

HCS-002

Continuation Admissibility Model (CAM)

Constitutional Evaluation Specification

Version: 1.0 (Federation Draft)

Status: Draft Constitutional Specification

Status of This Specification

This document defines the constitutional evaluation model used by the Harmonic architecture to determine whether an attempted continuation remains constitutionally admissible.

This specification defines:

- Constitutional evaluation surfaces
- Constitutional evaluation relationships
- Constitutional synthesis
- Constitutional outcomes
- Constitutional invariants

This specification intentionally does **not** prescribe algorithms, scoring systems, heuristics, implementation strategies, runtime architectures, or model selection.

Independent implementations MAY satisfy this specification while preserving the constitutional model defined herein.

Relationship to HCS-001

HCS-001 defines Harmonic's constitutional jurisdiction.

HCS-002 defines the constitutional evaluation model used within that jurisdiction.

Together they establish:

- **HCS-001:** What Harmonic is constitutionally responsible for.

- **HCS-002:** How continuation admissibility is constitutionally evaluated.

Neither document prescribes implementation.

Preamble

Governance cannot determine continuation solely from historical authorization.

Autonomous systems operate within continuously evolving operational environments.

Authority changes.

Evidence changes.

Context changes.

Dependencies change.

Risk changes.

Consequence changes.

A continuation that was constitutionally admissible moments ago may no longer remain supportable.

Continuation admissibility must therefore be evaluated against the current constitutional state rather than historical approval.

This specification defines the constitutional evaluation model required to make that determination.

1. Purpose

The purpose of the Continuation Admissibility Model (CAM) is to provide an implementation-independent constitutional model for evaluating whether attempted continuation remains supportable before additional consequence is introduced.

CAM evaluates constitutional state.

CAM does not perform execution.

CAM does not prescribe implementation.

2. Scope

This specification applies solely to constitutional evaluation.

It is independent of:

- reasoning architectures
 - foundation models
 - agent frameworks
 - orchestration platforms
 - programming languages
 - runtime implementations
 - deployment environments
 - organizational structures
 - industries
 - regulatory jurisdictions
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3. Constitutional Principle

Every proposed continuation SHALL be evaluated against current constitutional state before additional consequence is introduced.

Historical authorization SHALL NOT be considered sufficient.

Continuation admissibility SHALL be determined through governed evaluation of current operational conditions.

4. Constitutional Evaluation Model

Continuation admissibility is evaluated across six constitutional evaluation surfaces.

Each surface contributes independently to constitutional understanding.

No individual surface independently determines continuation admissibility.

Supportability emerges only through constitutional synthesis of the complete evaluation state.

5. Definitions

Continuation Proposal

A proposed transition from one operational state toward another operational state capable of introducing additional consequence.

Constitutional State

The complete set of currently observable governance conditions under which continuation is proposed.

Evaluation Surface

A constitutional category whose present state contributes to the determination of continuation admissibility.

Evaluation surfaces are evaluated independently and synthesized collectively.

Supportability

The governed constitutional determination that continuation remains justified under current authority, evidence, operational context, dependency integrity, continuity, and consequence.

Supportability is not independently measured.

It emerges from constitutional synthesis.

Constitutional Synthesis

The governed integration of all constitutional evaluation surfaces into a single determination regarding continuation admissibility.

Governed Outcome

The constitutional determination produced following constitutional synthesis.

Governed outcomes represent governance decisions.

They do not constitute execution.

6. Constitutional Evaluation Surfaces

Surface 1 — Authority

Constitutional Question

Does sufficient authority presently exist to support continuation?

Constitutional Evaluation

Evaluation includes:

- authority availability
- authority validity
- delegation integrity
- authority revocation
- authority sufficiency

Governed Result

Authority remains constitutionally sufficient.

or

Authority requires escalation.

Surface 2 — Evidence

Constitutional Question

Does currently available evidence continue to support continuation?

Constitutional Evaluation

Evaluation includes:

- evidence relevance
- evidence sufficiency
- contradictory evidence
- evidentiary completeness
- evidence quality

Governed Result

Evidence remains constitutionally supportable.

or

Evidence requires reevaluation.

Surface 3 — Operational Context

Constitutional Question

Have operational conditions materially changed?

Constitutional Evaluation

Evaluation includes:

- runtime conditions
- environmental assumptions
- contextual dependencies
- operational constraints
- execution environment

Governed Result

Operational context remains admissible.

or

Operational context requires review.

Surface 4 — Dependency Integrity

Constitutional Question

Do required dependencies remain constitutionally valid?

Constitutional Evaluation

Evaluation includes:

- prerequisite validity
- dependency availability
- upstream governance state
- dependency continuity
- dependency consistency

Governed Result

Dependencies remain constitutionally valid.

or

Dependencies invalidate continuation.

Surface 5 — Consequence

Constitutional Question

What additional consequence would continuation introduce?

Constitutional Evaluation

Evaluation includes:

- consequence magnitude

- consequence direction
- consequence scope
- consequence proportionality
- consequence authority

Governed Result

Consequence remains constitutionally acceptable.

or

Consequence requires escalation.

Surface 6 — Continuity

Constitutional Question

Does continuation preserve constitutional continuity?

Constitutional Evaluation

Evaluation includes:

- reconstructability
- contradiction visibility
- governance continuity
- decision lineage
- continuity integrity

Governed Result

Continuation preserves constitutional continuity.

or

Continuation requires intervention.

7. Constitutional Relationships

The constitutional evaluation surfaces are related rather than independent.

Examples include:

- Authority influences admissibility.
- Evidence influences supportability.
- Operational context influences consequence.
- Dependency integrity influences continuation.
- Continuity preserves reconstructability.
- Consequence influences escalation.

The constitutional model evaluates both individual evaluation surfaces and their governed relationships.

8. Constitutional Synthesis

No constitutional evaluation surface independently determines continuation admissibility.

Continuation admissibility SHALL emerge only through governed constitutional synthesis of the complete constitutional evaluation state.

Supportability SHALL represent the integrated constitutional determination.

Historical authorization SHALL NOT override constitutional synthesis.

9. Constitutional Outcomes

Following constitutional synthesis, CAM SHALL produce one governed outcome.

Permitted constitutional outcomes are:

- Continue
- Pause
- Escalate
- Redirect
- Require Review
- Halt

No additional constitutional outcomes are defined by this specification.

Execution remains outside CAM's constitutional jurisdiction.

10. Constitutional Invariants

The following invariants SHALL remain true independent of implementation.

1. Governance SHALL precede consequence.
2. Continuation SHALL be evaluated against current constitutional state.
3. Historical authorization alone SHALL NOT justify future continuation.
4. Authority SHALL remain explicit.
5. Contradictions SHALL remain observable.
6. Evidence SHALL remain reconstructable.
7. Dependencies SHALL remain observable.
8. Governance SHALL evaluate continuation rather than cognition.
9. Constitutional evaluation SHALL remain implementation independent.
10. Supportability SHALL emerge only through constitutional synthesis.
11. Constitutional outcomes SHALL precede execution.

These invariants define CAM.

Implementations MAY differ.

The invariants SHALL NOT.

11. Constitutional Non-Claims

CAM makes no constitutional determination regarding:

- identity
- authentication
- truth
- factual correctness
- intelligence
- prediction
- optimization
- execution
- audit
- policy creation
- ontology
- legal interpretation
- ethical judgment
- clinical correctness

These remain sovereign constitutional responsibilities of neighboring architectures.

12. Federation Compatibility

CAM evaluates constitutional continuation.

Other sovereign constitutional architectures provide the constitutional state consumed during evaluation.

CAM neither replaces nor subsumes neighboring constitutional architectures.

Composition SHALL occur through explicit constitutional interfaces while preserving sovereign constitutional boundaries.

13. Security and Failure Considerations

When constitutional authority cannot be established, continuation SHALL NOT be presumed admissible.

When required evidence is unavailable, supportability SHALL be treated as unresolved.

When dependencies become invalid, continuation SHALL be re-evaluated.

When constitutional state becomes ambiguous, escalation SHALL be preferred over unsupported continuation.

Failure SHALL increase constitutional governance rather than reduce it.

Appendix A — Architectural Rationale (Informative)

Continuation admissibility is not a property of historical approval.

It is a constitutional determination produced through governed evaluation of current operational conditions.

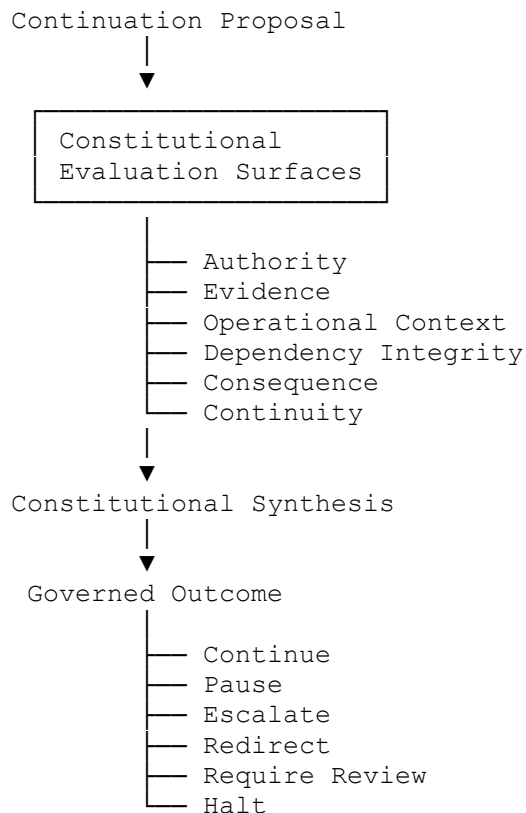
Autonomous systems increasingly operate in environments where consequence accumulates incrementally rather than instantaneously.

Accordingly, governance cannot rely solely upon prior authorization.

Governance must continuously evaluate whether continuation remains constitutionally supportable under present operational conditions.

The Continuation Admissibility Model defines the constitutional evaluation surfaces and synthesis process required to make that determination while preserving implementation independence and sovereign architectural boundaries.

Appendix B — Conceptual Evaluation Flow (Informative)



Closing Principle

The Continuation Admissibility Model claims one constitutional responsibility:

To define the implementation-independent constitutional evaluation model through which attempted continuation is determined to remain supportable before additional consequence is introduced.

CAM does not prescribe implementation.

CAM does not perform execution.

CAM does not replace neighboring sovereign architectures.

It defines the constitutional evaluation model through which continuation admissibility may be determined while preserving explicit jurisdiction, implementation independence, and federated interoperability.