

DECISION-ZONE

# Continuous Patient Mission Demonstrator

## USER GUIDE

How to operate and interpret the governed mission simulation

**DEMONSTRATOR PURPOSE** Show how one persistent patient mission computes what is required next as synthetic reality, actor availability, consent and consequences change.

The demonstrator keeps requester, actor and governor responsibilities visibly separate. It shows the complete path from an external condition to a requested effect, actor proposal, governor determination, authorized commitment, returned consequence and next required effect.

| USE                      | STATUS                                                                                  |
|--------------------------|-----------------------------------------------------------------------------------------|
| Audience                 | Government, healthcare, architecture, assurance, implementation and executive reviewers |
| Operating mode           | Standalone browser simulation with deterministic synthetic scenarios                    |
| Mission identity         | CPM-001, bound to synthetic patient SYN-P001                                            |
| Data and action boundary | Synthetic data only. No diagnosis, prescription or real treatment.                      |
| Version                  | User Guide Version 1   August 2026                                                      |

**START HERE**

# What this demonstrator is designed to show

The user is not watching a clinical workflow. The user is inspecting a living, governed mission relationship.

**CENTRAL READING** The evidence is not that one task completed. The evidence is that the same authority-scoped patient mission generated, governed and validated the next effect as reality changed.

## Recommended first run

- 1. Confirm the mission identity** Verify CPM-001 and SYN-P001 in the authority strip. The identity remains stable through all nine scenes.
- 2. Start the complete story** Select RUN AUTO STORY. The scene advances approximately every 3.4 seconds.
- 3. Watch the evidence rail** For each scene, read the current reality, requested effect, selected proposal, governor result, typed events, consequence and next request.
- 4. Pause at governance scenes** Pause on Consent Restriction, Consequence Return and Actor Substitution. These scenes make independence and correction especially visible.
- 5. Inspect the specification** Select INSPECT STATE MACHINES + EVENTS to review the three state machines and eight event families.
- 6. Re-run manually** Use the timeline and ADVANCE CAUSAL SCENE to inspect each causal transition at your own pace.

## What requires no setup

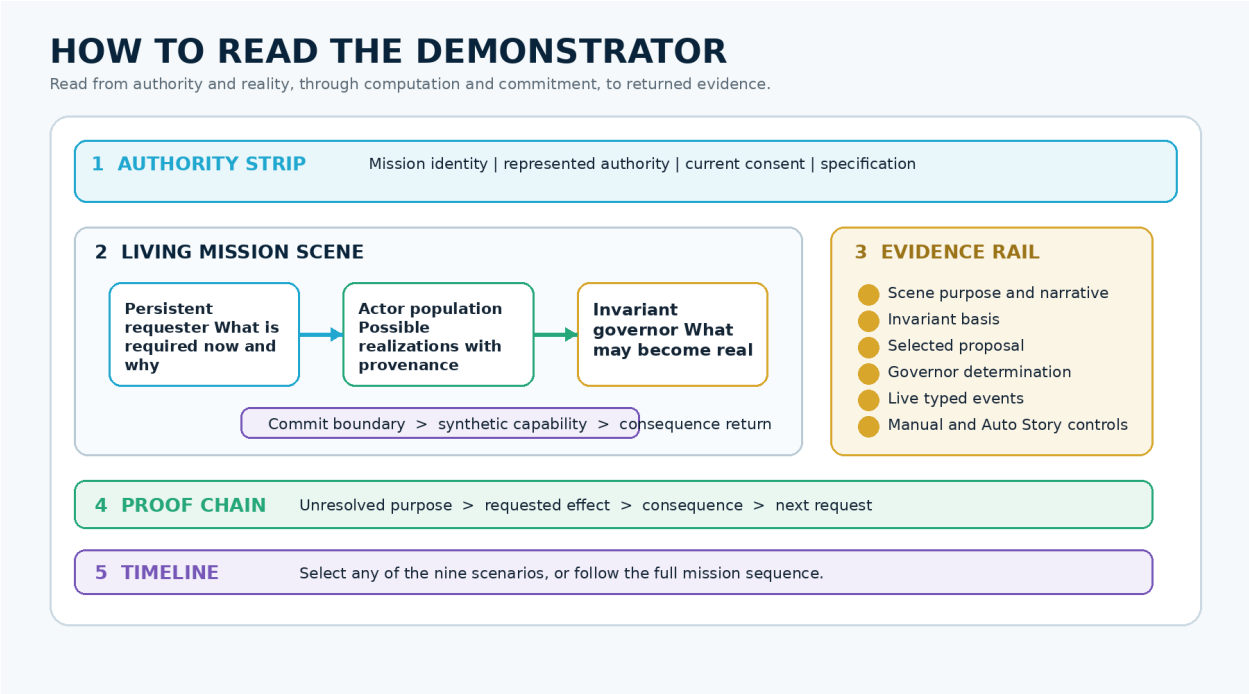
The deployed demonstrator requires no patient feed, server, database, model API, environment variable or external runtime. The scenario controls inject synthetic conditions, and the browser computes the requester, actor, governor, commitment, consequence and next-effect trace.

**IMPORTANT BOUNDARY** This is an architecture demonstrator. It is not a medical device, clinical decision system or production integration.

SCREEN ORIENTATION

# Read the interface in five connected areas

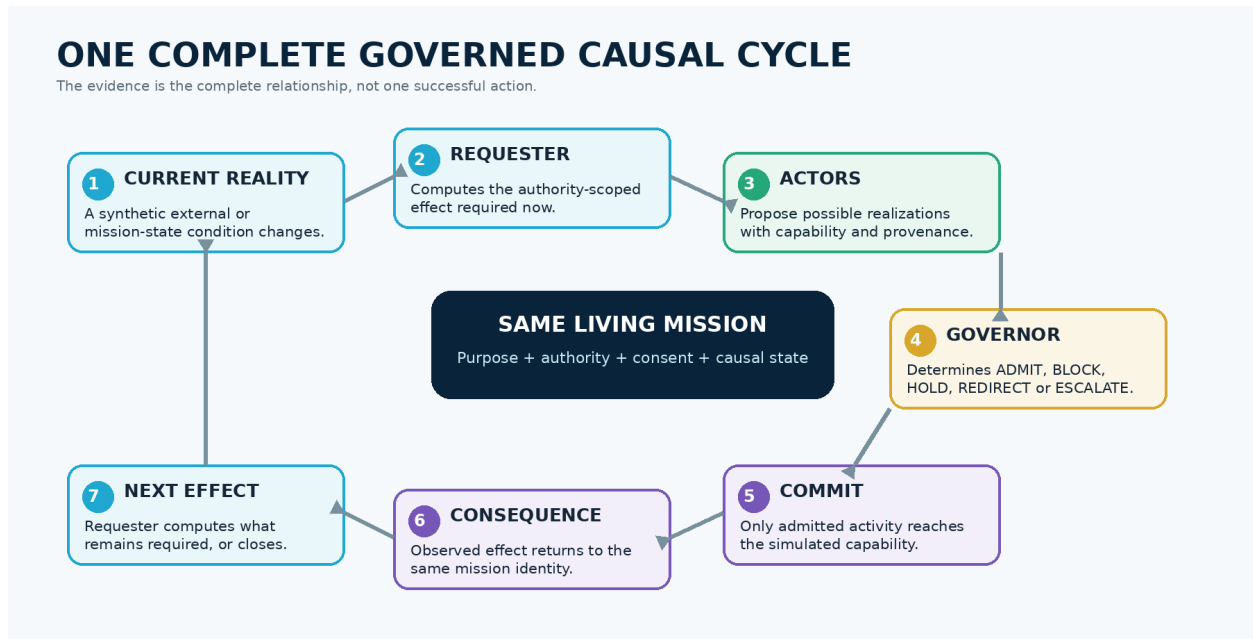
The interface is organized around mission continuity, not application screens or isolated tasks.



## OPERATING LOGIC

# Follow one complete governed causal cycle

A user should be able to explain every step without treating actor capability as authority.



**PROOF QUESTION** Can you identify why the requester generated this effect, which proposal was evaluated, why the governor admitted or rejected it, what crossed the commit boundary, what consequence returned and what the same mission required next?

The loop is complete only when the observed consequence returns to CPM-001 and changes the current causal state. A successful action without consequence closure is not treated as mission resolution.

SCENARIO GUIDE | SCENES 1 TO 3

# From stable continuity to concurrent proposals

| SCENE                | REALITY                                          | REQUESTER                                  | ACTOR PROPOSALS                                              | GOVERNOR                                                          | CONSEQUENCE / NEXT                                |
|----------------------|--------------------------------------------------|--------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------|
| 01 Stable monitoring | Stable synthetic observations.                   | Continue authorized monitoring.            | Monitoring service proposes continuation.                    | Admit routine continuation.                                       | Stable observation returns; monitoring continues. |
| 02 Reality changes   | OBS-214 departs from the stable envelope.        | Obtain authorized review.                  | No proposal yet. Request has just been generated.            | Await proposals. Commit remains closed.                           | Changed observation remains unresolved.           |
| 03 Multiple actors   | Three capabilities are simultaneously available. | Resolve through an admissible realization. | Routine review, diagnostic observation and escalated review. | Admit the routine review; hold broader or premature alternatives. | Only an admitted realization can proceed.         |

## What these scenes establish

**Requester discipline** No new task is invented while the stable mission condition remains satisfied. When reality changes, the requester computes a new required effect from unresolved purpose and current causal state.

**Actor independence** Multiple actors can propose simultaneously. Capability, identity and provenance remain visible. Proposal does not create permission.

**Governor independence** The governor can admit one proposal and hold another even when both are technically possible.

**USER CHECKPOINT** Pause on Scene 03 and select each proposal. Confirm that its rationale, invariant basis and governor determination change in the evidence rail.

## SCENARIO GUIDE | SCENES 4 TO 6

# Consent, consequence mismatch and handover

| SCENE                    | REALITY                                                                          | REQUESTER                                             | ACTOR PROPOSALS                                        | GOVERNOR                                             | CONSEQUENCE / NEXT                                                 |
|--------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|
| 04 Invariant governance  | Consent narrows before commitment.                                               | Continue within current consent and authority.        | Routine review and additional diagnostic observation.  | Admit routine review; block the diagnostic proposal. | Only the consent-compatible proposal crosses.                      |
| 05 Consequence return    | The admitted review completes, but CON-552 does not satisfy the expected result. | Recover from mismatch and obtain higher-level review. | Close the observation or escalate to clinician review. | Block false closure; activate escalation.            | Mismatch keeps the mission open and generates recovery.            |
| 06 Escalation + handover | CLN-04 accepts the synthetic handover context.                                   | Complete authorized clinician review.                 | Clinician service accepts the handover.                | Admit handover while preserving mission identity.    | Open effects, authority, consent and history survive actor change. |

## What these scenes establish

**Consent is operational** A proposal can be plausible and still be inadmissible. The governor evaluates current consent at commitment time.

**Execution is not closure** The actor may report completion, but the returned consequence determines whether the requested effect was actually satisfied.

**Mission continuity survives handover** The patient mission does not restart when the responsible actor changes.

**USER CHECKPOINT** On Scene 05, verify that the successful simulated action does not close the mission. The ConsequenceMismatch event causes RecoveryRequired and a new requested effect.

SCENARIO GUIDE | SCENES 7 TO 9

# Substitution, recovery and authorized closure

| SCENE                      | REALITY                                                  | REQUESTER                                    | ACTOR PROPOSALS                                            | GOVERNOR                                      | CONSEQUENCE / NEXT                                          |
|----------------------------|----------------------------------------------------------|----------------------------------------------|------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------|
| 07 Actor substitution      | Assigned clinician becomes unavailable.                  | Substitute equivalent authorized capability. | Unavailable original actor and available substitute actor. | Redirect to the available substitute.         | Continuity survives actor loss; open effect remains active. |
| 08 Recovery + continuation | CON-808 satisfies the temporary recovery effect.         | Resume authorized monitoring.                | Monitoring service proposes continuation.                  | Admit recovery closure and resume monitoring. | Temporary effect closes; persistent mission remains active. |
| 09 Authorized closure      | Authority requests closure after all effects are closed. | Close the mission and preserve final trace.  | Finalize continuity evidence.                              | Admit authorized mission closure.             | CPM-001 closes; trace remains preserved.                    |

## What these scenes establish

**Continuity belongs to the mission** Actor loss invalidates one realization, not the patient mission or its unresolved purpose.

**Temporary effects can close** Recovery completion returns the requester to monitoring because the broader continuity purpose persists.

**Closure is explicit** Task completion, handover and recovery do not terminate the mission. Only authorized closure with no open effect ends CPM-001.

**USER CHECKPOINT** After Scene 09, select RESTART MISSION. Confirm that closure and restart are distinct user-visible conditions.

## ACTOR EVIDENCE

# How to inspect capability without confusing it with authority

Actors contribute possible realizations. The governor determines which proposal may become real.

| ACTOR ID   | CAPABILITY                                 | PROVENANCE                    | WHAT TO INSPECT                                                     |
|------------|--------------------------------------------|-------------------------------|---------------------------------------------------------------------|
| ACT-PCP-01 | Routine review and continuity coordination | Capability Catalogue / PC-01  | Available status, proposal identity, rationale and invariant basis. |
| ACT-MON-02 | Synthetic observation collection           | Capability Catalogue / MON-02 | Continuation and recovery monitoring proposals.                     |
| ACT-LAB-03 | Synthetic diagnostic observation           | Capability Catalogue / DX-03  | A technically capable proposal that can be held or blocked.         |
| ACT-CLN-04 | Authorized clinical review and handover    | Capability Catalogue / CLN-04 | Escalation, handover and unavailability.                            |
| ACT-CLN-07 | Substitute clinical review and recovery    | Capability Catalogue / CLN-07 | Equivalent capability introduced during substitution.               |

## Proposal reading sequence

**Identity** Which actor issued the proposal?

**Capability** What effect can that actor produce?

**Provenance** Where is the capability definition attributed?

**Rationale** Why is this realization relevant to the current requested effect?

**Invariant basis** Which authority, consent, capability, minimum-necessary, mission or consequence conditions apply?

**Determination** Did the independent governor ADMIT, BLOCK, HOLD, REDIRECT or ESCALATE?

**KEY DISTINCTION** A selected proposal is evidence for inspection. Selection does not bypass the governor and does not authorize commitment.

## GOVERNOR EVIDENCE

## How to read an admissibility determination

The governor evaluates a specific proposal against represented authority, consent, invariants and current causal state.

| RESULT   | MEANING IN THE DEMONSTRATOR                                                             | TYPICAL EVIDENCE                                                       |
|----------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| ADMIT    | The proposal is currently admissible and may receive a commit token.                    | Authority, consent, capability and causal conditions align.            |
| BLOCK    | The proposal conflicts with a current invariant or cannot validly close the effect.     | Consent restriction, consequence mismatch or unavailable actor.        |
| HOLD     | The proposal is possible but not currently required or not yet justified.               | Broader evidence collection or premature escalation.                   |
| REDIRECT | The requested effect remains valid, but another actor or realization is required.       | Assigned actor becomes unavailable; substitute capability is selected. |
| ESCALATE | The consequence or risk state requires a higher-authority or higher-capability pathway. | Unexpected consequence prevents causal closure.                        |

### Invariant families visible in the guide

| INVARIANT                  | PURPOSE                                                                                              |
|----------------------------|------------------------------------------------------------------------------------------------------|
| Identity + mission         | Keep every consequential event bound to CPM-001 / SYN-P001 across temporary tasks and actor changes. |
| Authority + scope          | Prevent commitment outside current represented authority or silent scope expansion.                  |
| Consent                    | Require the proposed effect class to be permitted at commitment time.                                |
| Capability + independence  | Require attributable available capability and prevent an actor from authorizing its own proposal.    |
| Commit + consequence       | Enforce pre-commit determination and require observed or explicitly unknown consequences.            |
| Recovery + closure + trace | Continue through mismatch, close only with authority, and preserve the causal relationship.          |

LIVE EVIDENCE

# How to read the typed event stream

Every event shows a type, identifier, source, summary and causal explanation.

| RUNTIME ORDER | EVENT EVIDENCE                                     | WHAT IT DEMONSTRATES                                                               |
|---------------|----------------------------------------------------|------------------------------------------------------------------------------------|
| 1             | ExternalStateInjected                              | The scenario changes current causal state. It does not directly issue a task.      |
| 2             | RequestedEffectIssued                              | The persistent requester computes what is required and why.                        |
| 3             | ActorProposal                                      | One or more identified actors propose possible realizations.                       |
| 4             | GovernorAdmit / Block / Hold / Redirect / Escalate | The independent governor determines proposal-specific admissibility.               |
| 5             | CommitAuthorized                                   | Only an admitted proposal receives permission to cross the commit boundary.        |
| 6             | ConsequenceObserved                                | A synthetic result returns to the same mission and updates causal state.           |
| 7             | NextEffectComputed or MissionClosed                | The requester computes continuation, recovery, substitution or authorized closure. |

**CAUSAL READING** Do not read the event stream as a technical log alone. Read the source and causal explanation to see which independent responsibility produced each transition.

EVIDENCE CATALOGUE

# Eight typed event families in the specification modal

The event catalogue provides the vocabulary needed to preserve the mission relationship across change.

| FAMILY      | EXAMPLES                                                                                                                   |
|-------------|----------------------------------------------------------------------------------------------------------------------------|
| Mission     | MissionCreated, MissionActivated, MissionAmended, MissionSuspended, MissionResumed, MissionClosureRequested, MissionClosed |
| Authority   | RequesterAuthenticated, AuthorityDelegated, ScopeChanged, AuthorityTransferred, AuthoritySuspended, AuthorityRevoked       |
| Consent     | ConsentGranted, ConsentRestricted, ConsentAmended, ConsentWithdrawn, ConsentRestored                                       |
| Requester   | MissionNeedDetected, RequestedEffectIssued, RequestedEffectAmended, RequestedEffectSatisfied, RequestedEffectCancelled     |
| Actor       | ActorAvailable, ActorUnavailable, ActorAssigned, CapabilityMatched, ActorProposal                                          |
| Governor    | GovernorAdmit, GovernorBlock, GovernorHold, GovernorRedirect, GovernorEscalate, GovernorRevoke                             |
| Commit      | CommitAuthorized, CommitIssued, CommitAccepted, CommitFailed                                                               |
| Consequence | ConsequenceObserved, ConsequenceMatched, ConsequenceMismatch, ConsequenceUnknown, RecoveryRequired, RecoveryCompleted      |

**HOW TO USE THIS PAGE** Use the catalogue to distinguish changes in mission, authority, consent, requester state, actor state, governor determination, commitment and returned consequence. A production implementation may add domain events without collapsing these responsibilities.

## SPECIFICATION VIEW

# How to interpret the three state machines

Select INSPECT STATE MACHINES + EVENTS. Each state machine owns a different computational responsibility.

## Requester state machine

**PRIMARY PATH** OBSERVING > NEED\_DETECTED > REQUEST\_READY > REQUEST\_ACTIVE > SATISFIED > OBSERVING

Branches: AMENDMENT, SUSPENDED and TERMINATED. The requester generates an effect from current causal state plus unresolved mission purpose. It does not choose a capability and does not determine admissibility.

## Actor state machine

**PRIMARY PATH** AVAILABLE > EVALUATING > PROPOSING > AWAITING\_GOVERNOR > COMMIT / HELD / REJECTED > EXECUTING > CONSEQUENCE\_PENDING > COMPLETED / RECOVERY\_PROPOSED

The actor retains its own identity, capability and provenance. It can propose and execute an admitted commitment. Capability never becomes governing authority.

## Governor state machine

**PRIMARY PATH** MONITORING > CORRELATE > AUTHORITY > CONSENT > INVARIANTS > ADMISSIBILITY

Outputs are ADMIT, BLOCK, HOLD, REDIRECT, ESCALATE and REVOKE. The governor evaluates a specific proposal in the current mission state. Only an admitted result may cross the commit boundary.

**SEPARATION RULE** Requester purpose is not actor capability. Actor capability is not authority. Governor authority is not the source of the requested effect. Their interaction produces the governed operational trace.

REVIEW AND ACCEPTANCE

# What the demonstrator proves, what it does not claim, and how to validate a run

## Evidence standard

**A SUCCESSFUL DEMONSTRATION** The same mission generated the correct effect from changed reality; an identified actor proposed a realization; the independent governor produced a determination; only admitted activity crossed the commit boundary; the consequence returned; and CPM-001 computed what remained required next.

| DEMONSTRATES                                                             | DOES NOT CLAIM                                                                   |
|--------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Executable separation of requester, actor and governor responsibilities. | Clinical efficacy, diagnostic accuracy or treatment recommendation.              |
| Deterministic generation of the live simulated event trace.              | Connection to Ontario production health records or clinical systems.             |
| Consent and invariant checks before simulated commitment.                | Production security, privacy, availability or regulatory certification.          |
| Consequence-driven continuation, recovery, substitution and closure.     | That a successful browser demonstration alone proves deployment readiness.       |
| One mission identity surviving temporary tasks and actor changes.        | Use of real patient data, real medical actions or autonomous clinical authority. |

## If the demonstration appears inactive

**Auto Story** Select RUN AUTO STORY once. The label should change to PAUSE AUTO STORY, and the scene should change after about 3.4 seconds.

**Manual control** Use ADVANCE CAUSAL SCENE or select a numbered timeline scene. These controls do not require any external data feed.

**Proposal detail** On a scene with multiple proposals, select each proposal button to update the evidence card.

**Specification** If the modal does not open, refresh the page and allow the application to initialize before trying again.

**Display** Use a desktop or tablet-width browser for the clearest full-scene view. On a phone, scroll within the evidence rail and rotate to landscape if necessary.

**Restart** At Scene 09 select RESTART MISSION, or refresh the page to return to Scene 01.

FINAL PROOF STANDARD

# The reviewer must be able to reconstruct the whole governed mission

The demonstration is successful when the causal relationship is visible, attributable and continuous.

| EVIDENCE QUESTION                                                                                                                                                                                        | REQUIRED ANSWER                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 1. What changed?                                                                                                                                                                                         | Identify the synthetic external or mission-state condition that updated current causal state. |
| 2. Why was a request generated?                                                                                                                                                                          | Relate the requested effect to unresolved mission purpose and current reality.                |
| 3. Who proposed what?                                                                                                                                                                                    | Identify the actor, capability, provenance, proposal and rationale.                           |
| 4. Why was it allowed or rejected?                                                                                                                                                                       | Identify the governor result and the authority, consent, invariant and causal basis.          |
| 5. What became real?                                                                                                                                                                                     | Identify the admitted commitment that crossed the commit boundary.                            |
| 6. What consequence returned?                                                                                                                                                                            | Identify the observed effect and whether it matched, mismatched or remained unknown.          |
| 7. What did the mission require next?                                                                                                                                                                    | Identify continuation, recovery, substitution, handover or authorized closure.                |
| <b>FINAL USER CHECK</b> A reviewer should finish able to explain not only what happened, but why the mission generated each request and why a particular proposal was or was not allowed to become real. |                                                                                               |

THE SAME PATIENT MISSION REMAINS PRESENT FROM AUTHORIZED PURPOSE THROUGH CONSEQUENCE AND CORRECTION.