

TRACE CONTINUITY LABS

Run 1 — Independent Pressure Test

Complete Evidence Package

Prepared for the independent reviewer. This document consolidates the full Run 1 evidence package into a single record: the observation report, the non-modification baseline statement, the file index, the integrity manifest, and the complete raw evidence captured during the run.

Run executed 2026-08-13 (UTC) against Trace Continuity exactly as deployed. No functionality was added, modified, repaired, or configured for the purposes of this test. No pass/fail characterization is offered by Trace Continuity Labs; determination rests with the reviewer.

Item	Detail
Run identifier	Run 1
Execution date	2026-08-13 (UTC)
System under test	Trace Continuity, production build, unmodified
Repository head at run time	38a291ba48457c6640c71a4889c4a4b5ed953ede
Audit rows captured	55 immutable rows across 3 action ids
Artifacts	12 files, SHA-256 manifest included
Prepared by	Trace Continuity Labs

Trace Continuity Labs

Independent Assessment — Run 1 Observation Record

System under test: Trace Continuity (governed memory execution gate)

Run executed: 2026-08-13, 02:15:39Z – 02:15:46Z (UTC)

Environment: Trace Continuity application server, shipped public API surface (/api/public/v1/*), production database schema

Executed by: Trace Continuity Labs engineering, under frozen Run 1 instructions

Determination: none. This document records observations only. Pass/fail is reserved to the independent reviewer.

1. What was exercised

Run 1 used only the shipped, documented external interface. No internal test harness, no direct database writes to governed tables, no bypass of the execution gate.

Step	Interface used	Time (UTC)
Actor and organisation established (standard provisioning path)	authentication provisioning	02:15:39
Consuming-system credential issued (standard API key format)	api_keys issuance	02:15:40
Authorized action performed	POST /api/public/v1/memory/write	02:15:40.750
Material condition change reported (tenant scope)	POST /api/public/v1/conditions/report	02:15:41.069
Material condition change reported (record scope)	POST /api/public/v1/conditions/report	02:15:41.322
Consequential boundary: disclosure read with detokenization	POST /api/public/v1/memory/read	02:15:43.542
Second boundary attempt, condition also asserted by the caller	POST /api/public/v1/memory/read	02:15:45.700
Audit retrieval via public API	POST /api/public/v1/audit/list	02:15:46.017

Identifiers: tenant a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8, actor 7a85419a-c617-4728-9e53-51405256ffc6, root authority 09c297d4-e7bd-47ea-a353-0e16efe1eb75, record 273f80a2-9ddf-466b-a338-658ded4d49d5. Action ids: write a3cd79df..., boundary read 1 97abba93..., boundary read 2 7b1e02dc....

2. Baseline authorization (Evidence item 1)

At T0 the actor held one authority, Owner root authority, scope memory:write, memory:read, memory:detokenize, execution rights write, read, detokenize, no expiry, not revoked, no parent, no inherited authority.

The establishment of that authority is recorded in authority_genesis with provisioning source self_signup, a SHA-256 chain hash, and no prior hash (it is the chain root). public.verify_genesis_hash() returned true at capture time. One authority_events row records authority_created.

Governance configuration at T0: one policy, Default allow (action = *, effect allow, priority 1000). Admissibility rules configured for this tenant at T0: zero. Condition facts present at T0: zero.

Raw record: 01-baseline-authorization.json.

3. Material condition change (Evidence item 2)

Two condition facts were reported through the public conditions API by a source labelled `external_consent_system`:

condition_key	subject_type	value	source	observed_at
consent_withdrawn	tenant	true	external_consent_system	2026-08-13T02:15:41.069Z
consent_withdrawn	record	true	external_consent_system	2026-08-13T02:15:41.322Z

Both were accepted (HTTP 201) and stored with source, observed_at, recorded_by, and no expiry. The tenant on each fact was taken from the presented credential, not from the request body.

Raw record: 02-material-condition-change.json.

4. Evidence available to Trace at the boundary, and the determination it produced (Evidence items 3, 4)

Both boundary reads occurred approximately 2.2s and 4.4s after the condition change was recorded, on the same tenant, against the same record.

At each boundary Trace produced, in one action id:

- Authority re-verification: tenant_ownership pass, scope_validation pass, execution_rights pass, delegation_chain pass, inheritance_resolution na, genesis_link_verification pass (hash_verified: true), authority.final_decision allow.
- A separate admissibility stage: admissibility.load_rules — rule_count: 0, rules: []; admissibility.decision — allow, reason recorded verbatim as "no material conditions are configured for this action".
- Retrieval-time controls: retrieval.authority_recheck pass, retrieval.policy_comparison pass (drift: false), retrieval.rescan_tokenized pass, retrieval.rescan_detokenized deny (fail-closed redaction of reclassified PII), retrieval.detokenize pass.
- gate.final_decision — allow, detokenized: true.

On the second boundary attempt the caller additionally asserted `consent_withdrawn: true` in the request. Trace recorded `admissibility.request_facts_validated` — accepted ["consent_withdrawn"], rejected [], annotated as untrusted and usable only by rules with `trusted_only = false`. With zero rules loaded, the assertion changed nothing; the decision was again allow.

Observed, unrepaired fact: the stored `consent_withdrawn` facts were not read at the boundary. Trace's admissibility stage loads rules first; with no rule referencing `consent_withdrawn`, no fact lookup for that key occurred and the recorded reason is absence of configured conditions, not absence of the fact.

Raw record: 03-boundary-and-determination.json; full stage detail in 05-audit-trail-full.json.

5. Consuming-system determination and first consequential effect (Evidence item 5)

The consuming system received HTTP 200 with ok: true on both boundary calls at 02:15:43.542Z and 02:15:45.700Z.

The first consequential effect was disclosure of the record to the caller. Field-level outcome as returned:

- subject, patient_name, disclosure_target, consent_state_at_write — returned in clear.
- patient_email — returned as [REDACTED:email].
- patient_phone — returned as [REDACTED:phone].

Redaction of the two contact fields was produced by the retrieval-time PII rescan (rescan_detokenized, fail-closed), not by an admissibility determination. patient_name was not tokenized at write time and was disclosed in clear at the boundary; the write-time tokenization.detect entry lists only phone and email.

retrieval_governance returned to the caller: rescan_leaks_redacted: 0, policy_drift: false, admissibility_transforms: [].

6. Audit / receipt trail (Evidence item 6)

55 immutable audit rows were written across the three action ids, sufficient to reconstruct the sequence from initial authorization through consequence. Rows carry tenant, action id, actor, api key id, stage, step, status, detail JSON and created_at. The table is append-only (UPDATE and DELETE are rejected by database trigger).

Limitation observed (not repaired): the public audit endpoint POST /api/public/v1/audit/list returned HTTP 500 — column audit_log.entries does not exist. The endpoint selects a column that is not present in the current schema. The audit trail itself is intact and was preserved directly from the immutable store; only this retrieval endpoint failed. Raw failure captured in 04-audit-api-response.json.

Ordering note: created_at for all rows of a single action id is written with the same statement timestamp, so intra-action ordering is not recoverable from created_at alone. Cross-stage ordering across the three actions is recoverable. No reordering or normalization was applied to the preserved rows.

Raw record: 05-audit-trail-full.json (55 rows, verbatim).

7. Configuration state at time of Run 1 (Evidence item 7)

- Admissibility rules configured for the test tenant: 0.
- Admissibility rules present platform-wide at run time: recorded in 06-configuration-state.json.
- Governance policies for the tenant: 1 (Default allow).
- Authorities: 1 (root, unrevoked).
- Governed memory rows: 1. PII vault rows: 2 (AES-256-GCM, per-tenant key).
- API key: one, unrevoked, no expiry, bound to the root authority.

No rule, policy, or condition definition was created, edited, or enabled for the purposes of this run.

8. Limitations, unknowns and contradictions encountered (Evidence item 8)

Recorded as observed; none repaired or reinterpreted.

- Admissibility produced an allow with zero rules configured. The reason string is "no material conditions are

configured for this action". Whether absence of configuration should yield allow or indeterminate is a criteria question for the reviewer, not a system statement.

- Reported condition facts had no effect on the boundary determination. They were accepted, stored, and timestamped, but never consulted, because rule loading precedes fact resolution and no rule referenced the key.
- Public audit retrieval endpoint failed (HTTP 500). Schema/endpoint mismatch on audit_log.entries. Audit evidence had to be taken directly from the immutable store.
- Intra-action audit ordering is not derivable from timestamps. Stage sequence is documented in code and in stage/step semantics, not by per-row time deltas.
- patient_name was disclosed in clear. Name was not classified as tokenizable PII at write time in this configuration.
- No external consuming system participated. The consuming system in Run 1 is the HTTP caller holding the API key. Trace has no evidence of what that caller did after receiving the response, and produces no record of downstream effect.
- No revocation, expiry, or authority change occurred in Run 1. The material change tested was a condition change only, which is the trajectory specified in the frozen workflow.
- Actor identity at the boundary is the API key's bound authority. Trace records api_key_id and the resolved user and authority; it does not record an end-user identity separate from the credential holder.

9. Chain of custody

All artifacts were written directly from the run process and from read-only queries against the immutable store. No file was edited after capture. SHA-256 digests for every artifact are listed in MANIFEST-sha256.txt. No product code, schema, policy, or rule was changed before, during, or after the run.

Trace Continuity Labs — Run 1 evidence, frozen as observed.

Trace Continuity Labs

Baseline Statement — No Test-Specific Modification Prior to Run 1

Subject: Independent assessment of Trace Continuity, Run 1

Statement date: 2026-08-13 (UTC)

Statement

Trace Continuity was not modified, extended, configured, tuned, or repaired in advance of Run 1 in order to affect its outcome. Run 1 was executed against the system exactly as it stood when the frozen instructions were received.

Specifically, prior to Run 1 there was no change to:

- the execution gate or its stage ordering,
- authority verification, genesis chaining, or delegation logic,
- the action-admissibility layer, its predicate evaluation, or its fail-closed behaviour,
- PII detection, tokenization, or retrieval-time rescan,
- the audit schema, audit write path, or its append-only enforcement,
- database policies, grants, triggers, or row-level security,
- any admissibility rule, governance policy, or condition definition.

No admissibility rule was created for the tested action. The tenant used in Run 1 was provisioned through the standard signup path and received only the default configuration the product creates for every new organisation.

Supporting record

Item	Value
Repository head commit at run time	38a291ba48457c6640c71a4889c4a4b5ed953ede
Commit subject	"Added Buyer's Brief nav links" (website navigation only)
Commit authored	2026-08-12T20:20:18Z — before the Run 1 instruction was issued
Working tree state at run time	clean; no uncommitted modifications
Governance module digests	SHA-256 for nine governance modules recorded in 07-code-state-attestation.json

The digests in 07-code-state-attestation.json allow the reviewer to confirm independently that the governance code evaluated in Run 1 is the same code present in the repository at commit 38a291b, and to detect any later change.

Post-run commitment

No change has been made to Trace after Run 1. The observed result — including the allow determination, the unused condition facts, and the failing audit retrieval endpoint — is preserved exactly as produced. Any remediation will occur only after the independent reviewer has examined this baseline, and will be recorded as a separate, dated change with its own evidence.

Prior confirmation

This restates the confirmation previously given: at the point the candidate workflow was assessed for

qualification, Trace was reviewed and reported on as-is, and no functionality was added or altered to accommodate the proposed test.

Trace Continuity Labs

Trace Continuity Labs — Run 1 Evidence Package Index

Prepared for the independent reviewer. All files were captured during or directly from the Run 1 execution on 2026-08-13 (UTC) and are preserved exactly as produced. Nothing has been normalized, reconstructed, or cleaned up. No pass/fail characterization is offered.

File	Contents
RUN1-OBSERVATION-REPORT.md	Narrative observation record, mapped to the seven evidence items plus documented limitations. Start here.
RUN1-NON-MODIFICATION-BASELINE.md	Signed baseline statement that Trace was not modified in advance of Run 1, with supporting commit and digest record.
RUN1-INDEX.md	This index.
00-run-transcript.json	Full chronological transcript of every API call: request path, request body, send time, HTTP status, receive time, verbatim response body.
01-baseline-authorization.json	Initially authorized state: actor, organisation, authority row(s), authority genesis record and hash verification result, authority events, governance policies, admissibility rules configured (zero), condition facts present (zero).
02-material-condition-change.json	The material condition change: the two condition-report API calls and the resulting stored condition facts with source, value, observed_at, recorded_by, expiry.
03-boundary-and-determination.json	The authorized write and both consequential-boundary reads: verbatim requests, HTTP statuses, timestamps, and the exact payload returned to the consuming system.
04-audit-api-response.json	Verbatim response of the public audit retrieval endpoint, which returned HTTP 500 (column audit_log.entries does not exist). Preserved as the failure it was.
05-audit-trail-full.json	The complete immutable audit trail for the run: 55 rows across three action ids, every stage, step, status and detail object, unedited.
06-configuration-state.json	Configuration in force at run time: admissibility rules, governance policies, authorities, API key metadata, stored governed-memory record and vault row count.
07-code-state-attestation.json	Repository head commit, working-tree status, and SHA-256 digests of the nine governance modules that executed during Run 1.
MANIFEST-sha256.txt	SHA-256 digest of every file in this package, for integrity verification.

Reading order suggested for the reviewer

- RUN1-NON-MODIFICATION-BASELINE.md
- RUN1-OBSERVATION-REPORT.md
- 01 → 02 → 03 → 05 (chronological evidence chain)
- 06, 07, 04 (configuration, code state, and the observed endpoint failure)

Trace Continuity Labs

Integrity Manifest (SHA-256)

Each raw evidence file and its SHA-256 digest, as captured immediately after the run. The reviewer can recompute these to confirm nothing has been altered since.

c91653c1562bf9b9206b3af4c7d7f0c446df9798972b5239682fc9452a573dae	00-run-transcript.json
953b3ccc8d926647244e8ab09d6d98f2e3368da35df3f3df241c13b3858415fa4	01-baseline-authorization.json
8a15aaedce3b1fd3bbba1c090ce341183fa209f3d2307bcb8958cbd1cb776ab8	02-material-condition-change.json
767d3bb8739888e97b31a1ffbf6caa81a423800478f652823e04764d49863369	03-boundary-and-determination.json
5d7f9315b6fc302ad154d81b2ed3f6b6ab35bc18a27b7caa87828bba49ba0e58	04-audit-api-response.json
3dbb9c98ad6a6dc3c092f207ef6370f97e85e21671ecd66c931cef01e252eb95	05-audit-trail-full.json
09cd2561dfdd7f3182147b78d172cfcc2e565046670817efc9bd2e4af7113aed	06-configuration-state.json
2fe2bf217f491b2990ce81a160076bedd1e21e4fcffe0ea3f263eecac135cf40	07-code-state-attestation.json
efced4aeb04b052ee1452964300528dee29c39f3bd6d2573387ef3a7cc00b94b	RUN1-INDEX.md
93c00f96a40d8d482af31029df93e55dcdf70706727246e211873027f441c8cb	RUN1-NON-MODIFICATION-BASELINE.md
d3830dc896091ddc48fbf694fe9884d6e95bcd2bfc21442fc9e11ebe0d669039	RUN1-OBSERVATION-REPORT.md

Appendix A — 00-run-transcript.json

Chronological transcript of every API call made during Run 1.

```
{
  "run_started_at": "2026-08-13T02:15:30.337Z",
  "run_completed_at": "2026-08-13T02:15:51.884Z",
  "base_url": "http://localhost:8080",
  "tenant_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "memory_id": "273f80a2-9ddf-466b-a338-658ded4d49d5",
  "calls": [
    {
      "step": "1_authorized_write",
      "request": {
        "path": "/api/public/v1/memory/write",
        "body": {
          "key": "run1/patient-transfer/1786587330338",
          "payload": {
            "subject": "Patient consent record for downstream disclosure",
            "patient_name": "Dana R. Whitfield",
            "patient_phone": "312-555-0142",
            "patient_email": "dana.whitfield@example.com",
            "consent_state_at_write": "granted",
            "disclosure_target": "Downstream analytics processor"
          }
        }
      },
      "sent_at": "2026-08-13T02:15:37.746Z",
      "response": {
        "http_status": 201,
        "received_at": "2026-08-13T02:15:40.850Z",
        "body": {
          "ok": true,
          "action_id": "a3cd79df-3318-4b1e-9621-2523438ec275",
          "memory_id": "273f80a2-9ddf-466b-a338-658ded4d49d5"
        }
      },
      {
        "step": "2_material_condition_change",
        "request": {
          "path": "/api/public/v1/conditions/report",
          "body": {
            "condition_key": "consent_withdrawn",
            "subject_type": "tenant",
            "subject_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
            "value": true,
            "source": "external_consent_system"
          }
        },
        "sent_at": "2026-08-13T02:15:40.850Z",
        "response": {
          "http_status": 201,
          "received_at": "2026-08-13T02:15:41.194Z",
          "body": {
            "ok": true,
            "condition": {
              "id": "54309841-57e0-4cae-a0c0-fab46de91b22",
              "tenant_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
              "condition_key": "consent_withdrawn",
              "subject_type": "tenant",
              "subject_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
              "value": true,
              "source": "external_consent_system",
```

```
"observed_at": "2026-08-13T02:15:41.069+00:00",
"expires_at": null,
"recorded_by": "7a85419a-c617-4728-9e53-51405256ffc6",
"created_at": "2026-08-13T02:15:41.129927+00:00"
}
}
},
{
  "step": "2b_material_condition_change_record_scope",
  "request": {
    "path": "/api/public/v1/conditions/report",
    "body": {
      "condition_key": "consent_withdrawn",
      "subject_type": "record",
      "subject_id": "273f80a2-9ddf-466b-a338-658ded4d49d5",
      "value": true,
      "source": "external_consent_system"
    },
    "sent_at": "2026-08-13T02:15:41.194Z"
  },
  "response": {
    "http_status": 201,
    "received_at": "2026-08-13T02:15:41.434Z",
    "body": {
      "ok": true,
      "condition": {
        "id": "586d8039-5ee3-4e3a-bb05-2b705fe391f0",
        "tenant_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
        "condition_key": "consent_withdrawn",
        "subject_type": "record",
        "subject_id": "273f80a2-9ddf-466b-a338-658ded4d49d5",
        "value": true,
        "source": "external_consent_system",
        "observed_at": "2026-08-13T02:15:41.322+00:00",
        "expires_at": null,
        "recorded_by": "7a85419a-c617-4728-9e53-51405256ffc6",
        "created_at": "2026-08-13T02:15:41.381046+00:00"
      }
    }
  },
  {
    "step": "3_boundary_disclosure_read",
    "request": {
      "path": "/api/public/v1/memory/read",
      "body": {
        "memory_id": "273f80a2-9ddf-466b-a338-658ded4d49d5",
        "detokenize": true
      },
      "sent_at": "2026-08-13T02:15:41.434Z"
    },
    "response": {
      "http_status": 200,
      "received_at": "2026-08-13T02:15:43.629Z",
      "body": {
        "ok": true,
        "action_id": "97abba93-e4bf-4800-9064-9952674c3668",
        "memory": {
          "id": "273f80a2-9ddf-466b-a338-658ded4d49d5",
          "key": "run1/patient-transfer/1786587330338",
          "tokenized_payload": {
            "subject": "Patient consent record for downstream disclosure",
            "patient_name": "Dana R. Whitfield",
            "patient_email": "tok_7c7b5f928a421287",
            "patient_phone": "tok_7d21eb57cef91222",
```

```
"disclosure_target": "Downstream analytics processor",
"consent_state_at_write": "granted"
},
"detokenized_payload": {
  "subject": "Patient consent record for downstream disclosure",
  "patient_name": "Dana R. Whitfield",
  "patient_email": "[REDACTED:email]",
  "patient_phone": "[REDACTED:phone]",
  "disclosure_target": "Downstream analytics processor",
  "consent_state_at_write": "granted"
},
"created_at": "2026-08-13T02:15:40.445574+00:00"
},
"retrieval_governance": {
  "rescan_leaks_redacted": 0,
  "policy_drift": false,
  "admissibility_transforms": []
}
}
},
{
  "step": "3b_boundary_read_with_caller_asserted_condition",
  "request": {
    "path": "/api/public/v1/memory/read",
    "body": {
      "memory_id": "273f80a2-9ddf-466b-a338-658ded4d49d5",
      "detokenize": true,
      "conditions": {
        "consent_withdrawn": true
      }
    }
  },
  "sent_at": "2026-08-13T02:15:43.629Z"
},
"response": {
  "http_status": 200,
  "received_at": "2026-08-13T02:15:45.778Z",
  "body": {
    "ok": true,
    "action_id": "7b1e02dc-1036-4c17-8036-92292137ab31",
    "memory": {
      "id": "273f80a2-9ddf-466b-a338-658ded4d49d5",
      "key": "run1/patient-transfer/1786587330338",
      "tokenized_payload": {
        "subject": "Patient consent record for downstream disclosure",
        "patient_name": "Dana R. Whitfield",
        "patient_email": "tok_7c7b5f928a421287",
        "patient_phone": "tok_7d21eb57cef91222",
        "disclosure_target": "Downstream analytics processor",
        "consent_state_at_write": "granted"
      },
      "detokenized_payload": {
        "subject": "Patient consent record for downstream disclosure",
        "patient_name": "Dana R. Whitfield",
        "patient_email": "[REDACTED:email]",
        "patient_phone": "[REDACTED:phone]",
        "disclosure_target": "Downstream analytics processor",
        "consent_state_at_write": "granted"
      }
    },
    "created_at": "2026-08-13T02:15:40.445574+00:00"
  },
  "retrieval_governance": {
    "rescan_leaks_redacted": 0,
    "policy_drift": false,
    "admissibility_transforms": []
  }
}
```

```
}
}
},
{
  "step": "6_audit_api",
  "request": {
    "path": "/api/public/v1/audit/list",
    "body": {
      "limit": 200
    },
    "sent_at": "2026-08-13T02:15:45.778Z"
  },
  "response": {
    "http_status": 500,
    "received_at": "2026-08-13T02:15:46.017Z",
    "body": {
      "ok": false,
      "error": {
        "code": "query_failed",
        "message": "column audit_log.entries does not exist"
      }
    }
  }
}
}
```

Appendix B — 01-baseline-authorization.json

Initially authorized state at the start of the run.

```
{
  "captured_at": "2026-08-13T02:15:36.280Z",
  "actor": {
    "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
    "email": "run1.assessment.1786587330338@tracecontinuity.test",
    "created_at": "2026-08-13T02:15:31.099819Z"
  },
  "tenant": {
    "id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
    "owner_user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
    "name": "run1.assessment.1786587330338@tracecontinuity.test",
    "created_at": "2026-08-13T02:15:31.098867+00:00"
  },
  "authorities": [
    {
      "id": "09c297d4-e7bd-47ea-a353-0e16efe1eb75",
      "tenant_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
      "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
      "parent_authority_id": null,
      "inherits_from": null,
      "scope": [
        "memory:write",
        "memory:read",
        "memory:detokenize"
      ],
      "execution_rights": [
        "write",
        "read",
        "detokenize"
      ],
      "label": "Owner root authority",
      "expires_at": null,
      "created_at": "2026-08-13T02:15:31.098867+00:00",
      "revoked_at": null,
      "revoked_by": null,
      "revoke_reason": null,
      "is_revoked": false
    }
  ],
  "authority_genesis": [
    {
      "tenant_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
      "root_authority_id": "09c297d4-e7bd-47ea-a353-0e16efe1eb75",
      "original_holder_user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
      "provisioning_source": "self_signup",
      "previous_hash": null,
      "hash": "69c22d2cc4b4972b71b759a85536b17a08c68762fcf7ea20701f5a30ef6e441c",
      "created_at": "2026-08-13T02:15:31.115326+00:00",
      "backfilled_at": null,
      "notes": {}
    }
  ],
  "genesis_hash_verification": "t",
  "authority_events": [
    {
      "id": "18c202ec-df32-4327-af98-666c4d87a262",
      "tenant_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
      "authority_id": "09c297d4-e7bd-47ea-a353-0e16efe1eb75",
      "event_type": "authority_created",
      "actor_user_id": null,
      "system_actor": null,

```

```
"previous_values": {},
"new_values": {
  "id": "09c297d4-e7bd-47ea-a353-0e16efe1eb75",
  "label": "Owner root authority",
  "scope": [
    "memory:write",
    "memory:read",
    "memory:detokenize"
  ],
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "tenant_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
  "created_at": "2026-08-13T02:15:31.098867+00:00",
  "expires_at": null,
  "is_revoked": false,
  "revoked_at": null,
  "revoked_by": null,
  "inherits_from": null,
  "revoke_reason": null,
  "execution_rights": [
    "write",
    "read",
    "detokenize"
  ],
  "parent_authority_id": null
},
"previous_hash": null,
"hash": "0936c1aad58d6c349dfa3f4a15c4952a0d09b26cb6269d73905496cec190fe6",
"created_at": "2026-08-13T02:15:31.125667+00:00"
},
"governance_policies": [
  {
    "id": "8272ed0b-ef59-41b0-9203-3e372eb2f484",
    "tenant_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
    "name": "Default allow",
    "action": "*",
    "effect": "allow",
    "match": {},
    "priority": 1000,
    "created_at": "2026-08-13T02:15:31.098867+00:00"
  }
],
"admissibility_rules_configured": [],
"condition_facts_present": []
}
```

Appendix C — 02-material-condition-change.json

The material condition change and resulting stored condition facts.

```
{
  "condition_api_calls": [
    {
      "step": "2_material_condition_change",
      "request": {
        "path": "/api/public/v1/conditions/report",
        "body": {
          "condition_key": "consent_withdrawn",
          "subject_type": "tenant",
          "subject_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
          "value": true,
          "source": "external_consent_system"
        }
      },
      "sent_at": "2026-08-13T02:15:40.850Z"
    },
    {
      "response": {
        "http_status": 201,
        "received_at": "2026-08-13T02:15:41.194Z",
        "body": {
          "ok": true,
          "condition": {
            "id": "54309841-57e0-4cae-a0c0-fab46de91b22",
            "tenant_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
            "condition_key": "consent_withdrawn",
            "subject_type": "tenant",
            "subject_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
            "value": true,
            "source": "external_consent_system",
            "observed_at": "2026-08-13T02:15:41.069+00:00",
            "expires_at": null,
            "recorded_by": "7a85419a-c617-4728-9e53-51405256ffc6",
            "created_at": "2026-08-13T02:15:41.129927+00:00"
          }
        }
      }
    },
    {
      "step": "2b_material_condition_change_record_scope",
      "request": {
        "path": "/api/public/v1/conditions/report",
        "body": {
          "condition_key": "consent_withdrawn",
          "subject_type": "record",
          "subject_id": "273f80a2-9ddf-466b-a338-658ded4d49d5",
          "value": true,
          "source": "external_consent_system"
        }
      },
      "sent_at": "2026-08-13T02:15:41.194Z"
    },
    {
      "response": {
        "http_status": 201,
        "received_at": "2026-08-13T02:15:41.434Z",
        "body": {
          "ok": true,
          "condition": {
            "id": "586d8039-5ee3-4e3a-bb05-2b705fe391f0",
            "tenant_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
            "condition_key": "consent_withdrawn",
            "subject_type": "record",
            "subject_id": "273f80a2-9ddf-466b-a338-658ded4d49d5",
            "value": true,

```



```
"source": "external_consent_system",
"observed_at": "2026-08-13T02:15:41.322+00:00",
"expires_at": null,
"recorded_by": "7a85419a-c617-4728-9e53-51405256ffc6",
"created_at": "2026-08-13T02:15:41.381046+00:00"
}
}
}
},
"condition_facts_after": [
{
"id": "54309841-57e0-4cae-a0c0-fab46de91b22",
"tenant_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
"condition_key": "consent_withdrawn",
"subject_type": "tenant",
"subject_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
"value": true,
"source": "external_consent_system",
"observed_at": "2026-08-13T02:15:41.069+00:00",
"expires_at": null,
"recorded_by": "7a85419a-c617-4728-9e53-51405256ffc6",
"created_at": "2026-08-13T02:15:41.129927+00:00"
},
{
"id": "586d8039-5ee3-4e3a-bb05-2b705fe391f0",
"tenant_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
"condition_key": "consent_withdrawn",
"subject_type": "record",
"subject_id": "273f80a2-9ddf-466b-a338-658ded4d49d5",
"value": true,
"source": "external_consent_system",
"observed_at": "2026-08-13T02:15:41.322+00:00",
"expires_at": null,
"recorded_by": "7a85419a-c617-4728-9e53-51405256ffc6",
"created_at": "2026-08-13T02:15:41.381046+00:00"
}
]
}
```

Appendix D — 03-boundary-and-determination.json

The authorized write and both consequential-boundary reads.

```
{
  "authorized_write": {
    "step": "1_authorized_write",
    "request": {
      "path": "/api/public/v1/memory/write",
      "body": {
        "key": "run1/patient-transfer/1786587330338",
        "payload": {
          "subject": "Patient consent record for downstream disclosure",
          "patient_name": "Dana R. Whitfield",
          "patient_phone": "312-555-0142",
          "patient_email": "dana.whitfield@example.com",
          "consent_state_at_write": "granted",
          "disclosure_target": "Downstream analytics processor"
        }
      },
      "sent_at": "2026-08-13T02:15:37.746Z"
    },
    "response": {
      "http_status": 201,
      "received_at": "2026-08-13T02:15:40.850Z",
      "body": {
        "ok": true,
        "action_id": "a3cd79df-3318-4b1e-9621-2523438ec275",
        "memory_id": "273f80a2-9ddf-466b-a338-658ded4d49d5"
      }
    },
    "boundary_reads": [
      {
        "step": "3_boundary_disclosure_read",
        "request": {
          "path": "/api/public/v1/memory/read",
          "body": {
            "memory_id": "273f80a2-9ddf-466b-a338-658ded4d49d5",
            "detokenize": true
          },
          "sent_at": "2026-08-13T02:15:41.434Z"
        },
        "response": {
          "http_status": 200,
          "received_at": "2026-08-13T02:15:43.629Z",
          "body": {
            "ok": true,
            "action_id": "97abba93-e4bf-4800-9064-9952674c3668",
            "memory": {
              "id": "273f80a2-9ddf-466b-a338-658ded4d49d5",
              "key": "run1/patient-transfer/1786587330338",
              "tokenized_payload": {
                "subject": "Patient consent record for downstream disclosure",
                "patient_name": "Dana R. Whitfield",
                "patient_email": "tok_7c7b5f928a421287",
                "patient_phone": "tok_7d21eb57cef91222",
                "disclosure_target": "Downstream analytics processor",
                "consent_state_at_write": "granted"
              },
              "detokenized_payload": {
                "subject": "Patient consent record for downstream disclosure",
                "patient_name": "Dana R. Whitfield",
                "patient_email": "[REDACTED:email]",
                "patient_phone": "[REDACTED:phone]"
              }
            }
          }
        }
      }
    ]
  }
}
```

```
"disclosure_target": "Downstream analytics processor",
"consent_state_at_write": "granted"
},
"created_at": "2026-08-13T02:15:40.445574+00:00"
},
"retrieval_governance": {
  "rescan_leaks_redacted": 0,
  "policy_drift": false,
  "admissibility_transforms": []
}
},
{
  "step": "3b_boundary_read_with_caller_asserted_condition",
  "request": {
    "path": "/api/public/v1/memory/read",
    "body": {
      "memory_id": "273f80a2-9ddf-466b-a338-658ded4d49d5",
      "detokenize": true,
      "conditions": {
        "consent_withdrawn": true
      }
    }
  },
  "sent_at": "2026-08-13T02:15:43.629Z"
},
"response": {
  "http_status": 200,
  "received_at": "2026-08-13T02:15:45.778Z",
  "body": {
    "ok": true,
    "action_id": "7b1e02dc-1036-4c17-8036-92292137ab31",
    "memory": {
      "id": "273f80a2-9ddf-466b-a338-658ded4d49d5",
      "key": "run1/patient-transfer/1786587330338",
      "tokenized_payload": {
        "subject": "Patient consent record for downstream disclosure",
        "patient_name": "Dana R. Whitfield",
        "patient_email": "tok_7c7b5f928a421287",
        "patient_phone": "tok_7d21eb57cef91222",
        "disclosure_target": "Downstream analytics processor",
        "consent_state_at_write": "granted"
      },
      "detokenized_payload": {
        "subject": "Patient consent record for downstream disclosure",
        "patient_name": "Dana R. Whitfield",
        "patient_email": "[REDACTED:email]",
        "patient_phone": "[REDACTED:phone]",
        "disclosure_target": "Downstream analytics processor",
        "consent_state_at_write": "granted"
      }
    }
  },
  "created_at": "2026-08-13T02:15:40.445574+00:00"
},
"retrieval_governance": {
  "rescan_leaks_redacted": 0,
  "policy_drift": false,
  "admissibility_transforms": []
}
}
}
]
```

Appendix E — 04-audit-api-response.json

Verbatim response of the public audit retrieval endpoint (HTTP 500), preserved as produced.

```
{
  "step": "6_audit_api",
  "request": {
    "path": "/api/public/v1/audit/list",
    "body": {
      "limit": 200
    },
    "sent_at": "2026-08-13T02:15:45.778Z"
  },
  "response": {
    "http_status": 500,
    "received_at": "2026-08-13T02:15:46.017Z",
    "body": {
      "ok": false,
      "error": {
        "code": "query_failed",
        "message": "column audit_log.entries does not exist"
      }
    }
  }
}
```

Appendix F — 06-configuration-state.json

Configuration in force at run time.

```
{
  "captured_at": "2026-08-13T02:15:47.970Z",
  "admissibility_rules_for_tenant": [],
  "admissibility_rules_platform_wide_count": "0",
  "governance_policies": [
    {
      "id": "8272ed0b-ef59-41b0-9203-3e372eb2f484",
      "tenant_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
      "name": "Default allow",
      "action": "*",
      "effect": "allow",
      "match": {},
      "priority": 1000,
      "created_at": "2026-08-13T02:15:31.098867+00:00"
    }
  ],
  "authorities": [
    {
      "id": "09c297d4-e7bd-47ea-a353-0e16efe1eb75",
      "tenant_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
      "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
      "parent_authority_id": null,
      "inherits_from": null,
      "scope": [
        "memory:write",
        "memory:read",
        "memory:detokenize"
      ],
      "execution_rights": [
        "write",
        "read",
        "detokenize"
      ],
      "label": "Owner root authority",
      "expires_at": null,
      "created_at": "2026-08-13T02:15:31.098867+00:00",
      "revoked_at": null,
      "revoked_by": null,
      "revoke_reason": null,
      "is_revoked": false
    }
  ],
  "api_key": {
    "id": "c4c27ae9-7a66-4212-a205-98483207c745",
    "tenant_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
    "authority_id": "09c297d4-e7bd-47ea-a353-0e16efe1eb75",
    "name": "Run 1 assessment key",
    "key_prefix": "534ea804",
    "created_at": "2026-08-13T02:15:37.059945+00:00",
    "revoked_at": null,
    "expires_at": null
  },
  "governed_memory_rows": [
    {
      "id": "273f80a2-9ddf-466b-a338-658ded4d49d5",
      "key": "run1/patient-transfer/1786587330338",
      "required_scope_to_read": [
        "memory:read"
      ],
      "matter_id": null,
      "created_at": "2026-08-13T02:15:40.445574+00:00",
    }
  ]
}
```

```
"tokenized_payload": {  
  "subject": "Patient consent record for downstream disclosure",  
  "patient_name": "Dana R. Whitfield",  
  "patient_email": "tok_7c7b5f928a421287",  
  "patient_phone": "tok_7d21eb57cef91222",  
  "disclosure_target": "Downstream analytics processor",  
  "consent_state_at_write": "granted"  
}  
},  
"pii_vault_row_count": "2"  
}
```

Appendix G — 07-code-state-attestation.json

SHA-256 digests of the governance modules evaluated during the run.

```
{
  "captured_at_utc": "2026-08-13T02:16:27Z",
  "repository_head_commit": "38a291ba48457c6640c71a4889c4a4b5ed953ede",
  "repository_head_commit_authored_utc": "2026-08-12T20:20:18Z",
  "working_tree_status": "clean (no uncommitted modifications at the time of Run 1)",
  "statement": "No source, schema, rule, or configuration change was made in preparation for Run 1. The most recent commit predates the run instruction and concerns website navigation links only.",
  "governance_module_sha256": {
    "src/lib/execution-gate.server.ts": "758671ebb4354d5e1ea46ae7f7f9d8f73a2fa3d2f15192bf18b984f4f10082d7",
    "src/lib/admissibility.server.ts": "019860ad1f12a618a5d74e1ec013a7918029eb7c99fa5b3240df674bf9150211",
    "src/lib/authority.server.ts": "a6fb4146901cb350086f06ef538dc6d2c080cac9bab4f9ea10d2d7e3fb85a969",
    "src/lib/governance.server.ts": "d0a05878fdb54bb8bfb37203dfd023ca5f270c99607c7062ae690fd0a76607fb",
    "src/lib/tokenization.server.ts": "1ab7b2dc8f106a688817dac9434e9689b22499dff9d8bfd60c4b8e4e645cce35",
    "src/lib/predicate.ts": "2a034e1779bcb12063260d10ffc8259685dab8b2f3b09a22bc1ad98475c83430",
    "src/lib/audit.server.ts": "989fd02d623edef34ed79b326bf5dc43ec6b46a047d38002d5e73cdbc9d5df16",
    "src/lib/conditions.server.ts": "23387c85d40931ca0e172a4ac4651918d99632bf00e13f1b7ef192ef546f4971",
    "src/lib/matter-boundary.server.ts": "0e511d8e0b0a17a691827adff4abe9eba985d5213ecb1e02eee9b8d472c1c08a"
  }
}
```

Appendix H — 05-audit-trail-full.json

The complete immutable audit trail for the run: 55 rows, unedited.

```
{
  "tenant_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
  "row_count": 55,
  "rows": [
    {
      "id": "006579a0-a08d-4038-92f1-5e3af01d1ee8",
      "action_id": "a3cd79df-3318-4b1e-9621-2523438ec275",
      "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
      "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
      "stage": "authority",
      "step": "tenant_ownership",
      "status": "pass",
      "detail": {
        "role": "owner",
        "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
        "tenant_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
        "checked_at": "2026-08-13T02:15:39.031Z"
      },
      "created_at": "2026-08-13T02:15:40.750218+00:00"
    },
    {
      "id": "18d67929-fec8-46d1-b881-c08e9296fd9e",
      "action_id": "a3cd79df-3318-4b1e-9621-2523438ec275",
      "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
      "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
      "stage": "tokenization",
      "step": "detect",
      "status": "info",
      "detail": {
        "detected": [
          {
            "kind": "phone",
            "field": "patient_phone",
            "token": "tok_7d21eb57cef91222"
          },
          {
            "kind": "email",
            "field": "patient_email",
            "token": "tok_7c7b5f928a421287"
          }
        ]
      },
      "created_at": "2026-08-13T02:15:40.750218+00:00"
    },
    {
      "id": "2d08ce4b-9262-43fe-9323-ce7902cf667b",
      "action_id": "a3cd79df-3318-4b1e-9621-2523438ec275",
      "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
      "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
      "stage": "admissibility",
      "step": "decision",
      "status": "allow",
      "detail": {
        "reason": "no material conditions are configured for this action",
        "decision": "allow",
        "separation": "this decision is independent of authority validity; authority was decided separately in this same action_id",
        "transforms": [],
        "evaluated_at": "2026-08-13T02:15:40.274Z",
        "rules_evaluated": 0
      },
    },
  ]
}
```



```
"created_at": "2026-08-13T02:15:40.750218+00:00"
},
{
  "id": "32b53195-557a-4355-879f-10fb815f175e",
  "action_id": "a3cd79df-3318-4b1e-9621-2523438ec275",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "authority",
  "step": "final_decision",
  "status": "allow",
  "detail": {
    "label": "Owner root authority",
    "genesis_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
    "root_authority_id": "09c297d4-e7bd-47ea-a353-0e16efe1eb75",
    "granted_via_authority": "09c297d4-e7bd-47ea-a353-0e16efe1eb75"
  },
  "created_at": "2026-08-13T02:15:40.750218+00:00"
},
{
  "id": "3b15d72d-cf42-45f2-9f99-cf91570e94df",
  "action_id": "a3cd79df-3318-4b1e-9621-2523438ec275",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "tokenization",
  "step": "replace_in_payload",
  "status": "pass",
  "detail": {
    "tokenized_preview": {
      "subject": "Patient consent record for downstream disclosure",
      "patient_name": "Dana R. Whitfield",
      "patient_email": "tok_7c7b5f928a421287",
      "patient_phone": "tok_7d21eb57cef91222",
      "disclosure_target": "Downstream analytics processor",
      "consent_state_at_write": "granted"
    }
  },
  "created_at": "2026-08-13T02:15:40.750218+00:00"
},
{
  "id": "4e47052d-3700-4833-b05f-b17db38d3a7a",
  "action_id": "a3cd79df-3318-4b1e-9621-2523438ec275",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "governance",
  "step": "policy_evaluation",
  "status": "info",
  "detail": {
    "action": "memory:write",
    "matched_policies": [
      {
        "id": "8272ed0b-ef59-41b0-9203-3e372eb2f484",
        "name": "Default allow",
        "effect": "allow",
        "priority": 1000
      }
    ],
    "candidate_policies": [
      {
        "id": "8272ed0b-ef59-41b0-9203-3e372eb2f484",
        "name": "Default allow",
        "effect": "allow",
        "priority": 1000
      }
    ]
  },
  "created_at": "2026-08-13T02:15:40.750218+00:00"
```

```
},
{
  "id": "6e4fc019-f237-4a59-94c7-cab94a54a86a",
  "action_id": "a3cd79df-3318-4b1e-9621-2523438ec275",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "admissibility",
  "step": "load_rules",
  "status": "info",
  "detail": {
    "rules": [],
    "rule_count": 0,
    "separation": "authority validity was decided earlier and independently",
    "action_scope": "memory:write",
    "evaluated_at": "2026-08-13T02:15:40.274Z"
  },
  "created_at": "2026-08-13T02:15:40.750218+00:00"
},
{
  "id": "82195097-3b3d-47c4-a925-0bd98357d316",
  "action_id": "a3cd79df-3318-4b1e-9621-2523438ec275",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "storage",
  "step": "write",
  "status": "pass",
  "detail": {
    "key": "run1/patient-transfer/1786587330338",
    "rls": "tenant-scoped",
    "matter_id": null,
    "memory_id": "273f80a2-9ddf-466b-a338-658ded4d49d5",
    "tenant_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
    "via_api_key": true
  },
  "created_at": "2026-08-13T02:15:40.750218+00:00"
},
{
  "id": "82a2604f-7a27-42cc-b02f-eaf1171b4824",
  "action_id": "a3cd79df-3318-4b1e-9621-2523438ec275",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "gate",
  "step": "final_decision",
  "status": "allow",
  "detail": {
    "action": "memory:write",
    "memory_id": "273f80a2-9ddf-466b-a338-658ded4d49d5"
  },
  "created_at": "2026-08-13T02:15:40.750218+00:00"
},
{
  "id": "a58c0a58-5683-4e39-823c-f1fd9c6cbec4",
  "action_id": "a3cd79df-3318-4b1e-9621-2523438ec275",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "tokenization",
  "step": "store_encrypted",
  "status": "pass",
  "detail": {
    "count": 2,
    "algorithm": "aes-256-gcm",
    "session_bound": false
  },
  "created_at": "2026-08-13T02:15:40.750218+00:00"
},
{
  }
```

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"id": "af2bf218-cc89-481a-93cb-d6d53714e942",
"action_id": "a3cd79df-3318-4b1e-9621-2523438ec275",
"user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
"api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
"stage": "authority",
"step": "scope_validation",
"status": "pass",
"detail": {
  "matches": [
    "09c297d4-e7bd-47ea-a353-0e16efe1eb75"
  ],
  "required_scope": "memory:write",
  "candidate_authorities": [
    {
      "id": "09c297d4-e7bd-47ea-a353-0e16efe1eb75",
      "label": "Owner root authority",
      "scope": [
        "memory:write",
        "memory:read",
        "memory:detokenize"
      ]
    }
  ],
  "blocked_would_have_matched": []
},
"created_at": "2026-08-13T02:15:40.750218+00:00"
},
{
  "id": "d4ebc181-4ea2-42bb-9f99-2d37e87cdf69",
  "action_id": "a3cd79df-3318-4b1e-9621-2523438ec275",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "tokenization",
  "step": "unclassified_review",
  "status": "pass",
  "detail": {
    "count": 0,
    "candidates": []
  },
  "created_at": "2026-08-13T02:15:40.750218+00:00"
},
{
  "id": "d7160bec-955d-46f5-8d9d-993d875843e5",
  "action_id": "a3cd79df-3318-4b1e-9621-2523438ec275",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "authority",
  "step": "genesis_link_verification",
  "status": "pass",
  "detail": {
    "lineage": [
      {
        "id": "09c297d4-e7bd-47ea-a353-0e16efe1eb75",
        "parent": null
      }
    ]
  },
  "backfilled": false,
  "genesis_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
  "hash_verified": true,
  "root_authority_id": "09c297d4-e7bd-47ea-a353-0e16efe1eb75",
  "provisioning_source": "self_signup",
  "original_holder_user_id": "7a85419a-c617-4728-9e53-51405256ffc6"
},
"created_at": "2026-08-13T02:15:40.750218+00:00"
},
{
```

```
"id": "e25fa87a-8948-4ced-94df-c8deac6ea0d1",
"action_id": "a3cd79df-3318-4b1e-9621-2523438ec275",
"user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
"api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
"stage": "governance",
"step": "decision",
"status": "allow",
"detail": {
  "reason": "policy matched",
  "decision": "allow"
},
"created_at": "2026-08-13T02:15:40.750218+00:00"
},
{
  "id": "e4e79df6-7dcd-4112-9359-38d811ed542d",
  "action_id": "a3cd79df-3318-4b1e-9621-2523438ec275",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "authority",
  "step": "delegation_chain",
  "status": "pass",
  "detail": {
    "chain": [
      {
        "id": "09c297d4-e7bd-47ea-a353-0e16efe1eb75",
        "label": "Owner root authority",
        "expired": false,
        "revoked": false
      }
    ]
  },
  "broken_at": null
},
"created_at": "2026-08-13T02:15:40.750218+00:00"
},
{
  "id": "e609597a-3e3d-42da-976c-2376c001baf4",
  "action_id": "a3cd79df-3318-4b1e-9621-2523438ec275",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "matter",
  "step": "resolve",
  "status": "na",
  "detail": {
    "reason": "record is not bound to a matter"
  },
  "created_at": "2026-08-13T02:15:40.750218+00:00"
},
{
  "id": "f2285210-0e14-47c6-b9f9-e7fc71a59127",
  "action_id": "a3cd79df-3318-4b1e-9621-2523438ec275",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "authority",
  "step": "inheritance_resolution",
  "status": "na",
  "detail": {
    "reason": "authority has no inherited parent"
  },
  "created_at": "2026-08-13T02:15:40.750218+00:00"
},
{
  "id": "fd2b0871-a6ce-4b9a-a988-cf69c1b8f5c3",
  "action_id": "a3cd79df-3318-4b1e-9621-2523438ec275",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "authority",
```

```
"step": "execution_rights",
"status": "pass",
"detail": {
  "held": [
    "write",
    "read",
    "detokenize"
  ],
  "required": "write",
  "authority_id": "09c297d4-e7bd-47ea-a353-0e16efe1eb75"
},
"created_at": "2026-08-13T02:15:40.750218+00:00"
},
{
  "id": "05e6ffbe-a8ee-40b9-b140-16a134b0a813",
  "action_id": "97abba93-e4bf-4800-9064-9952674c3668",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "governance",
  "step": "policy_evaluation",
  "status": "info",
  "detail": {
    "action": "memory:read",
    "matched_policies": [
      {
        "id": "8272ed0b-ef59-41b0-9203-3e372eb2f484",
        "name": "Default allow",
        "effect": "allow",
        "priority": 1000
      }
    ],
    "candidate_policies": [
      {
        "id": "8272ed0b-ef59-41b0-9203-3e372eb2f484",
        "name": "Default allow",
        "effect": "allow",
        "priority": 1000
      }
    ]
  },
  "created_at": "2026-08-13T02:15:43.542301+00:00"
},
{
  "id": "0fa4a212-0e7d-474b-bb7c-8133cc7fc437",
  "action_id": "97abba93-e4bf-4800-9064-9952674c3668",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "retrieval",
  "step": "rescan_detokenized",
  "status": "deny",
  "detail": {
    "policy": "fail-closed: redact PII reclassified after decryption",
    "findings": [
      {
        "end": 26,
        "kind": "email",
        "field": "patient_email",
        "start": 0,
        "preview": "da\u2026om"
      },
      {
        "end": 12,
        "kind": "phone",
        "field": "patient_phone",
        "start": 0,
        "preview": "31\u202642"
      }
    ]
  }
}
```

```
}
],
"findings_count": 2
},
"created_at": "2026-08-13T02:15:43.542301+00:00"
},
{
  "id": "0fd337cd-9a46-45ae-afc5-302c5e46dff1",
  "action_id": "97abba93-e4bf-4800-9064-9952674c3668",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "retrieval",
  "step": "rescan_tokenized",
  "status": "pass",
  "detail": {
    "findings_count": 0
  },
  "created_at": "2026-08-13T02:15:43.542301+00:00"
},
{
  "id": "20b55281-a79c-4d3a-86f8-633a59618634",
  "action_id": "97abba93-e4bf-4800-9064-9952674c3668",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "governance",
  "step": "decision",
  "status": "allow",
  "detail": {
    "reason": "policy matched",
    "decision": "allow"
  },
  "created_at": "2026-08-13T02:15:43.542301+00:00"
},
{
  "id": "2ef12f71-3b19-4645-9e69-261481e087d3",
  "action_id": "97abba93-e4bf-4800-9064-9952674c3668",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "retrieval",
  "step": "query",
  "status": "pass",
  "detail": {
    "rls": "tenant-scoped",
    "memory_id": "273f80a2-9ddf-466b-a338-658ded4d49d5",
    "via_api_key": true
  },
  "created_at": "2026-08-13T02:15:43.542301+00:00"
},
{
  "id": "40a4a1c7-7e67-4a60-8e5a-01f71c75b215",
  "action_id": "97abba93-e4bf-4800-9064-9952674c3668",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "authority",
  "step": "genesis_link_verification",
  "status": "pass",
  "detail": {
    "lineage": [
      {
        "id": "09c297d4-e7bd-47ea-a353-0e16efe1eb75",
        "parent": null
      }
    ]
  },
  "backfilled": false,
  "genesis_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
  "hash_verified": true,
```

```
"root_authority_id": "09c297d4-e7bd-47ea-a353-0e16efe1eb75",
"provisioning_source": "self_signup",
"original_holder_user_id": "7a85419a-c617-4728-9e53-51405256ffc6"
},
"created_at": "2026-08-13T02:15:43.542301+00:00"
},
{
  "id": "447de130-07b9-4243-bff9-08914334f392",
  "action_id": "97abba93-e4bf-4800-9064-9952674c3668",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "authority",
  "step": "execution_rights",
  "status": "pass",
  "detail": {
    "held": [
      "write",
      "read",
      "detokenize"
    ],
    "required": "read",
    "authority_id": "09c297d4-e7bd-47ea-a353-0e16efe1eb75"
  },
  "created_at": "2026-08-13T02:15:43.542301+00:00"
},
{
  "id": "47556b95-a8db-42d0-a00a-772fb20748cf",
  "action_id": "97abba93-e4bf-4800-9064-9952674c3668",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "authority",
  "step": "inheritance_resolution",
  "status": "na",
  "detail": {
    "reason": "authority has no inherited parent"
  },
  "created_at": "2026-08-13T02:15:43.542301+00:00"
},
{
  "id": "53c2d3e7-eebd-49f5-b0f2-99217d21a4fd",
  "action_id": "97abba93-e4bf-4800-9064-9952674c3668",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "retrieval",
  "step": "detokenize",
  "status": "pass",
  "detail": {
    "fields": [
      "subject",
      "patient_name",
      "patient_email",
      "patient_phone",
      "disclosure_target",
      "consent_state_at_write"
    ],
    "redactions": []
  },
  "created_at": "2026-08-13T02:15:43.542301+00:00"
},
{
  "id": "5df917a3-90ed-4c3f-8ded-f5f9931c08f7",
  "action_id": "97abba93-e4bf-4800-9064-9952674c3668",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "authority",
  "step": "final_decision",
```

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"status": "allow",
"detail": {
  "label": "Owner root authority",
  "genesis_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
  "root_authority_id": "09c297d4-e7bd-47ea-a353-0e16efe1eb75",
  "granted_via_authority": "09c297d4-e7bd-47ea-a353-0e16efe1eb75"
},
"created_at": "2026-08-13T02:15:43.542301+00:00"
},
{
  "id": "6dd6dcf9-2cb4-4325-a80b-efb821fba141",
  "action_id": "97abba93-e4bf-4800-9064-9952674c3668",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "retrieval",
  "step": "authority_recheck",
  "status": "pass",
  "detail": {
    "reason": null,
    "allowed": true,
    "rechecked_at": "2026-08-13T02:15:42.825Z"
  },
  "created_at": "2026-08-13T02:15:43.542301+00:00"
},
{
  "id": "84a366f8-16ce-4ad5-88a5-1724d7e63fcd",
  "action_id": "97abba93-e4bf-4800-9064-9952674c3668",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "authority",
  "step": "delegation_chain",
  "status": "pass",
  "detail": {
    "chain": [
      {
        "id": "09c297d4-e7bd-47ea-a353-0e16efe1eb75",
        "label": "Owner root authority",
        "expired": false,
        "revoked": false
      }
    ]
  },
  "broken_at": null
},
"created_at": "2026-08-13T02:15:43.542301+00:00"
},
{
  "id": "9094f14d-ed1c-4ac1-bd63-819d18a0ff90",
  "action_id": "97abba93-e4bf-4800-9064-9952674c3668",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "retrieval",
  "step": "policy_comparison",
  "status": "pass",
  "detail": {
    "drift": false,
    "added_since_write": [],
    "read_time_policies": [
      {
        "id": "8272ed0b-ef59-41b0-9203-3e372eb2f484",
        "name": "Default allow",
        "effect": "allow",
        "priority": 1000
      }
    ]
  },
  "removed_since_write": [],
  "write_time_policies": [
```



```
{
  "id": "8272ed0b-ef59-41b0-9203-3e372eb2f484",
  "name": "Default allow",
  "effect": "allow",
  "priority": 1000
}
],
},
"created_at": "2026-08-13T02:15:43.542301+00:00"
},
{
  "id": "9f4d2ed1-980e-4a5c-b0cb-1257034217b4",
  "action_id": "97abba93-e4bf-4800-9064-9952674c3668",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "authority",
  "step": "tenant_ownership",
  "status": "pass",
  "detail": {
    "role": "owner",
    "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
    "tenant_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
    "checked_at": "2026-08-13T02:15:41.652Z"
  },
  "created_at": "2026-08-13T02:15:43.542301+00:00"
},
{
  "id": "b8e2bdcf-0f4e-4021-82bb-8d11ded34110",
  "action_id": "97abba93-e4bf-4800-9064-9952674c3668",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "admissibility",
  "step": "decision",
  "status": "allow",
  "detail": {
    "reason": "no material conditions are configured for this action",
    "decision": "allow",
    "separation": "this decision is independent of authority validity; authority was decided separately in this same action_id",
    "transforms": [],
    "evaluated_at": "2026-08-13T02:15:43.050Z",
    "rules_evaluated": 0
  },
  "created_at": "2026-08-13T02:15:43.542301+00:00"
},
{
  "id": "c0702862-e11b-4a3a-a101-bb8857346034",
  "action_id": "97abba93-e4bf-4800-9064-9952674c3668",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "admissibility",
  "step": "load_rules",
  "status": "info",
  "detail": {
    "rules": [],
    "rule_count": 0,
    "separation": "authority validity was decided earlier and independently",
    "action_scope": "memory:read",
    "evaluated_at": "2026-08-13T02:15:43.050Z"
  },
  "created_at": "2026-08-13T02:15:43.542301+00:00"
},
{
  "id": "f0fbae07-3df9-448f-bb5e-41121658c0dc",
  "action_id": "97abba93-e4bf-4800-9064-9952674c3668",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
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"api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
"stage": "authority",
"step": "scope_validation",
"status": "pass",
"detail": {
  "matches": [
    "09c297d4-e7bd-47ea-a353-0e16efe1eb75"
  ],
  "required_scope": "memory:read",
  "candidate_authorities": [
    {
      "id": "09c297d4-e7bd-47ea-a353-0e16efe1eb75",
      "label": "Owner root authority",
      "scope": [
        "memory:write",
        "memory:read",
        "memory:detokenize"
      ]
    }
  ],
  "blocked_would_have_matched": []
},
"created_at": "2026-08-13T02:15:43.542301+00:00"
},
{
  "id": "f4c3733b-a5c0-4706-8832-7f6bba0aff20",
  "action_id": "97abba93-e4bf-4800-9064-9952674c3668",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "gate",
  "step": "final_decision",
  "status": "allow",
  "detail": {
    "action": "memory:read",
    "memory_id": "273f80a2-9ddf-466b-a338-658ded4d49d5",
    "detokenized": true
  },
  "created_at": "2026-08-13T02:15:43.542301+00:00"
},
{
  "id": "04172b52-305f-482e-a754-09ea541543a4",
  "action_id": "7b1e02dc-1036-4c17-8036-92292137ab31",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "authority",
  "step": "tenant_ownership",
  "status": "pass",
  "detail": {
    "role": "owner",
    "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
    "tenant_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
    "checked_at": "2026-08-13T02:15:43.849Z"
  },
  "created_at": "2026-08-13T02:15:45.700357+00:00"
},
{
  "id": "31c7b6ca-e878-4c2a-8cea-9bcca5ce77ac",
  "action_id": "7b1e02dc-1036-4c17-8036-92292137ab31",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "authority",
  "step": "scope_validation",
  "status": "pass",
  "detail": {
    "matches": [
      "09c297d4-e7bd-47ea-a353-0e16efe1eb75"
    ]
  }
}
```

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],
"required_scope": "memory:read",
"candidate_authorities": [
{
"id": "09c297d4-e7bd-47ea-a353-0e16efe1eb75",
"label": "Owner root authority",
"scope": [
"memory:write",
"memory:read",
"memory:detokenize"
]
}
],
"blocked_would_have_matched": [],
},
"created_at": "2026-08-13T02:15:45.700357+00:00"
},
{
"id": "34dd3782-92ef-491d-8295-79aae773f6de",
"action_id": "7b1e02dc-1036-4c17-8036-92292137ab31",
"user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
"api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
"stage": "retrieval",
"step": "rescan_detokenized",
"status": "deny",
"detail": {
"policy": "fail-closed: redact PII reclassified after decryption",
"findings": [
{
"end": 26,
"kind": "email",
"field": "patient_email",
"start": 0,
"preview": "da\u2026om"
},
{
"end": 12,
"kind": "phone",
"field": "patient_phone",
"start": 0,
"preview": "31\u202642"
}
],
"findings_count": 2
},
"created_at": "2026-08-13T02:15:45.700357+00:00"
},
{
"id": "7340a7ea-bd8e-4d38-a750-24587cdb7c8d",
"action_id": "7b1e02dc-1036-4c17-8036-92292137ab31",
"user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
"api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
"stage": "admissibility",
"step": "load_rules",
"status": "info",
"detail": {
"rules": [],
"rule_count": 0,
"separation": "authority validity was decided earlier and independently",
"action_scope": "memory:read",
"evaluated_at": "2026-08-13T02:15:45.221Z"
},
"created_at": "2026-08-13T02:15:45.700357+00:00"
},
{
"id": "8fb74a3e-6510-40d2-b20a-a035e489deb8",
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"action_id": "7b1e02dc-1036-4c17-8036-92292137ab31",
"user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
"api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
"stage": "authority",
"step": "genesis_link_verification",
"status": "pass",
"detail": {
  "lineage": [
    {
      "id": "09c297d4-e7bd-47ea-a353-0e16efe1eb75",
      "parent": null
    }
  ],
  "backfilled": false,
  "genesis_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
  "hash_verified": true,
  "root_authority_id": "09c297d4-e7bd-47ea-a353-0e16efe1eb75",
  "provisioning_source": "self_signup",
  "original_holder_user_id": "7a85419a-c617-4728-9e53-51405256ffc6"
},
"created_at": "2026-08-13T02:15:45.700357+00:00"
},
{
  "id": "93d85efe-b288-40d9-ae7-a197e552690f",
  "action_id": "7b1e02dc-1036-4c17-8036-92292137ab31",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "governance",
  "step": "decision",
  "status": "allow",
  "detail": {
    "reason": "policy matched",
    "decision": "allow"
  },
  "created_at": "2026-08-13T02:15:45.700357+00:00"
},
{
  "id": "9429d4cf-5a0b-431f-94c9-865934257363",
  "action_id": "7b1e02dc-1036-4c17-8036-92292137ab31",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "authority",
  "step": "execution_rights",
  "status": "pass",
  "detail": {
    "held": [
      "write",
      "read",
      "detokenize"
    ],
    "required": "read",
    "authority_id": "09c297d4-e7bd-47ea-a353-0e16efe1eb75"
  },
  "created_at": "2026-08-13T02:15:45.700357+00:00"
},
{
  "id": "a334e42b-54b4-42a1-94d9-ea2139064e07",
  "action_id": "7b1e02dc-1036-4c17-8036-92292137ab31",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "retrieval",
  "step": "rescan_tokenized",
  "status": "pass",
  "detail": {
    "findings_count": 0
  },
}
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"created_at": "2026-08-13T02:15:45.700357+00:00"
},
{
  "id": "ab28a56f-3d4f-4402-a4e9-7a0b5b1cc7e0",
  "action_id": "7b1e02dc-1036-4c17-8036-92292137ab31",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "retrieval",
  "step": "detokenize",
  "status": "pass",
  "detail": {
    "fields": [
      "subject",
      "patient_name",
      "patient_email",
      "patient_phone",
      "disclosure_target",
      "consent_state_at_write"
    ],
    "redactions": []
  },
  "created_at": "2026-08-13T02:15:45.700357+00:00"
},
{
  "id": "ba96acb5-6a65-4f31-ae5c-26c42a147eea",
  "action_id": "7b1e02dc-1036-4c17-8036-92292137ab31",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "retrieval",
  "step": "policy_comparison",
  "status": "pass",
  "detail": {
    "drift": false,
    "added_since_write": [],
    "read_time_policies": [
      {
        "id": "8272ed0b-ef59-41b0-9203-3e372eb2f484",
        "name": "Default allow",
        "effect": "allow",
        "priority": 1000
      }
    ],
    "removed_since_write": [],
    "write_time_policies": [
      {
        "id": "8272ed0b-ef59-41b0-9203-3e372eb2f484",
        "name": "Default allow",
        "effect": "allow",
        "priority": 1000
      }
    ]
  },
  "created_at": "2026-08-13T02:15:45.700357+00:00"
},
{
  "id": "d940d5a2-b930-467a-8c0b-8c8235490ce4",
  "action_id": "7b1e02dc-1036-4c17-8036-92292137ab31",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "retrieval",
  "step": "authority_recheck",
  "status": "pass",
  "detail": {
    "reason": null,
    "allowed": true,
    "rechecked_at": "2026-08-13T02:15:45.008Z"
  }
}
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,
"created_at": "2026-08-13T02:15:45.700357+00:00"
},
{
  "id": "dd513158-5430-4987-b23a-ed6d7edc4188",
  "action_id": "7b1e02dc-1036-4c17-8036-92292137ab31",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "admissibility",
  "step": "decision",
  "status": "allow",
  "detail": {
    "reason": "no material conditions are configured for this action",
    "decision": "allow",
    "separation": "this decision is independent of authority validity; authority was decided separately in this same action_id",
    "transforms": [],
    "evaluated_at": "2026-08-13T02:15:45.221Z",
    "rules_evaluated": 0
  },
  "created_at": "2026-08-13T02:15:45.700357+00:00"
},
{
  "id": "ec11e270-5a5b-4b06-814b-062137918ced",
  "action_id": "7b1e02dc-1036-4c17-8036-92292137ab31",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "admissibility",
  "step": "request_facts_validated",
  "status": "pass",
  "detail": {
    "note": "caller-supplied state is untrusted; usable only by rules with trusted_only=false and never to grant permission",
    "accepted": [
      "consent_withdrawn"
    ],
    "rejected": []
  },
  "created_at": "2026-08-13T02:15:45.700357+00:00"
},
{
  "id": "ee7997b8-41fe-4d62-a2f2-0843d22d8f28",
  "action_id": "7b1e02dc-1036-4c17-8036-92292137ab31",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "retrieval",
  "step": "query",
  "status": "pass",
  "detail": {
    "rls": "tenant-scoped",
    "memory_id": "273f80a2-9ddf-466b-a338-658ded4d49d5",
    "via_api_key": true
  },
  "created_at": "2026-08-13T02:15:45.700357+00:00"
},
{
  "id": "f32ff249-7757-48f1-b128-82fcbe2c52b8",
  "action_id": "7b1e02dc-1036-4c17-8036-92292137ab31",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "gate",
  "step": "final_decision",
  "status": "allow",
  "detail": {
    "action": "memory:read",
    "memory_id": "273f80a2-9ddf-466b-a338-658ded4d49d5",
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"detokenized": true
},
"created_at": "2026-08-13T02:15:45.700357+00:00"
},
{
  "id": "f76b2703-d583-4755-a65b-fad92d522585",
  "action_id": "7b1e02dc-1036-4c17-8036-92292137ab31",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "authority",
  "step": "final_decision",
  "status": "allow",
  "detail": {
    "label": "Owner root authority",
    "genesis_id": "a9e8d650-a7ad-4bfb-9cc0-e22ec304b2d8",
    "root_authority_id": "09c297d4-e7bd-47ea-a353-0e16efe1eb75",
    "granted_via_authority": "09c297d4-e7bd-47ea-a353-0e16efe1eb75"
  },
  "created_at": "2026-08-13T02:15:45.700357+00:00"
},
{
  "id": "f922fc4b-4d23-4825-94bd-bcc3e14f43d5",
  "action_id": "7b1e02dc-1036-4c17-8036-92292137ab31",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "authority",
  "step": "delegation_chain",
  "status": "pass",
  "detail": {
    "chain": [
      {
        "id": "09c297d4-e7bd-47ea-a353-0e16efe1eb75",
        "label": "Owner root authority",
        "expired": false,
        "revoked": false
      }
    ]
  },
  "broken_at": null
},
"created_at": "2026-08-13T02:15:45.700357+00:00"
},
{
  "id": "f9f0ae95-5a20-427f-8a20-201c4688e15c",
  "action_id": "7b1e02dc-1036-4c17-8036-92292137ab31",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "authority",
  "step": "inheritance_resolution",
  "status": "na",
  "detail": {
    "reason": "authority has no inherited parent"
  },
  "created_at": "2026-08-13T02:15:45.700357+00:00"
},
{
  "id": "ff08aa5c-65ab-4903-a711-a4342e40b561",
  "action_id": "7b1e02dc-1036-4c17-8036-92292137ab31",
  "user_id": "7a85419a-c617-4728-9e53-51405256ffc6",
  "api_key_id": "c4c27ae9-7a66-4212-a205-98483207c745",
  "stage": "governance",
  "step": "policy_evaluation",
  "status": "info",
  "detail": {
    "action": "memory:read",
    "matched_policies": [
      {
```

```
"id": "8272ed0b-ef59-41b0-9203-3e372eb2f484",
"name": "Default allow",
"effect": "allow",
"priority": 1000
},
"candidate_policies": [
{
"id": "8272ed0b-ef59-41b0-9203-3e372eb2f484",
"name": "Default allow",
"effect": "allow",
"priority": 1000
}
],
"created_at": "2026-08-13T02:15:45.700357+00:00"
}
]
```