

SIMPLESTATES - DATASHEET

StateMirror [ID: STM-01]

Immutable evidence snapshots with integrity chain. Read-time retrieval. No enforcement

DATA PLATE

- Input: evidence_ref + evidence_type + captured_at + opaque JSON payload
- Write: append-only snapshot ingest (Idempotency-Key supported)
- Output: snapshot retrieval by id or evidence_ref (read time)
- Integrity: payload_hash + chain_hash, verify endpoint available
- Deps: PostgreSQL

INVARIANTS

- Stores submitted payloads; does not interpret them
- Append-only; prior snapshots are not mutated
- Read-time retrieval only; no background execution
- Does not decide, authorize, allow, block, or enforce

FAILURE MODES

- Missing/invalid API key -> 401
- Duplicate Idempotency-Key -> safe replay of prior response
- Integrity verification fails -> valid=false with details

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Self-hosted. Signal-only. Deterministic behavior.

SimpleStates emits state. Your system implements outcomes.