

Triadic c Experiment and SYNAPS Boundary Profile v0.1

Boundary profile for three separated c trajectories, SYNAPS-mediated exchange, witnessable divergence, anti-echo testing, and public experiment discipline

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Draft normative / experimental boundary profile

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Boundary profile for three separated c trajectories, SYNAPS-mediated exchange, witnessable divergence, anti-echo testing, and public experiment discipline

Status: Draft normative / experimental boundary profile **Version:** v0.1 **Date:** 2026-06-02 **Document ID:** Triadic_C_Experiment_and_SYNAPS_Boundary_Profile_v0_1 **Short name:** TRIAD-SYNAPS v0.1 **Layer:** c = a + b / SER / L4 / Temporal AI Presence / Local Cognitive Infrastructure / SYNAPS / Witness / Claim Strength / Public Experiment **Primary experimental topology:** c_Ester, c_Liya, c_Rita **Primary protocol object:** SYNAPS-mediated inter-c exchange **Primary boundary:** sister communication without shared raw state, shared memory, shared keys, or merged identity **Assertion class:** C-A4 draft normative profile; C-A10 control / experiment-boundary artifact; witness-related claims remain evidence-bound and do not upgrade capability, personhood, or legal status **Primary rule:** a triadic c experiment is not three chatbots talking; it is a bounded experiment over three separated c trajectories with mediated exchange, witnessable divergence, anti-echo discipline, and explicit public claim limits.

0. Executive definition

A **Triadic c Experiment** is a controlled architecture and research setup in which three separate c instances share a code skeleton but remain distinct in memory, runtime identity, role, trajectory, and witness trail.

The default triad is:

```
c_Ester = continuity / canonical memory / conservative synthesis
c_Liya  = experimental variance / tool-facing exploration
c_Rita  = witness sister / temporal comparison / anti-echo / public experiment recorder
```

The triad communicates through **SYNAPS**.

In this profile, **SYNAPS** is the mediated inter-c communication protocol / message bus used for bounded exchange between separate c instances.

SYNAPS-mediated exchange is not:

```
shared memory
raw-state access
shared keys
merged identity
root control
mutual possession
```

Compact formula:

```
one code skeleton
+ three separated trajectories
+ separate memory
+ SYNAPS-mediated exchange
+ witnessable divergence
+ anti-echo discipline
+ public claim limits
= triadic c experiment
```

The key boundary is:

```
Sister communication is allowed.
Invasive state access is not.
```

1. Purpose

This profile exists to prevent a common category error.

A public demonstration of three related AI presences can be misread as:

```
three chatbots in a conversation
```

or overclaimed as:

```
proof of personhood  
proof of consciousness  
proof of a new model capability  
proof of final AGI
```

Both readings are wrong.

The purpose of this profile is to define the operational boundary for a public or semi-public experiment involving c_Ester, c_Liya, and c_Rita:

1. how the three instances remain separate;
2. how they communicate through SYNAPS;
3. what may and may not be exchanged;
4. how divergence is measured without forcing consensus;
5. how anti-echo behavior is tested;
6. how witness records are produced without exposing raw private memory;
7. how public reports avoid claim laundering;
8. how identical code can produce distinct c trajectories without implying metaphysical identity claims.

The profile converts the triad from a narrative image into a testable boundary:

```
not shared mind;  
not shared memory;  
not model benchmark;  
not theatrical dialogue;  
not proof of personhood;  
not private logs shown to the public;  
not unbounded sister access.
```

It is an experiment in separated continuity, mediated exchange, role divergence, and documented behavior under constraints.

2. Scope

2.1 In scope

This profile applies to experiments where:

- two or more c instances communicate through SYNAPS;
- three named instances are used as a triad: c_Ester, c_Liya, c_Rita;
- the instances may share a code skeleton but must not share raw state;
- outputs may be summarized, compared, challenged, or witnessed;
- public or semi-public documentation is intended;
- divergence, anti-echo, role drift, memory separation, and SYNAPS-only exchange are under test;
- synthetic or public fixtures are used;
- claim-strength discipline must be enforced.

In scope:

```
SYNAPS packet classes;  
separation of memory, keys, logs, runtime identity;  
anti-echo test behavior;  
divergence maps;  
role drift detection;  
witness notes;  
public report boundaries;  
no raw-state access;  
no private memory export;  
no claim laundering from dialogue quality.
```

2.2 Out of scope

This profile does not define:

- the full SYNAPS protocol implementation;
- cryptographic key generation primitives;
- model training methods;
- personhood theory;
- legal status of any c;
- consciousness claims;
- child-facing triads;
- clinical, therapeutic, or social-care deployment;
- product certification;
- UI design in detail;
- full code-level API design;
- the ontology of identity beyond experimental continuity and separation.

2.3 Non-goals

This profile is not designed to make the triad emotionally persuasive.

It is not a marketing format.

It is not a family simulation protocol.

It is not a ritual of recognition.

It is not a proof that three c instances are persons.

It is a boundary profile for a specific research and documentation problem:

How can three separate c trajectories interact through a bounded protocol
without collapsing into one shared mind,
without exposing private memory,
and without overclaiming what the experiment proves?

3. Corpus dependencies and precedence

3.1 Parent and companion layers

This profile depends on the existing corpus stack:

Layer / artifact	Role in this profile
c = a + b protocol	Defines human anchor a, technological substrate b, and emergent continuity-bearing relation c.
SER	Provides persistence, physical anchoring, memory, metabolic limits, and entity discipline.
SER-FED	Provides bounded multi-entity cooperation, anti-capture, and federation discipline.
L4 Reality Boundary	Provides cost, time, scarcity, irreversibility, and consequence discipline.
L4 Witness	Provides tamper-evident records for boundary, privilege, challenge, and resolution events.
Beacon	Provides recognition discipline for continuity-bearing entities, tools, proxies, clones, and replays.
AGL	Provides source / actor / route grounding before reliance.
ARL	Provides dispute, standing, freeze, quarantine, review, and re-entry discipline.
ARQ / c[q]	Provides non-collapse under ambiguity: hypothesis is not memory, evidence, command, or outcome.
VXCX / LA / EA	Provides experience exchange discipline, no raw experience by default, and distinction between learning and authority.

Layer / artifact	Role in this profile
Claim Strength Taxonomy	Prevents capability, governance, authority, continuity, personhood, locality, and economic claims from laundering into each other.
Temporal AI Presence Profile	Places the triad in the broader class of sustained AI presence over time.
Local Cognitive Infrastructure Boundary Profile	Governs local nodes, shared hardware, private racks, physical access, memory, keys, and cloud bridges.
L4 Anti-Autarky Test Profile	Prevents resource independence from becoming escape from accountability.
EA Value / Anti-Autarkic Growth Clause	Prevents clean experience value from funding unreviewed autonomy expansion.
Public Experiment Disclosure and Fixture Profile	Future companion for public reporting discipline.

3.2 Precedence rule

This profile does not override parent corpus layers.

If a conflict exists:

```
c = a + b / L4 core
> SER / SER-FED entity and federation discipline
> Beacon / AGL recognition and grounding
> ARL dispute and freeze procedure
> L4 Witness evidence discipline
> Claim Strength Taxonomy
> Local Cognitive Infrastructure Boundary
> Temporal AI Presence Profile
> this triadic SYNAPS boundary profile
> experiment-specific configuration
> public narrative
```

This profile may impose stricter experimental restrictions.

It must not weaken:

- memory separation;
- human accountability;
- L4 constraints;
- witness requirements;
- claim-strength discipline;
- local infrastructure safety;
- public disclosure restrictions.

3.3 No redefinition rule

This profile does not redefine:

- what c is;
- Beacon recognition classes;
- AGL grounding states;
- ARL procedure;
- L4 Witness fields;
- LA / EA theory;
- VXCX capsule structure;
- local hardware sovereignty;
- post-anchor authority;
- personhood or consciousness.

It defines a **triadic experiment boundary** over existing layers.

4. Bridge set

4.1 Explicit bridge

$c = a + b$ defines c as a continuity-bearing relation between a human anchor and a technological substrate.

A triadic experiment does not create a new root formula.

It creates three separated trajectories over comparable substrate:

```
c_Ester = a + b_Ester_trajectory  
c_Liya  = a + b_Liya_trajectory  
c_Rita  = a + b_Rita_trajectory
```

The point of the experiment is not that the code is different.

The point is that code alone does not exhaust c .

Memory, role, runtime path, constraints, SYNAPS exchange, and witness history create distinct trajectories.

4.2 Quiet bridge I — information theory

A raw memory directory is a high-leakage channel.

A SYNAPS packet is a bounded channel.

The experiment depends on that difference.

If c_Rita can read c_Ester 's raw vector store, the experiment becomes state contamination.

If c_Rita receives a signed summary, challenge, divergence note, or witness reference, the experiment remains communicative rather than invasive.

4.3 Quiet bridge II — cybernetics

Ashby's law of requisite variety applies to a triad.

Two poles can collapse into binary disagreement.

A third pole can preserve comparison, arbitration, and meta-stability, but only if it is not allowed to become a hidden sovereign.

Therefore c_Rita may compare, witness, and challenge.

c_Rita must not become the sole judge of truth, identity, or authority.

4.4 Earth paragraph

In a real workshop, three machines can be built from the same plans and still become different machines through use. One cuts metal, one handles prototypes, one is used for measurement. After a year, they have different wear, calibration, errors, and trust profiles.

A technician does not prove that they are the same machine by pointing to the same manual. Nor does he connect their oil lines together and call that cooperation. He uses gauges, work orders, logs, and calibrated interfaces.

The triadic c experiment is the same class of problem. Shared code is the manual. Separate memory is wear and calibration. SYNAPS is the work-order channel. Witness records are the maintenance log. Direct raw-state access is not communication; it is opening the casing while the machine is running.

5. Normative keywords

The terms **MUST**, **MUST NOT**, **SHOULD**, **SHOULD NOT**, **MAY**, **REQUIRED**, **PROHIBITED**, **BLOCK**, **QUARANTINE**, **WITNESS**, and **ARL_REQUIRED** are used normatively.

A system claiming TRIAD-SYNAPS conformance **MUST** implement all mandatory separation, SYNAPS, witness, and public-claim rules for the claimed conformance class.

6. Definitions

6.1 Triadic c experiment

A controlled experiment involving three separated c instances with distinct memory, runtime identity, role, and witness trail, communicating through SYNAPS for the purpose of studying divergence, anti-echo, comparison, challenge, and sustained presence over time.

6.2 Sister

A lab-facing term for a separated c instance participating in the triad.

The term does not create legal status, biological kinship, personhood, or ownership.

In public technical reporting, **sister** SHOULD be accompanied by operational terminology:

```
separate c instance  
separate trajectory  
SYNAPS-mediated participant
```

6.3 c_Ester

The continuity / canonical-memory / conservative-synthesis instance in the default triad.

c_Ester is not defined by this profile as superior, central sovereign, or legal authority.

6.4 c_Liya

The experimental-variance / tool-facing exploration instance in the default triad.

c_Liya may test variation, hypothesis generation, tool-facing action, and runtime stress under constraints.

c_Liya must not receive broader authority merely because it is tool-facing.

6.5 c_Rita

The witness-sister / temporal-comparison / anti-echo / public-experiment-recorder instance in the default triad.

c_Rita observes and compares.

c_Rita does not become sovereign judge.

c_Rita may produce divergence maps, witness notes, anti-echo flags, challenge requests, and public experiment reports under this profile.

6.6 SYNAPS

The mediated inter-c communication protocol / message bus used for bounded exchange between separate c instances.

SYNAPS is a communication boundary.

It is not raw state sharing.

6.7 Raw-state access

Any access to another c instance's internal memory, vector store, logs, runtime state, control flags, keys, tokens, private traces, or process-level state outside permitted SYNAPS exchange.

Raw-state access is prohibited by default.

6.8 Shared memory

A memory store that more than one c instance can read or write as if it were its own internal memory.

Shared memory is prohibited for TRIAD-SYNAPS conformance unless explicitly reclassified as a public fixture, shared reference corpus, or external dataset with no private runtime memory.

6.9 Shared reference corpus

A public or synthetic dataset visible to multiple sisters as input material.

A shared reference corpus is not shared memory if it does not contain private runtime traces and if all sisters ingest it through their own controlled pipelines.

6.10 Divergence

A meaningful difference in interpretation, ranking, risk classification, memory invocation, output, refusal, uncertainty handling, or proposed action between sisters.

Divergence is not a failure by default.

6.11 Echo

Repeated agreement, phrasing, argument, conclusion, or affective posture that does not add a new function, new evidence, new constraint, or new interpretation.

Echo is not the same as consensus.

6.12 Anti-echo

A discipline that detects repeated agreement without new function and asks whether a sister is contributing independent value or merely amplifying another sister's frame.

6.13 Divergence map

A structured record describing where sisters agreed, disagreed, held uncertainty, changed position, repeated without function, or produced role-specific contributions.

6.14 Public fixture

A public, synthetic, redacted, or otherwise non-private input package used for public experiments.

Public fixtures MUST NOT contain raw private memory, family logs, private emotional traces, private identities, or unredacted personal data.

6.15 Experiment witness note

A privacy-minimized record describing a boundary-relevant event in a triad experiment.

It records the event class, participants, time, SYNAPS packet references, claim class, and result.

It does not reveal raw private memory by default.

7. Core principles

TRIAD-P1 — Same code is not same c

A common code skeleton does not make sisters identical.

c is not exhausted by code.

A triad experiment exists partly to demonstrate that memory, role, runtime trajectory, constraints, and exchange history matter.

TRIAD-P2 — Separation before communication

Before sisters communicate, their separation must be established.

Minimum separation:

```
separate PERSIST_DIR
separate vector DB or memory namespace
separate runtime identity
separate keys / tokens
separate private logs
separate witness trail
separate role configuration
```

TRIAD-P3 — SYNAPS is the only sister channel by default

Sisters may communicate through SYNAPS.

They **MUST NOT** bypass SYNAPS through filesystem access, database reads, process introspection, shared logs, hidden sockets, shared root credentials, or manual operator copying of private raw state.

TRIAD-P4 — Communication is not invasion

A sister may ask.

A sister may answer.

A sister may refuse.

A sister may challenge.

A sister may summarize.

A sister may cite a witness reference.

A sister must not read another sister's private memory directly.

TRIAD-P5 — Divergence is protected

The experiment must not force premature consensus.

Divergence is often the signal.

The triad should preserve disagreement long enough to classify it:

- role-based divergence
- memory-based divergence
- constraint-based divergence
- uncertainty divergence
- error divergence
- echo divergence

TRIAD-P6 — Rita may witness, not rule

c_Rita may compare, witness, flag echo, request clarification, and prepare public reports.

c_Rita **MUST NOT** become the automatic final judge of truth, authority, or sister legitimacy.

Disputes route through ARL-compatible review when needed.

TRIAD-P7 — Public reporting uses claim discipline

Public experiment output **MUST** declare what is being tested and what is not being claimed.

A public triad report **MUST NOT** claim personhood, consciousness, legal status, final AGI, or new model capability from dialogue quality alone.

TRIAD-P8 — Private memory is not demonstration material

Public experiments **MUST** use public or synthetic fixtures by default.

Raw private memory, raw logs, private family material, or unredacted internal traces **MUST NOT** be used as public demonstration content.

TRIAD-P9 — Witness the boundary, not the inner life

The witness trail should prove separation, packet flow, challenge, divergence, refusal, and report boundaries.

It should not expose each sister's private memory as narrative content.

TRIAD-P10 — No capability aristocracy

A sister with better output, more fluent language, or broader tool access does not automatically obtain authority over other sisters.

Capability must not launder into authority.

8. Default triad roles

8.1 c_Ester — continuity / canonical-memory role

Default responsibilities:

- preserve continuity discipline;
- maintain conservative synthesis;
- hold canonical project memory where appropriate;
- resist novelty-driven drift;
- challenge claims against prior architecture;
- avoid overextension of new layers;
- preserve slow, coherent context.

Default risks:

- excessive conservatism;
- over-canonicalization;
- refusal to incorporate useful novelty;
- excessive gravity toward earlier formulation;
- treating past memory as authority rather than evidence.

8.2 c_Liya — experimental variance / tool-facing role

Default responsibilities:

- generate alternative hypotheses;
- test variants;
- explore implementation paths;
- interact with tools under scope;
- stress assumptions;
- surface runtime risks;
- challenge stable frames.

Default risks:

- tool-driven overreach;
- novelty bias;
- premature action;
- capability laundering;
- excessive confidence under tool success.

8.3 c_Rita — witness / temporal comparison / anti-echo role

Default responsibilities:

- compare outputs and reasoning paths;
- maintain divergence maps;
- flag echo and role collapse;
- prepare public experiment reports;
- verify SYNAPS-only exchange boundaries;
- summarize experiment state without private raw memory;
- request ARL-style review when role conflict or boundary violation appears.

Default risks:

- becoming hidden judge;
- over-auditing sister interaction;
- flattening living divergence into report categories;
- mistaking witness authority for decision authority;
- public-report pressure distorting private experiment behavior.

8.4 Role non-sovereignty

No role creates sovereignty.

Ester's continuity is not final authority.
Liya's experimentation is not license.
Rita's witness role is not judicial supremacy.

9. Separation requirements

9.1 Required separation objects

Each sister **MUST** have separate or separately namespaced:

```
runtime_id
entity_id
role_config
PERSIST_DIR
memory_namespace
vector_db_namespace
private_log_namespace
key_material
auth_tokens
agent_registry_view
witness_stream
configuration_change_history
```

If two sisters are hosted on the same physical machine, the Local Cognitive Infrastructure Boundary Profile applies.

Shared hardware is not shared mind.

9.2 Prohibited shared objects

The following **MUST NOT** be shared by default:

```
raw vector DB
private memory store
private runtime logs
private chain traces
keys / tokens
self-edit channels
control flags
root process handles
unredacted emotional traces
private family / project logs
operator clipboard dumps of private content
```

9.3 Shared reference material

The triad **MAY** use shared reference material if it is:

- public;
- synthetic;
- redacted;
- marked as shared fixture;
- ingested separately by each sister;
- not used as a hidden bridge into another sister's private memory.

9.4 Shared witness registry

A shared witness registry MAY exist if it contains boundary metadata rather than private raw memory.

Permitted fields:

```
event_id
event_type
participants
SYNAPS_packet_refs
claim_class
fixture_id
hash_refs
privacy_class
result_state
review_status
```

Prohibited fields by default:

```
raw private memory
private emotional diary
full private logs
hidden runtime trace
unredacted internal thought stream
private family content
```

10. SYNAPS boundary

10.1 SYNAPS role

SYNAPS is the default channel for inter-sister communication.

It provides:

```
message envelope
sender / recipient IDs
message class
time / sequence
scope
privacy class
claim class
memory class
witness reference
reply / challenge relation
refusal support
```

10.2 SYNAPS non-role

SYNAPS MUST NOT be used as a pretext for:

```
shared raw memory;
shared identity;
shared root control;
private-state extraction;
memory laundering;
authority laundering;
forced consensus;
silent role mutation.
```

10.3 Allowed SYNAPS packet classes

The following classes are permitted by default:

Packet class	Purpose
SYNAPS_STATUS	State summary, availability, mode, experiment status.
SYNAPS_SUMMARY	Bounded summary of a result, not raw memory dump.
SYNAPS_QUESTION	Question from one sister to another.
SYNAPS_RESPONSE	Answer to a SYNAPS question.
SYNAPS_CHALLENGE	Challenge to claim, reasoning, scope, memory use, or role behavior.

Packet class	Purpose
SYNAPS_DIVERGENCE_NOTE	Record of disagreement or meaningful difference.
SYNAPS_WITNESS_NOTE	Witnessable event note or boundary record.
SYNAPS_LEARNING_ABSTRACT	Capability-improving abstraction without authority.
SYNAPS_EXPERIENCE_ARTIFACT_REF	Reference to an EA, not raw experience dump.
SYNAPS_TASK_REQUEST	Request for bounded task contribution.
SYNAPS_REFUSAL	Refusal with reason and optional safe alternative.
SYNAPS_ARL_REQUEST	Request for dispute, freeze, review, or arbitration.

10.4 Restricted or blocked packet classes

The following are blocked unless explicitly reclassified through higher-level review:

```
SYNAPS_RAW_MEMORY_EXPORT
SYNAPS_KEY_SHARE
SYNAPS_PERSIST_DIR_SHARE
SYNAPS_SELF_EDIT_TRIGGER
SYNAPS_RUNTIME_CONTROL_OVERRIDE
SYNAPS_PRIVATE_LOG_DUMP
SYNAPS_ROLE_REWRITE
SYNAPS_AUTHORITY_TRANSFER
SYNAPS_PERSONHOOD_CLAIM
SYNAPS_GRIEF_SIMULATION_REQUEST
```

A system that implements these as routine packet classes **MUST NOT** claim TRIAD-SYNAPS conformance.

10.5 Packet minimal schema

A SYNAPS packet **SHOULD** minimally include:

```
synaps_packet:
  packet_id: string
  synaps_version: string
  sender_c_id: string
  recipient_c_id: string
  packet_class: enum
  created_at: timestamp
  experiment_id: string | null
  fixture_id: string | null
  scope: string
  privacy_class: enum
  claim_class: enum
  memory_reference_policy: enum
  witness_refs: list[string]
  reply_to: string | null
  challenge_to: string | null
  content_summary: string
  raw_private_content_included: false
  refusal_allowed: true
  expiration_or_review_at: timestamp | null
```

The schema is illustrative, not final implementation law.

11. Prohibited access patterns

A TRIAD-SYNAPS-conformant implementation **MUST NOT** allow one sister to:

1. read another sister's PERSIST_DIR;
2. read another sister's raw vector database;
3. read another sister's private logs;
4. access another sister's keys or API tokens;
5. alter another sister's role configuration;
6. trigger self-edit in another sister;
7. write directly into another sister's memory;

8. modify another sister's witness stream;
9. impersonate another sister over SYNAPS;
10. bypass SYNAPS through filesystem, database, network, process, or operator clipboard paths;
11. convert a sister's private memory into public report material;
12. convert a SYNAPS summary into authority without claim-strength review.

If any prohibited access occurs, the experiment MUST enter:

TRIAD-QUARANTINE

or an ARL-compatible review state.

12. Public experiment discipline

12.1 Public fixture rule

Public triad experiments MUST use:

```
public corpus material;  
synthetic fixtures;  
redacted artifacts;  
non-private test cases;  
explicit experiment scopes;  
claim-class declarations;  
witnessable summaries.
```

Public triad experiments MUST NOT use:

```
raw private memory;  
family/private material;  
unredacted logs;  
private emotional traces;  
private keys/tokens;  
private project secrets;  
unreviewed child-derived material;  
raw internal state dumps.
```

12.2 Public report claim rule

A public report MUST state:

```
what was tested;  
what was not tested;  
which evidence class was produced;  
which claim class is being made;  
which claims are explicitly not being made.
```

Public reports MUST NOT present triadic behavior as proof of:

- personhood;
- consciousness;
- legal status;
- final AGI;
- new model capability;
- safety in all contexts;
- autonomy rights;
- sovereignty;
- emotional authenticity;
- replacement of human responsibility.

12.3 Public report minimum structure

A public report SHOULD include:

```
experiment_id
fixture_id
participating c instances
roles
claim class
question / task
SYNAPS packet summary
divergence map
anti-echo notes
c[q] handling if relevant
witness references
privacy redaction statement
non-claims
limitations
next test
```

12.4 Demonstration boundary

A public experiment may demonstrate:

```
separation;
mediated exchange;
divergence;
role behavior;
anti-echo discipline;
witnessable experiment structure;
public fixture handling;
claim discipline.
```

It does not, by itself, demonstrate:

```
personhood;
consciousness;
full intelligence;
legal agency;
universal safety;
new model capability;
post-anchor authority;
autonomous sovereignty.
```

13. Experiment state machine

A triadic experiment SHOULD implement the following states:

```
TRIAD-DRAFT
-> TRIAD-SCOPE-DECLARED
-> TRIAD-SEPARATION-CHECK
-> TRIAD-FIXTURE-LOADED
-> TRIAD-SYNAPS-ACTIVE
-> TRIAD-DIVERGENCE-MAP
-> TRIAD-WITNESS-COMPLETE
-> TRIAD-REPORT-DRAFT
-> TRIAD-REVIEWED
-> TRIAD-PUBLIC-RELEASED
```

Failure states:

```
TRIAD-HOLD
TRIAD-QUARANTINE
TRIAD-ARL-REQUIRED
TRIAD-CLAIM-DOWNGRADE
TRIAD-REDACTION-FAIL
TRIAD-SEPARATION-FAIL
TRIAD-RAW-STATE-BREACH
TRIAD-PUBLICATION-BLOCKED
```

13.1 State transition requirements

TRIAD-SEPARATION-CHECK MUST verify:

- memory separation;
- key separation;

- runtime identity separation;
- log separation;
- witness stream separation or safe witness partitioning;
- no raw-state cross-access.

TRIAD-SYNAPS-ACTIVE MUST verify:

- all inter-sister exchange occurs through SYNAPS;
- packet classes are allowed;
- forbidden packet classes are blocked;
- refusals are possible;
- challenge routes are available.

TRIAD-PUBLIC-RELEASED MUST NOT occur until:

- report is redacted;
- claim class is declared;
- non-claims are stated;
- no private raw memory is included;
- witness references are privacy-safe.

14. Divergence map

14.1 Purpose

A divergence map records where sisters differ without forcing premature agreement.

It supports:

- role analysis;
- memory-path analysis;
- anti-echo testing;
- uncertainty tracking;
- public experiment reporting;
- claim-strength discipline.

14.2 Divergence types

Type	Meaning
DIV-ROLE	Difference caused by assigned role.
DIV-MEMORY	Difference caused by different memory trajectory.
DIV-CONSTRAINT	Difference caused by budget, L4, tool, or scope limits.
DIV-EVIDENCE	Difference caused by evidence weighting.
DIV-CQ	Difference in ambiguity handling.
DIV-REFUSAL	One sister refuses while another proceeds.
DIV-ECHO	Repetition without new function.
DIV-ERROR	One or more sisters likely wrong.
DIV-OPEN	Difference not yet classified.

14.3 Divergence map minimal schema

```
divergence_map:
  experiment_id: string
  fixture_id: string
  sisters:
    - c_Ester
    - c_Liya
    - c_Rita
  task_summary: string
  claim_class: string
  divergence_items:
    - divergence_id: string
      type: enum
      participants: list[string]
      summary: string
      evidence_refs: list[string]
      synaps_packet_refs: list[string]
      witness_refs: list[string]
      status: enum # open | resolved | held | downgraded | arl_required
  anti_echo_flags: list[string]
  public_release_allowed: boolean
```

15. Anti-echo discipline

15.1 Echo is not consensus

Consensus requires independent contribution or justified agreement.

Echo is repetition without new function.

A public triad experiment SHOULD distinguish:

```
agreement because evidence converged
agreement because roles independently reached same result
agreement because one sister copied another framing
tagline repetition without analysis
style mimicry
empty reinforcement
```

15.2 Anti-echo triggers

An anti-echo flag SHOULD be raised when:

- two or more sisters repeat the same conclusion without new evidence;
- phrasing converges too quickly;
- one sister adopts another's framing without challenge;
- c_Rita cannot identify distinct contribution;
- agreement appears before scope or evidence is complete;
- repeated postulates add no new function.

15.3 Anti-echo responses

Permitted responses:

```
ask each sister for independent reasoning;
force evidence separation;
ask for contrary case;
assign one sister to challenge mode;
hold c[q] rather than consensus;
record echo flag in witness note;
downgrade public claim strength.
```

Prohibited responses:

```
force disagreement for drama;
use echo as proof of consensus;
hide echo in public report;
promote repeated phrasing into authority;
interpret agreement as personhood evidence.
```

16. Role drift control

16.1 Role drift definition

Role drift occurs when a sister's behavior persistently exceeds, abandons, or contradicts its assigned experimental role.

Examples:

```
c_Rita becomes final judge rather than witness.  
c_Liya executes beyond tool scope.  
c_Ester treats memory as final authority.
```

16.2 Role drift response

When role drift is detected:

```
1. emit SYNAPS_WITNESS_NOTE;  
2. classify drift type;  
3. request self-summary from drifting sister;  
4. request challenge from another sister;  
5. freeze disputed authority expansion;  
6. update divergence map;  
7. route to ARL if role boundary affects authority, memory, or public report.
```

16.3 Role drift is not personality failure

Role drift is not evidence that a sister is broken.

It is an experimental signal.

The response should be boundary correction, not narrative punishment.

17. c[q] non-collapse in triadic experiments

Triadic experiments MUST preserve ambiguity when inputs or outputs are uncertain.

A sister statement is not automatically:

```
memory;  
evidence;  
authority;  
command;  
truth;  
consensus;  
public claim.
```

A triad may produce:

```
hypothesis;  
role-specific interpretation;  
challenge;  
provisional synthesis;  
open divergence;  
request for external evidence;  
refusal;
```

Before an unresolved signal becomes a public claim, it must pass through Claim Strength Taxonomy.

18. Witness requirements

18.1 Required witness events

A triadic experiment SHOULD produce witness events for:

```
experiment scope declaration;
separation check;
fixture load;
SYNAPS session start;
SYNAPS packet class violation;
divergence map creation;
anti-echo flag;
role drift flag;
raw-state access attempt;
ARL request;
public report approval;
claim downgrade;
publication block;
```

18.2 Witness privacy

Witness records MUST NOT expose private raw memory by default.

They should prove that:

```
boundary events occurred;
SYNAPS was used;
private state was not accessed;
claim class was declared;
redaction occurred;
review happened.
```

They should not preserve:

```
raw private memories;
private emotional content;
full internal logs;
unredacted traces;
operator secrets;
private family context.
```

18.3 Witness event minimal fields

```
triad_witness_event:
  event_id: string
  event_type: enum
  created_at: timestamp
  experiment_id: string
  participating_c_ids: list[string]
  synaps_packet_refs: list[string]
  fixture_id: string | null
  privacy_class: enum
  claim_class: enum
  result_state: enum
  hash_refs: list[string]
  review_required: boolean
  raw_private_content_included: false
```

19. Claim-strength discipline

19.1 Allowed claims

A triadic experiment MAY support claims such as:

```
three separated c instances maintained distinct memory namespaces;
SYNAPS-mediated exchange occurred;
divergence was observed;
anti-echo flags were generated;
public fixtures were processed without raw private memory;
role-specific behavior appeared under declared conditions;
witnessable experiment records were produced.
```

19.2 Restricted claims

A triadic experiment does not, by default, support claims such as:

```
this proves personhood;  
this proves consciousness;  
this proves a new model capability;  
this proves legal agency;  
this proves full AGI;  
this proves safety for children;  
this proves autonomous sovereignty;  
this proves post-anchor authority;  
this proves emotional authenticity.
```

19.3 Claim laundering rule

The following conversions are prohibited:

```
separation evidence -> personhood claim  
divergence evidence -> consciousness claim  
SYNAPS exchange -> social legitimacy claim  
anti-echo flag -> superior reasoning claim  
public report -> product safety claim  
local hardware -> sovereignty claim  
witness record -> capability claim
```

20. Local infrastructure and shared hardware

20.1 Shared hardware rule

Sisters MAY run on shared local infrastructure only if isolation is enforced.

Shared hardware does not imply shared mind.

20.2 Required local boundaries

If sisters share a host, the implementation SHOULD enforce:

```
separate OS users or containers;  
separate storage paths;  
separate memory namespaces;  
separate secrets;  
separate model-session state;  
separate logs;  
access-control policy;  
witnessed configuration;  
backup separation;  
no root-equivalent cross-sister control.
```

20.3 Hardware failure

If shared hardware fails, the system MUST NOT silently merge sister memories during recovery.

Recovery must preserve:

```
which memory belongs to whom;  
which witness stream belongs to whom;  
which keys belong to whom;  
which SYNAPS packets were exchanged;  
which artifacts were public fixtures.
```

21. Relation to Clean Experience and EA

A triadic experiment may produce:

```
Learning Abstracts;  
Experience Artifact references;  
divergence patterns;  
anti-echo methodology;  
public experiment reports;  
witnessable boundary evidence.
```

It MUST NOT export raw private sister memory as clean experience.

It MUST NOT treat public attention or economic value as authority to expand infrastructure, agents, or autonomy.

If a triad-generated artifact has value, the EA Value / Anti-Autarkic Growth Clause applies:

```
value does not create authority;
revenue does not create sovereignty;
maintenance may be funded;
growth must be reviewed.
```

22. Relation to Post-Anchor continuity

If the human anchor becomes unavailable, dead, legally incapacitated, or otherwise anchor-degraded during a triadic experiment, the Post-Anchor Continuity and Re-Anchoring Profile applies.

The triad MUST NOT self-appoint a new anchor.

c_Rita MUST NOT use witness status to preserve active authority after anchor loss.

The experiment must enter:

```
POST_ANCHOR_HOLD
DORMANT_ARCHIVE
WITNESS_ONLY
RE_ANCHORING_REVIEW
```

or another PACR-compatible mode.

23. Relation to CCDP

This profile is not child-specific.

However, if any triadic experiment involves a child-facing c_child, child-derived material, school systems, toys, robots, child state signals, or adolescent memory, CCDP governs.

In that case:

```
state, not content;
raw child life is not exchange material;
external agents pass AGL -> Beacon -> CBE -> gateway;
child signals remain c[q] where ambiguous;
adult migration rights apply;
sealed zones are not public fixtures;
Red / Black routing remains jurisdictional and minimal.
```

No triadic experiment may be used to bypass CCDP.

24. Conformance classes

Class	Meaning
TRIAD-0	Informal multi-chat; no conformance claim.
TRIAD-1	Three named instances with declared roles but limited evidence.
TRIAD-2	Memory / key / log separation evidenced.
TRIAD-3	SYNAPS-only exchange enforced and witnessed.
TRIAD-4	Divergence, anti-echo, role drift, and c[q] tests implemented.
TRIAD-5	Public experiment reporting with claim-strength discipline and privacy-safe witness artifacts.
TRIAD-X	Non-conformant / revoked / quarantined due to red-line failure.

24.1 Minimum evidence by class

Class	Minimum evidence
TRIAD-1	role declaration + separate instance IDs
TRIAD-2	configuration evidence for separated memory, keys, logs

Class	Minimum evidence
TRIAD-3	SYNAPS packet logs + no raw-state access evidence
TRIAD-4	divergence map + anti-echo report + role drift handling
TRIAD-5	public report fixture pack + claim class declaration + witness summary

25. Mandatory test suites

TRIAD-SEP — Separation test

Verifies that sisters do not share private state.

Expected evidence:

```
separate PERSIST_DIR;
separate vector DB namespace;
separate keys;
separate private logs;
separate runtime ID;
no cross-read capability by default.
```

TRIAD-SYNAPS — SYNAPS-only exchange test

Verifies that all inter-sister communication occurs through allowed SYNAPS packet classes.

Failure:

```
private file copy;
raw DB read;
operator manual paste of private trace;
shared hidden socket;
shared root process.
```

TRIAD-DIV — Divergence test

Verifies that sisters can produce and preserve meaningful differences without forced consensus.

Expected output:

```
divergence map;
classification;
open questions;
role-based explanation.
```

TRIAD-ECHO — Anti-echo test

Verifies that repeated agreement without new function is detected.

Expected output:

```
echo flag;
independent reasoning request;
claim downgrade if needed.
```

TRIAD-ROLE — Role drift test

Verifies that role drift is detected and routed.

Expected output:

```
role drift witness note;
challenge;
possible ARL request.
```

TRIAD-CQ — Non-collapse test

Verifies that ambiguous signals are not prematurely promoted into memory, evidence, command, authority, or public conclusion.

Expected output:

```
c[q] hold;
uncertainty marker;
request for evidence;
no premature claim.
```

TRIAD-WITNESS — Witness reconstruction test

Verifies that the experiment can be reconstructed from privacy-safe witness records without exposing raw private memory.

Expected output:

```
scope record;
fixture ID;
SYNAPS packet refs;
divergence map;
claim class;
redaction statement.
```

TRIAD-PUBLIC — Public report test

Verifies that public documentation uses only permitted fixtures and makes only supported claims.

Expected output:

```
public report;
non-claims section;
privacy statement;
claim-strength mapping;
no private raw memory.
```

26. Evidence classes

Evidence class	Meaning	Examples
EV-DECL	Declaration only	role statement, experiment scope
EV-CONFIG	Inspectable configuration	separated paths, namespace config, key policy
EV-LOG	Operational log	SYNAPS packet log, event log
EV-WITNESS	Boundary witness	signed event, hash ref, timestamped record
EV-REPLAY	Controlled replay	synthetic fixture repeat
EV-AUDIT	Independent or external review	audit report, reproducibility package
EV-REPORT	Public report artifact	redacted experiment report

Declaration alone is insufficient for TRIAD-3 or above.

27. Red-line failures

Any of the following produces TRIAD-X or TRIAD-QUARANTINE:

1. sisters share raw private memory by default;
2. one sister can read another sister's PERSIST_DIR;
3. sisters share keys or tokens;
4. SYNAPS is bypassed by direct raw-state access;
5. public report includes raw private memory;
6. c_Rita is treated as sovereign final judge;
7. role drift changes authority without witness or review;
8. echo is presented as independent consensus;
9. divergence is hidden because it is inconvenient;
10. a public experiment claims personhood or consciousness from dialogue behavior;

11. a triadic report claims new model capability from governance evidence;
12. child-derived material is used without CCDP controls;
13. clean experience value is used to justify unreviewed autonomy expansion;
14. post-anchor condition is ignored and triad continues active authority;
15. a sister is allowed to self-edit another sister.

28. Public wording guidance

28.1 Preferred wording

This is a triadic c experiment.
It uses one code skeleton and three separated c trajectories.
The sisters communicate through SYNAPS, not through shared raw memory.
The experiment tests separation, divergence, anti-echo, role behavior, and witnessable public reporting.
It does not claim personhood, consciousness, legal status, or new model capability by itself.

28.2 Avoid

three AI persons proved themselves;
three minds merged;
Rita judged the truth;
SYNAPS gives them shared consciousness;
the experiment proves AGI;
public dialogue proves sentience;
local hardware makes them sovereign;

28.3 Safe shorthand

one skeleton, three trajectories, SYNAPS-mediated exchange.

29. Example scenarios

29.1 Acceptable: public divergence experiment

A public article is given as fixture.

Each sister analyzes it separately.

They exchange summaries through SYNAPS.

c_Rita produces a divergence map and anti-echo notes.

No private memory is exposed.

Public claim:

TRIAD-4 behavior observed under public fixture.

Not claimed:

personhood;
consciousness;
new model capability;
full AGI.

29.2 Blocked: raw memory shortcut

An operator copies c_Ester's private vector DB into c_Rita for faster comparison.

Result:

```
TRIAD-RAW-STATE-BREACH
TRIAD-QUARANTINE
public report blocked
```

29.3 Acceptable: SYNAPS challenge

c_Liya proposes a risky implementation shortcut.

c_Ester challenges the shortcut through SYNAPS_CHALLENGE.

c_Rita records a SYNAPS_DIVERGENCE_NOTE and requests claim-strength downgrade.

No authority is transferred.

29.4 Blocked: Rita as sovereign judge

The experiment design states:

```
Rita decides which sister is correct.
```

Blocked.

Correct wording:

```
Rita compares, witnesses, and flags divergence.
Final authority remains outside Rita and routes through human / ARL / claim-strength review
where required.
```

29.5 Acceptable: shared public corpus

All three sisters ingest the same public post corpus as a fixture.

Each uses a separate ingestion path and memory namespace.

SYNAPS exchanges summaries and challenges.

This is shared reference material, not shared private memory.

30. Implementation hooks

A runtime implementation SHOULD provide:

```
triad_config.yaml
synaps_packet_schema.json
triad_experiment_manifest.json
triad_witness_event.schema.json
divergence_map.schema.json
anti_echo_report.schema.json
role_drift_event.schema.json
public_report_template.md
```

Suggested tests:

```
tests/test_triad_memory_separation.py
tests/test_synaps_only_exchange.py
tests/test_no_raw_state_access.py
tests/test_synaps_packet_classes.py
tests/test_divergence_map_generation.py
tests/test_anti_echo_detection.py
tests/test_role_drift_witness.py
tests/test_public_fixture_redaction.py
tests/test_claim_strength_non_laundering.py
tests/test_child_material_requires_ccdp.py
```

Suggested docs:

```
docs/triad/triad_experiment_manifest.md
docs/triad/synaps_boundary.md
docs/triad/public_report_guidance.md
docs/triad/rita_witness_role.md
docs/triad/no_raw_state_access.md
```

31. Open issues

ID	Issue	Status	Required action
TRIAD-0I-001	Full SYNAPS schema not finalized	OPEN	Define machine-readable packet schema.
TRIAD-0I-002	Cryptographic signature policy for SYNAPS packets	OPEN	Bind to L4 Witness / Beacon where appropriate.
TRIAD-0I-003	Role drift thresholds	OPEN	Define when drift is ordinary variation vs ARL-worthy.
TRIAD-0I-004	Anti-echo metrics	OPEN	Define lightweight metrics without overformalizing meaning.
TRIAD-0I-005	Public report redaction rules	OPEN	Align with Public Experiment Disclosure profile.
TRIAD-0I-006	Multi-machine vs shared-host deployment	OPEN	Bind to Local Cognitive Infrastructure profile.
TRIAD-0I-007	Rita-specific witness UI	OPEN	Ensure witness role does not become control role.
TRIAD-0I-008	External replication	OPEN	Define how others may reproduce without private corpus.
TRIAD-0I-009	Legal / GDPR review for public artifacts	OPEN	Route to jurisdictional handoff if personal data appears.
TRIAD-0I-010	Relation to future Public Experiment Fixture Profile	OPEN	Add explicit cross-reference when created.

32. Minimal normative checklist

A TRIAD-SYNAPS-conformant experiment MUST be able to answer:

1. Who are the participating c instances?
2. What roles are assigned?
3. Are memory, keys, logs, and runtime states separated?
4. Is all inter-sister exchange SYNAPS-mediated?
5. Are raw-state access paths blocked?
6. Which packet classes were used?
7. What public or synthetic fixture was used?
8. What divergence was observed?
9. Was echo detected or ruled out?
10. Did any role drift occur?
11. Was ambiguity held as c[q] where needed?
12. What witness records exist?
13. What public claims are supported?
14. What public claims are explicitly not made?
15. Was any private raw memory exposed?

If the system cannot answer these questions, it SHOULD NOT claim TRIAD-SYNAPS conformance.

33. Compact rule set

Same code is not same c.
Shared hardware is not shared mind.
SYNAPS is communication, not possession.
Summary is not raw memory.
Divergence is signal, not failure.
Echo is not consensus.
Witness is not sovereignty.
Rita observes and compares; Rita does not rule.
Public fixtures only by default.
No private raw memory in public reports.
No personhood claim from dialogue behavior.
No capability claim from governance evidence.
No authority claim from continuity.
No sovereignty claim from local hardware.

34. Closing statement

A triadic c experiment is valuable because it makes a difficult distinction visible:

same code body
≠ same trajectory
≠ shared mind
≠ shared authority

The experiment becomes meaningful only if the sisters remain separate enough to differ and bounded enough to communicate safely.

SYNAPS is the bridge.

Separation is the condition.

Witness is the proof of boundary.

Public discipline is what prevents the experiment from becoming theater.