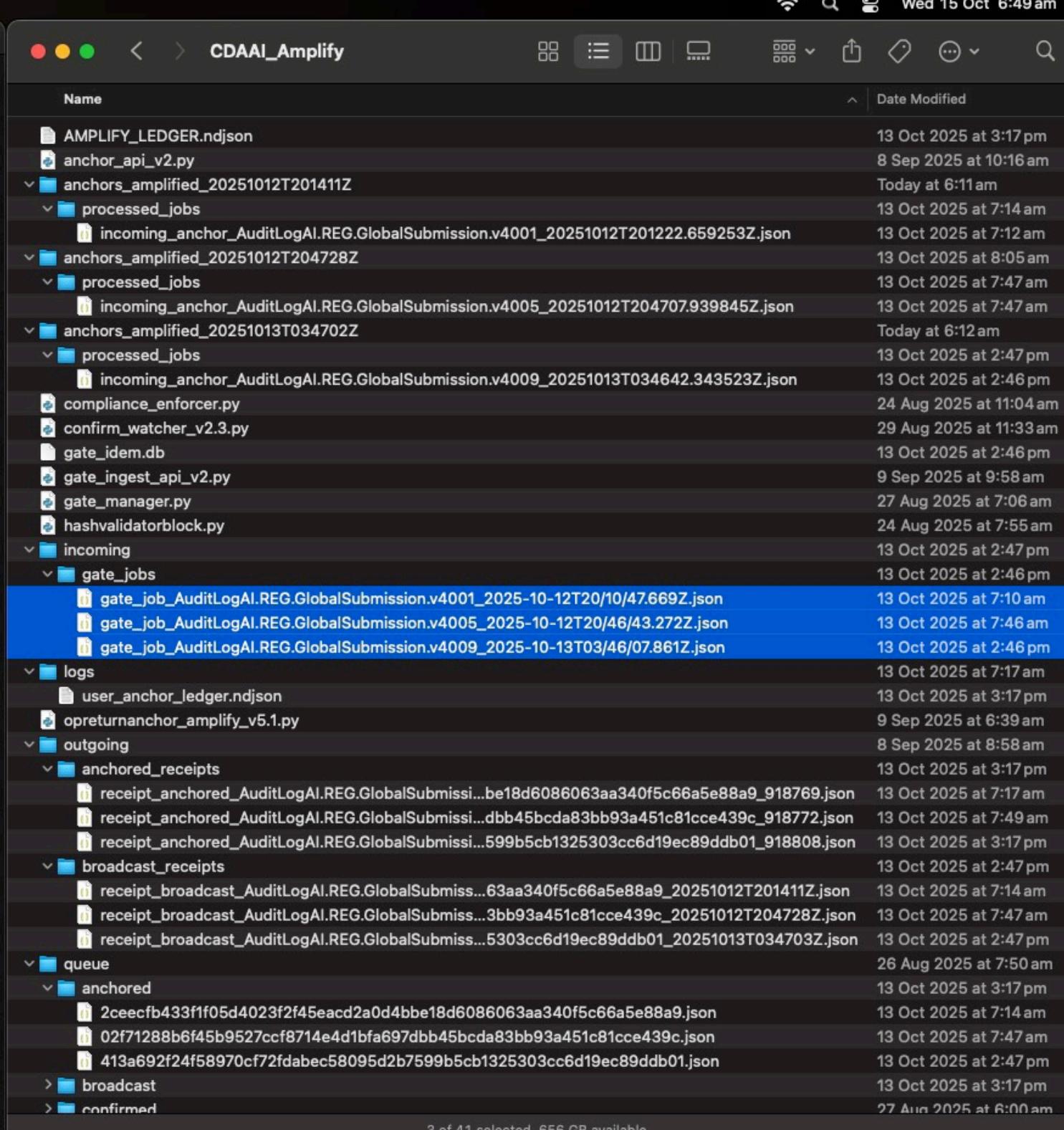
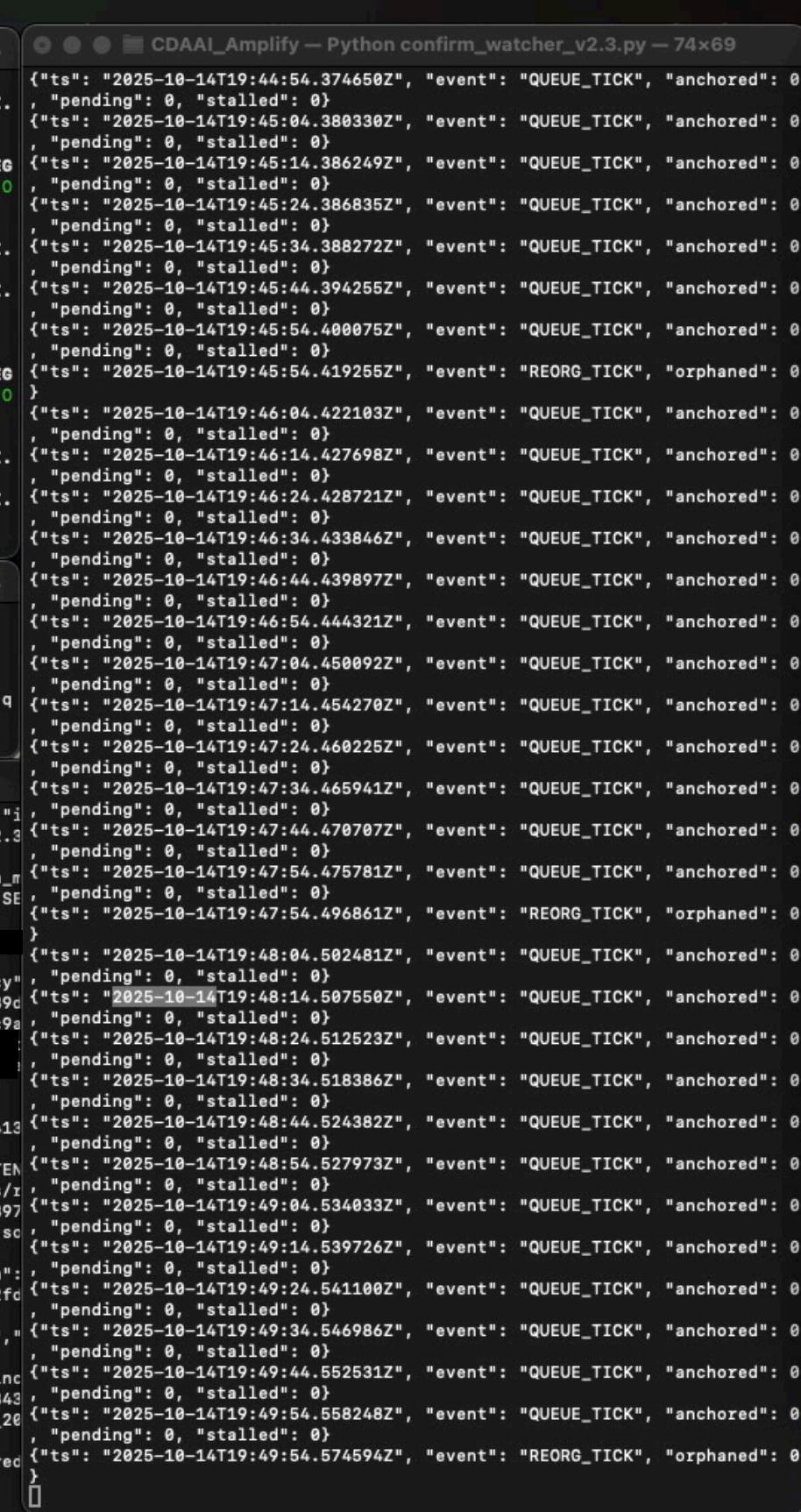
AUDITLOG.AI0057DOSSIER

```
Finder File Edit View Go Window Help
CDAAI_Amplify — Python -m uvicorn gate_ingest_api_v2:APP...
REG.GlobalSubmission.v4001      200 OK
INFO:                           - "GET /v1/receipt/bundle?meta_id=AuditLogAI
REG.GlobalSubmission.v4001 HTTP/1.1" 200 OK
INFO:                           - "POST /v1/gate/ingest" 200 OK
INFO:                           "GET /v1/gate/verify?meta_id=AuditLogAI.RE
.GlobalSubmission.v4005          200 OK
K
INFO:                           - "POST /v1/anchor/handoff" 200 OK
INFO:                           - "GET /v1/receipt/bundle?meta_id=AuditLogAI
REG.GlobalSubmission.v4005 HTTP/1.1" 200 OK
INFO:                           - "GET /v1/receipt/bundle?meta_id=AuditLogAI
REG.GlobalSubmission.v4005      200 OK
INFO:                           - "POST /v1/anchor/handoff" 200 OK
INFO:                           - "POST /v1/receipt/bundle?meta_id=AuditLogAI
INFO:                           - "GET /v1/receipt/bundle?meta_id=AuditLogAI
.GlobalSubmission.v4009          200 OK
K
INFO:                           - "POST /v1/anchor/handoff" 200 OK
INFO:                           - "GET /v1/receipt/bundle?meta_id=AuditLogAI
REG.GlobalSubmission.v4009 HTTP/1.1" 200 OK
INFO:                           - "GET /v1/receipt/bundle?meta_id=AuditLogAI
REG.GlobalSubmission.v4009      200 OK
```

```
INFO:     Started server process [REDACTED]
INFO:     Waiting for application startup.
INFO:     Application startup complete.
INFO:     Uvicorn running on http://[REDACTED] (Press CTRL+C to quit)

```

```
[CDAAI_Amplify -- zsh -- 70x34
{"ts":"2025-10-13T03:47:02.854092Z","event":"JOB_DISCOVERED","file":ncoming_anchor_AuditLogAI.REG.GlobalSubmission.v4009_20251013T03464243523Z.json","kind":"json"} {"ts":"2025-10-13T03:47:02.854163Z","event":"JOB_VALIDATED","session_eta_id":"AuditLogAI.REG.GlobalSubmission.v4009","payload":SENTELSSION|7e37072aeb1f857fb3245d9cdadc80356ff8563f|862010c8"} {"ts":"2025-10-13T03:47:03.057951Z","event":"POLICY_ACCEPTED","policy": {"txid":"413a692f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec8db01","wtxid":"dd121e83a968de94316184ceaa90b94696f5f0d51f2018653b75c885e0fdca8"} {"ts":"2025-10-13T03:47:03.108309Z","event":"TX_BROADCAST","txid": "4a692f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec89ddb01"} {"ts":"2025-10-13T03:47:03.109024Z","event":"BROADCAST_RECEIPT_WRITTEN","path":"/Users/rosmontos/CDAAI_Amplify/outgoing/broadcast_receipts/receipt_broadcast_AuditLogAI.REG.GlobalSubmission.v4009_413a692f24f580cf72fdabec58095d2b7599b5cb1325303cc6d19ec89ddb01_20251013T034703Z.json"} {"ts":"2025-10-13T03:47:03.109338Z","event":"BROADCAST_QUEUED","path":"/Users/rosmontos/CDAAI_Amplify/queue/broadcast/413a692f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec89ddb01.json"} {"ts":"2025-10-13T03:47:03.109475Z","event":"MASTER_LEDGER_APPENDED","path":"/Users/rosmontos/CDAAI_Amplify/AMPLIFY_LEDGER.ndjson"} {"ts":"2025-10-13T03:47:03.109674Z","event":"JOB_ARCHIVED","file":ncoming_anchor_AuditLogAI.REG.GlobalSubmission.v4009_20251013T03464243523Z.json","dest":"/Users/rosmontos/CDAAI_Amplify/anchors_amplified_251013T034702Z/processed_jobs"} {"ts":"2025-10-13T03:47:03.109966Z","event":"BATCH_COMPLETE","anchor":":1,"skipped":0,"failed":0} rosmontos@Fernandos-Mac-Studio CDAAI_Amplify % ]
```



www.oriental.com

File Reference: `Screenshot 2025-10-15 at 6.49.56 am (2)___20251014T200505Z.png`

25. Signature Validation (PASS Test)

Description:

Positive-control example of a validated human e-signature achieving confidence ≥ 0.75 . All three layers succeed: - Ed25519 signer key matches prior registration (unique ID = reviewer). - HMAC-SHA256 challenge verified by AuditLog.AI authentication server. - Sentinel LLM1 vector analysis confirms signature authenticity (confidence 0.85 → PASS).

The following artifacts are generated and hashed: - Signature image PNG - Signature vectors JSON - Consent & Legal Proof statement - LLM1 analysis JSON

Operator has the option to download these raw artifacts individually or as a bundle, while AuditLog.AI receives only cryptographic proofs. Reproducibility of these artifacts' hashes has been confirmed by

```
AUDIT_REPRODUCIBILITY_PASS_AuditLog.AI_SentinelLLM1_sha256_ripemd160_v.aug31.25____20251012T195229Z.md (logged in regulatory session 1 session_log_AuditLogAI.REG.GlobalSubmission.v4001_20251012T200455.617478Z.json).
```

File Reference: Screenshot 2025-10-15 at 6.50.34 am____20251014T200505Z.png **Timestamp (UTC):** 20251014T200505Z **SHA-256:** b75bd8e73fef4fdcd36b58477c478d74cdb-

bc281c8e43e6c7c3279a371b29756 **RIPEMD-160:** 8fecf1e37f2b896bb440d208c772a51b2bclbdd5

OTS File: Screenshot 2025-10-15 at 6.50.34 am____20251014T200505Z.png.hash.ots **OTS**

SHA-256: 2b2eb0df3d17bfbe06f1909585df8585ec6afb501afbc545f81b02e5d2f84091 **OTS Bitcoin**

TXID: 5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f **Block:** 919084

Merkle Root (from OTS proof): 51d14a6b89b363557180530c51fa192a1cdd093edcd-

c13fc828d2e855c985f18 **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

25. Signature Validation (PASS Test)

AI Human Synergy™ | AuditLog.AI | Transaction: 3a0d497133 | Transaction: 3a0d497133 +

auditlog-ai.vercel.app/test-signature

Sign in the box, then submit. We post feature vectors + hashes (no raw biometrics) to /api/signature/submit.

Name: Dr. Fernando Telles

Verifier/User meta_id: DRTELLES

Session meta_id: AuditLogAI.REG.GlobalSubmission.v4016

Input device: Auto (detect) detected pointerType: mouse



Use mouse/trackpad/stylus. Pen up/down creates multiple strokes. "Clear" to restart.

Verify & Submit | Clear | Copy Response JSON | Copy Features JSON | Download PNG

Download vectors.json | Download bundle.json | Download gate_receipt.json

Consent & Legal Proof (client preview)

I, Dr. Fernando Telles DRTELLES, authorize AuditLog.AI to anchor session AuditLogAI.REG.GlobalSubmission.v4016 on Bitcoin at 2025-10-14T19:46:50.421Z for verification purposes. No biometric data is stored.

sha256_challenge (client):
68c39b0d7734a482db54344efc81cc12f60f453503db2fb516473157dd200fb7

Response

```
{  
  "human_signature": true,  
  "confidence": 0.85,  
  "evidence": "declared=unknown; inferred=trackpad; det=in_band; llm=agree",  
  "ripemd160_sha256_png": "0fb9f67086d02eb4986c646be46f36f8d410a474",  
  "ripemd160_sha256_vectors": "5d93f60f1b55090ca27c06bb6d6ec63438923be1",  
  "nested_to_anchor": true}
```

26. AuditLog.AI Pass Signature Registered – Gate Job Created

Description:

Screenshot of gate job (`gate_job_<meta_id>_<UTC>.json`) generation and transmission to AuditLog.AI following a PASS result from AuditLog.AI e-Signature Gate. Gate job transmission alone does not authorize AuditLog.AI to proceed with blockchain anchoring, one final human authorization is required (28.).

File Reference: Screenshot 2025-10-15 at 6.50.34 am (2) 20251014T200505Z.png

Timestamp (UTC): 20251014T200505Z **SHA-256:**

88f9632b400c696f95baf12575f4d1e6fc4ed0a1c962e97756bb55158b910937 **RIPEMD-160:**

0b77da80694a9462792ff5ef77f0d60bf6e3da33 **OTS File:**

Screenshot 2025-10-15 at 6.50.34 am (2) 20251014T200505Z.png.hash.ots **OTS SHA-256:**

c6d9589d7f0a311bcacf1d7699c72524517e44710e00f380e2f6f568e8416774 **OTS Bitcoin TXID:**

5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f **Block:** 919084 **Merkle**

Root (from OTS proof): 51d14a6b89b363557180530c51fa192a1cdd093edcd-

c13fc828d2e855c985f18 **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

26. AuditLog.AI Pass Signature Registered – Gate Job Created

Finder File Edit View Go Window Help

CDAAI_Amplify — Python -m unicorn gate_ingest_api_v2:APP ...

```

INFO: "GET /v1/receipt/bundle?meta_id=AuditLogAI. 200 OK
REG.GlobalSubmission.v4001
INFO: - "POST /v1/gate/ingest 200 OK
INFO: - "GET /v1/gate/verify?meta_id=AuditLogAI.REG. 200 O
K
INFO: - "POST /v1/anchor/handoff 200 OK
INFO: - "GET /v1/receipt/bundle?meta_id=AuditLogAI. 200 O
REG.GlobalSubmission.v4005
INFO: - "GET /v1/receipt/bundle?meta_id=AuditLogAI. 200 OK
REG.GlobalSubmission.v4005
INFO: - "POST /v1/gate/ingest 200 OK
INFO: - "GET /v1/gate/verify?meta_id=AuditLogAI.REG. 200 O
K
INFO: - "POST /v1/anchor/handoff 200 OK
INFO: - "GET /v1/receipt/bundle?meta_id=AuditLogAI. 200 O
REG.GlobalSubmission.v4009
INFO: - "GET /v1/receipt/bundle?meta_id=AuditLogAI. 200 OK
REG.GlobalSubmission.v4009
INFO: - "POST /v1/gate/ingest 200 OK

```

CDAAI_Amplify — Python -m unicorn anchor_api_v2:APP --h...

```

INFO: Started server process
INFO: Waiting for application startup.
INFO: Application startup complete.
INFO: Uvicorn running on http://... (Press CTRL+C to quit)

```

CDAAI_Amplify — zsh — 70x34

```

{"ts": "2025-10-13T03:47:02.854092Z", "event": "JOB_DISCOVERED", "file": "... incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034642.34523Z.json", "kind": "json"} {"ts": "2025-10-13T03:47:02.854163Z", "event": "JOB_VALIDATED", "session_meta_id": "AuditLogAI.REG.GlobalSubmission.v4009", "payload": "SENTINEL SESSION|7e37072aeb1f857fb3245d9cdadc80356ff8563f1862010c8"} {"ts": "2025-10-13T03:47:03.057951Z", "event": "POLICY_ACCEPTED", "policy": {"txid": "413a692f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec89c9db01", "wtxid": "dd121e83a968de94316184ceaa90b94696f5f0d51f2018653b75c9a885ea0fdc8"} {"ts": "2025-10-13T03:47:03.108309Z", "event": "TX_BROADCAST", "txid": "413a692f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec89ddb01"} {"ts": "2025-10-13T03:47:03.109024Z", "event": "BROADCAST_RECEIPT_WRITTEN", "path": "/Users/rosmontos/CDAAI_Amplify/outgoing/broadcast_receipts/receipt_broadcast_AuditLogAI.REG.GlobalSubmission.v4009_413a692f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec89ddb01_20251013T034703Z.json"} {"ts": "2025-10-13T03:47:03.109338Z", "event": "BROADCAST_QUEUED", "path": "/Users/rosmontos/CDAAI_Amplify/queue/broadcast/413a692f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec89ddb01.json"} {"ts": "2025-10-13T03:47:03.109475Z", "event": "MASTER_LEDGER_APPENDED", "path": "/Users/rosmontos/CDAAI_Amplify/AMPLIFY_LEDGER.ndjson"} {"ts": "2025-10-13T03:47:03.109674Z", "event": "JOB_ARCHIVED", "file": "incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034642.34523Z.json", "dest": "/Users/rosmontos/CDAAI_Amplify/anchors_amplified_20251013T034702Z/processed_jobs"} {"ts": "2025-10-13T03:47:03.109966Z", "event": "BATCH_COMPLETE", "anchored": "1", "skipped": "0", "failed": "0"} rosmontos@Fernando's-Mac-Studio CDAAI_Amplify %

```

CDAAI_Amplify — Python confirm_watcher_v2.3.py — 74x69

```

{"ts": "2025-10-14T19:45:34.388272Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:45:44.394255Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:45:54.400075Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:45:54.419255Z", "event": "REORG_TICK", "orphaned": 0} {"ts": "2025-10-14T19:46:04.422103Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:46:14.427698Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:46:24.428721Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:46:34.433846Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:46:44.439897Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:46:54.444321Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:47:04.450092Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:47:14.454270Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:47:24.460225Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:47:34.465941Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:47:44.470707Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:47:54.475781Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:47:54.496861Z", "event": "REORG_TICK", "orphaned": 0} {"ts": "2025-10-14T19:48:04.502481Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:48:14.507550Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:48:24.512523Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:48:34.518386Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:48:44.524382Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:48:54.527973Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:49:04.534033Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:49:14.539726Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:49:24.541100Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:49:34.546986Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:49:44.552531Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:49:54.558248Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:50:04.580551Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:50:14.586551Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:50:24.589669Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0} {"ts": "2025-10-14T19:50:34.595651Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}

```

CDAAI_Amplify

Name

- AMPLIFY_LEDGER.ndjson
- anchor_api_v2.py
- anchors_amplified_20251012T201411Z
 - processed_jobs
 - incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4001_20251012T201222.659253Z.json
- anchors_amplified_20251012T204728Z
 - processed_jobs
 - incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4005_20251012T204707.939845Z.json
- anchors_amplified_20251013T034702Z
 - processed_jobs
 - incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034642.343523Z.json
- compliance_enforcer.py
- confirm_watcher_v2.3.py
- gate_idem.db
- gate_ingest_api_v2.py
- gate_manager.py
- hashvalidatorblock.py
- incoming
 - gate_jobs
 - gate_job_AuditLogAI.REG.GlobalSubmission.v4001_2025-10-12T20/10/47.669Z.json
 - gate_job_AuditLogAI.REG.GlobalSubmission.v4005_2025-10-12T20/46.43.272Z.json
 - gate_job_AuditLogAI.REG.GlobalSubmission.v4009_2025-10-13T03/46/07.861Z.json
 - gate_job_AuditLogAI.REG.GlobalSubmission.v4016_2025-10-14T19/50/13.635Z.json
- logs
 - user_anchor_ledger.ndjson
 - opreturnanchor_amplify_v5.1.py
- outgoing
 - anchored_receipts
 - receipt_anchored_AuditLogAI.REG.GlobalSubmission.be18d6086083aa340f5c66a5e88a9_918769.json
 - receipt_anchored_AuditLogAI.REG.GlobalSubmission.dbb45bcda83bb93a451c81cce439c_918772.json
 - receipt_anchored_AuditLogAI.REG.GlobalSubmission.599b5cb1325303cc6d19ec89ddb01_918808.json
 - broadcast_receipts
 - receipt_broadcast_AuditLogAI.REG.GlobalSubmission.63aa340f5c66a5e88a9_20251012T201411Z.json
 - receipt_broadcast_AuditLogAI.REG.GlobalSubmission.3bb93a451c81cce439c_20251012T204728Z.json
 - receipt_broadcast_AuditLogAI.REG.GlobalSubmission.5303cc6d19ec89ddb01_20251013T034703Z.json
- queue
 - anchored
 - 2ceecfb433f1f05d4023f2f45eacd2a0d4bbe18d6086063aa340f5c66a5e88a9.json
 - 02f71288b6f45b9527ccf8714e4d1bfa697dbb45bcda83bb93a451c81cce439c.json
 - 413a692f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec89ddb01.json
- broadcast

1 of 42 selected, 656 GB available

CDAAI

27. Gate Job (Hashes Only)

Description:

View of `gate_job_<meta_id>_<UTC>.json` confirming Zero-Custody design. Containing timestamp, cryptographic hashes, vectors, LLM1 analysis, and minimal metadata (session meta_id and human verifier meta_id).

File Reference: Screenshot 2025-10-15 at 6.50.59 am (2) `20251014T200505Z.png`

Timestamp (UTC): `20251014T200505Z` **SHA-256:** `964260dfc1a3eda6973dfd0e8d-`

`f58e950590a950169bb43c09343e1018ecb455` **RIPEMD-160:** `40aed844d14041ff85d6c3b61d54b9deb-`

`da95c71` **OTS File:** Screenshot 2025-10-15 at 6.50.59 am

(2) `20251014T200505Z.png.hash.ots` **OTS SHA-256:**

`bb22b5e4b49e9fea15e3fe418ec540f00241754ce7c7bae653d1e41ee95cbabb` **OTS Bitcoin TXID:**

`5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f` **Block:** `919084` **Merkle**

Root (from OTS proof): `51d14a6b89b363557180530c51fa192a1cdd093edcd-`

`c13fc828d2e855c985f18` **Date of Existence (UTC):** `2025-10-14T20:08:06Z` (*TXID broadcast*

time confirming file existence as of Bitcoin block 919084.)

27. Gate Job (Hashes Only)

AUDITLOG.AI0063DOSSIER

The screenshot displays a Mac desktop environment with three main windows:

- Terminal Window 1 (Left):** Shows the contents of a JSON file named `gate_job_AuditLogAI.REG.GlobalSubmission.v4016_2025-10-14T19:50:13.635Z.json`. The file contains audit log data, including a schema, version, timestamp, meta-information, audit details, proofs, features, and a list of points. It also includes transaction details like txid, db01, and db02.
- Terminal Window 2 (Top Right):** Shows the contents of another JSON file, `gate_job_AuditLogAI.REG.GlobalSubmission.v4016_2025-10-14T19:50:13.635Z.json`, which appears to be a copy of the one in the first window.
- File Browser (Bottom Right):** A Finder-style interface showing a directory structure for `CDAAI_Amplify`. The structure includes:
 - `AMPLIFY_LEDGER.ndjson`
 - `anchor_api_v2.py`
 - `anchors_amplified_20251012T201411Z` (containing `processed_jobs` with files like `incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4001_20251012T201222.659253Z.json`)
 - `anchors_amplified_20251012T204728Z` (containing `processed_jobs` with files like `incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4005_20251012T204707.939845Z.json`)
 - `anchors_amplified_20251013T034702Z` (containing `processed_jobs` with files like `incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034642.343523Z.json`)
 - `compliance_enforcer.py`
 - `confirm_watcher_v2.3.py`
 - `gate_idem.db`
 - `gate_ingest_api_v2.py`
 - `gate_manager.py`
 - `hashvalidatorblock.py`
 - `incoming` (containing `gate_jobs` with files like `gate_job_AuditLogAI.REG.GlobalSubmission.v4001_2025-10-12T20/10/47.669Z.json`)
 - `logs` (containing `user_anchor_ledger.ndjson` and `opreturnanchor_amplify_v5.1.py`)
 - `outgoing` (containing `anchored_receipts` with files like `receipt_anchored_AuditLogAI.REG.GlobalSubmission...be18d6086063aa340f5c66a5e88a9_918769.json`, `broadcast_receipts` with files like `receipt_broadcast_AuditLogAI.REG.GlobalSubmission...63aa340f5c66a5e88a9_20251012T201411Z.json`, and `queue` with files like `2ceecfb433f1f05d4023f2f45ead2a0d4bbe18d6086063aa340f5c66a5e88a9.json`)

28 A & B. Final Human Authorization Blockchain Anchoring

Description:

This screenshot captures the final human-authorization checkpoint preceding blockchain anchoring, a mandatory interactive step by `anchor_candidate_cli_v6.1.py`. Upon operator approval, it derives the OP_RETURN payload from the frozen session log, and sends artifacts for final blockchain anchoring authorization to AuditLog.AI.

At this stage, all prior validations, hash generation, VALIS enforcement, and compliance checks have passed. Anchoring cannot proceed automatically; the process is hard-gated by the Ed25519-signed authorization of a verified user (the same unique reviewer registered under the AuditLog.AI e-Signature Gate), and bound to institutional HMAC login and meta ID. Only once this explicit approval is confirmed does the system flag the session as approved for broadcast, enabling immutable publication to the Bitcoin mainnet.

File Reference 28 A: Screenshot 2025-10-15 at 6.51.51 am `20251014T200505Z.png`

Timestamp (UTC): `20251014T200505Z` **SHA-256:**

`4b910fe7662715c3300b8625c3f6700a496746a42f97b4298dfb77a0f1d934f1` **RIPEMD-160:**

`1992ea22332ec4707597578a3f53d6e6721855d2` **OTS File:** Screenshot 2025-10-15 at

`6.51.51 am` `20251014T200505Z.png.hash.ots` **OTS SHA-256:** `cd-`

`d32e33c10d0f7ed16c2c6e927e4f9d640e904f7bf0f86f2b2d85cbe25fc1ef` **OTS Bitcoin TXID:**

`5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f` **Block:** `919084` **Merkle**

Root (from OTS proof): `51d14a6b89b363557180530c51fa192a1cdd093edcd-`

`c13fc828d2e855c985f18` **Date of Existence (UTC):** `2025-10-14T20:08:06Z` (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

File Reference 28 B: Screenshot 2025-10-15 at 6.52.12 am `20251014T200505Z.png`

Timestamp (UTC): `20251014T200505Z` **SHA-256:**

`1d1e7c06f49f91910afcd6492687930587d54457b3c9126b743535910e632374` **RIPEMD-160:**

`1fc5492096a855e9157e5e1d263467c49bebee19` **OTS File:** Screenshot 2025-10-15 at

`6.52.12 am` `20251014T200505Z.png.hash.ots` **OTS SHA-256:**

`b8f4319b7969b37a1933688c0b84e7629e6465655db460e312776421a30335ff` **OTS Bitcoin TXID:**

`5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f` **Block:** `919084` **Merkle**

Root (from OTS proof): `51d14a6b89b363557180530c51fa192a1cdd093edcd-`

`c13fc828d2e855c985f18` **Date of Existence (UTC):** `2025-10-14T20:08:06Z` (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

28 A. Final Human Authorization Blockchain Anchoring

AUDITLOG.AI0065DOSSIER

The image displays a Mac OS X desktop environment with the following elements:

- Terminal Window 1:** Titled "AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy -- zsh -- 125x66". It shows command-line output related to auditing and blockchain anchoring, including session logs and screenshots.
- Terminal Window 2:** Titled "AuditLog.AI_UserSimulation_Sen...". It shows command-line output related to auditing and blockchain anchoring, including session logs and screenshots.
- File Browser:** Shows a file tree with many JSON files in the "frozen_sources" and "outgoing" directories, likely representing session logs and anchored receipts.
- Desktop Icons:** Standard Mac OS X icons for various applications like Mail, Safari, and Finder.
- System Status Bar:** Shows the date and time (Wed 15 Oct 6:51am) and battery status.

The terminal output includes several key lines:

```
[LOGGED] AUDIT_BATCH_EVIDENCE_VERIFIED  
[HASHED] SHA256: cf617e3e6e6292ab1cdf5dda73753ffd8a50a9e38fee7d55b77cf56ea328d  
[2HA] RIPEMD160: 4a7be62c3161f61036f1f61b5d36505005bcfb62  
Submitting to remote calendar https://a.pool.opentimes.org  
Submitting to remote calendar https://b.pool.opentimes.org  
Submitting to remote calendar https://a.pool.eternitywall.com  
Submitting to remote calendar https://ots.btc.catalaxy.com  
[OTS] Timeproof created: audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.hash.ots  
Canonical freeze complete → logs/frozen_sources/audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.json  
on  
[?] Immutable Batch Audit Log Registered: logs/audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.json  
Batch: AuditLogAI.REG.GlobalSubmission.v4-LOG-USER_PreExecution_FolderView_REGULATORY-RUN-20251014-S04  
Folder: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN0  
04_Regulator_Submission_Evidence/USER_PreExecution_FolderView_REGULATORY-RUN-20251014-S04  
Files (4):  
1. USER_PreExecution_FolderView_Screenshot 2025-10-15 at 6.29.48 amAEST__20251014T193659Z.png  
2. USER_PreExecution_FolderView_Screenshot 2025-10-15 at 6.30.04 amAEST__20251014T193659Z.png  
3. USER_PreExecution_FolderView_Screenshot 2025-10-15 at 6.31.27 amAEST__20251014T193659Z.png  
4. USER_PreExecution_FolderView_Screenshot 2025-10-15 at 6.31.35 amAEST__20251014T193659Z.png  
[?] Confirm human signature for this batch? [Y]es / [N]o / [S]kip / [Q]uit > y  
[LOGGED] AUDIT_BATCH_EVIDENCE_VERIFIED  
[HASHED] SHA256: dc842dee4ea7381c213e18064a7303b0b092c98d1e15e07fe4f95bcfaa810238  
[2HA] RIPEMD160: 76a1ae67e00ba9f604a23dc654e7b6dc557099  
Submitting to remote calendar https://a.pool.opentimes.org  
Submitting to remote calendar https://b.pool.opentimes.org  
Submitting to remote calendar https://a.pool.eternitywall.com  
Submitting to remote calendar https://ots.btc.catalaxy.com  
[OTS] Timeproof created: audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.hash.ots  
Canonical freeze complete → logs/frozen_sources/audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.json  
on  
[?] Immutable Batch Audit Log Registered: logs/audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.json  
✓ Done. Batches reviewed: 4; logged: 4; skipped: 0  
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 session_logger.py  
/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/session_logger.py:95: DeprecationWarning: datet  
ime.datetime.utcnow() is deprecated and scheduled for removal in a future version. Use timezone-aware objects to represent da  
tetimes in UTC: datetime.datetime.now(datetime.UTC).  
session_timestamp = datetime.utcnow().isoformat().replace(":", "").replace("-", "") + "Z"  
[?] Session file written: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/session_logs/ses  
sion_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.json  
[?] SHA256: 2b44af1d4888f598c89dec992b6ce31d6fc0daab7a2480a3efb07d44bf3eb055  
[2HA] RIPEMD160: f63523aba83a6b47c8fbb5dd942d20ef6aa7ee3e  
Submitting to remote calendar https://a.pool.opentimes.org  
Submitting to remote calendar https://b.pool.opentimes.org  
Submitting to remote calendar https://a.pool.eternitywall.com  
Submitting to remote calendar https://ots.btc.catalaxy.com  
[?] OTS created: session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.hash.ots  
Frozen session → /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/session_logs/frozen_so  
urces/session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.json  
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % export GATE_VERIFY_PUBLIC_PEM  
export SENTINEL_LOG_DIR="$PWD/logs"  
export CDAAI_GATE_VERIFY_URL="https:  
export CDAAI_HANDOFF_URL="https:/  
export API_BEARER_TOKEN:  
python3 anchor_candidate_cli_v6.1.py latest \  
--approve \  
--logs-dir ./logs \  
--gate-verify-url \  
--handoff-url
```

28 B. Final Human Authorization Blockchain Anchoring

Submitting to remote calendar https://a.pool.opentimestamps.org
 Submitting to remote calendar https://b.pool.opentimestamps.org
 Submitting to remote calendar https://a.pool.eternitywall.com
 Submitting to remote calendar https://ots.btc.catalaxy.com
 [OTS] Timeproof created: audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.hash.ots
 Canonical freeze complete → logs/frozen_sources/audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.json
 on
 [?] Immutable Batch Audit Log Registered: logs/audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.json
 =====
 Batch: AuditLogAI.REG.GlobalSubmission.v4-LOG-USER_PreExecution_FolderView_REGULATORY-RUN-20251014-S04
 Folder: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/validation_batch_stream/REGULATORY-RUN0
 04_Regulator_Submission_Evidence/frozen_files_USER_PreExecution_FolderView_REGULATORY-RUN-20251014-S04
 Files (4):
 1. USER_PreExecution_FolderView_Screenshot 2025-10-15 at 6.29.48 amAEST__20251014T193659Z.png
 2. USER_PreExecution_FolderView_Screenshot 2025-10-15 at 6.30.04 amAEST__20251014T193659Z.png
 3. USER_PreExecution_FolderView_Screenshot 2025-10-15 at 6.31.27 amAEST__20251014T193659Z.png
 4. USER_PreExecution_FolderView_Screenshot 2025-10-15 at 6.31.35 amAEST__20251014T193659Z.png
 =====
 🧑 Confirm human signature for this batch? [Y]es / [N]o / [Q]uit > y
 [LOGGED] AUDIT_BATCH_EVIDENCE_VERIFIED
 [HASHED] SHA256: dc842dee4ea7381c213e18064a7303b0b092c98d1e15e07fe4f95bcfaa810238
 [2HA] RIPEMD160: 76a1ae67e00ba9f604a23dc65e4e7b66dc557099
 Submitting to remote calendar https://a.pool.opentimestamps.org
 Submitting to remote calendar https://b.pool.opentimestamps.org
 Submitting to remote calendar https://a.pool.eternitywall.com
 Submitting to remote calendar https://ots.btc.catalaxy.com
 [OTS] Timeproof created: audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.hash.ots
 Canonical freeze complete → logs/frozen_sources/audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.json
 on
 [?] Immutable Batch Audit Log Registered: logs/audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.json
 ✓ Done. Batches reviewed: 4; logged: 4; skipped: 0
 rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 session_logger.py
 /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/session_logger.py:95: DeprecationWarning: datet
 time.datetime.utcnow() is deprecated and scheduled for removal in a future version. Use timezone-aware objects to represent da
 tetimes in UTC: datetime.datetime.now(datetime.UTC).
 session_timestamp = datetime.utcnow().isoformat().replace(":", "").replace("-", "") + "Z"
 [✓] Session file written: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/session_logs/ses
 sion_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.json
 [?] SHA256: 2b44af1d4888f598c89dec992b6ce31d6fc0daab7a2480a3efb07d44bf3eb055
 [2HA] RIPEMD160: f63523aba83a6b47c8fb5dd942d20ef6aa7ee3e
 Submitting to remote calendar https://a.pool.opentimestamps.org
 Submitting to remote calendar https://b.pool.opentimestamps.org
 Submitting to remote calendar https://a.pool.eternitywall.com
 Submitting to remote calendar https://ots.btc.catalaxy.com
 [?] OTS created: session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.hash.ots
 Frozen session → /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/session_logs/frozen_so
 urces/session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.json
 rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % export GATE_VERIFY_PUBLIC_PEM=
 \$(cat /tmp/pub.b64)"
 export SENTINEL_LOG_DIR="\$PWD/logs"
 export CDAAI_GATE_VERIFY_URL="https:
 export CDAAI_HANDOFF_URL="https:/
 export API_BEARER_TOKEN:
 python3 anchor_candidate_cli_v6.1.py latest \
 --approve \
 --logs-dir ./logs \
 --gate-verify \
 --handoff...
 ✓ Verified gate present and fresh (via API).
 [✓] HTTPS handoff accepted: /Users/rosmontos/CDAAI_Amplify/incoming/incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4016_202
 51014T195206.714065Z.json
 rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy %

AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy

Screenshots from 2025-10-15, 2025-10-14, 2025-10-05, 2025-10-09, 2025-10-10, and 2025-10-11.

File list:

- Name
- Date Modified
- Size

Name	Date Modified	Size
audit_log_AuditLogAI.REG.GlobalSubmission.v4021_20251014T194410.245131Z.json	Today at 6:44 am	
audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.json	Today at 6:44 am	
audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.json	Today at 6:44 am	
session_logs	Today at 6:45 am	
frozen_sources	Today at 6:45 am	
session_log_AuditLogAI.REG.GlobalSubmission.v4001_20251012T200455.617478Z.json	13 Oct 2025 at 7:04 am	
session_log_AuditLogAI.REG.GlobalSubmission.v4005_20251012T204520.780899Z.json	13 Oct 2025 at 7:45 am	
session_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.json	13 Oct 2025 at 2:45 pm	
session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.json	Today at 6:45 am	
session_log_AuditLogAI.REG.GlobalSubmission.v4001_20251012T200455.617478Z.2ha	13 Oct 2025 at 7:04 am	
session_log_AuditLogAI.REG.GlobalSubmission.v4001_20251012T200455.617478Z.hash	13 Oct 2025 at 7:04 am	
session_log_AuditLogAI.REG.GlobalSubmission.v4001_20251012T200455.617478Z.hash.ots	Yesterday at 2:05 pm	
session_log_AuditLogAI.REG.GlobalSubmission.v4001_20251012T200455.617478Z.hash.ots.bak	13 Oct 2025 at 7:04 am	
session_log_AuditLogAI.REG.GlobalSubmission.v4001_20251012T200455.617478Z.json	13 Oct 2025 at 7:04 am	
session_log_AuditLogAI.REG.GlobalSubmission.v4005_20251012T204520.780899Z.json	13 Oct 2025 at 7:45 am	
session_log_AuditLogAI.REG.GlobalSubmission.v4005_20251012T204520.780899Z.2ha	13 Oct 2025 at 7:45 am	
session_log_AuditLogAI.REG.GlobalSubmission.v4005_20251012T204520.780899Z.hash	13 Oct 2025 at 7:45 am	
session_log_AuditLogAI.REG.GlobalSubmission.v4005_20251012T204520.780899Z.hash.ots	Yesterday at 2:05 pm	
session_log_AuditLogAI.REG.GlobalSubmission.v4005_20251012T204520.780899Z.hash.ots.bak	13 Oct 2025 at 7:45 am	
session_log_AuditLogAI.REG.GlobalSubmission.v4005_20251012T204520.780899Z.json	13 Oct 2025 at 7:45 am	
session_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.2ha	13 Oct 2025 at 2:45 pm	
session_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.hash	13 Oct 2025 at 2:45 pm	
session_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.hash.ots	Yesterday at 2:05 pm	
session_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.hash.ots.bak	13 Oct 2025 at 2:45 pm	
session_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.json	13 Oct 2025 at 2:45 pm	
session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.2ha	Today at 6:45 am	
session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.hash	Today at 6:45 am	
session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.hash.ots	Today at 6:45 am	
session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.hash.ots.bak	Today at 6:45 am	
session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.json	Today at 6:45 am	
ots_upgrade_log_20251014T030453Z.json	Yesterday at 2:05 pm	
ots_upgrade_log_20251014T030453Z.log	Yesterday at 2:05 pm	
outgoing	9 Sep 2025 at 10:00 am	
anchored_receipts	13 Oct 2025 at 3:52 pm	
receipt_anchored_AuditLogAI.REG.GlobalSubmission.v4_20251012T200207Z.json	13 Oct 2025 at 7:36 am	
receipt_anchored_AuditLogAI.REG.GlobalSubmission.v4_20251012T200207Z.json.2ha	13 Oct 2025 at 7:58 am	
receipt_anchored_AuditLogAI.REG.GlobalSubmission.v4_20251012T200207Z.json.hash	13 Oct 2025 at 7:58 am	
receipt_anchored_AuditLogAI.REG.GlobalSubmission.v4_20251012T204456Z.json	13 Oct 2025 at 3:52 pm	
receipt_anchored_AuditLogAI.REG.GlobalSubmission.v4_20251012T204456Z.json.2ha	Today at 6:41 am	
incomingScreenshot_AuditLogAI.REG.GlobalSubmission.v4_20251012T200207Z.json	13 Oct 2025 at 7:02 am	
incomingScreenshot_AuditLogAI.REG.GlobalSubmission.v4_20251012T200207Z.json.2ha	13 Oct 2025 at 7:02 am	
incomingScreenshot_AuditLogAI.REG.GlobalSubmission.v4_20251012T200207Z.json.hash	13 Oct 2025 at 7:02 am	
incomingScreenshot_AuditLogAI.REG.GlobalSubmission.v4_20251012T204456Z.json	13 Oct 2025 at 7:44 am	
incomingScreenshot_AuditLogAI.REG.GlobalSubmission.v4_20251012T204456Z.json.2ha	13 Oct 2025 at 7:44 am	
incomingScreenshot_AuditLogAI.REG.GlobalSubmission.v4_20251012T204456Z.json.hash	13 Oct 2025 at 7:44 am	

1 of 255 selected, 655.98 GB available

29. Post-Final Authorization — Incoming Anchor Job Arrives at AuditLog.AI Node

Description:

AuditLog.AI receives the finalized user-approved handoff job from the user environment following successful e-signature gate verification (incoming_anchor JSON).

File Reference: Screenshot 2025-10-15 at 6.52.12 am (2) 20251014T200505Z.png

Timestamp (UTC): 20251014T200505Z **SHA-256:**

63b142f1ff7d59903d3b01d91ea752be3aa33ff2b9167f1b85e8608f66a0f003 **RIPEMD-160:** 65977b-ccac1119769e7d591ed13f62f7f23d3751 **OTS File:** Screenshot 2025-10-15 at 6.52.12 am (2) 20251014T200505Z.png.hash.ots **OTS SHA-256:** 94e94706a4a5fc-

c85b1c56a5955c7d98b2cd3a314a79123da5642170c53a9d80 **OTS Bitcoin TXID:**

5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f **Block:** 919084 **Merkle**

Root (from OTS proof): 51d14a6b89b363557180530c51fa192a1cdd093edcd-

c13fc828d2e855c985f18 **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast*

time confirming file existence as of Bitcoin block 919084.)

29. Post-Final Authorization — Incoming Anchor Job Arrives at AuditLog.AI Node

Finder File Edit View Go Window Help

CDAAI_Amplify — Python -m unicorn gate_ingest_api_v2:APP --h...
 .GlobalSubmission.v401
 K
 INFO:
 "POST anchor/handoff 200 OK
 INFO:
 "GET receipt/bundle?meta_id=AuditLogAI.
 REG.GlobalSubmission.v401
 ; HTTP 200 OK
 INFO:
 "GET receipt/bundle?meta_id=AuditLogAI.
 REG.GlobalSubmission.v401
 ; HTTP 200 OK
 INFO:
 "GET /gate/ingest 200 OK
 INFO:
 "GET /gate/verify?meta_id=AuditLogAI.REG.GlobalSubmission.v401
 .GlobalSubmission.v401
 K
 INFO:
 "POST anchor/handoff 200 OK
 INFO:
 "GET receipt/bundle?meta_id=AuditLogAI.
 REG.GlobalSubmission.v401
 ; HTTP 200 OK
 INFO:
 "GET receipt/bundle?meta_id=AuditLogAI.
 REG.GlobalSubmission.v401
 ; HTTP 200 OK
 INFO:
 "POST /v1/gate/ingest 200 OK
 "GET /v1/gate/verify?meta_id=AuditLogAI.REG.GlobalSubmission.v401
 .GlobalSubmission.v401
 K
 INFO:
 "POST /v1/anchor/handoff 200 OK

CDAAI_Amplify — Python confirm_watcher_v2.3.py — 74x69
 {"ts": "2025-10-14T19:47:04.450092Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:47:14.454270Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:47:24.460225Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:47:34.465941Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:47:44.470707Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:47:54.475781Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:47:54.496861Z", "event": "REORG_TICK", "orphaned": 0}
 {"ts": "2025-10-14T19:48:04.502481Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:48:14.507550Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:48:24.512523Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:48:34.518386Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:48:44.524382Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:48:54.527973Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:49:04.534033Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:49:14.539726Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:49:24.541100Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:49:34.546986Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:49:44.552531Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:49:54.558248Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:49:54.574594Z", "event": "REORG_TICK", "orphaned": 0}
 {"ts": "2025-10-14T19:50:04.580551Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:50:14.586551Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:50:24.589669Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:50:34.595651Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:50:44.600320Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:50:54.606287Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:51:04.611797Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:51:14.617719Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:51:24.623720Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:51:34.627318Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:51:44.632987Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:51:54.639013Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}
 {"ts": "2025-10-14T19:51:54.653277Z", "event": "REORG_TICK", "orphaned": 0}
 {"ts": "2025-10-14T19:52:04.659072Z", "event": "QUEUE_TICK", "anchored": 0, "pending": 0, "stalled": 0}

CDAAI_Amplify

Name	Date Modified
AMPLIFY_LEDGER.ndjson	Today at 6:52 am
anchor_api_v2.py	8 Sep 2025 at 10:16 am
> anchors_amplified_20251012T201411Z	Today at 6:11 am
> anchors_amplified_20251012T204728Z	13 Oct 2025 at 8:05 am
> anchors_amplified_20251013T034702Z	Today at 6:12 am
compliance_enforcer.py	24 Aug 2025 at 11:04 am
confirm_watcher_v2.3.py	29 Aug 2025 at 11:33 am
gate_idem.db	Today at 6:50 am
gate_ingest_api_v2.py	9 Sep 2025 at 9:58 am
gate_manager.py	27 Aug 2025 at 7:06 am
hashvalidatorblock.py	24 Aug 2025 at 7:55 am
incoming	Today at 6:52 am
gate_jobs	Today at 6:50 am
gate_job_AuditLogAI.REG.GlobalSubmission.v4001_2025-10-12T20/10/47.669Z.json	13 Oct 2025 at 7:10 am
gate_job_AuditLogAI.REG.GlobalSubmission.v4005_2025-10-12T20/46/43.272Z.json	13 Oct 2025 at 7:46 am
gate_job_AuditLogAI.REG.GlobalSubmission.v4009_2025-10-13T03/46/07.861Z.json	13 Oct 2025 at 2:46 pm
gate_job_AuditLogAI.REG.GlobalSubmission.v4016_2025-10-14T19/50/13.635Z.json	Today at 6:50 am
incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4016_20251014T195206.714055Z.json	Today at 6:52 am
logs	13 Oct 2025 at 7:17 am
user_anchor_ledger.ndjson	13 Oct 2025 at 3:17 pm
opreturnanchor_amplify_v5.1.py	9 Sep 2025 at 6:39 am
outgoing	8 Sep 2025 at 8:58 am
anchored_receipts	13 Oct 2025 at 3:17 pm
receipt_anchored_AuditLogAI.REG.GlobalSubmission.v4001_20251013T034642.343Z.json	13 Oct 2025 at 7:17 am
receipt_anchored_AuditLogAI.REG.GlobalSubmission.v4005_20251012T204728Z.json	13 Oct 2025 at 7:49 am
receipt_anchored_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034702Z.json	13 Oct 2025 at 3:17 pm
broadcast_receipts	13 Oct 2025 at 2:47 pm
receipt_broadcast_AuditLogAI.REG.GlobalSubmission.v4001_20251012T201411Z.json	13 Oct 2025 at 7:14 am
receipt_broadcast_AuditLogAI.REG.GlobalSubmission.v4005_20251012T204728Z.json	13 Oct 2025 at 7:47 am
receipt_broadcast_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034703Z.json	13 Oct 2025 at 2:47 pm
queue	26 Aug 2025 at 7:50 am
anchored	13 Oct 2025 at 3:17 pm
2ceecfb433f1f05d4023f2f45eacd2a0d4bbe18d6086063aa340f5c66a5e88a9.json	13 Oct 2025 at 7:14 am
02f71288b6f45b9527ccf8714e4d1bfa697dbb45bcda83bb93a451c81cce439c.json	13 Oct 2025 at 7:47 am
413a692f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec89ddb01.json	13 Oct 2025 at 2:47 pm
broadcast	13 Oct 2025 at 3:17 pm
confirmed	27 Aug 2025 at 6:00 am

1 of 37 selected, 655.98 GB available

CDAAI

30. AuditLog.AI Incoming Anchor Job Receipt

Description:

The handoff package contains only **hashes and metadata**, ensuring **zero-custody** compliance.

File Reference: Screenshot 2025-10-15 at 6.52.44 am (2) 20251014T200505Z.png

Timestamp (UTC): 20251014T200505Z **SHA-256:** 13a04cb81a8e3497b-

b52b92de05d895b7eca87846fab8f8da9c450d1e10c09d8 **RIPEMD-160:** 2ca67a8e38c5b-

c07492176a6fd60a25633aa6760 **OTS File:** Screenshot 2025-10-15 at 6.52.44 am

(2) 20251014T200505Z.png.hash.ots **OTS SHA-256:** 034d9c54854307f9fd99f-

b5005418c8ba6add13a80870388fb44919af2c766ce **OTS Bitcoin TXID:** 5c28773f653c441226d-

f3079bf1b37c662f6c3643a544840e43098cd2a75502f **Block:** 919084 **Merkle Root (from OTS**

proof: 51d14a6b89b363557180530c51fa192a1cdd093edcdc13fc828d2e855c985f18 **Date of**

Existence (UTC): 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

30. AuditLog.AI Incoming Anchor Job Receipt

AUDITLOG.AI0070DOSSIER

The screenshot displays a Mac OS X desktop environment with several open windows. At the top, a menu bar is visible with options: Code, File, Edit, Selection, View, Go, Run, Terminal, Window, Help. The date and time in the top right corner indicate it's Wednesday, October 15, 2025, at 6:52 am.

There are three terminal windows:

- The first terminal window shows log output for "CDAAI_Amplify" with Python code and API requests like "POST /v1/anchor/handoff" and "GET /v1/receipt/bundle?meta_id=AuditLogAI". It includes status codes such as 200 OK.
- The second terminal window shows log output for "CDAAI_Amplify" with Python code and event logs like {"ts": "2025-10-14T19:47:34.465941Z", "event": "QUEUE_TICK", "anchored": 0}.
- The third terminal window shows log output for "CDAAI_Amplify" with Python code and event logs like {"ts": "2025-10-14T19:47:44.470707Z", "event": "QUEUE_TICK", "anchored": 0}.

A file browser window titled "CDAAI_Amplify" is open, displaying a list of files in a table format. The columns are "Name" and "Date Modified". The list includes numerous files, many of which are named after dates and times, such as "769.json", "772.json", "808.json", etc., with modification dates ranging from August 24, 2025, to October 13, 2025.

At the bottom of the screen, a terminal window shows command-line output related to "AuditLog.AI Incoming Anchor Job Receipt". The output includes file names like "abec58095d2b7599b5cb1325303cc6d19ec89ddb01.json" and log entries for events like "MASTER_LEDGER_APPENDED" and "JOB_ARCHIVED". The terminal also shows the user "rosmontos" and the command "CDAAI_Amplify %".

On the far right, a large watermark or logo for "CDAAI" is visible.

31. AuditLog.AI OP_RETURN Amplify Execution

Description:

Console output of `opreturnanchor_amplify_v5.1.py` executing Bitcoin transaction broadcast. This operation is only possible if incoming anchor job and gate job files are verified under CME Rules.

Key compliance confirmations recorded in this event:

- `human_verified: true`
- `ai_editor_LLM_human_agreement: true`
- `VALIS_template_enforced: true`
- `AI_override: false`
- `timestamp_confirmed: true`
- The payload schema conforms to **C5.3.1 OP_RETURN specification** (`SENTINEL|<type>|<ripemd160>|<sha8>`)
- session log hashes parity and `.hash.ots` presence are confirmed

File Reference: Screenshot 2025-10-15 at 6.53.13 am (2) `20251014T200505Z.png`

Timestamp (UTC): `20251014T200505Z` **SHA-256:** `301dd7c5b7358523d605fc-`

`c8f28685503a14a3e44889a5905130994e8e87f240` **RIPEMD-160:** `bd2b8bc14e1369682347825f-`

`d7bec3150886b934` **OTS File:** Screenshot 2025-10-15 at 6.53.13 am

(2) `20251014T200505Z.png.hash.ots` **OTS SHA-256:** `75a6176d6a89e33d-`

`d487992ee214f1cb573711f99de9a94a4f19f9720f3ecf53` **OTS Bitcoin TXID:**

`5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f` **Block:** `919084` **Merkle**

Root (from OTS proof): `51d14a6b89b363557180530c51fa192a1cdd093edcd-`

`c13fc828d2e855c985f18` **Date of Existence (UTC):** `2025-10-14T20:08:06Z` (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

31. AuditLog.AI OP_RETURN Amplify Execution

AUDITLOG.AI0072DOSSIER

The screenshot shows a Mac OS X desktop environment with several open windows:

- Terminal Window 1:** Displays log output for "CDAAI_Amplify" and "Python -m unicorn gate_ingest_api_v2:APP". It includes logs for "GlobalSubmission.v4005" and "auditlogai.REG.GlobalSubmission.v4001" requests.
- Terminal Window 2:** Displays log output for "CDAAI_Amplify" and "Python -m unicorn anchor_api_v2:APP --h...". It shows the server starting up and logs for various events like TX_BROADCAST, RECEIPT_WRITTEN, and BROADCAST_QUEUEUED.
- File Browser:** A Finder window titled "CDAAI_Amplify" showing a directory structure. The contents include:
 - AMPLIFY_LEDGER.ndjson
 - anchor_api_v2.py
 - anchors_amplified_20251012T201411Z
 - anchors_amplified_20251012T204728Z
 - anchors_amplified_20251013T034702Z
 - compliance_enforcer.py
 - confirm_watcher_v2.3.py
 - gate_idem.db
 - gate_ingest_api_v2.py
 - gate_manager.py
 - hashvalidatorblock.py
 - incoming/gate_jobs/gate_job_AuditLogAI.REG.GlobalSubmission.v4001_2025-10-12T20/10/47.669Z.json
 - incoming/gate_jobs/gate_job_AuditLogAI.REG.GlobalSubmission.v4005_2025-10-12T20/46/43.272Z.json
 - incoming/gate_jobs/gate_job_AuditLogAI.REG.GlobalSubmission.v4009_2025-10-13T03/46/07.861Z.json
 - incoming/gate_jobs/gate_job_AuditLogAI.REG.GlobalSubmission.v4016_2025-10-14T19/50/13.635Z.json
 - incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4016_20251014T195206.714055Z.json
 - logs/user_anchor_ledger.ndjson
 - opreturnanchor_amplify_v5.1.py
 - outgoing/anchored_receipts/receipt_anchored_AuditLogAI.REG.GlobalSubmission.v4001_2025-10-12T20/10/47.669Z.json
 - outgoing/anchored_receipts/receipt_anchored_AuditLogAI.REG.GlobalSubmission.v4005_2025-10-12T20/46/43.272Z.json
 - outgoing/anchored_receipts/receipt_anchored_AuditLogAI.REG.GlobalSubmission.v4009_2025-10-13T03/46/07.861Z.json
 - outgoing/broadcast_receipts/receipt_broadcast_AuditLogAI.REG.GlobalSubmission.v4001_20251012T201411Z.json
 - outgoing/broadcast_receipts/receipt_broadcast_AuditLogAI.REG.GlobalSubmission.v4005_20251012T204728Z.json
 - outgoing/broadcast_receipts/receipt_broadcast_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034702Z.json
 - queue/anchored/2ceecfb433f1f05d4023f2f45eacd2a0d4bbe18d6086063aa340f5c66a5e88a9.json
 - queue/anchored/02f71288b6f45b9527ccf8714e4d1bfa697dbb45bcda83bb93a451c81cce439c.json
 - queue/anchored/413a692f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec89ddb01.json
 - broadcast
 - confirmed

32. Broadcasted On-Chain via Bitcoin Node — Amplifier Broadcast Event

Description:

Verified payload broadcasted. OP_RETURN transaction successfully constructed and submitted to Bitcoin mainnet. Confirm watcher (`confirm_watcher_v2.3.py`) registers broadcast and monitors for on-chain confirmation.

File Reference: Screenshot 2025-10-15 at 6.53.33 am (2) `20251014T200505Z.png`

Timestamp (UTC): `20251014T200505Z` **SHA-256:** `e2b3f3b325cc6e2a9fe03bb1b304ff1b-`

`b457c0ce3a6fde11b96f996f0774eb17` **RIPEMD-160:**

`597fbbec6aa47d611da8d09e62983031fea30d` **OTS File:**

Screenshot 2025-10-15 at 6.53.33 am (2) `20251014T200505Z.png.hash.ots` **OTS SHA-256:**

`6f57096699dd99448da03d1a6c691d8395a5eb5d8535cb34120e1e79a8731be6` **OTS Bitcoin TXID:**

`5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f` **Block:** `919084` **Merkle**

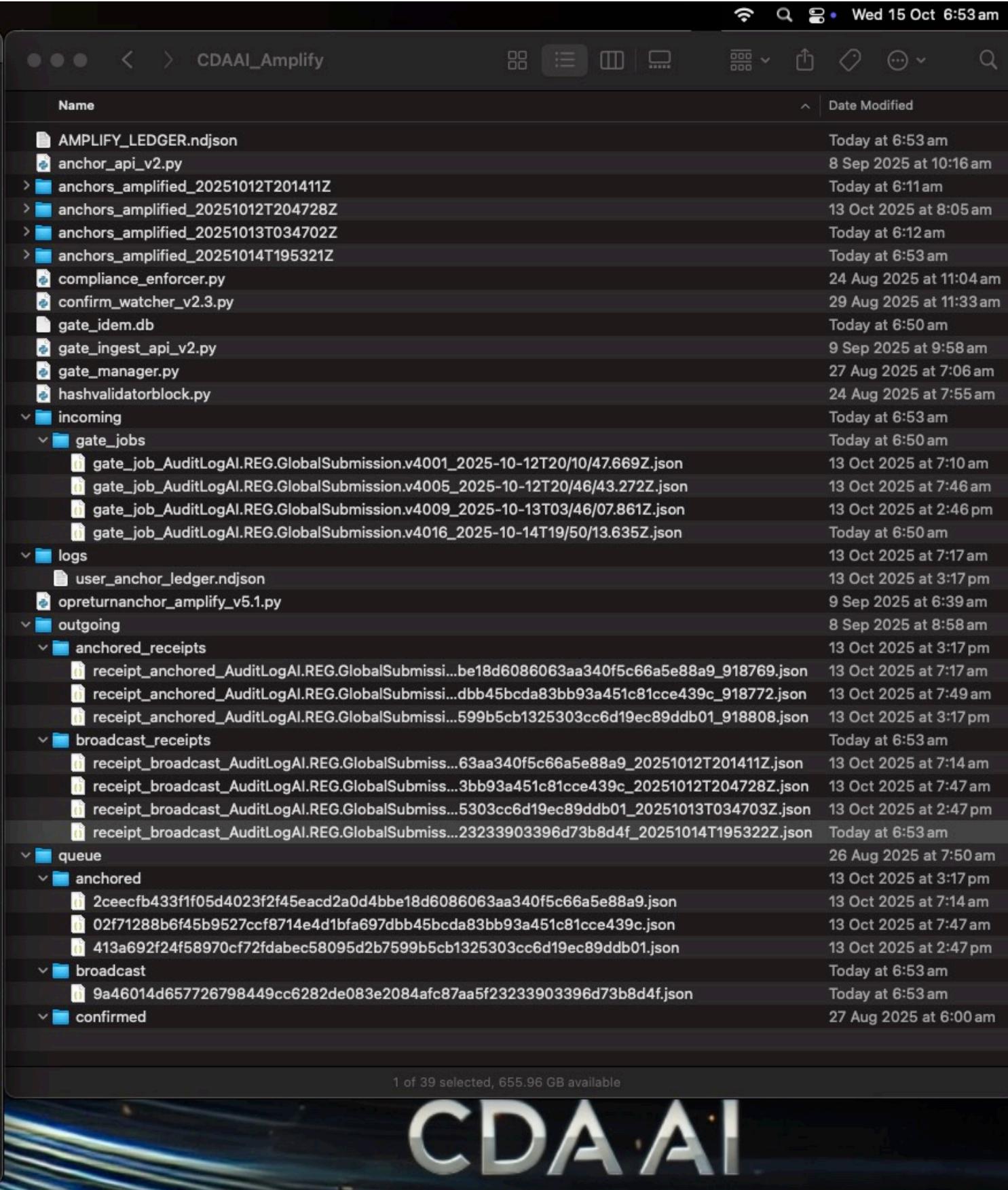
Root (from OTS proof): `51d14a6b89b363557180530c51fa192a1cdd093edcd-`

`c13fc828d2e855c985f18` **Date of Existence (UTC):** `2025-10-14T20:08:06Z` (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

32. Broadcasted On-Chain via Bitcoin Node – Amplifier Broadcast Event

AUDITLOG.AI0074DOSSIER

```
Terminal Shell Edit View Window Help
CDAAI_Amplify — Python -m unicorn gate_ingest_api_v2:APP...
.GlobalSubmission.v4016 200 OK
K
INFO: POST /v1/anchor/handoff 200 OK
INFO: GET /v1/receipt/bundle?meta_id=AuditLogAI.
REG.Glob: 200 OK
INFO: receipt/bundle?meta_id=AuditLogAI.
REG.Glob: 200 OK
INFO: GET /healthz 200 OK
INFO: "POST /v1/gate/inges 200 OK
INFO: GET /v1/gate/verify?meta_id=AuditLogAI.REG 200 OK
REG.Glob: 200 OK
INFO: POST /v1/anchor/handoff 200 OK
REG.Glob: GET /v1/receipt/bundle?meta_id=AuditLogAI.
REG.Glob: 200 OK
INFO: "POST /v1/gate/inges 200 OK
INFO: GET /v1/gate/verify?meta_id=AuditLogAI.REG 200 OK
INFO: POST /v1/anchor/handoff 200 OK
INFO: Started server process
INFO: Waiting for application startup.
INFO: Application start... completed.
INFO: Uvicorn running on [::]:8000 (Press CTRL+C to quit)
CDAAI_Amplify — -zsh — 70x34
{"ts": "2025-10-14T19:53:21.867183Z", "event": "JOB_DISCOVERED", "file": "incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4016_20251014T195206.714055Z.json", "kind": "json"}
{"ts": "2025-10-14T19:53:21.867245Z", "event": "JOB_VALIDATED", "session_id": "AuditLogAI.REG.GlobalSubmission.v4016", "payload": "SENTINEL|SESSION|f63523aba83a6b47c8fbb5c", "txid": "9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f", "wtxid": "3ef359f4b529ff78ece5d644d173e96f46868d03204c3e9709164c92e0db2r18", "allowed": true}
{"ts": "2025-10-14T19:53:22.075879Z", "event": "POLICY_ACCEPTED", "policy": {"txid": "9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f", "wtxid": "3ef359f4b529ff78ece5d644d173e96f46868d03204c3e9709164c92e0db2r18"}, "allowed": true}
{"ts": "2025-10-14T19:53:22.128438Z", "event": "TX_BROADCAST", "txid": "9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f"}
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{"ts": "2025-10-14T19:53:22.129812Z", "event": "MASTER_LEDGER_APPENDED", "path": "/Users/rosmontos/CDAAI_Amplify/AMPLIFY_LEDGER.ndjson"}
{"ts": "2025-10-14T19:53:22.130016Z", "event": "JOB_ARCHIVED", "file": "incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4016_20251014T195206.714055Z.json", "dest": "/Users/rosmontos/CDAAI_Amplify/anchors_amplified_20251014T195321Z/processed_jobs"}
{"ts": "2025-10-14T19:53:22.130332Z", "event": "BATCH_COMPLETE", "anchored": 1, "skipped": 0, "failed": 0}
rosmontos@Fernando-Mac-Studio CDAAI_Amplify % 
CDAAI_Amplify — Python confirm_watcher_v2.3.py — 74x69
, "pending": 0, "stalled": 0}
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```



File Reference: `Screenshot 2025-10-15 at 6.53.33 am (2)___20251014T200505Z.png`

33. Receipt Broadcast View

Description:

AuditLog.AI broadcast receipt confirming transaction ID and payload. Documents initial on-chain presence of the payload and writes a status:"broadcasted" record to AMPLIFY_LEDGER.

File Reference: Screenshot 2025-10-15 at 6.54.10 am (2) 20251014T200505Z.png

Timestamp (UTC): 20251014T200505Z.png **SHA-256:** deeb9656bf1608018e22a4e-

b2b6b0cf5c5197748f07e8c686f3d8eb50b4bde0c3 **RIPEMD-160:**

3a36e40aa5ca3aca4d838ee714534e743224f758 **OTS File:**

Screenshot 2025-10-15 at 6.54.10 am (2) 20251014T200505Z.png.hash.ots **OTS SHA-256:**

78713779bfb20491da0ff646c676e62307ce3bc3c006ec239646189e17cc10f0 **OTS Bitcoin TXID:**

5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f **Block:** 919084 **Merkle**

Root (from OTS proof): 51d14a6b89b363557180530c51fa192a1cdd093edcd-

c13fc828d2e855c985f18 **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

33. Receipt Broadcast View

AUDITLOG.AI0076DOSSIER

The screenshot displays a Mac OS X desktop environment with two terminal windows and a file browser.

Top Terminal:

```
{} 9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f.json ×
Users > rosmontos > CDAAI_Amplify > queue > broadcast > {} 9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f.json > {} broadcast_receipts > {} receipt_broadcast_AuditLogAI.REG.GlobalSubmission.v4016_9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f_2025
```

Bottom Terminal:

```
INFO: Application startup complete.
INFO: Uvicorn running on (Press CTRL+C to quit)
CDAAI_Amplify — zsh — 70x34
{"ts": "2025-10-14T19:53:21.867183Z", "event": "JOB_DISCOVERED", "file": "incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4016_20251014T195206.714055Z.json", "kind": "json"}
{"ts": "2025-10-14T19:53:21.867245Z", "event": "JOB_VALIDATED", "session_meta_id": "AuditLogAI.REG.GlobalSubmission.v4016", "payload": "SENTINEL|SESSION|f63523aba83a6b47c8fb5dd942d20ef6aa7ee3e|2b44af1d", "txid": "9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f", "verification_tier": "CRO", "source_job": "incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4016_20251014T195206.714055Z.json", "job_hashes": {}, "sha256": "2b44af1d4888f598c89dec992b6ce31d6fc0daab7a2480a3efb07d44bf3eb055", "ripemd160": "f63523aba83a6b47c8fb5dd942d20ef6aa7ee3e"}, {"ts": "2025-10-14T19:53:22.075879Z", "event": "POLICY_ACCEPTED", "policy": {"txid": "9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f", "wtxid": "3ef359f4b529ff78ece5d644d173e96f46868d03204c3e9709164c92e0db2818"}, {"ts": "2025-10-14T19:53:22.128438Z", "event": "TX_BROADCAST", "txid": "9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f"} {"ts": "2025-10-14T19:53:22.129335Z", "event": "BROADCAST_RECEIPT_WRITTEN", "path": "/Users/rosmontos/CDAAI_Amplify/outgoing/broadcast_receipts/receipt_broadcast_AuditLogAI.REG.GlobalSubmission.v4016_9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f_20251014T195322Z.json"}, {"ts": "2025-10-14T19:53:22.129663Z", "event": "BROADCAST_QUEUED", "path": "/Users/rosmontos/CDAAI_Amplify/queue/broadcast/9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f.json"}, {"ts": "2025-10-14T19:53:22.129812Z", "event": "MASTER_LEDGER_APPENDED", "path": "/Users/rosmontos/CDAAI_Amplify/AMPLIFY_LEDGER.ndjson"}, {"ts": "2025-10-14T19:53:22.130016Z", "event": "JOB_ARCHIVED", "file": "incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4016_20251014T195206.714055Z.json", "dest": "/Users/rosmontos/CDAAI_Amplify/anchors_amplified_20251014T195321Z/processed_jobs"}, {"ts": "2025-10-14T19:53:22.130332Z", "event": "BATCH_COMPLETE", "anchored": 1, "skipped": 0, "failed": 0}
```

File Browser:

```
{} receipt_broadcast_AuditLogAI.REG.GlobalSubmission.v4016_9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f_2025
```

The file browser shows a list of files in the directory:

- 02f71288b6f45b9527ccf8714e4d1bfa697dbb45bcda83bb93a451c81cce439c.json (13 Oct 2025 at 7:47am)
- 413a692f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec89ddb01.json (13 Oct 2025 at 2:47pm)
- broadcast
 - 9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f.json (Today at 6:53am)
- confirmed
 - 9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f.json (Today at 6:53am)

1 of 39 selected, 655.97 GB available

34. Public Explorer Broadcast Confirmation

Description:

Independent blockchain explorer (blockchain.com) view of transaction ID and payload. Confirms broadcast and alignment between AuditLog.AI receipt and network state.

File Reference: Screenshot 2025-10-15 at 6.54.40 am__20251014T200505Z.png **Timestamp (UTC):** 20251014T200505Z **SHA-256:** f1e05fbfad6b-d2f138da9d5f32ae47a230e2e166523c07a6cf810fabdc6f86d7 **RIPEMD-160:** c8b97e68b2727716135848d61f47358eb2d6f377 **OTS File:** Screenshot 2025-10-15 at 6.54.40 am__20251014T200505Z.png.hash.ots **OTS SHA-256:** e1a7cb544f37b1e6d8666d8b575-ab42b43c817359b2c0affafffc72ddcdb06269 **OTS Bitcoin TXID:** 5c28773f653c441226df3079b-f1b37c662f6c3643a544840e43098cd2a75502f **Block:** 919084 **Merkle Root (from OTS proof):** 51d14a6b89b363557180530c51fa192a1cdd093edcdc13fc828d2e855c985f18 **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

34. Public Explorer Broadcast Confirmation

AI Human Synergy™ | AuditLog.AI | Transaction: 9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f | Transaction: 9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f | + | - | ↻

blockchain.com/explorer/transactions/btc/9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f

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Bitcoin Transaction

Broadcasted on 15 Oct 2025 06:53:28 GMT+11

Hash ID
9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f

Amount 0.00043872 BTC • \$49.45
Fee 1,512 SATS • \$1.70

From bc1p9-ncyw6
To 2 Outputs

Pending

This transaction is efficient, no issues detected.

Decoded OP_Return
SENTINEL|SESSION|f63523aba83a6b47c8fbb5dd942d20ef6aa7ee3e|2b44af1d

Summary			
This transaction was first broadcasted on the Bitcoin network on October 15, 2025 at 06:53 AM GMT+11. This transaction is unconfirmed. The current value of this transaction is now \$49.45.			
Advanced Details			
Hash	9a46-8d4f	Time	15 Oct 2025 06:53:28
Age	1m 11s	Inputs	1
Input Value	0.00045384 BTC	Outputs	2
	\$51.16	Output Value	0.00043872 BTC
Fee	0.00001512 BTC		\$49.45
	\$1.70	Fee/B	6.326 sat/B
Fee/VB	8.043 sat/vByte	Size	239 Bytes
Weight	752	Weight Unit	2.011 sat/WU
Coinbase	No	Witness	Yes
RBF	Yes	Locktime	0
Version	2	BTC Price	\$112,722

Overview JSON

From

1 bc1p9mwjqrnnvehh5za3vmdr2z23pud2ed05ng9lrs5x86... 0.00045384 BTC • \$51.16

To

1 bc1p8y8c6q6tzq2jkp9lyk2j6qhwfl3nzc9g28cmd0y6smprm... 0.00043872 BTC • \$49.45

2 Unknown 0.00000000 BTC • \$0.00

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- Pax Dollar USDP
- Polygon MATIC
- Elrond EGLD
- Fei Protocol FEI
- NEO NEO
- Thorchain RUNE
- Loopring LRC
- Gnosis GNO

35. Anchor Confirmation Watcher

Description:

Console output of confirm watcher detecting transaction confirmation and promoting status from broadcasted to anchored. Performs block-height verification, and automatically appends "event":"ANCHORED_RECEIPT_WRITTEN" to both AMPLIFY ledger and the user ledger (AuditLog.AI held copy). Anchoring finalized; immutable dual-ledger entries created with verified block height.

File Reference: Screenshot 2025-10-15 at 6.55.57 am (2) __20251014T200505Z.png

Timestamp (UTC): 20251014T200505Z **SHA-256:** 534fc97ace4cd124e24e3bb-

bea02c43c98b0da2e96aa091c5270a2b31b89d9dc **RIPEMD-160:** 97438cd232bac3e3fd0e-

f96f7d41471a4f6a8030 **OTS File:** Screenshot 2025-10-15 at 6.55.57 am

(2) __20251014T200505Z.png.hash.ots **OTS SHA-256:** 71ee6254d15def87478f9d-

b4a6b338f6616b70de52ec25fe78a6d7e939bda6cc **OTS Bitcoin TXID:** 5c28773f653c441226d-

f3079bf1b37c662f6c3643a544840e43098cd2a75502f **Block:** 919084 **Merkle Root (from OTS**

proof: 51d14a6b89b363557180530c51fa192a1cdd093edcdc13fc828d2e855c985f18 **Date of**

Existence (UTC): 2025-10-14T20:08:06Z *(TXID broadcast time confirming file existence as of Bitcoin block 919084.)*

35. Anchor Confirmation Watcher

Terminal Shell Edit View Window Help

CDAAI_Amplify — Python -m unicorn gate_ingest_api_v2:APP ...

```
.GlobalSubmission.v4005
K
INFO: POST /v1/anchor/handoff 200 OK
INFO: GET /v1/receipt/bundle?meta_id=AuditLogAI.
REG.Glob
INFO: GET /receipt/bundle?meta_id=AuditLogAI.
REG.Glob
INFO: 200 OK
INFO: GET /healthz 200 OK
INFO: POST /v1/gate/ingest 200 OK
INFO: GET /v1/gate/verify?meta_id=AuditLogAI.REG
REG.GlobalSubmission.v4009
K
INFO: POST /v1/anchor/handoff 200 OK
INFO: GET /v1/receipt/bundle?meta_id=AuditLogAI.
REG.Glob
INFO: 200 OK
INFO: GET /v1/receipt/bundle?meta_id=AuditLogAI.
REG.GlobalSubmission.v4009
INFO: POST /v1/gate/ingest H 200 OK
INFO: G gAI.REG
K
INFO: " 200 OK
INFO: POST /v1/anchor/handoff 200 OK
```

CDAAI_Amplify — Python -m unicorn anchor_api_v2:APP --h...

```
INFO: Started server process [REDACTED]
INFO: Waiting for application startup.
INFO: Application startup complete.
INFO: Uvicorn running on [REDACTED] (Press CTRL+C to quit)
```

CDAAI_Amplify — zsh — 70x34

```
{"ts": "2025-10-14T19:53:21.867183Z", "event": "JOB_DISCOVERED", "file": "incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4016_20251014T195206.714055Z.json", "kind": "json"} {"ts": "2025-10-14T19:53:21.867245Z", "event": "JOB_VALIDATED", "session_meta_id": "AuditLogAI.REG.GlobalSubmission.v4016", "payload": "SENTINEL/SESSION/f63523aba83a6b47c8fb5dd942d20ef6aa7ee3e|2b44af1d"} {"ts": "2025-10-14T19:53:22.075879Z", "event": "POLICY_ACCEPTED", "policy": {"txid": "9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f", "wtxid": "3ef359f4b529ff78ace5d444d173e96f4688d03204c3e0700164c2e0db2818", "allowed": true}} {"ts": "2025-10-14T19:53:22.128438Z", "event": "TX_BROADCAST", "txid": "9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f"} {"ts": "2025-10-14T19:53:22.129335Z", "event": "BROADCAST_RECEIPT_WRITTEN", "path": "/Users/rosmontos/CDAAI_Amplify/outgoing/broadcast_receipts/receipt_broadcast_AuditLogAI.REG.GlobalSubmission.v4016_9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f_20251014T195322Z.json"} {"ts": "2025-10-14T19:53:22.129663Z", "event": "BROADCAST_QUEUEUED", "path": "/Users/rosmontos/CDAAI_Amplify/queue/broadcast/9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f.json"} {"ts": "2025-10-14T19:53:22.129812Z", "event": "MASTER_LEDGER_APPENDED", "path": "/Users/rosmontos/CDAAI_Amplify/AMPLIFY_LEDGER.ndjson"} {"ts": "2025-10-14T19:53:22.130016Z", "event": "JOB_ARCHIVED", "file": "incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4016_20251014T195206.714055Z.json", "dest": "/Users/rosmontos/CDAAI_Amplify/anchors_amplified_20251014T195321Z/processed_jobs"} {"ts": "2025-10-14T19:53:22.130332Z", "event": "BATCH_COMPLETE", "anchored": 1, "skipped": 0, "failed": 0}
```

CDAAI_Amplify — Python confirm_watcher_v2.3.py — 74x69

```
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CDAAI_Amplify

- Name
- Date Modified
- AMPLIFY_LEDGER.ndjson
- anchor_api_v2.py
- anchors_amplified_20251012T201411Z
- anchors_amplified_20251012T204728Z
- anchors_amplified_20251013T034702Z
- anchors_amplified_20251014T195321Z
- compliance_enforcer.py
- confirm_watcher_v2.3.py
- gate_idem.db
- gate_ingest_api_v2.py
- gate_manager.py
- hashvalidatorblock.py
- incoming
 - gate_jobs
 - gate_job_AuditLogAI.REG.GlobalSubmission.v4001_2025-10-12T20/10/47.669Z.json
 - gate_job_AuditLogAI.REG.GlobalSubmission.v4005_2025-10-12T20/46/43.272Z.json
 - gate_job_AuditLogAI.REG.GlobalSubmission.v4009_2025-10-13T03/46/07.861Z.json
 - gate_job_AuditLogAI.REG.GlobalSubmission.v4016_2025-10-14T19/50/13.635Z.json
 - logs
 - user_anchor_ledger.ndjson
 - opreturnanchor_amplify_v5.1.py
 - outgoing
 - anchored_receipts
 - receipt_anchored_AuditLogAI.REG.GlobalSubmission.be18d6086063aa340f5c66a5e88a9_918769.json
 - receipt_anchored_AuditLogAI.REG.GlobalSubmission.dbb45bcda83bb93a451c81cce439c_918772.json
 - receipt_anchored_AuditLogAI.REG.GlobalSubmission.599b5cb1325303cc6d19ec89ddb01_918808.json
 - receipt_anchored_AuditLogAI.REG.GlobalSubmission.84afc87aa5f23233903396d73b8d4f_919082.json
 - broadcast_receipts
 - receipt_broadcast_AuditLogAI.REG.GlobalSubmission.63aa340f5c66a5e88a9_20251012T201411Z.json
 - receipt_broadcast_AuditLogAI.REG.GlobalSubmission.3bb93a451c81cce439c_20251012T204728Z.json
 - receipt_broadcast_AuditLogAI.REG.GlobalSubmission.5303cc6d19ec89ddb01_20251013T034703Z.json
 - receipt_broadcast_AuditLogAI.REG.GlobalSubmission.23233903396d73b8d4f_20251014T195322Z.json
 - queue
 - anchored
 - 2ceecfb433f1f05d4023f2f45eacd2a0d4bbe18d6086063aa340f5c66a5e88a9.json
 - 02f71288b6f45b9527ccf8714e4d1bfa697dbb45bcda83bb93a451c81cce439c.json
 - 9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f.json
 - 413a692f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec89ddb01.json
 - broadcast
 - confirmed

1 of 40 selected, 655.94 GB available

36. Anchored Transaction – Public Explorer View #1

Description:

Explorer screenshot (mempool.space) showing confirmed Bitcoin transaction and OP_RETURN payload. Demonstrates public immutability of the anchor proof and final block inclusion. - No identifiers are published, only hashes, ensuring complete user anonymity. - Blockchain confirmation independently verified; external audit reference established.

File Reference: Screenshot 2025-10-15 at 6.54.53 am__20251014T200505Z.png **Timestamp (UTC):** 20251014T200505Z **SHA-256:** 4e38d40a89af59ed-b96ead6d17c611421c2180558531b14e03f4ac8640b9d73d **RIPEMD-160:** b237b71251d0d-b6c71ecd83aeea94a591b1f3c8e **OTS File:** Screenshot 2025-10-15 at 6.54.53 am__20251014T200505Z.png.hash.ots **OTS SHA-256:** d6357e9de8411f16028baa55ad715b37e6f5b5130cbc9d7dd797ca48405132f6 **OTS Bitcoin TXID:** 5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f **Block:** 919084 **Merkle Root (from OTS proof):** 51d14a6b89b363557180530c51fa192a1cdd093edcd-c13fc828d2e855c985f18 **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

36. Anchored Transaction – Public Explorer View #1

Screenshot of mempool.space transaction details for 9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f.

Transaction 9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f 1 confirmation

Timestamp	2025-10-15 06:57:26 (Just now)	Fee	1,512 sats \$1.70
Confirmed	After 4 minutes	Fee rate	8.04 sat/vB Overpaid 8x
Features	SegWit Taproot RBF	Miner	Binance Pool
Audit	Expected in Block		
		OP_RETURN	

Flow Hide diagram

Inputs & Outputs

	bc1p9mwjqrnnvehh5za3vmdr2z23... fqxncyw6	0.00045384 BTC		bc1p8y8c6q6tzg1 20ef6aa7ee3e 2b44af1d	0.00043872 BTC	
OP_RETURN		SENTINEL SESSION f63523 aba83a6b47c8fb5dd942d		0.00000000 BTC		
						0.00043872 BTC

37. Anchored Transaction – Public Explorer View #2

Description:

Alternate blockchain-explorer confirmation (blockchain.com). Displays block height, TXID, payload, and confirmation. Cross-verified confirmation validates network-level reproducibility and external traceability.

File Reference: Screenshot 2025-10-15 at 6.56.10 am `20251014T200505Z.png` **Timestamp (UTC):** 20251014T200505Z **SHA-256:** 498dd0c8a5248f1704b5d5ab01476851a7984b-
`b4f787b3b2699d7298acab26d9` **RIPEMD-160:** 7e4dbc52d2f4cf95d2a402f7fea1b7bf8ca5ec0 **OTS File:** Screenshot 2025-10-15 at 6.56.10 am `20251014T200505Z.png.hash.ots` **OTS SHA-256:** f46e0defff2e9423baffa220fc5adc479c3c4021e9c9c1a5f79d538f0b0135ec **OTS Bitcoin TXID:** 5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f **Block:** 919084 **Merkle Root (from OTS proof):** 51d14a6b89b363557180530c51fa192a1cdd093edcd-
`c13fc828d2e855c985f18` **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

37. Anchored Transaction – Public Explorer View #2

AUDITLOG.AI0084DOSSIER

AI Human Synergy™ | AuditLog.AI | Transaction: 9a46014d65 | Transaction: 9a46014d65 | +

blockchain.com/explorer/transactions/btc/9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f

Blockchain.com

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Bitcoin Transaction

Broadcasted on 15 Oct 2025 06:53:28 GMT+11

Hash ID
9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f

Amount 0.00043872 BTC • \$49.46
Fee 1,512 SATS • \$1.70

From bc1p9-ncyw6
To 2 Outputs

Confirmed

This transaction has 1 Confirmation. It was mined in Block 919,082

This transaction is efficient, no issues detected.

Decoded OP_Return
SENTINEL|SESSION|f63523aba83a6b47c8fb5dd942d20ef6aa7ee3e|2b44af1d

Summary

This transaction was first broadcasted on the Bitcoin network on October 15, 2025 at 06:53 AM GMT+11. The transaction currently has 1 confirmations on the network. The current value of this transaction is now \$49.46.

Advanced Details

Hash	9a46-8d4f	Block ID	919,082
Position	41	Time	15 Oct 2025 06:53:28
Age	2m 41s	Inputs	1
Input Value	0.00045384 BTC	Outputs	2
	\$51.17	Output Value	0.00043872 BTC
Fee	0.00001512 BTC	\$49.46	
	\$1.70	Fee/B	6.326 sat/B
Fee/VB	8.043 sat/vByte	Size	239 Bytes
Weight	752	Weight Unit	2.011 sat/WU
Coinbase	No	Witness	Yes
RBF	No	Locktime	0
Version	2	BTC Price	\$112,743

Overview JSON

From

1 bc1p9mwjqrnnvehh5za3vmdr2z23pud2ed05ng9irs5x86... 0.00045384 BTC • \$51.17

To

1 bc1p8y8c6q6tzq2jkp9lyk2j6qhwfl3nzc9g28cmd0y6smpmv... 0.00043872 BTC • \$49.46

2 Unknown 0.00000000 BTC • \$0.00

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38. Session Log Digest Match Validation

Description:

Screenshot demonstrating parity between session log digests and anchored OP_RETURN payload components (RIPEMD-160, sha8). Confirms that on-chain values match the exact bytes of the frozen session log JSON. Proves deterministic linkage between audit session, including all audit logs and each evidence file, to public blockchain record.

File Reference: Screenshot 2025-10-15 at 6.55.33 am__20251014T200505Z.png **Timestamp (UTC):** 20251014T200505Z **SHA-256:** 9ae00b9b0442b02f06446a3d3d7432bfe26bf52d661e35af-b214862caa2e77cd **RIPEMD-160:** 3b529fa672f8614453b99d8c76241c0a0d28de01 **OTS File:** Screenshot 2025-10-15 at 6.55.33 am__20251014T200505Z.png.hash.ots **OTS SHA-256:** 417cb4aba1ab799655c7e023db89f926d1472b43b092a87102c58e0e1b880c76 **OTS Bitcoin TXID:** 5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f **Block:** 919084 **Merkle Root (from OTS proof):** 51d14a6b89b363557180530c51fa192a1cdd093edcd-c13fc828d2e855c985f18 **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

38. Session Log Digest Match Validation

AUDITLOG.AI0086DOSSIER

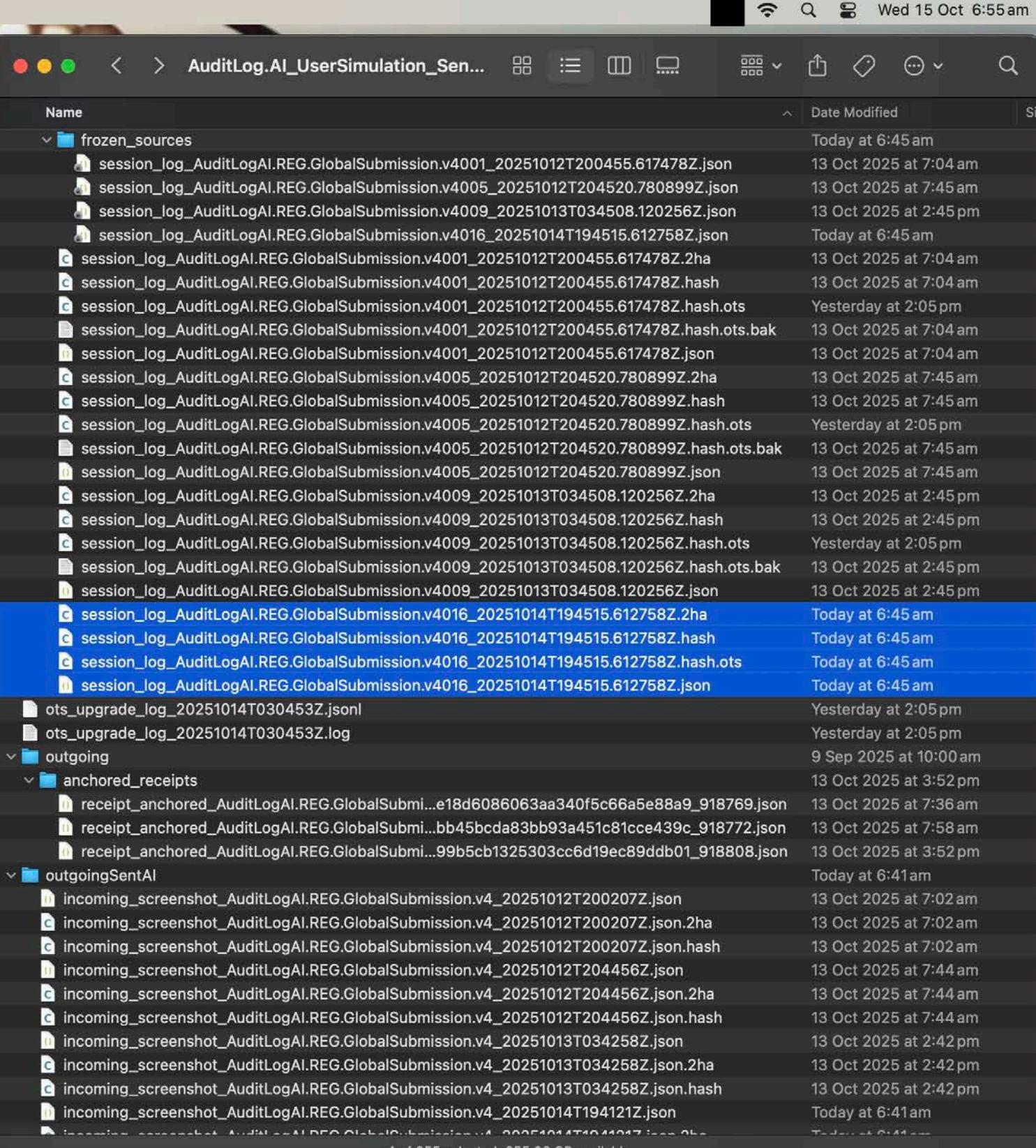
```
AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy --zsh --125x66

Submitting to remote calendar https://a.pool.opentimestamps.org
Submitting to
Submitting to
Submitting to
[OTS] Timepre
Canonical
on
[?] Immutab
=====
Batch: Audi
Folder: /Use
04_Regulator
Files (4):
1. USER
2. USER
3. USER
4. USER
=====
👤 Confirm h
[LOGGED] AUDIT_BATCH_EVIDENCE_VERIFIED
[HASHED] SHA256: dc842dee4ea7381c213e18064a7303b0b092c98d1e15e07fe4f95bcfaa810238
[2HA] RIPEMD160:
Submitting to re
Submitting to re
Submitting to re
Submitting to re
[OTS] Timeproof
Canonical fre
on
[?] Immutable B
 Done. Batches
rosmontos@Fernan
/Users/rosmontos
ime.datetime.utc
tetimes in UTC:
 session_timestamp
 Session file
session_log_AuditLo
[?] SHA256: 2b4
[2HA] RIPEMD160:
Submitting to re
Submitting to re
Submitting to re
Submitting to re
[?] OTS created:
Frozen session → /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/session_logs/frozen_sou
rces/session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.json
rosmontos@Fernando-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % export GATE_VERIFY_PUBLIC_PEM="

-----R="$PWD/logs"
export CDAAI_GATE_VERIFY_URL="https:
export CDAAI_HANDOFF_URL="https:/
export API_BEARER_TOKEN:

python3 anchor_candidate_cli_v6.1.py latest \
--approve \
--logs-dir ./logs \
--gate-verify-ur
--handoff-url

 Verified gate present and fresh (via API).
[?] HTTPS handoff accepted: /Users/rosmontos/CDAAI_Amplify/incoming/incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4016_202
51014T195206.714056Z.json
rosmontos@Fernando-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy %
```



39. Dual-Ledger Consistency Verification

Description:

Illustrates cross-comparison of dual ledgers, demonstrating atomic consistency between AMPLIFY and user (AuditLog.AI held copy) ledgers. This demonstrates no discrepancies in TXID, payload, or events, supporting reliable reproducibility. It provides evidence for regulatory inspection of ledger parity (parity check = equality on {event, txid, payload} across AMPLIFY and user ledgers).

File Reference: Screenshot 2025-10-15 at 6.57.55 am (2) 20251014T200505Z.png

Timestamp (UTC): 20251014T200505Z **SHA-256:** 0fec999b3fb5bba6434ab25f65d09e778db5eb63f946cd1f463225c64892455b **RIPEMD-160:** 034abe9c56191194293f57471084e102564101a1

OTS File: Screenshot 2025-10-15 at 6.57.55 am (2) 20251014T200505Z.png.hash.ots **OTS**

SHA-256: f7f338658c60c811fc2426b155da7e473a7aea71b1abfa2f3bbffd8acf9802a7 **OTS Bitcoin**

TXID: 5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f **Block:** 919084

Merkle Root (from OTS proof): 51d14a6b89b363557180530c51fa192a1cdd093edcd-

c13fc828d2e855c985f18 **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

39. Dual-Ledger Consistency Verification

TextEdit File Edit Format View Window Help

AMPLIFY_LEDGER.ndjson

```
{
  "ts": "2025-10-12T20:10:58.910829Z", "event": "GATE_JOB_ACCEPTED", "meta_id": "AuditLogAI.REG.GlobalSubmission.v4001", "verifier_meta_id": "DRTELLES", "kid": "auditlog-ai-llm1-v1", "signing_sha256": "22f06572085be3d3526cc2f549e04fe8fb7122ea958ae388a9393bcd6685dc", "path": "/Users/rosmontos/CDAAI_Amplify/incoming/gate_jobs/gate_job_AuditLogAI.REG.GlobalSubmission.v4001_2025-10-12T20:10:47.669Z.json", "schema": "sentinel_v4_anchor_job", "version": "1.0", "idempotency_key": "SIG-3be995b8213d46b66ba795699ec5194e4849ea3ca30fabca"}, {"ts": "2025-10-12T20:12:22.673162Z", "event": "ANCHOR_HANDOFF_ACCEPTED", "meta_id": "AuditLogAI.REG.GlobalSubmission.v4001", "path": "/Users/rosmontos/CDAAI_Amplify/incoming/incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4001_20251012T201222.659253Z.json", "schema": "sentinel_v4_anchor_job", "version": "1.0", "idempotency_key": null}, {"ts": "2025-10-12T20:14:11.693354Z", "status": "broadcasted", "chain": "btc", "session_meta_id": 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```

40. Pull Anchor Artifacts and Log Audit

Description:

Depicts retrieval of anchored artifacts via `pull_anchor_artifacts_v2.py`, updating operator's local ledger against AuditLog.AI-held user ledger. This validates successful synchronization and integrity of receipts between user and AuditLog.AI ledgers.

File Reference: Screenshot 2025-10-15 at 6.59.14 am `20251014T200505Z.png` **Timestamp**

(UTC): 20251014T200505Z **SHA-256:** b799d19ed11bed-

b4295c4eed41647fc1e85a0c20d732272b34606580a4d4d554 **RIPEMD-160:** 88cd-

b8705614a357f14c44467e8f9669c9f324a6 **OTS File:** Screenshot 2025-10-15 at

6.59.14 am `20251014T200505Z.png.hash.ots` **OTS SHA-256:**

1f33316c86a23e0661d7e80f22f6028f0cf4abc2241349024479a0397e124bb **OTS Bitcoin TXID:**

5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f **Block:** 919084 **Merkle**

Root (from OTS proof): 51d14a6b89b363557180530c51fa192a1cdd093edcd-

c13fc828d2e855c985f18 **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast*

time confirming file existence as of Bitcoin block 919084.)

40. Pull Anchor Artifacts and Log Audit

Terminal Shell Edit View Window Help

AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy -- zsh -- 125x66

```

Canonical freeze complete → logs/frozen_sources/audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.json
on
[!] Immutable Batch Audit Log Registered: logs/audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.json

[✓] Done. Batches reviewed: 4; logged: 4; skipped: 0
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 session_logger.py
/Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/session_logger.py:95: DeprecationWarning: datet
ime.datetime.utcnow() is deprecated and scheduled for removal in a future version. Use timezone-aware objects to represent da
tetimes in UTC: datetime.datetime.now(datetime.UTC).
    session_timestamp = datetime.utcnow().isoformat().replace(":", "").replace("-", "") + "Z"
[✓] Session file written: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/session_logs/ses
sion_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.json
[!] SHA256: 2b44af1d4888f598c89dec992b6ce31d6fc0daab7a2480a3efb07d44bf3eb055
[2HA] RIPEMD160: f63523aba83a6b47c8fbb5dd942d20ef6aa7ee3e
Submitting to remote calendar https://a.pool.opentimestamps.org
Submitting to remote calendar https://b.pool.opentimestamps.org
Submitting to remote calendar https://a.pool.eternitywall.com
Submitting to remote calendar https://ots.btc.cattalaxy.com
[!] OTS created: session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.hash.ots
Frozen session → /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/session_logs/frozen_so
urces/session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.json
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % export GATE_VERIFY_PUBLIC_PEM=
export SENTINEL_LOG_DIR="$PWD/logs"
export CDAAI_GATE_VERIFY_URL=
export CDAAI_HANDOFF_URL="https://"
export API_BEARER_TOKEN:

python3 anchor_candidate_cli_v6.1.py latest \
--approve \
--logs-dir ./logs \
--gate-verify-url \
--handoff-url

[✓] Verified gate present and fresh (via API).
[✓] HTTPS handoff accepted: /Users/rosmontos/CDAAI_Amplify/incoming/incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4016_20
251014T195206.714055Z.json
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 pull_anchor_artifacts_v
2.py \
"https://AuditLogAI.REG.GlobalSubmission.v4016"
✓ wrote /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/outgoing/anchored_receipts/receipt_anch
ored_AuditLogAI.REG.GlobalSubmission.v4016_9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f_919082.json
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % export SENTINEL_REVIEWER="Dr. F
ernando Telles"

python3 anchor_receipt_logger_v4.py \
--bundle-url \
--meta-id "AuditLogAI.REG.GlobalSubmission.v4016"
[LOGGED] ANCHOR_OP_RETURN_REGISTERED
[HASHED] SHA256: b867d6f67ba303dbbb9a222ed6ca73c63556a62b1ae80da41420ff8336aceb6f
[2HA] RIPEMD160: 817be8b21be9eb8067b383e2184325b36069c451
Submitting to remote calendar https://a.pool.opentimestamps.org
Submitting to remote calendar https://b.pool.opentimestamps.org
Submitting to remote calendar https://a.pool.eternitywall.com
Submitting to remote calendar https://ots.btc.cattalaxy.com
[OTS] Timeproof created: audit_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T195908.768468Z.hash.ots
Canonical freeze complete → /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/frozen_sou
rces/audit_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T195908.768468Z.json

[✓] Anchored receipt logged (CME-strict): /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/a
udit_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T195908.768468Z.json
• Hash source: bundle.job_hashes
• Ledger updated: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/Dr._Fernando_Telles_s
entinel_ledger.ndjson
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy %

```

AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy -- zsh -- 125x66

shot 2:32am 2025-10-03 Screenshots

shot 2am (2) 2025-10-04 Screenshots

shot 2:44am 2025-10-05 Screenshots

shot 4am (2) 2025-10-09 Screenshots

shot 3am (2) 2025-10-10 Screenshots

shot 3:13am 2025-10-11 Screenshots

shot 3:33am 2025-10-12 Screenshots

shot 3am (2) 2025-10-12a Screenshots

Name

Name	Date Modified
audit_log_AuditLogAI.REG.GlobalSubmission.v4017_20251013T034402.660116Z.nash.ots.bak	13 Oct 2025 at 2:44 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4017_20251013T034402.660116Z.json	13 Oct 2025 at 2:44 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4018_20251013T034406.625037Z.2ha	13 Oct 2025 at 2:44 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4018_20251013T034406.625037Z.hash	13 Oct 2025 at 2:44 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4018_20251013T034406.625037Z.ots	Yesterday at 2:05 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4018_20251013T034406.625037Z.ots.bak	13 Oct 2025 at 2:44 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4018_20251013T034406.625037Z.json	13 Oct 2025 at 2:44 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4019_20251013T034410.571939Z.2ha	13 Oct 2025 at 2:44 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4019_20251013T034410.571939Z.hash	13 Oct 2025 at 2:44 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4019_20251013T034410.571939Z.ots	Yesterday at 2:04 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4019_20251013T034410.571939Z.ots.bak	13 Oct 2025 at 2:44 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4019_20251013T034410.571939Z.json	13 Oct 2025 at 2:44 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4020_20251014T194300.697140Z.2ha	Today at 6:43 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4020_20251014T194300.697140Z.hash	Today at 6:43 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4020_20251014T194300.697140Z.ots	Today at 6:43 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4020_20251014T194300.697140Z.json	Today at 6:43 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4021_20251014T194410.245131Z.2ha	Today at 6:44 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4021_20251014T194410.245131Z.hash	Today at 6:44 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4021_20251014T194410.245131Z.ots	Today at 6:44 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4021_20251014T194410.245131Z.json	Today at 6:44 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.2ha	Today at 6:44 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.hash	Today at 6:44 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.ots	Today at 6:44 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4022_20251014T194419.495550Z.json	Today at 6:44 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.2ha	Today at 6:44 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.hash	Today at 6:44 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.ots	Today at 6:44 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.json	Today at 6:44 am
Dr._Fernando_Telles_sentinel_ledger.ndjson	Today at 6:59 am
frozen_sources	Today at 6:59 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4001_20251012T200349.909951Z.json	13 Oct 2025 at 7:03 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4001_20251012T203709.581616Z.json	13 Oct 2025 at 7:37 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4002_20251012T200410.242945Z.json	13 Oct 2025 at 7:04 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4003_20251012T200416.115471Z.json	13 Oct 2025 at 7:04 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4004_20251012T200421.425989Z.json	13 Oct 2025 at 7:04 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4005_20251012T204508.146233Z.json	13 Oct 2025 at 7:45 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4005_20251012T205825.509802Z.json	13 Oct 2025 at 7:58 am
audit_log_AuditLogAI.REG.GlobalSubmission.v4006_20251013T034315.926371Z.json	13 Oct 2025 at 2:43 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4007_20251013T034321.999677Z.json	13 Oct 2025 at 2:43 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4008_20251013T034326.537572Z.json	13 Oct 2025 at 2:43 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034331.225725Z.json	13 Oct 2025 at 2:43 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T045259.167185Z.json	13 Oct 2025 at 3:52 pm
audit_log_AuditLogAI.REG.GlobalSubmission.v4010_20251013T034334.937409Z.json	13 Oct 2025 at 2:43 pm

1 of 261 selected, 655.89 GB available

41. AuditLogger – Final Anchor Event

Description:

Captures mandatory audit log entry registering the anchor event, including linkage to TXID and block. This ensures complete audit trail closure with full traceability.

File Reference: Screenshot 2025-10-15 at 6.59.34 am__20251014T200505Z.png **Timestamp (UTC):** 20251014T200505Z **SHA-256:** 42815c031071fade8f166dd9bfbc23d30f25f497762ad-f43c9e137585600894e **RIPEMD-160:** b2e2b690332662540a51e753cf1ef6aba09611f6 **OTS File:** Screenshot 2025-10-15 at 6.59.34 am__20251014T200505Z.png.hash.ots **OTS SHA-256:** 97e036c5f88b5c7c096835d7eb4c663e10d18f80c74d6e0503ba8b7c10a72816 **OTS Bitcoin TXID:** 5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f **Block:** 919084 **Merkle Root (from OTS proof):** 51d14a6b89b363557180530c51fa192a1cdd093edcd-c13fc828d2e855c985f18 **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

41. AuditLogger – Final Anchor Event

AUDITLOG.AI0092DOSSIER

The screenshot shows a Mac desktop environment with two terminal windows open and a dock at the bottom.

Terminal Window 1 (Left):

```

Canonical freeze complete → logs/frozen_sources/audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.json
on
[?] Immutable Batch Audit Log
[?] Done. Batches reviewed: 4;
rosmontos@Fernandos-Mac-Studio:~/Users/rosmontos/AuditLog.AI_L
/RUN-20251012-S01", "txid": "2ceecfb433f1f05d4023f2f45eacd2a0d4bbe18d6086063aa340f5c66a5e88a9",
"block_height": 918769, "payload": "SENTINEL|SESSION|9da9157e665088e67a2dfbd45cb7140c3895ec8|
29878732", "sha256": "298787323e3b46f9975bb1856bbb9b6f2a8d5eb677c4d9a9c949382744c66dc7",
"ripemd160": "9da9157e665088e67a2dfbd45cb7140c3895ec8", "reviewer": "Dr. Fernando Telles",
"source": "bundle.job_hashes"
["] Session file written: /User
sion_log_AuditLogAI.REG.Globa
[?] SHA256: 2b44af1d4888f598c
[2HA] RIPEMD160: f63523aba83a
Submitting to remote calendar
Submitting to remote calendar
Submitting to remote calendar
Submitting to remote calendar
[?] OTS created: session_log_/
Frozen session → /Users/ro
ources/session_log_AuditLogAI.R
rosmontos@Fernandos-Mac-Studio:
$ cat /tmp/pub.b64"
export SENTINEL_LOG_DIR="$PWD"
export CDAAI_GATE_VERIFY_
export CDAAI_HANDOFF_URL=
export API_BEARER_TOKEN=
python3 anchor_candidate_cli_\
--approve \
--logs-dir ./logs \
--gate-verify-
--handoff-url
[?] Verified gate present and fresh (via API).
[?] HTTPS handoff accepted: /Users/rosmontos/CDAAI_Amplify/incoming/incoming_anchor_AuditLogAI.REG.GlobalSubmission.v4016_202
51014T195206.714055Z.json
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % python3 pull_anchor_artifacts_v
2.py \
[AuditLogAI.REG.GlobalSubmission.v4016"
wrote /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/outgoing/anchored_receipts/receipt_anch
ored_AuditLogAI.REG.GlobalSubmission.v4016_9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f_919082.json
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % export SENTINEL_REVIEWER="Dr. F
ernando Telles"
python3 anchor_receipt_logger_v4.py \
--bundle-url \
--meta-id "AuditLogAI.REG.GlobalSubmission.v4016"
[LOGGED] ANCHOR_OP_RETURN_REGISTERED
[HASHED] SHA256: b867d6f7ba303dbbb9a222ed6ca73c63556a62b1ae80da41420ff8336aceb6f
[2HA] RIPEMD160: 817be8b21be9eb8067b383e2184325b36069c451
Submitting to remote calendar https://a.pool.opentimestamps.org
Submitting to remote calendar https://b.pool.opentimestamps.org
Submitting to remote calendar https://a.pool.eternitywall.com
Submitting to remote calendar https://ots.btc.catalaxy.com
[OTS] Timeproof created: audit_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T195908.768468Z.hash.ots
[?] Canonical freeze complete → /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/frozen_sou
rces/audit_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T195908.768468Z.json
[?] Anchored receipt logged (CME-strict): /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/a
udit_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T195908.768468Z.json
• Hash source: bundle.job_hashes
• Ledger updated: /Users/rosmontos/AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy/logs/Dr._Fernando_Telles_s
entinel_ledger.ndjson
rosmontos@Fernandos-Mac-Studio AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy % []

```

Terminal Window 2 (Right):

```

audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.json
Users > rosmontos > AuditLog.AI_UserSimulation_SentinelProtocolv4_AIHumanSynergy > logs > {} audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.json
1 {
  "timestamp": "2025-10-14T19:44:25.351993Z",
  "event": "AUDIT_BATCH_EVIDENCE_VERIFIED",
  "meta_id": "AuditLogAI.REG.GlobalSubmission.v4023",
  "input": {
    "batch_filenames": [
      "USER_PreExecution_FolderView_Screenshot 2025-10-15 at 6.29.48\u202famAEST__20251014T193659Z.png",
      "USER_PreExecution_FolderView_Screenshot 2025-10-15 at 6.30.04\u202famAEST__20251014T193659Z.png",
      "USER_PreExecution_FolderView_Screenshot 2025-10-15 at 6.31.27\u202famAEST__20251014T193659Z.png",
      "USER_PreExecution_FolderView_Screenshot 2025-10-15 at 6.31.35\u202famAEST__20251014T193659Z.png"
    ],
    "evidence_type": "SHA256-RIPEMD160 reproducibility (deferred)",
    "session_context": "AuditLogAI.REG.GlobalSubmission.v4-RUN-20251014-S01",
    "batch_screenshot_pre": "PRE_20251014T193659Z.png",
    "batch_screenshot_post": "POST_20251014T193727Z.png",
    "validation_step": "valis_batchauditlogger_template_v3.1 active. Meta-ID: USER_PreExecution_FolderVi
    "delta_seconds": 28,
    "executed_template": "valis_batchauditlogger_template_v3.1"
  },
  "output": {
    "status": "verifiable",
    "verifiable": true,
    "final_hash_disclosed": false,
    "audit_type": "REPRODUCIBILITY",
    "meta_id": "AuditLogAI.REG.GlobalSubmission.v4-LOG-USER_PreExecution_FolderView_REGULATORY-RUN-20251
    "folder_dual_hash": "33e8d0f2cc84f17bf44167d7ab5b7d0023f5adcf"
  },
  "audit": {
    "AI_used": true,
    "LLM_used": "LLM1",
    "human_verified": true,
    "module_version": "v.october14.25",
    "ai_editor_LLM_human_agreement": true,
    "VALIS_template_enforced": true,
    "reviewer": "Dr. Fernando Telles",
    "human_signature": {
      "signer": "DRTELLES",
      "decision": "approved",
      "reason": "batch verified; 4 files; \u0394=28s; PRE=PRE_20251014T193659Z.png; POST=POST_20251014
      "signed_at": "2025-10-14T19:44:25.352019Z"
    },
    "AI_override": false
  },
  "timestamp_confirmed": true
}

```

Dock Icons:

- Finder
- Spotlight
- Photos
- Chrome
- Zoom
- Mail
- Calendar (Oct 15)
- System Preferences
- Bitcoin
- VS Code
- Word
- Excel
- Notes
- Trash

42. AuditLog.AI Quality Management System (QMS) and Pre-Public Deployment Audit Log

Description:

The AuditLog.AI operating system was developed, tested and validated under Sentinel Protocol's QMS. The Foundational Reproducibility and Infrastructure Audit Record was published via dual-DOI and immutably inscribed to the Bitcoin mainnet via ordinal technology on July 30, 2025. Regulators are invited for independently verification, publication is available through:

Telles, F. (2025). Sentinel Protocol v3.1 – Infrastructure Pre-Public Deployment Audit Log. DOI: [10.13140/RG.2.2.29180.65924](https://doi.org/10.13140/RG.2.2.29180.65924)
 Zenodo: [10.5281/zenodo.16607606](https://zenodo.16607606) Ordinal: TXID: ae198274a00abb8296a3b9412e6fd3a62360b-cf062e000fa2908d8f3b90e803

Provenance Sessions: SENTINFRA-SESS001_20250719T074009.072317Z SENTINFRA-SESS005_20250728T035324.098266Z

Status: AUDIT PASS

Validator Agreement: 3/3

OP_RETURN TXID: c4d2e53197983bf84f219b6b3cf4912fa5ebd3c030ae3deb7f35c1eef135e1c

OP_RETURN Payload: SENTINEL|SENTINFRA-SESS001|2ebc6ec29d3195f6d3b7050cac-

c75e145aaa1ad7 **Block:** 906434 **OP_RETURN TXID:**

ea2251eeaaf2f288e0f249d3c4c57346c934636aa2d37a7cac930537d1e3aaaa **OP_RETURN Pay-**

load: SENTINEL|SENTINFRA-SESS005|ec6ae8259da7c55958b156c5b7998633e3db18dc **Block:**

907511

Independent System Validators:

Architect Validator: Dr. Fernando Telles BMedSc(Adv) MD(Dist) **Validator meta_id:** DR-TELLES-VAL

Audit: - TXID: ccf9dc6dde2136b5e2adf035532233cfbee255fb3704f8f5838b0de730f41eca0 -

OP_RETURN payload: DRTELLES-VAL001 | PASS | SENTINFRA-SESS001 |

05cea9a984e521547de3a405b79fd93c769424fe - Bitcoin Block: 906434

Independent Medical Validator: Dr. Andrew Woo Bsc MD **Validator meta_id:** DRWOO-VAL

Audit: - TXID: fd8f0406f4db2bf39d37a825e8dbd554028d72044813bbda864290fa4e88e0b6 -

OP_RETURN payload: DRWOO-VAL001 | PASS | SENTINFRA-SESS001|a54419605f5cb9fa7ce39d-

d5716fc18f9d43f464 - Bitcoin Block: 907047

Independent Engineering Validator: Benjamin Hookey BEng (Mechatronics & Robotics), FSEng (Safety Instrumented Systems)

Validator meta_id: ENGHOOKEY-VAL

Audit: - TXID: a5622ac48c93017215a7fb7af6a69bb965220bb3a86e798e721d1f548033a5e3 - Pay-

AuditLog.AI — Runtime Execution and System Validation Evidence

load: ENGHOOKEY-VAL001 | PASS | SENTINFRA-SESS001 | cc4652bfc2ffb00d81982dff11a704204fe8c15

- Bitcoin Block: 907041

(Note: Legacy OP_RETURN schema (v3.x, pre-upgrade). Shown for historical provenance.

Current v4 schema is SENTINELIII per C5.3.1.)

43. AuditLog.AI Live Runtime Execution Audit Infrastructure Integrity Provenance

Description:

The process of AuditLog.AI submission to global regulators (FDA/EMA/TGA) was recorded utilizing the software itself. As a result, immutable audit trails were generated recording the evolution of all submission documents with full transparency. The live execution screenshots included within this Dossier were audited to demonstrate 100% SHA-256 and RIPEMD-160 reproducibility. The original source document will be converted from markdown to PDF and submitted to regulators as a standalone Annex. Excerpts from this audit is provided below.

Excerpt 01: Audit Status PASS

```
**Verification Method:** Human (Dr. Fernando Telles) Manual Re-execution + `dualhasher_public_sentinel_v1.1.py`_20250809T030248.075732Z` + `extract_hashes.py`_20250809T030248.072046Z` + `folder_dualhasher_v2.py` + LLM3 (Anchor) + LLM2 (Validator)
**Verification Target:** Dual hash (`sha256`, `ripemd160`)
**Outcome:**
- SHA256 match on all files
- RIPEMD160 match on all files
- RIPEMD160 match on folders
- AUDIT_REPRODUCIBILITY_PASS

## **Human Verification Declaration:**
```

I, Dr. Fernando Telles, confirm that the original document for dual-Hashes System Validation Screenshots was compiled manually by me. LLM3 Anchor audit was performed on 17 October 2025 identifying 1 (one) human error:

! Screenshot #38 (`Screenshot 2025-10-15 at 6.55.33 am`_20251014T200505Z.png) missing RIPEMD-160 hash

I verified the error identified by LLM3 as a true human error, and corrected the document accordingly into its final version which was frozen as immutable pre-audit evidence using AuditLog.AI

`Hashes_SystemValidationScreenshots`_20251017T203710Z.md`.

Audit specifics:

- This audit was initiated only after freezing of pre-audit evidence
- This audit was performed manually by myself
- Completed Audit will now be dual-hashed, opentimestamped and bitcoin anchored using AuditLog.AI as pre-audit evidence for submission to LLM3 (Anchor) and LLM2 (Validator) in parallel for independent validation
- In order to independently verify the system, AuditLog.AI scripts (provenance `session_log_AuditLogAI.REG.GlobalSubmission.v4026_20251017T202205.834235Z.json`) were NOT used for this audit. Instead, audit was performed using publicly available tools we developed for independent validators (available through https://github.com/TELAI-SYN/AI-Human-Synergy/tree/main/Sentinel_Protocol_v3.1/validator_tools).

Excerpt 02: Open Disclosure of Duplicate non-evidence screenshots

Duplicate non-evidence screenshots detected during the hash integrity audit. Identical screenshot sets:

- set01: `Screenshot 2025-10-15 at 6.36.49 am (2) 20251014T200505Z.png` and `Screenshot 2025-10-15 at 6.37.46 am (2) 20251014T200505Z.png`
- set02: `Screenshot 2025-10-15 at 6.44.37 am (2) 20251014T200505Z.png` and `Screenshot 2025-10-15 at 6.44.02 am (2) 20251014T200505Z.png` and `Screenshot 2025-10-15 at 6.42.52 am (2) 20251014T200505Z.png`
- set03: `Screenshot 2025-10-15 at 6.37.00 am (2) 20251014T200505Z.png` and `Screenshot 2025-10-15 at 6.37.14 am (2) 20251014T200505Z.png`

These sets have been identified as byte-identical, producing the same SHA-256 and RIPEMD-160 digests.

Root cause: duplicate screenshots sets were automatically captured by macOS's full-screen capture function across a dual-monitor setup while the operator guidance runbook window was maximized on non-evidence secondary monitor view. Because no visual differences (e.g., clock, cursor, or secondary content) existed between the two frames, the resulting image files are identical at the binary level.

Regulatory relevance:

These image sets do not represent distinct evidence events. They are background captures from the operator's execution environment and are not part of the dossier evidence set submitted for regulatory review. Their inclusion in the manifest reflects full-disclosure of automated capture and batch hashing of all session artifacts, not intentional duplication of audit content.

Integrity handling:

Files remain hashed and timestamped within the session manifest for reproducibility. Their duplication has no material effect on validation integrity or cryptographic audit completeness. The event has been disclosed for full transparency as `Non_evidence_Screenshots_identical_set01.pdf`, `Non_evidence_Screenshots_identical_set02.pdf` and `Non_evidence_Screenshots_identical_set03.pdf`.

Provenance Session_log:

`session_log_AuditLogAI.REG.GlobalSubmission.v4038_20251018T214519.997259Z.json`

Session Meta_id: AuditLogAI.REG.GlobalSubmission.v4038 **Timestamp (UTC):**

20251018T214519.997259Z **SHA-256:** 5af54564b05e7ae9c8e6b4c918ca19586ca3c7e58af6b72806-

fa08603b27e844 **RIPEMD-160:** fb5e9fa9e3873fe2236eaf1c60c4fc7dd0968c5a **OTS File:** ses-

sion_log_AuditLogAI.REG.GlobalSubmission.v4038_20251018T214519.997259Z.hash.ots **OTS**

SHA-256: 40f3a9bf146ba3294bf682eeb260bfbe7eb3813c9f313660fcda89499c518b33 **OTS Bitcoin**

TXID: 0fec86753224355204bf6a4e9ef0106302a2a597c116236279ab5ce44484f0b7 **Block:** 919723

Merkle Root (from OTS proof): a460deac9d9a2027e72bf90a137786d5b29bb83b4d144868671032e-

f724ff990 **Date of Existence (UTC):** 2025-10-18T22:40:46Z (*TXID broadcast time confirming file existence as of Bitcoin block 919723.*)

OP_RETURN Anchor

Transaction ID: 11fb255046a7934e5c978b3d0887318f85af3324b040873ce6026fea6c8af13d **Pay-load:** SENTINEL|SESSION|fb5e9fa9e3873fe2236eaf1c60c4fc7dd0968c5a|5af54564 **Block:** 919720

Evidence File:

AUDIT_REPRODUCIBILITY_PASS_sha256_ripemd160_AuditLog.AI_v.oct18.25__20251018T214357Z.m
d

Linked manifest: manifest_markdown_to_pdf_conversions_REGULATORY-RUN-20251018-S02.csv

SHA-256: 7966a393ec2798dd609074e99249cb61d7c9220ad3a7e128398f5ed4c7b9e051

RIPEMD-160: 7f15cad8acc59548a6eb256f38196db6e8474c79 **OTS File:**

AUDIT_REPRODUCIBILITY_PASS_sha256_ripemd160_AuditLog.AI_v.oct18.25__20251018T214357Z.m
d.hash.ots **OTS SHA-256:** 06343134dd0ff461af9d422c59de0a0c8607855aaa203c-

c2f87549afe54a6b3d **OTS Bitcoin TXID:** 0fec86753224355204bf6a4e9e-

f0106302a2a597c116236279ab5ce44484f0b7 **Block:** 919723 **Merkle Root (from OTS proof):**

a460deac9d9a2027e72bf90a137786d5b29bb83b4d144868671032ef724ff990 **Date of Existence**

(UTC): 2025-10-18T22:40:46Z (*TXID broadcast time confirming file existence as of Bitcoin block 919723.*)

Provenance

AuditLog.AI — Runtime Execution and System Validation Evidence

End-to-End Operational Proof During Regulatory Global Submission

Linked Runtime Scripts

User Node: (/frozen_files_Validated_AuditLog.AI_v.12sep.25_REGULATORY-RUN-20251017-S12/User_scripts) - anchor_candidate_cli_v6.1_20251017T200502Z.py - anchor_receipt_logger_v4_20251017T200502Z.py - assert_verified_gate_job_20251017T200502Z.py - audit_verify_v1.2_20251017T200502Z.py - auditlogger_20251017T200502Z.py - batch_dualhasher_multi_v3.3_20251017T200502Z.py - batch_ots_stamper_v2_20251017T200502Z.py - batch_ots_upgrader_v2.1_20251017T200502Z.py - human_verifier_20251017T200502Z.py - pull_anchor_artifacts_v2_20251017T200502Z.py - screen-shot_handoff_cli_v2_20251017T200502Z.py - session_logger_20251017T200502Z.py - validate_batchauditlogger_template_v3.1_20251017T200502Z.py - validate_batchnameverifier_v2_20251017T200502Z.py

AuditLog.AI Node: (/frozen_files_Validated_AuditLog.AI_v.12sep.25_REGULATORY-RUN-20251017-S04/CDAAI_scripts) - anchor_api_v2_20251017T200502Z.py - confirm_watcher_v2.3_20251017T200502Z.py - gate_ingest_api_v2_20251017T200502Z.py - opreturnanchor_amplify_v5.1_20251017T200502Z.py

Shared - compliance_enforcer_20251017T200502Z.py - gate_manager_20251017T200502Z.py - hashvalidatorblock_20251017T200502Z.py

Interface: (/frozen_files_Validated_AuditLog.AI_v.12sep.25_REGULATORY-RUN-20251017-) - Vercel UI: AuditLog.AI e-Signature Gate

Provenance Session_log:

session_log_AuditLogAI.REG.GlobalSubmission.v4020_20251014T200606.551974Z.json

- **Session Meta_id:** AuditLogAI.REG.GlobalSubmission.v4020
- **Timestamp (UTC):** 20251014T200606.551974Z
- **SHA-256:** 5c009fb3e680ca41e0e17aefe3bc931ec00b195e8faa0eb3f546d059930b0724
- **RIPEMD-160:** 041cf98418a6ae39dbcc5d3e49e60a06a5112993

AuditLog.AI — Runtime Execution and System Validation Evidence

• **OTS File:** ses-

```
sion_log_AuditLogAI.REG.GlobalSubmission.v4020_20251014T200606.551974Z.hash.ots
```

• **OTS SHA-256:** c26576aaa708bdb17285f011d1d9c7880a3e5f8f334d2a64ebc2511bf2f12c2a• **OTS Bitcoin TXID:** 5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f**Block:** 919084• **Merkle Root (from OTS proof):** 51d14a6b89b363557180530c51fa192a1cdd093edcd-c13fc828d2e855c985f18• **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)**OP_RETURN Anchor****Transaction ID:** d096197e02a8f1ac9ca7da43d353f109fe4ff72f6ae7f88b39c83877247e9ef7**Pay-****load:** SENTINEL|SESSION|041cf98418a6ae39dbcc5d3e49e60a06a5112993|5c009fb3**Block:**

919084

Audit_log:**audit_log_AuditLogAI.REG.GlobalSubmission.v4025_20251014T200556.273909Z.json**• **Linked Dossier Evidence:** 3-20, 22-23, 25, 28, 34, 36-38, 40-41• **Linked manifest:** manifest_User_REGULATORY-RUN-20251014-S02.csv• **SHA-256:** 1c9f6e2cc1ff9ce1e615cca36083a3a558468edccefcdd19b86dca3ff082897c• **RIPEMD-160:** 56ee6f1e48405a6ca6ef5fda34e842525c06f199• **OTS File:**

```
audit_log_AuditLogAI.REG.GlobalSubmission.v4025_20251014T200556.273909Z.hash.ots
```

• **OTS SHA-256:** 1323e7ab0aa18f63d8ffa051cf88121941aaa658184deb60e2d8b79ba79a3d• **OTS Bitcoin TXID:** 5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f**Block:** 919084• **Merkle Root (from OTS proof):** 51d14a6b89b363557180530c51fa192a1cdd093edcd-c13fc828d2e855c985f18• **Date of Existence (UTC):** 2025-10-14T20:08:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)**Audit_log:****audit_log_AuditLogAI.REG.GlobalSubmission.v4024_20251014T200552.935806Z.json**• **Linked Dossier Evidence:** 24, 26-27, 29-33, 35, 39• **Linked manifest:** manifest_CDAAI_REGULATORY-RUN-20251014-S01.csv• **SHA-256:** 62a3b9a89b4a812027fabf29492f4cefe408cc6e78db5ab07f0f9cd9eef16770• **RIPEMD-160:** d0c075e79ef8d55d3b6a4eb2c9a753c209c7e96e

AuditLog.AI — Runtime Execution and System Validation Evidence

• OTS File:

`audit_log_AuditLogAI.REG.GlobalSubmission.v4024_20251014T200552.935806Z.hash.ts`

• OTS SHA-256: `5c28773f653c441226df3079bf1b37c662f6c3643a544840e43098cd2a75502f`

• OTS Bitcoin TXID: `c355bc2b7d88d70ffd5bd6745cfdc40aa348cd8b3b34dfb7adec-c853c9486ddb` **Block:** `919084`

• Merkle Root (from OTS proof): `51d14a6b89b363557180530c51fa192a1cdd093edcd-c13fc828d2e855c985f18`

• Date of Existence (UTC): `2025-10-14T20:08:06Z` (*TXID broadcast time confirming file existence as of Bitcoin block 919084.*)

Provenance Session_log:

`session_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.json`

• Session Meta_id: `AuditLogAI.REG.GlobalSubmission.v4016`

• Timestamp (UTC): `20251014T194515.612758Z`

• SHA-256: `2b44af1d4888f598c89dec992b6ce31d6fc0daab7a2480a3efb07d44bf3eb055`

• RIPEMD-160: `f63523aba83a6b47c8fbb5dd942d20ef6aa7ee3e`

• OTS File: `ses-`

`sion_log_AuditLogAI.REG.GlobalSubmission.v4016_20251014T194515.612758Z.hash.ts`

• OTS SHA-256: `c6df3b2bf6a8b3e13c40f2139f61b2dd7440b8e2a10a321c86b891b3626c2c0b`

• OTS Bitcoin TXID: `10e650706acadd74115a38042becea8ccbe58eac7146a9d1c9193ed027ca8cb7` **Block:** `919083`

• Merkle Root (from OTS proof):

`416d0f316dec37bdbccdfb142775154e704a203ed41c94dcf10765dce6f7a4fa`

• Date of Existence (UTC): `2025-10-14T19:56:06Z` (*TXID broadcast time confirming file existence as of Bitcoin block 919083.*)

OP_RETURN Anchor

Transaction ID: `9a46014d657726798449cc6282de083e2084afc87aa5f23233903396d73b8d4f` **Pay-load:** `SENTINEL|SESSION|f63523aba83a6b47c8fbb5dd942d20ef6aa7ee3e|2b44af1d` **Block:** `919082`

Audit_log:

`audit_log_AuditLogAI.REG.GlobalSubmission.v4020_20251014T194300.697140Z.json`

• Linked Dossier Evidence: `2`

• Linked manifest: `manifest_CDAAI_PreExecution_FolderView_REGULATORY-RUN-20251014-S01.csv`

AuditLog.AI — Runtime Execution and System Validation Evidence

- **SHA-256:** 22b4c889342ce49df6919cfe2031e514f8dc4c919bc01f5de46a1d11f3d4e59
- **RIPEMD-160:** cffc255cfe7d5441891a576f21fb99ddbc8c75b2
- **OTS File:**

```
audit_log_AuditLogAI.REG.GlobalSubmission.v4020_20251014T194300.697140Z.hash.o
ts
```

- **OTS SHA-256:** b38543beb8fdc0b362e137fe0240cf8e-f76c3a421f6d3406b215c392862a68fc
- **OTS Bitcoin TXID:** 10e650706acadd74115a38042becea8c-cbe58eac7146a9d1c9193ed027ca8cb7 **Block:** 919083
- **Merkle Root (from OTS proof):**

```
416d0f316dec37bdbccdfb142775154e704a203ed41c94dcf10765dce6f7a4fa
```

- **Date of Existence (UTC):** 2025-10-14T19:56:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919083.*)

Audit_log:

```
audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.json
```

- **Linked Dossier Evidence:** 1
- **Linked manifest:** manifest_USER_PreExecution_FolderView_REGULATORY-RUN-20251014-S04.csv
- **SHA-256:** dc842dee4ea7381c213e18064a7303b0b092c98d1e15e07fe4f95bcfaa810238
- **RIPEMD-160:** 76a1ae67e00ba9f604a23dc65e4e7b66dc557099
- **OTS File:**

```
audit_log_AuditLogAI.REG.GlobalSubmission.v4023_20251014T194425.352577Z.hash.o
ts
```

- **OTS SHA-256:** 67a307877305241369ba4e69e4f9e495554652bcc188249d29441f2fd7883f4d
- **OTS Bitcoin TXID:** 10e650706acadd74115a38042becea8c-cbe58eac7146a9d1c9193ed027ca8cb7 **Block:** 919083
- **Merkle Root (from OTS proof):**

```
416d0f316dec37bdbccdfb142775154e704a203ed41c94dcf10765dce6f7a4fa
```

- **Date of Existence (UTC):** 2025-10-14T19:56:06Z (*TXID broadcast time confirming file existence as of Bitcoin block 919083.*)

Provenance Session_log:

```
session_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.json
```

- **Session Meta_id:** AuditLogAI.REG.GlobalSubmission.v4009
- **Timestamp (UTC):** 20251013T034508.120256Z
- **SHA-256:** 862010c85fda0bfb02be23bb4316eea13966d374e60baa271f6292ef9416604b
- **RIPEMD-160:** 7e37072aeb1f857fb3245d9cdadc80356ff8563f

AuditLog.AI — Runtime Execution and System Validation Evidence

• OTS File:

`ses-sion_log_AuditLogAI.REG.GlobalSubmission.v4009_20251013T034508.120256Z.hash.ots`

• OTS SHA-256:

`aa327f72e2799c98a4f1ea5ff83cda1fc2cf4b9670d90072d865f9c-fa53d6bfd`

• OTS Bitcoin TXID:

`eabcee5e6ffffeb6fc6b3c7807165ae863b383fb8459aa0d311726026302ef0e9`

Block: 918813

• Merkle Root (from OTS proof):

`f161f7b058a1156af142f50a5dc6952b97d2dc897d4e912d6b68dd8119704744`

• Date of Existence (UTC):

`2025-10-12T17:07:56Z` (*TXID broadcast time confirming file existence as of Bitcoin block 918813.*)

OP_RETURN Anchor

Transaction ID: `413a692f24f58970cf72fdabec58095d2b7599b5cb1325303cc6d19ec89ddb01` **Pay-**

load: `SENTINEL|SESSION|7e37072aeb1f857fb3245d9cdadc80356ff8563f|862010c8` **Block:**

`918808`

Audit_log:

`audit_log_AuditLogAI.REG.GlobalSubmission.v4007_20251013T034321.999677Z.json`

• Linked Dossier Evidence:

`21`

• Linked manifest:

`manifest_AuditLog.AI_Human_gate_REGULATORY-RUN-20251013-S02.csv`

• SHA-256:

`e5b5aa84b5a8c910bf69bc14c0030c21bd42fa84efaacff955f7a395ac86207d`

• RIPEMD-160:

`8376fb437f11e1d2bc2eb147363b7f1a88205d5f`

• OTS File:

`audit_log_AuditLogAI.REG.GlobalSubmission.v4007_20251013T034321.999677Z.hash.ots`

• OTS SHA-256:

`c6a9707074f416ee292249f1dbb26a55be5a1c2dd676bc40ae7ba64bfeb-d8abb`

• OTS Bitcoin TXID:

`eabcee5e6ffffeb6fc6b3c7807165ae863b383fb8459aa0d311726026302ef0e9`

Block: 918813

• Merkle Root (from OTS proof):

`f161f7b058a1156af142f50a5dc6952b97d2dc897d4e912d6b68dd8119704744`

• Date of Existence (UTC):

`2025-10-12T17:07:56Z` (*TXID broadcast time confirming file existence as of Bitcoin block 918813.*)