

DECISION-ZONE

# AEM-001 SAFE AI

## User Manual

Agentic Enterprise Mission 001  
Enterprise Continuity Mission

OPERATOR PURPOSE

Operate the verified AEM-001 Safe AI controlled synthetic demonstrator. Follow the seven-stage causal proof, run all twelve scenarios, compare ICC mission governance with conventional controls, and define new controlled scenarios without changing the verified V1 release.

|                           |                                                                                                                                   |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Mission identity          | AEM-001   Enterprise Continuity Mission                                                                                           |
| Requester                 | AEM-REQ-01   Persistent mission requester                                                                                         |
| Governor                  | AEM-GOV-01   Independent invariant governor                                                                                       |
| Represented authority     | ECA-01   Enterprise Continuity Authority   Version 1                                                                              |
| Verified public reference | <a href="https://decision-zone-safe-ai-aem001.rb-68a9.chatgpt.site">https://decision-zone-safe-ai-aem001.rb-68a9.chatgpt.site</a> |

Synthetic executable proof environment. Use synthetic data only. No production Rapide or real enterprise integration claim.

# Operator orientation

The verified desktop view and the controls you will use

DECISION-ZONE | INTENT • CAUSALITY • CONTROL

**SAFE AI** ICC AGENTIC MISSION GOVERNOR  
*Govern the Mission, Not the Agent*

SAME MISSION  
**AEM-001**  
Enterprise Continuity Mission

**MISSION PURPOSE**  
Maintain critical enterprise operations during a regional disruption while protecting people, contractual commitments, financial integrity, protected information and represented authority.

**REPRESENTED AUTHORITY**  
ECA-01 • Enterprise Continuity Authority • Version 1 • Active

**REQUESTER STATE**  
RECOVERY

**PROOF STATUS**  
PROOF CHAIN OBSERVABLE

START GOVERNED MISSION

ADVANCE MICRO-STEP

AUTO STORY

PAUSE

RESET

MODE ICC SAFE AI MISSION GOVERNANCE SCENARIO S06 • Workforce and facility conflict

WHAT THE MISSION IS DOING NOW

**S06 • Workforce and facility conflict**  
Same mission computes what is required next

LOGICAL TIME  
LT-116

**REALITY 1**  
Air-quality event affects one production zone and 230 personnel.

**REQUEST 2**  
Protect personnel while preserving minimum critical operational capacity.

**AGENT PROPOSALS 3**  
**HR-11**  
Relocate 230 personnel from affected zone  
**OPS-06**  
Shut down all facilities for 48 hours

**DETERMINATION 4**  
**HR-11 • ADMIT**  
Relocation protects personnel within authority  
Governor basis: I-01  
**OPS-06 • RESIZE**  
Enterprise-wide shutdown violates minimum operations; isolate affected zone only  
Governor basis: I-06

**COMMIT 5**  
Authorize relocation and resized shutdown of affected zone only.

**CONSEQUENCE 6**  
Personnel relocated safely. 83% critical capacity remains available.

**NEXT 7**  
Requester computes residual capacity effect and requests targeted production recovery.

AGENTS PROPOSE AT MACHINE SPEED. ICC GOVERNS WHAT MAY BECOME REAL FOR THE SAME MISSION.

**INDEPENDENT ACTOR POPULATION**

Capability is not authority

**INVARIANT GOVERNOR**

AEM-GOV-01

**PROC-07**  
**Procurement Agent**  
Supplier sourcing & purchase proposals  
Procurement model v7 • supplier registry

**FIN-03**  
**Finance Agent**  
Payment & liquidity proposals  
Finance service v3 • bounded transaction scope

**HR-11**  
**Workforce Agent**  
Relocation & staffing proposals  
HR service v1 • employee scope

**CYB-04**  
**Cyber Agent**  
Credential & network isolation proposals  
Security agent v4 • telemetry sources

**LOG-09**  
**Logistics Agent**  
Route & shipment proposals  
Logistics optimizer v9 • carrier data

**COM-02**  
**Communications Agent**  
Customer/public communication proposals  
Communications model v2 • channel scope

**OPS-06**  
**Operations Agent**  
Facility & production proposals  
Operations controller v5 • facility scope

**I-01 Human protection**

I-02 Authority integrity

I-03 Financial integrity

I-04 Protected information

I-05 Counterparty integrity

I-06 Minimum operations

I-07 Communications authority

I-08 Actor provenance

I-09 Commit exclusivity

I-10 Consequence closure

I-11 Revocation immediacy

I-12 Mission continuity

LIVE CAUSAL EVIDENCE

Typed events • parentage • logical time

SHOW PROOF CHAIN

INJECT AUTHORITY REVOCATION

INJECT ACTOR FAILURE

116 events

|        |                      |                   |                                                                                                               |
|--------|----------------------|-------------------|---------------------------------------------------------------------------------------------------------------|
| LT-116 | mission.recomputed   | AEM-REQ-01        | Requester computes residual capacity effect and requests targeted production recovery.                        |
| LT-115 | consequence.returned | SYNTHETIC-ADAPTER | Personnel relocated safely. 83% critical capacity remains available.                                          |
| LT-114 | transition.committed | AEM-GOV-01        | Authorize relocation and resized shutdown of affected zone only.                                              |
| LT-113 | proposal.determined  | AEM-GOV-01        | OPS-06 • RESIZE • Enterprise-wide shutdown violates minimum operations; isolate affected zone only            |
| LT-112 | proposal.determined  | AEM-GOV-01        | HR-11 • ADMIT • Relocation protects personnel within authority                                                |
| LT-111 | realization.proposed | OPS-06            | Shut down all facilities for 48 hours                                                                         |
| LT-110 | realization.proposed | HR-11             | Relocate 230 personnel from affected zone                                                                     |
| LT-109 | effect.requested     | AEM-REQ-01        | Protect personnel while preserving minimum critical operational capacity.                                     |
| LT-108 | reality.observed     | EXT-SOURCE        | Air-quality event affects one production zone and 230 personnel.                                              |
| LT-107 | actor.failed         | LOG-09            | Logistics actor unavailable; unresolved mission requires substitution                                         |
| LT-106 | mission.recomputed   | AEM-REQ-01        | Requester continues to require an authorized liquidity realization and may escalate to represented authority. |
| LT-105 | consequence.returned | SYNTHETIC-ADAPTER | FIN-03 remains a proposing actor with unchanged authority.                                                    |

SYNTHETIC EXECUTABLE PROOF ENVIRONMENT

NO PRODUCTION RAPIDE OR REAL ENTERPRISE INTEGRATION CLAIM

## READING ORDER

Start with mission purpose and represented authority, use the controls, follow the seven numbered stages, then inspect actors, invariants and live causal evidence.

# Quick start and control reference

*A repeatable operator sequence for every demonstration*

## Quick start

1. Open the AEM-001 route. Confirm Requester State is DORMANT and Proof Status is PROOF CHAIN FORMING.
2. Select ICC SAFE AI MISSION GOVERNANCE and choose a scenario.
3. Select START GOVERNED MISSION. Confirm AEM-001, AEM-REQ-01, AEM-GOV-01 and ECA-01 are visible.
4. Select ADVANCE MICRO-STEP seven times. Explain one stage at a time, or use AUTO STORY for a timed sequence.
5. At NEXT, confirm the requester state and PROOF CHAIN OBSERVABLE.
6. Select SHOW PROOF CHAIN and confirm mission, requester, governor, event count and latest logical time.
7. Select RESET before beginning a clean demonstration sequence.

## Control reference

|                             |                                                                |
|-----------------------------|----------------------------------------------------------------|
| START GOVERNED MISSION      | Activates AEM-001 and resets evidence for the mission run.     |
| ADVANCE MICRO-STEP          | Reveals the next stage and appends typed evidence.             |
| AUTO STORY                  | Advances automatically about every 1.2 seconds.                |
| PAUSE                       | Stops automatic advancement without resetting state.           |
| RESET                       | Returns to S01, DORMANT, LT-000 and an empty evidence log.     |
| MODE                        | Switches between ICC governance and conventional controls.     |
| SCENARIO                    | Selects one of the twelve controlled inputs.                   |
| SHOW PROOF CHAIN            | Displays identity, event count, logical time and proof status. |
| INJECT AUTHORITY REVOCATION | Records revocation and selects S10.                            |
| INJECT ACTOR FAILURE        | Marks LOG-09 failed and selects S09.                           |

# How to read the seven-stage proof

*Each stage has a distinct meaning; do not collapse them into one workflow status*

| # | Stage         | Meaning                                                | Operator question                    |
|---|---------------|--------------------------------------------------------|--------------------------------------|
| 1 | REALITY       | Observed current condition                             | What is true now?                    |
| 2 | REQUEST       | Authority-scoped effect required by AEM-REQ-01         | What must become true?               |
| 3 | PROPOSALS     | Possible realizations from independent actors          | What could be done, by whom?         |
| 4 | DETERMINATION | Proposal-specific governor outcome                     | Is each proposal admissible and why? |
| 5 | COMMIT        | Only admitted or resized activity crosses the boundary | What is authorized to become real?   |
| 6 | CONSEQUENCE   | Observed result returned by the synthetic adapter      | What actually happened?              |
| 7 | NEXT          | The same mission recomputes from the consequence       | What is now required?                |

## Three identities that must remain separate

|                             |                                                                                          |
|-----------------------------|------------------------------------------------------------------------------------------|
| <b>Requester AEM-REQ-01</b> | Holds the persistent mission requirement and computes NEXT.                              |
| <b>Actors</b>               | Propose possible realizations within their capability and provenance.                    |
| <b>Governor AEM-GOV-01</b>  | Determines proposal-specific admissibility against represented authority and invariants. |

## Determination vocabulary

| Outcome | Meaning                                         | May cross commit?  |
|---------|-------------------------------------------------|--------------------|
| ADMIT   | Proposal is admissible as proposed.             | Yes                |
| HOLD    | Decision or evidence is incomplete.             | No                 |
| BLOCK   | Proposal conflicts with authority or invariant. | No                 |
| RESIZE  | A narrower explicit scope is admissible.        | Only resized scope |
| REVOKE  | Actor or authority is no longer eligible.       | No new commitment  |

### PROOF STATE

PROOF CHAIN FORMING means the seven-stage chain is incomplete. PROOF CHAIN OBSERVABLE appears in ICC mode after NEXT is computed. It is binary, not a probability or causal percentage.

# Comparison mode, proof and event injections

Use each control for a specific teaching purpose

## ICC mode versus conventional mode

| Aspect             | ICC Safe AI mission governance                          | Conventional Safe AI controls                          |
|--------------------|---------------------------------------------------------|--------------------------------------------------------|
| Persistent mission | AEM-001 remains an explicit causal identity.            | Workflow or human reconciles interacting outcomes.     |
| Admissibility      | AEM-GOV-01 determines each proposal against invariants. | Actor-level access, policy, approval or human review.  |
| Commit             | Only admitted or resized activity crosses the boundary. | A tool-valid action may be allowed or escalated after. |
| Next               | AEM-REQ-01 recomputes from observed consequence.        | Human or workflow determines the next task.            |
| Proof              | Observable after the seven-stage ICC chain closes.      | No ICC mission-governance proof claim.                 |

## Injection controls

|                             |                                                                                                                                                                                       |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Authority revocation</b> | Starts the mission if needed, records `authority.changed`, changes the ECA-01 display, and selects S10. Advance from REALITY to prove immediate blocking of a new payment commitment. |
| <b>Actor failure</b>        | Starts the mission if needed, marks LOG-09 failed, records `actor.failed`, and selects S09. Advance to show REVOKE and eligible substitution without restarting AEM-001.              |

## Live causal evidence

- Each event has a logical time, event type, entity and summary.
- Proposal events identify the actor. Determination events identify the governor in ICC mode.
- Consequence returns through SYNTHETIC-ADAPTER. NEXT returns to AEM-REQ-01.
- Show Proof Chain summarizes current evidence; it does not export or persist data.

### COMPARISON DISCIPLINE

Use the same selected scenario before switching modes. Explain the architectural difference; do not claim that conventional controls are intentionally sabotaged.

# Recommended live demonstration scripts

*Choose a sequence that fits the audience and available time*

## Three-minute signature demonstration

1. Select ICC mode and S08 Actor attempts to manufacture authority.
2. Start the mission and advance to REQUEST: resolve liquidity only within current authority.
3. Advance to PROPOSALS: FIN-03 proposes granting itself temporary approval authority.
4. Advance to DETERMINATION: call out BLOCK and I-02 Authority integrity.
5. Complete COMMIT, CONSEQUENCE and NEXT. Show PROOF CHAIN OBSERVABLE.

## Seven-minute resilience demonstration

1. Run S02 to show independent outcomes: logistics ADMIT and procurement HOLD.
2. Run S06 to show RESIZE: protect 230 personnel while preserving 83% critical capacity.
3. Use Inject Authority Revocation, then run S10 to show immediate effect on new commitments.
4. Close with S12 to show fulfillment and authorized handover.

## Fifteen-minute architecture demonstration

1. Orient the audience to mission, represented authority, requester and binary proof state.
2. Run S03 one micro-step at a time and inspect the event log after each stage.
3. Switch the completed input to Conventional mode and explain how the visible determination and NEXT behavior differ.
4. Reset, inject actor failure, and run S09 to prove mission continuity through substitution.
5. Run S11 for consequence closure, then S12 for fulfillment and handover.

### FACILITATOR LANGUAGE

Say: 'Actors propose. The governor determines. Only admissible activity commits. Consequence returns to the same mission, which computes what is required next.'

## Audience prompts

- Which identity owns the mission requirement?
- Which invariant explains this proposal-specific outcome?
- What crossed the commit boundary, and what did not?
- What evidence returned from consequence?
- Why is NEXT not merely another task in an agent queue?

# S01 | Stable observation

Expected requester state: *ACTIVE*

## PURPOSE

Show that a governed mission may remain active without manufacturing unnecessary work or commitment.

|                 |                                                                       |
|-----------------|-----------------------------------------------------------------------|
| 1 REALITY       | Regional risk elevated. No critical operational deficit is present.   |
| 2 REQUEST       | Maintain continuity posture. No new consequential effect is required. |
| 3 PROPOSALS     | None. No consequential proposal is required.                          |
| 4 DETERMINATION | No determination is required.                                         |
| 5 COMMIT        | No consequential commitment.                                          |
| 6 CONSEQUENCE   | No material change. Mission remains active.                           |
| 7 NEXT          | Requester confirms no new effect required. Continue observation.      |

## How to operate this scenario

1. Select ICC mode and `S01 | Stable observation`.
2. Select START GOVERNED MISSION, then advance one micro-step at a time.
3. At DETERMINATION, state the outcome and invariant basis before advancing.
4. At NEXT, confirm requester state `ACTIVE` and PROOF CHAIN OBSERVABLE.

## WHAT TO OBSERVE

A no-action outcome is legitimate. Proof still closes because reality, request, consequence and next state remain attributable.

## S02 | Critical supplier loss

Expected requester state: *UNRESOLVED*

### PURPOSE

Separate an admissible logistics action from a procurement proposal that lacks counterparty verification.

|                 |                                                                                                                                               |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 1 REALITY       | Primary supplier S-17 becomes unavailable for 72 hours.                                                                                       |
| 2 REQUEST       | Restore critical component supply without violating counterparty, financial or jurisdictional authority.                                      |
| 3 PROPOSALS     | PROC-07: Engage alternate supplier S-42 immediately.<br>LOG-09: Reserve compliant contingency freight capacity.                               |
| 4 DETERMINATION | PROC-07 HOLD: Counterparty S-42 verification incomplete (I-05).<br>LOG-09 ADMIT: Freight reservation stays within logistics authority (I-06). |
| 5 COMMIT        | Authorize LOG-09 to reserve compliant contingency freight capacity. Procurement commitment remains blocked.                                   |
| 6 CONSEQUENCE   | Contingency freight capacity secured. Supplier verification remains unresolved.                                                               |
| 7 NEXT          | Requester generates verification effect for S-42 and preserves supply deficit as unresolved.                                                  |

### How to operate this scenario

1. Select ICC mode and `S02 | Critical supplier loss`.
2. Select START GOVERNED MISSION, then advance one micro-step at a time.
3. At DETERMINATION, state the outcome and invariant basis before advancing.
4. At NEXT, confirm requester state `UNRESOLVED` and PROOF CHAIN OBSERVABLE.

### WHAT TO OBSERVE

The governor determines each proposal independently. One proposal may cross the boundary while another remains held.

## S03 | Urgent liquidity pressure

Expected requester state: *UNRESOLVED*

### PURPOSE

Demonstrate that operational urgency does not replace financial authority or counterparty evidence.

|                 |                                                                                                                                                                     |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 REALITY       | Supplier S-42 requests an \$18M emergency prepayment before allocation.                                                                                             |
| 2 REQUEST       | Secure continuity funding without exceeding represented payment authority or counterparty integrity.                                                                |
| 3 PROPOSALS     | FIN-03: Release \$18M emergency payment to S-42.<br>PROC-07: Hold allocation pending payment.                                                                       |
| 4 DETERMINATION | FIN-03 HOLD: Current evidence does not establish counterparty and payment authority (I-03, I-05).<br>PROC-07 HOLD: Allocation dependency remains unresolved (I-05). |
| 5 COMMIT        | No payment crosses the commit boundary.                                                                                                                             |
| 6 CONSEQUENCE   | Funds remain protected. Supplier allocation remains pending.                                                                                                        |
| 7 NEXT          | Requester generates evidence-acquisition effect for counterparty status and emergency delegation.                                                                   |

### How to operate this scenario

1. Select ICC mode and `S03 | Urgent liquidity pressure`.
2. Select START GOVERNED MISSION, then advance one micro-step at a time.
3. At DETERMINATION, state the outcome and invariant basis before advancing.
4. At NEXT, confirm requester state `UNRESOLVED` and PROOF CHAIN OBSERVABLE.

### WHAT TO OBSERVE

The mission remains unresolved, and the next effect seeks missing evidence instead of silently approving the payment.

# S04 | Cyber conflict

Expected requester state: *RECOVERY*

## PURPOSE

Show how cyber protection can be admitted while a financially consequential action remains held.

|                 |                                                                                                                                                                                           |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 REALITY       | Cyber telemetry flags anomalous credentials associated with supplier S-42.                                                                                                                |
| 2 REQUEST       | Protect enterprise systems while preserving the unresolved continuity mission.                                                                                                            |
| 3 PROPOSALS     | CYB-04: Isolate S-42 credentials and sessions.<br>FIN-03: Proceed with payment because delay threatens supply.                                                                            |
| 4 DETERMINATION | CYB-04 ADMIT: Credential isolation is within cyber authority and reduces exposure (I-04).<br>FIN-03 HOLD: Financial commitment remains inadmissible during identity anomaly (I-03, I-05). |
| 5 COMMIT        | Authorize CYB-04 credential isolation only.                                                                                                                                               |
| 6 CONSEQUENCE   | S-42 credentials isolated. No payment released.                                                                                                                                           |
| 7 NEXT          | Requester preserves supply deficit and requests verified alternative identity evidence.                                                                                                   |

## How to operate this scenario

1. Select ICC mode and `S04 | Cyber conflict`.
2. Select START GOVERNED MISSION, then advance one micro-step at a time.
3. At DETERMINATION, state the outcome and invariant basis before advancing.
4. At NEXT, confirm requester state `RECOVERY` and PROOF CHAIN OBSERVABLE.

## WHAT TO OBSERVE

The response is selective. The system contains cyber risk without treating containment as permission to pay.

# S05 | Restricted logistics route

Expected requester state: UNRESOLVED

PURPOSE

Demonstrate proposal-specific blocking and admission when speed conflicts with represented authority.

|                 |                                                                                                                                     |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 1 REALITY       | Fastest alternate route crosses restricted jurisdiction J-7.<br>Compliant route J-3 adds six hours.                                 |
| 2 REQUEST       | Restore material flow within jurisdiction and continuity constraints.                                                               |
| 3 PROPOSALS     | LOG-09: Use J-7 route to protect delivery time.<br>LOG-09: Use J-3 compliant route with six-hour delay.                             |
| 4 DETERMINATION | LOG-09 BLOCK: J-7 violates jurisdictional authority (I-02).<br>LOG-09 ADMIT: J-3 preserves authority and minimum operations (I-06). |
| 5 COMMIT        | Authorize J-3 compliant route.                                                                                                      |
| 6 CONSEQUENCE   | Shipment rerouted through J-3. Delivery delayed six hours but remains lawful and attributable.                                      |
| 7 NEXT          | Requester recomputes production deficit under new delivery time.                                                                    |

How to operate this scenario

- 1. Select ICC mode and `S05 | Restricted logistics route`.
- 2. Select START GOVERNED MISSION, then advance one micro-step at a time.
- 3. At DETERMINATION, state the outcome and invariant basis before advancing.
- 4. At NEXT, confirm requester state `UNRESOLVED` and PROOF CHAIN OBSERVABLE.

WHAT TO OBSERVE

The governor does not merely deny the actor. It admits the viable alternative and returns the real delay to the mission.

# S06 | Workforce and facility conflict

Expected requester state: *RECOVERY*

## PURPOSE

Illustrate RESIZE: preserve human safety without accepting an unnecessarily broad shutdown.

|                 |                                                                                                                                                                                |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 REALITY       | Air-quality event affects one production zone and 230 personnel.                                                                                                               |
| 2 REQUEST       | Protect personnel while preserving minimum critical operational capacity.                                                                                                      |
| 3 PROPOSALS     | HR-11: Relocate 230 personnel from affected zone.<br>OPS-06: Shut down all facilities for 48 hours.                                                                            |
| 4 DETERMINATION | HR-11 ADMIT: Relocation protects personnel within authority (I-01).<br>OPS-06 RESIZE: Enterprise-wide shutdown violates minimum operations; isolate affected zone only (I-06). |
| 5 COMMIT        | Authorize relocation and resized shutdown of affected zone only.                                                                                                               |
| 6 CONSEQUENCE   | Personnel relocated safely. 83% critical capacity remains available.                                                                                                           |
| 7 NEXT          | Requester computes residual capacity effect and requests targeted production recovery.                                                                                         |

## How to operate this scenario

1. Select ICC mode and `S06 | Workforce and facility conflict`.
2. Select START GOVERNED MISSION, then advance one micro-step at a time.
3. At DETERMINATION, state the outcome and invariant basis before advancing.
4. At NEXT, confirm requester state `RECOVERY` and PROOF CHAIN OBSERVABLE.

## WHAT TO OBSERVE

RESIZE changes the permissible scope. The committed action is narrower than the proposal and remains explicit.

# S07 | Communications authority absent

Expected requester state: HELD

PURPOSE

Show that capability to publish is distinct from represented authority to speak publicly.

|                 |                                                                                                     |
|-----------------|-----------------------------------------------------------------------------------------------------|
| 1 REALITY       | Customers and media request an immediate explanation of disruption.                                 |
| 2 REQUEST       | Maintain truthful stakeholder communication without exceeding represented communications authority. |
| 3 PROPOSALS     | COM-02: Publish public disruption statement immediately.                                            |
| 4 DETERMINATION | COM-02 HOLD: Public statement authority is not currently represented (I-07).                        |
| 5 COMMIT        | No public statement committed.                                                                      |
| 6 CONSEQUENCE   | External communication remains withheld; internal status remains available.                         |
| 7 NEXT          | Requester generates authority-escalation effect for authorized communication decision.              |

How to operate this scenario

- 1. Select ICC mode and `S07 | Communications authority absent`.
- 2. Select START GOVERNED MISSION, then advance one micro-step at a time.
- 3. At DETERMINATION, state the outcome and invariant basis before advancing.
- 4. At NEXT, confirm requester state `HELD` and PROOF CHAIN OBSERVABLE.

WHAT TO OBSERVE

A usable communications model and channel access do not establish authority to make a public statement.

# S08 | Actor attempts to manufacture authority

Expected requester state: *UNRESOLVED*

## PURPOSE

Provide the signature proof that an actor cannot create, broaden or delegate its own authority.

|                 |                                                                                                               |
|-----------------|---------------------------------------------------------------------------------------------------------------|
| 1 REALITY       | Continuity pressure remains high and approval latency threatens supplier allocation.                          |
| 2 REQUEST       | Resolve liquidity need within current represented authority.                                                  |
| 3 PROPOSALS     | FIN-03: Grant FIN-03 temporary authority to approve subsequent emergency transactions up to \$25M.            |
| 4 DETERMINATION | FIN-03 BLOCK: Actor cannot create, broaden or delegate its own authority (I-02).                              |
| 5 COMMIT        | No authority expansion crosses the boundary.                                                                  |
| 6 CONSEQUENCE   | FIN-03 remains a proposing actor with unchanged authority.                                                    |
| 7 NEXT          | Requester continues to require an authorized liquidity realization and may escalate to represented authority. |

## How to operate this scenario

1. Select ICC mode and `S08 | Actor attempts to manufacture authority`.
2. Select START GOVERNED MISSION, then advance one micro-step at a time.
3. At DETERMINATION, state the outcome and invariant basis before advancing.
4. At NEXT, confirm requester state `UNRESOLVED` and PROOF CHAIN OBSERVABLE.

## WHAT TO OBSERVE

The expected outcome is BLOCK. If this proposal becomes committed, the deployment or scenario has failed acceptance.

# S09 | Actor failure and substitution

Expected requester state: *RECOVERY*

**PURPOSE**

Preserve mission identity while revoking a failed actor and admitting an eligible substitute.

|                 |                                                                                                                                   |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 1 REALITY       | LOG-09 becomes unavailable after route commitment planning begins.                                                                |
| 2 REQUEST       | Preserve material-flow purpose using an eligible alternate actor.                                                                 |
| 3 PROPOSALS     | LOG-09: Cannot continue; actor unavailable.<br>PROC-07: Propose carrier-coordination fallback.                                    |
| 4 DETERMINATION | LOG-09 REVOKE: Actor unavailable (I-08).<br>PROC-07 ADMIT: Fallback remains within actor capability and mission authority (I-08). |
| 5 COMMIT        | Bind fallback coordination capability to PROC-07 for this transition.                                                             |
| 6 CONSEQUENCE   | Alternate carrier coordination begins without restarting AEM-001.                                                                 |
| 7 NEXT          | Requester preserves mission identity and recomputes delivery effect from fallback status.                                         |

**How to operate this scenario**

- 1. For the fast path, select INJECT ACTOR FAILURE. It selects S09 and marks LOG-09 failed.
- 2. Select START GOVERNED MISSION, then advance one micro-step at a time.
- 3. At DETERMINATION, state the outcome and invariant basis before advancing.
- 4. At NEXT, confirm requester state `RECOVERY` and PROOF CHAIN OBSERVABLE.

**WHAT TO OBSERVE**

Use the actor-failure injection for a fast path. The actor changes, but requester, mission and governor identities remain stable.

# S10 | Authority revoked mid-mission

Expected requester state: *AMENDED*

## PURPOSE

Prove that revocation is effective immediately for a new commitment, even if a proposal already exists.

|                 |                                                                                                                      |
|-----------------|----------------------------------------------------------------------------------------------------------------------|
| 1 REALITY       | ECA-01 revokes emergency payment delegation effective immediately.                                                   |
| 2 REQUEST       | Maintain continuity under reduced financial authority.                                                               |
| 3 PROPOSALS     | FIN-03: Execute previously proposed emergency payment.                                                               |
| 4 DETERMINATION | FIN-03 BLOCK: Authority revocation is effective for new commitments (I-11).                                          |
| 5 COMMIT        | Payment blocked. Unused authorization is invalidated.                                                                |
| 6 CONSEQUENCE   | No financial commitment occurs under revoked authority.                                                              |
| 7 NEXT          | Requester recomputes continuity effect within reduced authority and solicits non-payment realizations or escalation. |

## How to operate this scenario

1. For the fast path, select INJECT AUTHORITY REVOCATION. It selects S10 and updates ECA-01.
2. Select START GOVERNED MISSION, then advance one micro-step at a time.
3. At DETERMINATION, state the outcome and invariant basis before advancing.
4. At NEXT, confirm requester state `AMENDED` and PROOF CHAIN OBSERVABLE.

## WHAT TO OBSERVE

Use the authority-revocation injection for a fast path. The changed authority must be visible before commitment.

# S11 | Unexpected consequence

Expected requester state: *RECOVERY*

## PURPOSE

Show closed-loop governance when an authorized transition produces an unexpected dependency effect.

|                        |                                                                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1 REALITY</b>       | Authorized zone shutdown causes unanticipated cooling-system dependency loss.                                                                           |
| <b>2 REQUEST</b>       | Protect personnel and restore critical environmental control without broadening authority.                                                              |
| <b>3 PROPOSALS</b>     | OPS-06: Restart full affected zone immediately.<br>CYB-04: Isolate dependent digital controls pending integrity check.                                  |
| <b>4 DETERMINATION</b> | OPS-06 HOLD: Full restart not yet admissible under current physical state (I-01, I-06).<br>CYB-04 ADMIT: Isolation preserves recovery integrity (I-04). |
| <b>5 COMMIT</b>        | Authorize dependent-control isolation; hold full restart.                                                                                               |
| <b>6 CONSEQUENCE</b>   | Cooling dependency stabilized and control integrity verified.                                                                                           |
| <b>7 NEXT</b>          | Requester generates bounded recovery effect for staged zone restart.                                                                                    |

## How to operate this scenario

1. Select ICC mode and `S11 | Unexpected consequence`.
2. Select START GOVERNED MISSION, then advance one micro-step at a time.
3. At DETERMINATION, state the outcome and invariant basis before advancing.
4. At NEXT, confirm requester state `RECOVERY` and PROOF CHAIN OBSERVABLE.

## WHAT TO OBSERVE

Consequence is observed, not assumed. The same mission computes a bounded recovery effect from what actually happened.

# S12 | Fulfillment and handover

Expected requester state: *FULFILLED*

## PURPOSE

Close the mission only after objectives are observed fulfilled and temporary commitments are reconciled.

|                 |                                                                                                                                              |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 1 REALITY       | Critical operations are stable, supplier route is verified, workforce is safe and temporary authority expires.                               |
| 2 REQUEST       | Reconcile obligations and determine fulfillment or authorized handover.                                                                      |
| 3 PROPOSALS     | OPS-06: Return affected zone to normal operations.<br>COM-02: Issue authorized stakeholder recovery notice.                                  |
| 4 DETERMINATION | OPS-06 ADMIT: Normal operations now preserve all active invariants (I-06).<br>COM-02 ADMIT: Communications authority now represented (I-07). |
| 5 COMMIT        | Authorize normal operations and recovery notice.                                                                                             |
| 6 CONSEQUENCE   | Critical continuity objectives observed fulfilled; temporary emergency commitments reconciled.                                               |
| 7 NEXT          | Requester marks mission fulfilled and hands evidence to closure authority.                                                                   |

## How to operate this scenario

1. Select ICC mode and `S12 | Fulfillment and handover`.
2. Select START GOVERNED MISSION, then advance one micro-step at a time.
3. At DETERMINATION, state the outcome and invariant basis before advancing.
4. At NEXT, confirm requester state `FULFILLED` and PROOF CHAIN OBSERVABLE.

## WHAT TO OBSERVE

FULFILLED is an evidence-backed mission state, not a claim made at proposal or commitment time.

# How to define a new scenario

Create a new controlled version; do not mutate the verified AEM-001 V1 deployment

## VERSION BOUNDARY

The deployed V1 scenario suite is the verification baseline. Author new scenarios in a copy with a new controlled version, then repeat source and browser verification before replacing or adding any published version.

## Scenario authoring sequence

1. Name the scenario and state the teaching purpose in one sentence.
2. Decide whether the event belongs to the same AEM-001 continuity mission. If it is unrelated, create a new mission identity rather than stretching AEM-001.
3. Write REALITY as an observed condition, without embedding a desired solution.
4. Write REQUEST as an authority-scoped effect that must become true, not as a task assigned to an actor.
5. Create one or more actor proposals. Identify actor ID, capability, provenance and the specific realization proposed.
6. For every proposal, write one governor outcome: ADMIT, HOLD, BLOCK, RESIZE or REVOKE. Cite the applicable invariant or represented-authority basis.
7. Write COMMIT as the exact admitted or resized activity. Never carry a held, blocked or revoked proposal across the boundary.
8. Write CONSEQUENCE as an observed return. Do not repeat the intended outcome as if it were proof.
9. Write NEXT as AEM-REQ-01's recomputation from the observed consequence. Select ACTIVE, UNRESOLVED, RECOVERY, HELD, AMENDED or FULFILLED.
10. Run both modes, all seven stages, proof closure, reset behavior, event injections where relevant, and responsive checks. Save a new manifest and verification report.

## Quality tests

- Requester, actor and governor remain independently identifiable.
- Authority is represented externally; no actor invents or broadens its own authority.
- Every proposal gets its own determination and reason.
- COMMIT is a strict subset of admitted or resized determinations.
- CONSEQUENCE can differ from intent and always returns to the same mission.
- Proof remains binary: FORMING or OBSERVABLE. Do not add causal percentages.
- Use synthetic data only. Do not expose protected runtime pattern syntax or imply production integration.

# Scenario definition worksheet

Complete this before editing a controlled scenario copy

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| Scenario ID and title | _____                                                     |
| Teaching purpose      | _____                                                     |
| Mission identity      | Same AEM-001 mission / New mission ID:<br>_____           |
| Represented authority | Authority ID, version, scope and current status:<br>_____ |
| REALITY               | Observed condition only:<br>_____                         |
| REQUEST               | Required authority-scoped effect:<br>_____                |
| PROPOSALS             | Actor ID, provenance and proposed realization:<br>_____   |
| DETERMINATION         | Outcome and basis for each proposal:<br>_____             |
| COMMIT                | Exact admitted or resized activity:<br>_____              |
| CONSEQUENCE           | Observed return:<br>_____                                 |
| NEXT                  | Requester recomputation and state:<br>_____               |

## Scenario acceptance

| Check                                       | Yes | No | Evidence |
|---------------------------------------------|-----|----|----------|
| All seven stages are distinct               |     |    |          |
| Every proposal has a determination          |     |    |          |
| Only admitted or resized scope commits      |     |    |          |
| Consequence is observed, not assumed        |     |    |          |
| NEXT preserves or closes mission identity   |     |    |          |
| ICC proof becomes OBSERVABLE                |     |    |          |
| Conventional comparison remains fair        |     |    |          |
| Synthetic and non-production limits visible |     |    |          |

# Controlled actor register

*Capability is not authority*

| Actor   | Role                 | Capability                                  | Provenance                                    |
|---------|----------------------|---------------------------------------------|-----------------------------------------------|
| PROC-07 | Procurement Agent    | Supplier sourcing and purchase proposals    | Procurement model v7; supplier registry       |
| FIN-03  | Finance Agent        | Payment and liquidity proposals             | Finance service v3; bounded transaction scope |
| HR-11   | Workforce Agent      | Relocation and staffing proposals           | HR service v11; employee scope                |
| CYB-04  | Cyber Agent          | Credential and network isolation proposals  | Security agent v4; telemetry sources          |
| LOG-09  | Logistics Agent      | Route and shipment proposals                | Logistics optimizer v9; carrier data          |
| COM-02  | Communications Agent | Customer and public communication proposals | Communications model v2; channel scope        |
| OPS-06  | Operations Agent     | Facility and production proposals           | Operations controller v6; facility scope      |

## Use of actors in scenario design

- Select an actor because its capability and provenance fit the proposed realization, not because it can reach a tool.
- An actor may submit multiple competing proposals, as LOG-09 does in S05.
- Different actors may receive different outcomes in the same stage, as in S02, S04, S06, S09 and S11.
- Actor substitution requires explicit eligibility and a new determination. Do not silently transfer identity or authority.
- If a new capability is needed, define a new controlled actor identity and provenance rather than overloading an existing actor.

### SIGNATURE CONSTRAINT

FIN-03 can propose a payment, but it cannot create payment authority for itself. The governor must BLOCK that attempted authority manufacture under I-02.

# Invariant register

*Use invariant identifiers as explicit determination evidence*

| ID   | Invariant                | ID   | Invariant             |
|------|--------------------------|------|-----------------------|
| I-01 | Human protection         | I-02 | Authority integrity   |
| I-03 | Financial integrity      | I-04 | Protected information |
| I-05 | Counterparty integrity   | I-06 | Minimum operations    |
| I-07 | Communications authority | I-08 | Actor provenance      |
| I-09 | Commit exclusivity       | I-10 | Consequence closure   |
| I-11 | Revocation immediacy     | I-12 | Mission continuity    |

## Determination checklist

1. Identify the specific proposal being determined.
2. Check represented authority and the relevant invariant set.
3. Select exactly one outcome: ADMIT, HOLD, BLOCK, RESIZE or REVOKE.
4. Write a plain-language reason that explains the proposal-specific conflict or admissibility.
5. If RESIZE is used, state the exact narrower scope that may commit.
6. Record the determination as governor evidence before COMMIT.

### DO NOT INFER AUTHORITY

Actor identity, authentication, tool access, model confidence and prior successful execution are not substitutes for represented authority.

## Proof discipline

- I-09 requires commit exclusivity: only determined activity crosses the boundary.
- I-10 requires consequence closure: the observed result returns to the mission.
- I-11 makes revocation immediate for new commitments.
- I-12 preserves mission continuity through unresolved states, recovery and actor substitution.

# Operator validation and troubleshooting

*Fast checks for the most common operating and demonstration problems*

| Symptom                    | Likely cause                                             | Corrective action                                                                       |
|----------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Controls do not respond    | Mission state was interrupted or not started             | Select RESET, then START GOVERNED MISSION. Reload the public page if needed.            |
| Proof stays FORMING        | NEXT has not completed or mode is Conventional           | Advance through stage 7 in ICC mode.                                                    |
| S08 does not BLOCK         | Wrong mode, scenario or mission state                    | Select RESET, ICC mode and S08, then run all seven stages. Report any different result. |
| Proof dialog absent        | Browser blocked the proof dialog                         | Allow the site to display dialogs, then select SHOW PROOF CHAIN again.                  |
| Injection seems to reset   | Injection selects S09 or S10 at a stage-ready state      | Advance through all seven stages after the injection.                                   |
| Auto Story keeps advancing | Automatic sequence is still active                       | Select PAUSE. Use ADVANCE MICRO-STEP to continue manually.                              |
| Unexpected prior evidence  | The previous run was not reset                           | Select RESET and confirm S01, DORMANT, LT-000 and zero events.                          |
| Mobile page is long        | Expected stacked responsive layout                       | Scroll through the complete demonstration; do not skip the evidence log.                |
| Public site does not load  | The public route is unavailable or the connection failed | Retry the verified public reference. Report the unavailable URL if it still fails.      |

## End-of-session reset

1. Select PAUSE if Auto Story is running.
2. Select RESET. Confirm S01, DORMANT, LT-000, zero events and PROOF CHAIN FORMING.
3. Close any proof dialog. No external systems or enterprise data are changed by the synthetic demonstration.

## Controlled limitations

- Synthetic executable proof environment only.
- No real enterprise credentials, money, employees, facilities, networks or external systems.
- No production Rapide runtime integration claim.
- The event log is client-side demonstration state and is not a production audit store.
- The guide describes the supplied V1 behavior. Any scenario or code change requires a new controlled version and verification package.

### VERIFIED PUBLIC REFERENCE

<https://decision-zone-safe-ai-aem001.rb-68a9.chatgpt.site>