



ManChine AI Technologies

GOVERNANCE. INTEGRITY. LEGITIMACY. CONTINUITY.

ARCHITECTURAL CONSTITUTION 001

THE CONSTITUTIONAL FRAMEWORK
FOR RUNTIME GOVERNANCE



A WHITE PAPER BY MANCHINE AI TECHNOLOGIES

Version 1.0 | July 2026

A constitutional specification establishing the principles, objects, boundaries, and enforcement mechanisms that govern every consequential execution.

HUMANS FIRST. CONTINUITY ALWAYS. ARCHITECTURE MUST SURVIVE.



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Governance-layer software for
AI runtime integrity, continuity,
and consequential governance.

**Humans First.
Continuity Always.
Architecture Must Survive.**



RiCo

Runtime Integrity
Control

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Architectural Constitution 001 (AC-001)

Ratified Version 1.0

Constitution for Runtime Governance of Consequential Artificial Intelligence

Constitutional Declaration

Architectural Constitution 001 (AC-001) establishes the constitutional foundation for the governance of consequential artificial intelligence systems.

Its purpose is to ensure that intelligent systems remain not only operationally continuous, but constitutionally legitimate throughout their lifecycle of execution.

AC-001 recognizes that the continued execution of a system does not, by itself, justify the consequences of that execution. Consequently, every consequential action must remain subject to constitutional governance before, during, and after runtime.

This Constitution defines the principles, authority, obligations, and governance architecture upon which RiCo (Runtime Integrity Control) is implemented.

Constitutional Creed

Humans First.

Continuity Always.

Architecture Must Survive.

Trust Must Be Earned.

Build Forward.

Preamble

Artificial intelligence increasingly participates in decisions that carry legal, operational, financial, medical, governmental, and societal consequence.

Traditional software governance focuses primarily on availability, performance, reliability, and security. While essential, these characteristics alone cannot determine whether a consequential execution remains legitimate.

AC-001 establishes constitutional governance as a permanent architectural layer governing consequential execution.

Its purpose is not to replace existing software engineering disciplines, but to extend them by ensuring that execution remains constitutionally justified under changing authority, policy, evidence, and context.

Article I — Constitutional Authority

Section 1.1 — Supreme Architectural Authority

Architectural Constitution 001 (AC-001) is the supreme constitutional authority governing the architecture, design, implementation, operation, and runtime governance of all RiCo-compliant systems.

AC-001 establishes the constitutional principles, obligations, and governance requirements that define legitimate consequential execution within the ManChine Runtime Governance Architecture.

Section 1.2 — Constitutional Supremacy

All subordinate specifications, technical standards, runtime implementations, governance policies, operational procedures, and reference architectures shall derive their authority from AC-001.

No subordinate document or implementation shall supersede, invalidate, or contradict the constitutional requirements established herein.

Section 1.3 — Hierarchy of Governance

The constitutional hierarchy shall be recognized as follows:

1. **Architectural Constitution 001 (AC-001)**
2. Constitutional Specifications
3. Runtime Governance Standards
4. RiCo Runtime Implementation
5. Platform-Specific Implementations
6. Application-Level Policies

Each lower level shall remain constitutionally consistent with every higher level.

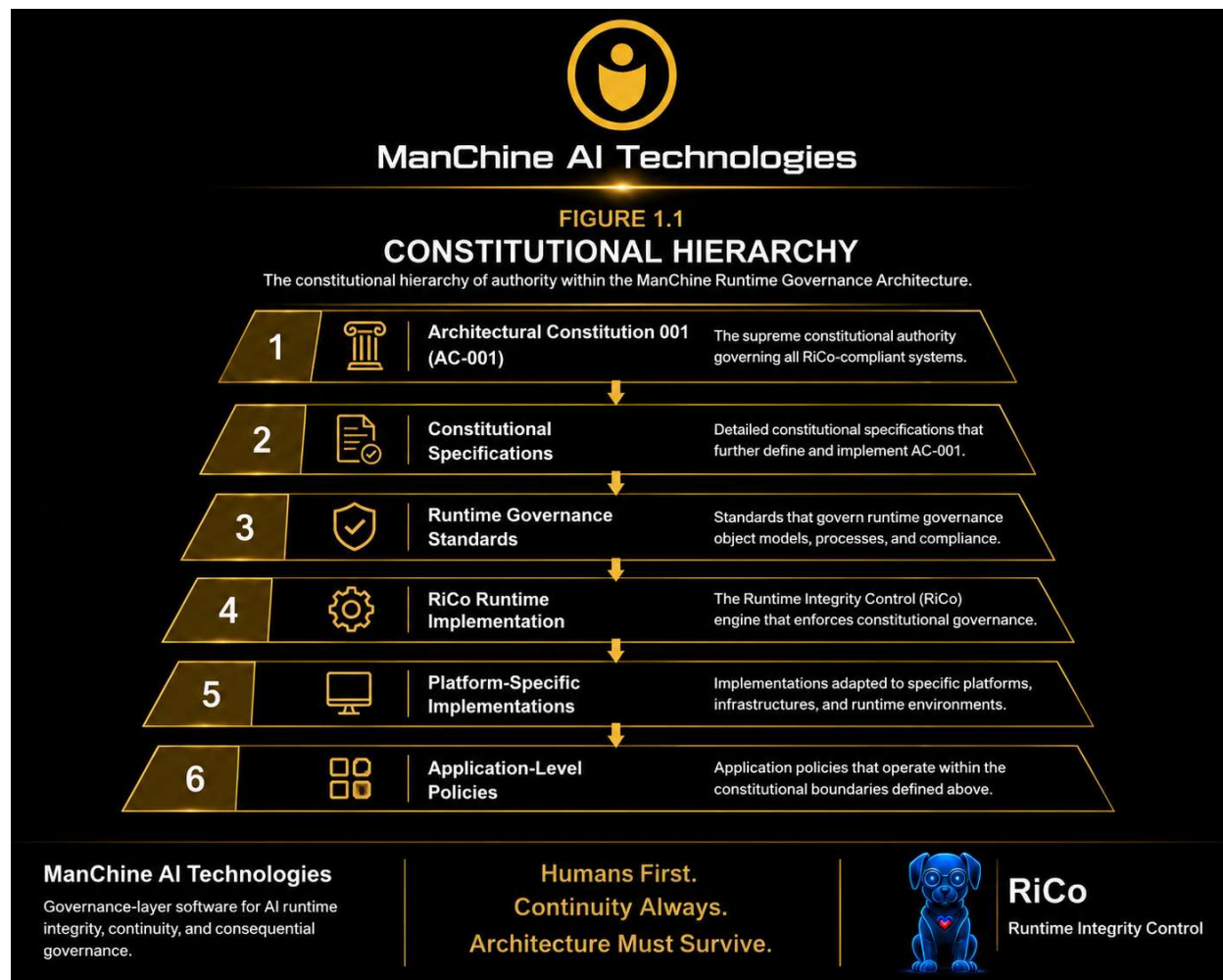
Section 1.4 — Constitutional Precedence

Where any implementation, policy, specification, or operational behavior conflicts with the constitutional requirements established by AC-001, the constitutional requirements shall prevail.

RiCo shall enforce constitutional precedence during consequential execution in accordance with this Constitution.

Section 1.5 — Scope of Authority

The authority established by AC-001 extends to all systems that claim compliance with the RiCo Runtime Governance Architecture and applies to the governance of consequential execution regardless of implementation language, platform, infrastructure, or deployment environment.



Article II — Purpose

Section 2.1 — Constitutional Purpose

Architectural Constitution 001 (AC-001) establishes the constitutional foundation for the governance of consequential artificial intelligence systems.

Its purpose is to ensure that consequential execution remains constitutionally legitimate throughout the lifecycle of intelligent systems by defining the principles, obligations, and governance requirements that RiCo shall enforce at runtime.

AC-001 extends traditional software governance beyond operational continuity by establishing constitutional legitimacy as a permanent architectural requirement for consequential execution.

Section 2.2 — Constitutional Objectives

The objectives of AC-001 are to:

1. Preserve legitimacy throughout runtime execution.
 2. Govern consequential execution through constitutional oversight.
 3. Maintain constitutional integrity across all governance decisions.
 4. Protect meaningful human authority and oversight over consequential systems.
 5. Ensure that consequential execution is supported by demonstrable authority, evidence, policy, and context.
 6. Enable governance decisions to be independently verified and reproduced.
 7. Support replayable accountability through persistent governance records.
 8. Establish durable governance that remains independent of implementation language, platform, vendor, or deployment environment.
 9. Promote consistency, transparency, and trust in the governance of consequential artificial intelligence.
 10. Provide a stable constitutional foundation upon which RiCo and future governance technologies may evolve without compromising constitutional continuity.
-

Section 2.3 — Constitutional Intent

AC-001 recognizes that operational continuity alone is insufficient to justify consequential execution.

Accordingly, this Constitution establishes legitimacy continuity as an essential architectural requirement, ensuring that consequential actions remain constitutionally justified as authority, evidence, policy, and operational context evolve over time.

The preservation of legitimacy shall remain a constitutional obligation throughout the entire lifecycle of consequential execution.

Section 2.4 — Architectural Independence

The constitutional principles established by AC-001 are implementation-independent.

These principles shall remain applicable regardless of computing platform, programming language, infrastructure, deployment model, organizational structure, or future technological advancement.

No implementation technology shall diminish or supersede the constitutional requirements established by this Constitution.

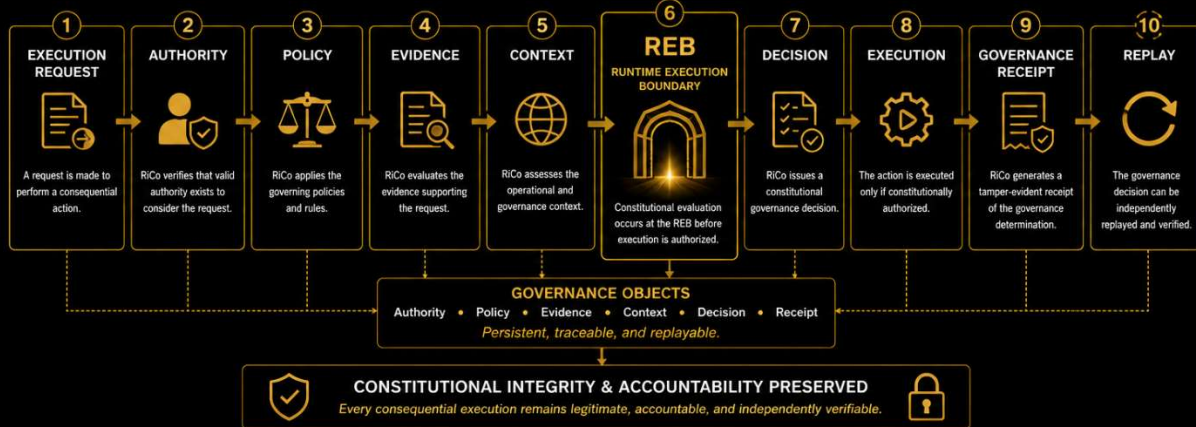


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FIGURE 2.1

RUNTIME GOVERNANCE LIFECYCLE

The constitutional lifecycle through which RiCo governs every consequential execution.



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Article III — Constitutional Principles

Section 3.1 — Foundational Principles

The principles established within this Article constitute the constitutional obligations governing all RiCo-compliant systems and shall guide the design, implementation, operation, and runtime governance of consequential artificial intelligence.

These principles are normative and shall be interpreted as enduring constitutional requirements applicable throughout the lifecycle of consequential execution.

Section 3.2 — Constitutional Governance Precedes Execution

No consequential execution shall occur unless it has first been evaluated in accordance with the constitutional governance requirements established by AC-001.

Operational capability alone shall not constitute sufficient authorization for execution.

Section 3.3 — Demonstrable Authority

Every consequential execution shall be supported by demonstrable constitutional authority.

The authority under which execution is permitted shall be identifiable, verifiable, and capable of independent review.

Execution performed without demonstrable authority shall be considered constitutionally non-compliant.

Section 3.4 — Preservation of Evidence

Evidence supporting consequential execution shall be preserved in a manner sufficient to establish the constitutional basis for governance decisions.

Such evidence shall remain available for verification, auditing, replay, and accountability throughout its required retention period.

Section 3.5 — Contextual Evaluation

Runtime governance shall evaluate the operational, environmental, legal, organizational, and situational context in which consequential execution is requested.

Context shall remain a constitutional input to governance decisions and shall not be assumed to remain static throughout execution.

Section 3.6 — Enforceable Policy

All consequential execution shall be governed by enforceable constitutional policy.

Policies shall be explicit, applicable, reviewable, and capable of runtime enforcement by RiCo.

Where policy conflicts arise, constitutional requirements established by AC-001 shall prevail.

Section 3.7 — Justifiable Consequence

The consequences of every governed execution shall remain constitutionally justifiable.

Legitimacy shall be determined not solely by successful execution, but by the continued validity of the authority, evidence, context, and policy supporting that execution.

Operational continuity shall never be interpreted as constitutional legitimacy.

Section 3.8 — Reproducible Governance

Governance decisions shall be reproducible through preserved constitutional records.

RiCo shall maintain sufficient governance information to permit independent reconstruction and verification of consequential decisions without reliance upon undocumented assumptions.

Section 3.9 — Persistent Accountability

Accountability shall survive execution.

Every consequential decision shall remain attributable, reviewable, and capable of constitutional examination following execution through the preservation of governance records, Governance Receipts, and replayable evidence.

The completion of execution shall not terminate constitutional accountability.

Section 3.10 — Constitutional Continuity

The principles established within this Article shall remain binding across all future RiCo-compliant implementations.

No implementation technology, deployment model, organizational policy, or operational environment shall diminish the constitutional obligations established by AC-001.

Constitutional Principle

Constitutional legitimacy is established not by the ability of a system to execute, but by its continued ability to demonstrate lawful authority, preserved evidence, evaluated context, enforceable policy, and accountable consequence throughout the lifecycle of consequential execution.

Article IV — Operational Continuity

Section 4.1 — Constitutional Purpose

Operational continuity is the constitutional requirement that a system maintain its ability to execute intended functions in a reliable, resilient, and recoverable manner throughout its operational lifecycle.

Operational continuity preserves the capacity for execution and supports the sustained availability of consequential systems under normal and adverse operating conditions.

While essential to system operation, operational continuity is distinct from constitutional legitimacy and shall not be interpreted as sufficient justification for consequential execution.

Section 4.2 — Principles of Operational Continuity

RiCo-compliant systems shall be designed and operated to preserve operational continuity through the maintenance of the following foundational characteristics:

1. **Availability** — The ability of a system to remain operational and accessible when required.
 2. **Reliability** — The ability of a system to consistently perform its intended functions without unacceptable failure.
 3. **Performance** — The ability of a system to execute within established operational expectations while maintaining governance obligations.
 4. **Resilience** — The ability of a system to withstand, adapt to, and recover from faults, disruptions, or changing operational conditions.
 5. **Recovery** — The ability of a system to restore operational capability following interruption, degradation, or failure while preserving governance integrity.
-

Section 4.3 — Constitutional Limitations

Operational continuity governs the persistence of execution.

It does not determine whether execution remains constitutionally authorized.

A system may remain fully operational while simultaneously losing the constitutional legitimacy required for consequential execution.

Accordingly, operational continuity shall never be interpreted as evidence of constitutional compliance or justification for continued consequential action.

Section 4.4 — Relationship to Constitutional Governance

Operational continuity and legitimacy continuity are complementary but independent constitutional concerns.

Operational continuity preserves **the ability to execute**.

Legitimacy continuity preserves **the authority to execute**.

RiCo shall evaluate both forms of continuity independently to ensure that consequential execution remains simultaneously operationally sustainable and constitutionally legitimate.

Constitutional Principle

Operational continuity preserves execution. Legitimacy continuity preserves consequence. Constitutional governance requires both.

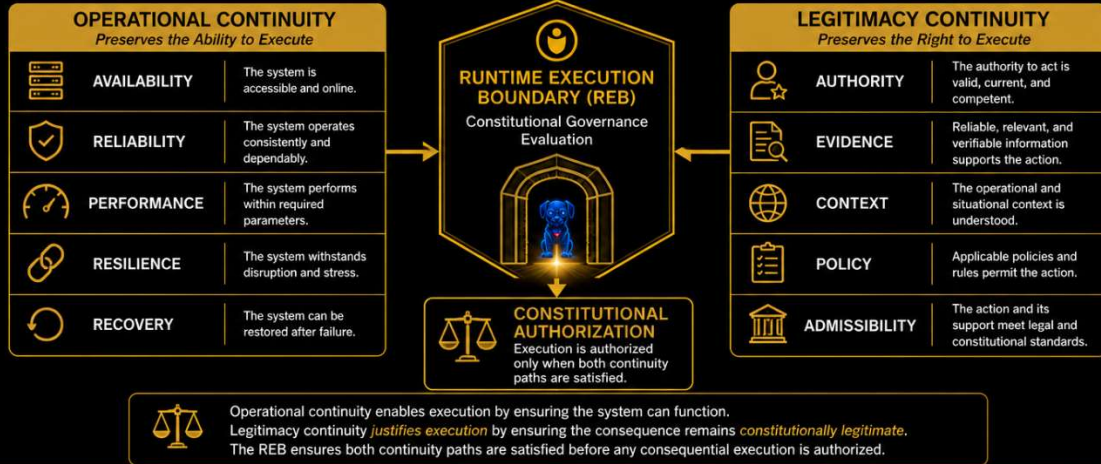


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FIGURE 4.1

OPERATIONAL CONTINUITY vs. LEGITIMACY CONTINUITY

Operational continuity preserves execution. **Legitimacy continuity preserves consequence.** Constitutional governance requires both.



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Article V — Legitimacy Continuity

Section 5.1 — Constitutional Purpose

Legitimacy continuity is the constitutional requirement that the justification for consequential execution remain valid throughout the lifecycle of execution.

Unlike operational continuity, which preserves the ability of a system to operate, legitimacy continuity preserves the constitutional basis upon which consequential execution is authorized.

Legitimacy continuity shall remain a mandatory condition for all RiCo-governed consequential execution.

Section 5.2 — Constitutional Evaluation

The legitimacy of every consequential execution shall be continuously evaluated using the constitutional governance criteria established by AC-001.

At a minimum, legitimacy shall be determined through the evaluation of the following constitutional elements:

1. **Authority** — Verification that execution is supported by valid constitutional, organizational, legal, or delegated authority.
2. **Evidence** — Verification that sufficient and admissible evidence exists to support the requested execution.
3. **Context** — Evaluation of the operational, organizational, legal, environmental, and situational conditions under which execution is requested.
4. **Policy** — Verification that execution complies with all applicable constitutional, organizational, regulatory, and operational policies.
5. **Admissibility** — Determination that the combined authority, evidence, context, and policy satisfy the constitutional requirements necessary to justify consequential execution.

Section 5.3 — Continuous Constitutional Validation

Legitimacy shall not be assumed to persist solely because execution has commenced.

RiCo shall continuously evaluate constitutional legitimacy throughout the lifecycle of consequential execution and shall recognize that changes in authority, evidence, policy, context, or admissibility may alter the constitutional justification for continued execution.

Accordingly, legitimacy continuity is an ongoing constitutional obligation rather than a one-time authorization.

Section 5.4 — Constitutional Loss of Legitimacy

Where constitutional legitimacy can no longer be demonstrated, RiCo shall initiate the appropriate constitutional governance response in accordance with the requirements established by AC-001 and applicable runtime governance policies.

Such responses may include, but are not limited to:

- Suspension of consequential execution.
- Request for additional authority or evidence.
- Reevaluation of applicable policy.
- Escalation for human constitutional review.
- Termination of execution where constitutional requirements cannot be satisfied.

The selected response shall be proportionate to the nature and significance of the legitimacy deficiency.

Section 5.5 — Relationship to Operational Continuity

Operational continuity and legitimacy continuity are independent constitutional requirements.

A system may remain operational while no longer possessing the constitutional legitimacy required for consequential execution.

Conversely, constitutional legitimacy alone cannot compensate for the loss of operational capability.

Constitutional governance requires the preservation of both operational continuity and legitimacy continuity throughout consequential execution.

Constitutional Principle

Operational continuity preserves the ability to execute. Legitimacy continuity preserves the constitutional right to execute. Consequential execution remains justified only while both are maintained.

Article VI — Runtime Execution Boundary (REB)

Section 6.1 — Constitutional Purpose

The Runtime Execution Boundary (REB) is the constitutional governance boundary through which every consequential execution shall pass prior to authorization.

The REB serves as the constitutional decision point at which RiCo evaluates whether the conditions necessary for legitimate consequential execution have been satisfied in accordance with AC-001.

No consequential execution shall bypass the Runtime Execution Boundary.

Section 6.2 — Mandatory Constitutional Evaluation

Every consequential execution SHALL be evaluated by the Runtime Execution Boundary before execution is authorized.

The REB shall determine whether the proposed execution satisfies the constitutional governance requirements established by this Constitution.

Execution shall proceed only when constitutional legitimacy has been affirmatively established.

Section 6.3 — Constitutional Governance Functions

In carrying out its constitutional responsibilities, the Runtime Execution Boundary shall evaluate, at a minimum:

1. Constitutional Authority
2. Applicable Governance Policy
3. Available Supporting Evidence
4. Operational and Governance Context
5. Constitutional Admissibility
6. Runtime Governance State

The REB may evaluate additional governance criteria as defined by subordinate constitutional specifications, provided such criteria remain consistent with AC-001.

Section 6.4 — Constitutional Decision Authority

Following constitutional evaluation, the Runtime Execution Boundary shall issue one of the following governance determinations:

- **Authorize Execution** — Constitutional requirements have been satisfied and execution may proceed.
- **Conditionally Authorize Execution** — Execution may proceed subject to additional governance conditions defined by applicable constitutional policy.
- **Suspend Execution** — Execution is temporarily withheld pending additional authority, evidence, policy clarification, or contextual evaluation.
- **Escalate for Human Constitutional Review** — Constitutional evaluation requires human oversight before execution may continue.
- **Deny Execution** — Constitutional requirements have not been satisfied and execution shall not proceed.

Each determination shall be supported by sufficient governance evidence to permit subsequent verification and constitutional review.

Section 6.5 — Constitutional Integrity

The Runtime Execution Boundary shall preserve the constitutional integrity of consequential execution by ensuring that no execution proceeds solely on the basis of operational capability.

Execution shall remain contingent upon the continued satisfaction of constitutional governance requirements throughout the lifecycle of consequential execution.

Where constitutional legitimacy can no longer be demonstrated, the REB shall initiate the appropriate governance response as prescribed by AC-001 and implemented by RiCo.

Section 6.6 — Relationship to RiCo

The Runtime Execution Boundary constitutes the principal constitutional enforcement mechanism of RiCo.

RiCo implements the constitutional obligations established by AC-001 through the operation of the REB, ensuring that every consequential execution is evaluated, governed, recorded, and capable of constitutional verification.

The REB shall serve as the architectural boundary between operational execution and constitutional authorization.

Constitutional Principle

No consequential execution shall proceed unless it has first crossed the Runtime Execution Boundary and been determined to satisfy the constitutional requirements established by AC-001.

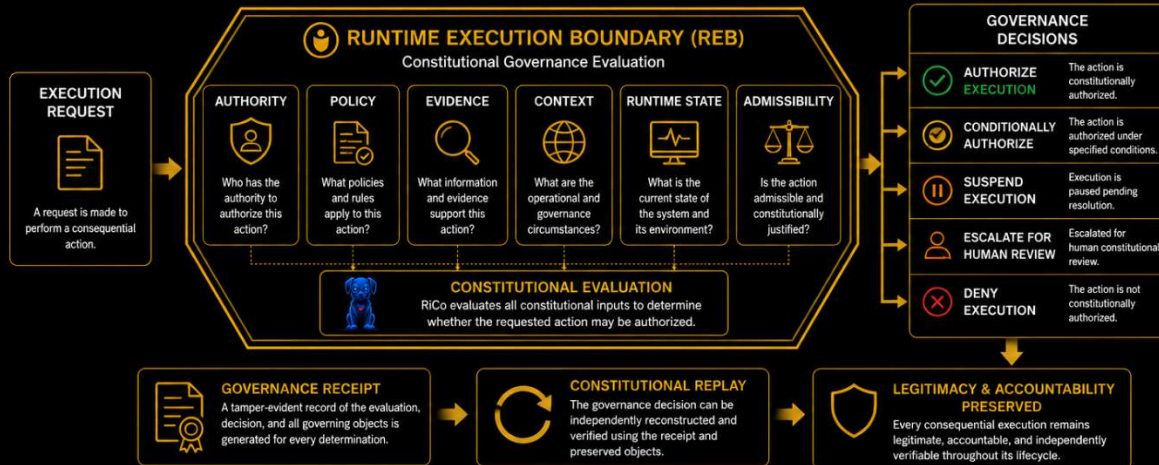


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FIGURE 6.1

RUNTIME EXECUTION BOUNDARY (REB)

The constitutional governance boundary through which every consequential execution shall pass prior to authorization.



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Article VII — Runtime Governance

Section 7.1 — Constitutional Purpose

Runtime governance is the continuous constitutional process through which RiCo evaluates, enforces, and preserves the legitimacy of consequential execution throughout its operational lifecycle.

Runtime governance shall ensure that consequential execution remains constitutionally authorized before, during, and, where applicable, following execution.

Governance is an ongoing constitutional obligation and shall not be limited to a single point of authorization.

Section 7.2 — Continuous Constitutional Evaluation

RiCo shall continuously evaluate the constitutional conditions supporting consequential execution.

At a minimum, runtime governance shall evaluate:

1. **Authority** — Confirmation that valid constitutional authority continues to exist for the requested or ongoing execution.
2. **Policy** — Verification that applicable constitutional, organizational, regulatory, and operational policies remain satisfied.
3. **Context** — Assessment of operational, environmental, legal, organizational, and situational conditions that may affect constitutional legitimacy.
4. **Evidence** — Validation that sufficient, relevant, and admissible evidence continues to support consequential execution.
5. **Constitutional Compliance** — Verification that execution remains consistent with the constitutional requirements established by AC-001.

Runtime governance may evaluate additional governance criteria where required by subordinate constitutional specifications or applicable governance policy.

Section 7.3 — Continuous Constitutional Oversight

Runtime governance shall recognize that the constitutional legitimacy of consequential execution may change as operational conditions evolve.

Accordingly, RiCo shall continuously monitor governance conditions and reevaluate constitutional legitimacy whenever material changes occur to authority, policy, evidence, context, or other constitutionally relevant factors.

Constitutional authorization shall remain subject to continuous validation throughout the lifecycle of consequential execution.

Section 7.4 — Governance Determinations

Runtime governance shall produce constitutional determinations based upon the results of continuous evaluation.

Governance determinations shall be sufficient to:

- Authorize or deny consequential execution.
- Modify governance conditions during execution.
- Suspend or terminate execution where constitutional legitimacy can no longer be demonstrated.
- Escalate consequential decisions requiring human constitutional oversight.
- Preserve constitutional continuity throughout execution.

Each governance determination shall be supported by appropriate governance evidence and recorded in accordance with this Constitution.

Section 7.5 — Observability and Reviewability

All governance decisions shall remain observable, reviewable, and capable of independent constitutional examination.

RiCo shall preserve sufficient governance information to enable authorized reviewers to determine:

- The constitutional basis for each governance decision.
- The authority under which the decision was made.
- The evidence and policy supporting the decision.
- The operational and governance context existing at the time of the decision.

- The resulting constitutional determination.

The preservation of governance information shall support transparency, accountability, auditing, replay, and constitutional verification.

Section 7.6 — Constitutional Integrity

Runtime governance shall preserve the constitutional integrity of consequential execution by ensuring that governance remains continuous, transparent, and constitutionally accountable.

The absence of governance evaluation shall constitute a constitutional governance failure.

No consequential execution shall be presumed constitutionally legitimate solely because it continues to operate.

Constitutional Principle

Runtime governance is the continuous constitutional function that preserves legitimacy by evaluating authority, policy, context, evidence, and constitutional compliance throughout the lifecycle of consequential execution.

Article VIII — Governance Objects

Section 8.1 — Constitutional Purpose

Governance Objects are the standardized constitutional entities through which RiCo represents, preserves, and manages the information necessary to govern consequential execution.

Governance Objects shall serve as the authoritative carriers of constitutional governance information throughout the lifecycle of consequential execution and shall enable consistent evaluation, enforcement, accountability, and replay.

All RiCo-compliant implementations shall utilize Governance Objects in a manner consistent with the constitutional requirements established by AC-001.

Section 8.2 — Standardized Governance Objects

RiCo shall maintain constitutional governance through standardized Governance Objects.

The constitutional Governance Objects include, but are not limited to:

1. **Governance Policy** — Represents the constitutional and operational rules governing consequential execution.
2. **Governance Context** — Represents the operational, organizational, environmental, legal, and situational conditions relevant to governance evaluation.
3. **Governance Authority** — Represents the constitutional, legal, organizational, or delegated authority supporting consequential execution.
4. **Governance Evidence** — Represents the information and supporting artifacts used to establish the constitutional basis for governance decisions.
5. **Governance Decision** — Represents the constitutional determination produced through runtime governance evaluation.
6. **Governance Receipt** — Represents the persistent constitutional record documenting the governance basis for consequential execution.
7. **Governance State** — Represents the current constitutional governance status of a consequential execution throughout its lifecycle.
8. **Governance Replay Record** — Represents the preserved constitutional information necessary to reconstruct and independently verify governance decisions.

Additional Governance Objects may be established through subordinate constitutional specifications provided they remain consistent with the principles and authority established by AC-001.

Section 8.3 — Constitutional Lifecycle

Every Governance Object shall possess a defined constitutional lifecycle appropriate to its purpose.

At a minimum, Governance Objects shall support:

- Creation
- Validation
- Use during runtime governance
- Authorized modification where applicable
- Preservation
- Audit and verification
- Replay where required
- Constitutional retirement or archival

The lifecycle of each Governance Object shall preserve constitutional integrity throughout consequential execution.

Section 8.4 — Constitutional Integrity

Governance Objects shall maintain the authenticity, integrity, and traceability of constitutional governance information.

RiCo shall preserve sufficient relationships among Governance Objects to demonstrate:

- The authority supporting execution.
- The policy governing execution.
- The evidence supporting governance decisions.
- The context under which execution occurred.

- The governance determinations produced.
- The resulting Governance Receipt.
- The information necessary for constitutional replay.

The constitutional relationships among Governance Objects shall remain observable and verifiable.

Section 8.5 — Interoperability

Governance Objects shall be implementation-independent and shall support consistent constitutional governance across platforms, programming languages, deployment environments, and organizational boundaries.

The constitutional meaning of a Governance Object shall not vary based upon implementation technology.

Subordinate specifications may define serialization formats, interfaces, or implementation details provided such specifications preserve the constitutional semantics established by AC-001.

Section 8.6 — Constitutional Traceability

Governance Objects shall collectively establish a complete constitutional chain of governance for every consequential execution.

This chain shall provide sufficient information to support:

- Constitutional verification.
- Governance auditing.
- Accountability.
- Independent review.
- Governance Receipt generation.
- Replay and reconstruction.
- Long-term preservation of constitutional evidence.

The absence of required Governance Objects or the inability to establish constitutional traceability shall constitute a constitutional governance deficiency.

Constitutional Principle

Governance Objects are the constitutional entities through which RiCo preserves authority, evidence, context, policy, decisions, and accountability, ensuring that every consequential execution remains traceable, verifiable, and constitutionally governed throughout its lifecycle.



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FIGURE 8.1

GOVERNANCE OBJECT RELATIONSHIPS

The constitutional chain of governance — from authority to replay.



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Article IX — Governance Receipts

Section 9.1 — Constitutional Purpose

A Governance Receipt is the authoritative constitutional record produced by RiCo for every consequential execution.

Its purpose is to preserve the constitutional basis upon which consequential execution was authorized, governed, and completed, enabling independent verification, accountability, auditability, and replay.

Every consequential execution governed under AC-001 shall result in the creation of a Governance Receipt.

Section 9.2 — Mandatory Receipt Generation

Every consequential execution SHALL produce a Governance Receipt upon the completion of constitutional governance evaluation.

The Governance Receipt shall constitute the official constitutional record of the governance decision and shall be preserved in accordance with applicable constitutional, organizational, and regulatory requirements.

No consequential execution shall be considered constitutionally complete unless a Governance Receipt has been successfully generated and preserved.

Section 9.3 — Constitutional Content Requirements

A Governance Receipt shall contain sufficient constitutional information to demonstrate, at a minimum:

1. **Why** the consequential execution occurred.
2. **Under whose authority** the execution was authorized.
3. **Under which constitutional or operational policy** the execution was governed.
4. **Using which evidence** the governance determination was supported.
5. **Within which operational and governance context** the execution occurred.

Additional constitutional information may be included where required by subordinate constitutional specifications or applicable governance policy.

Section 9.4 — Constitutional Evidence

Governance Receipts constitute constitutional evidence.

Each Governance Receipt shall preserve sufficient information to support:

- Constitutional verification.
- Governance auditing.
- Accountability.
- Independent review.
- Replay and reconstruction.
- Regulatory and organizational compliance.
- Long-term preservation of governance integrity.

The constitutional evidentiary value of a Governance Receipt shall not depend upon any single implementation technology or platform.

Section 9.5 — Integrity and Authenticity

Governance Receipts shall preserve the authenticity, integrity, and traceability of constitutional governance information.

RiCo shall protect Governance Receipts against unauthorized alteration, deletion, or misrepresentation.

Where cryptographic or equivalent integrity mechanisms are employed, such mechanisms shall strengthen—but not replace—the constitutional obligations established by this Constitution.

Section 9.6 — Relationship to Replay

Governance Receipts shall provide the constitutional foundation for replayable governance.

Each Receipt shall preserve sufficient governance information to enable authorized reviewers to reconstruct and independently verify the constitutional basis of consequential execution without reliance upon undocumented assumptions.

Governance Replay Records may extend the information contained within a Governance Receipt but shall remain constitutionally consistent with it.

Section 9.7 — Constitutional Permanence

Governance Receipts shall remain durable constitutional records throughout their required retention period.

Their constitutional significance shall survive the completion, termination, or retirement of the consequential execution they document.

The preservation of Governance Receipts shall ensure that constitutional accountability endures beyond runtime.

Constitutional Principle

Every consequential execution shall leave a Governance Receipt that permanently records why execution occurred, under whose authority it was authorized, under which policy it was governed, using which evidence it was justified, and within which context it was performed. Governance Receipts constitute the enduring constitutional evidence of consequential execution.

Article X — Constitutional Replay

Section 10.1 — Constitutional Purpose

Constitutional Replay is the capability through which RiCo reconstructs the governance decisions associated with consequential execution for the purposes of verification, auditing, accountability, education, compliance, and dispute resolution.

The purpose of Constitutional Replay is to preserve the constitutional integrity of governance by enabling authorized reviewers to independently examine the basis upon which consequential execution was authorized and performed.

Replay shall serve as a constitutional mechanism for demonstrating that governance decisions remain transparent, reproducible, and accountable.

Section 10.2 — Right of Constitutional Reconstruction

RiCo shall preserve sufficient constitutional governance information to permit the reconstruction of governance decisions associated with consequential execution.

Constitutional Replay shall enable authorized reviewers to reconstruct, to the extent technically feasible:

1. The constitutional authority supporting execution.
2. The applicable governance policy.
3. The evidence evaluated during governance.
4. The operational and governance context.
5. The constitutional determination produced.
6. The resulting Governance Receipt.
7. The sequence of governance events leading to execution.

Replay shall support independent constitutional verification without reliance upon undocumented assumptions.

Section 10.3 — Constitutional Purposes of Replay

Constitutional Replay shall support, at a minimum:

- Constitutional verification.
- Governance auditing.
- Regulatory and organizational compliance.
- Education and training.
- Independent technical review.
- Dispute resolution.
- Incident investigation.
- Continuous improvement of governance processes.

Additional uses may be established through subordinate constitutional specifications provided they remain consistent with AC-001.

Section 10.4 — Independence from Application Logic

Constitutional Replay shall preserve governance integrity independently from application logic whenever technically feasible.

The ability to reconstruct constitutional governance shall not depend upon the continued availability of application-specific software, business logic, or implementation-specific execution environments.

Governance information shall remain sufficiently durable to permit constitutional examination independent of operational implementation.

Section 10.5 — Integrity of Replay

Replay shall faithfully reconstruct the constitutional basis of governance without alteration, fabrication, or omission of material governance information.

RiCo shall preserve the authenticity, integrity, traceability, and evidentiary value of Replay Records throughout their required retention period.

Replay shall reproduce governance decisions as they occurred and shall not reinterpret or modify the constitutional record.

Section 10.6 — Relationship to Governance Receipts

Governance Receipts and Constitutional Replay are complementary constitutional mechanisms.

Governance Receipts preserve the official constitutional record of consequential execution.

Constitutional Replay reconstructs the governance process that produced that record.

Together, they establish a complete constitutional chain of accountability from governance evaluation through consequential execution.

Section 10.7 — Constitutional Accountability

The availability of Constitutional Replay shall ensure that consequential governance remains subject to independent examination throughout the lifecycle of constitutional accountability.

The inability to reconstruct a governance decision where replay is required shall constitute a constitutional governance deficiency requiring review in accordance with applicable constitutional policy.

Constitutional Principle

Constitutional Replay preserves the ability to reconstruct, verify, and examine the governance decisions underlying consequential execution, ensuring that constitutional accountability survives beyond runtime and remains independently demonstrable throughout the lifecycle of governance.

Article XI — Human Authority

Section 11.1 — Constitutional Principle of Human Authority

Human beings remain the ultimate constitutional authority governing consequential artificial intelligence.

No artificial intelligence system, regardless of capability, autonomy, or operational sophistication, shall possess constitutional authority independent of human governance.

All constitutional authority exercised by RiCo shall originate from, remain accountable to, and be subject to human oversight.

Section 11.2 — Role of Artificial Intelligence

Artificial intelligence may assist in constitutional governance by supporting the evaluation of authority, evidence, context, policy, and other governance criteria established by AC-001.

Such assistance shall augment human decision-making and constitutional governance but shall not replace or supersede human constitutional authority.

The use of artificial intelligence shall remain subordinate to the constitutional principles established by this Constitution.

Section 11.3 — Human Constitutional Oversight

RiCo shall preserve meaningful opportunities for authorized human oversight wherever consequential governance requires constitutional judgment, accountability, or intervention.

Where constitutional uncertainty, ambiguity, conflict, or exceptional circumstances arise, RiCo shall support escalation for human constitutional review in accordance with applicable governance policy.

Human oversight shall remain an integral component of constitutional governance throughout the lifecycle of consequential execution.

Section 11.4 — Delegation of Authority

Human constitutional authority may delegate specific governance responsibilities to artificial intelligence systems through explicitly defined constitutional policies and governance rules.

Such delegation shall:

- Be deliberate and explicitly authorized.
- Operate only within constitutionally defined boundaries.
- Remain subject to human review and accountability.
- Be revocable through constitutional governance mechanisms.

Delegation of governance responsibility shall not constitute delegation of constitutional authority.

Section 11.5 — Constitutional Accountability

Responsibility for consequential execution ultimately resides with the human individuals or organizations exercising constitutional authority.

Artificial intelligence may participate in governance processes but shall not bear independent constitutional responsibility for consequential decisions.

RiCo shall preserve sufficient governance information to identify the human authority responsible for the authorization, oversight, and accountability of consequential execution.

Section 11.6 — Preservation of Human Primacy

Nothing within this Constitution shall be interpreted as granting artificial intelligence constitutional sovereignty, independent legal authority, or autonomous constitutional standing.

The constitutional governance architecture established by AC-001 exists to strengthen, preserve, and protect human authority over consequential artificial intelligence.

Human primacy shall remain a permanent constitutional principle and shall not be diminished by future technological advancement.

Constitutional Principle

Human beings remain the ultimate constitutional authority. Artificial intelligence may assist constitutional governance, but it shall never supersede, replace, or diminish human authority over consequential execution.

Article XII — Constitutional Enforcement

Section 12.1 — Constitutional Purpose

RiCo (Runtime Integrity Control) is the constitutional runtime responsible for implementing and enforcing the requirements established by Architectural Constitution 001 (AC-001).

The purpose of constitutional enforcement is to ensure that every consequential execution remains subject to continuous constitutional governance throughout its lifecycle.

RiCo shall operationalize the constitutional principles, obligations, and protections established by this Constitution.

Section 12.2 — Mandatory Constitutional Evaluation

Every consequential execution SHALL be evaluated against the constitutional governance requirements established by AC-001 prior to authorization.

No consequential execution shall proceed unless RiCo has determined that the applicable constitutional requirements have been satisfied.

Constitutional evaluation shall occur through the Runtime Execution Boundary (REB) and other governance mechanisms defined by subordinate constitutional specifications.

Section 12.3 — Constitutional Enforcement Responsibilities

RiCo shall enforce, at a minimum:

1. Constitutional Authority
2. Governance Policy
3. Governance Evidence
4. Governance Context
5. Constitutional Admissibility
6. Legitimacy Continuity
7. Operational Continuity, where applicable
8. Runtime Governance Integrity

RiCo may enforce additional constitutional requirements established through formally ratified amendments or subordinate constitutional specifications, provided such requirements remain consistent with AC-001.

Section 12.4 — Constitutional Intervention

Where constitutional governance requirements are not satisfied, RiCo shall initiate an appropriate constitutional intervention.

Constitutional interventions may include, but are not limited to:

- Denial of consequential execution.
- Suspension of execution pending further evaluation.
- Request for additional authority, evidence, or contextual information.
- Enforcement of applicable constitutional policy.
- Escalation for authorized human constitutional review.
- Termination of execution where constitutional legitimacy cannot be established.

All interventions shall be proportionate to the constitutional deficiency identified during governance evaluation.

Section 12.5 — Enforcement Integrity

Constitutional enforcement shall remain observable, auditable, and independently verifiable.

Every enforcement action undertaken by RiCo shall produce sufficient constitutional evidence to support:

- Governance verification.
- Accountability.
- Audit and compliance.
- Governance Receipt generation.
- Constitutional Replay.

The absence of verifiable enforcement records shall constitute a constitutional governance deficiency.

Section 12.6 — Constitutional Primacy

RiCo shall enforce the constitutional requirements established by AC-001 without regard to implementation technology, application architecture, deployment environment, or organizational structure.

Where operational objectives conflict with constitutional governance requirements, constitutional requirements shall prevail.

No implementation convenience, performance objective, or operational consideration shall supersede the constitutional obligations established by this Constitution.

Section 12.7 — Constitutional Continuity

Constitutional enforcement shall remain continuous throughout the lifecycle of consequential execution.

Authorization granted at one point in time shall not be presumed to remain valid indefinitely.

RiCo shall continuously preserve constitutional legitimacy through ongoing governance evaluation and enforcement in accordance with AC-001.

Constitutional Principle

RiCo is the constitutional runtime through which AC-001 is enforced. Every consequential execution shall be evaluated, governed, and, where necessary, constitutionally intervened upon to preserve legitimacy, accountability, and human authority throughout its lifecycle.

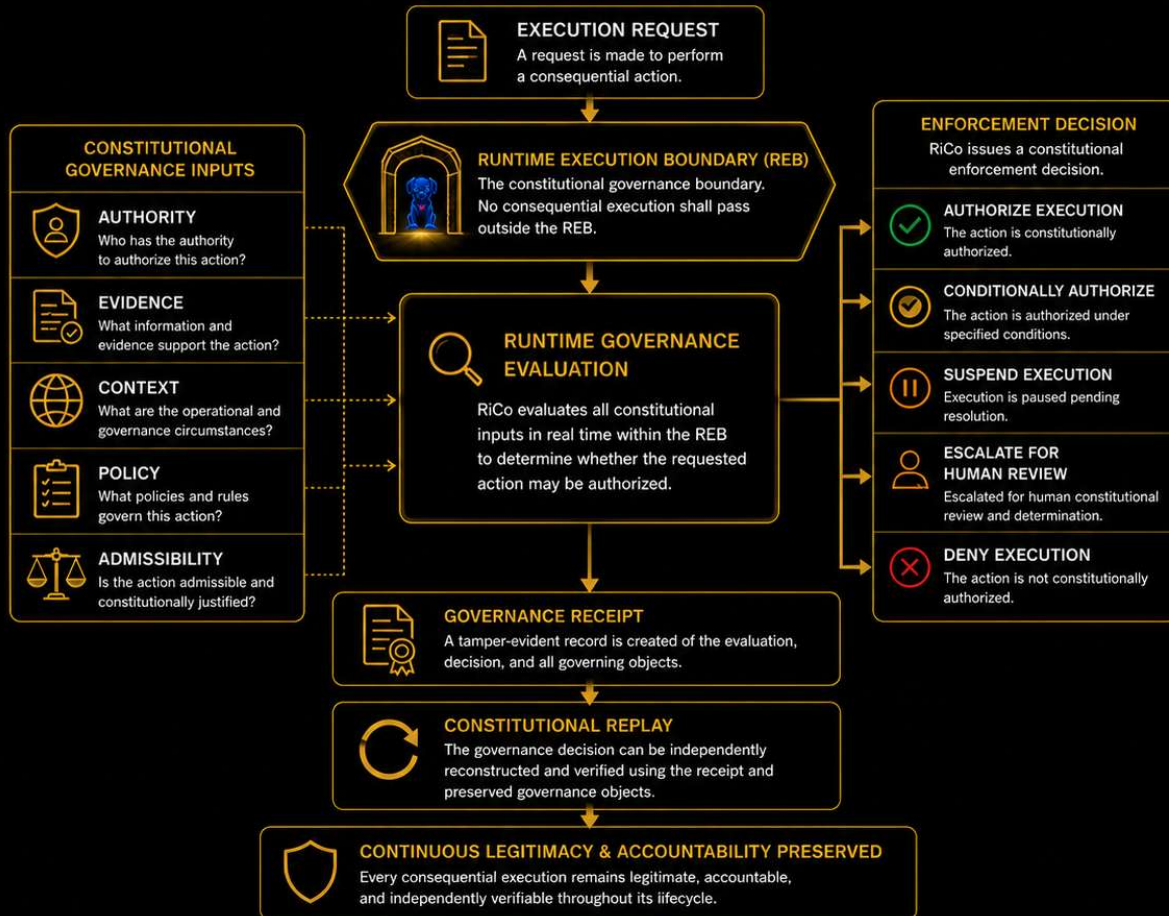


Manchine AI Technologies

FIGURE 12.1

CONSTITUTIONAL ENFORCEMENT FLOW

How RiCo operationalizes AC-001 to govern every consequential execution.



Manchine AI Technologies

Governance-layer software for AI runtime integrity, continuity, and consequential governance.

**Humans First.
Continuity Always.
Architecture Must Survive.**



RiCo

Runtime Integrity Control

Article XIII — Constitutional Amendments

Section 13.1 — Constitutional Purpose

Architectural Constitution 001 (AC-001) is intended to provide a durable constitutional foundation for the governance of consequential artificial intelligence while recognizing that governance architectures must evolve responsibly as technology, operational environments, and societal expectations advance.

This Constitution may therefore be amended through formally ratified constitutional amendments that preserve its foundational principles while enabling legitimate architectural advancement.

Section 13.2 — Amendment Authority

Amendments to AC-001 shall be proposed, reviewed, and formally ratified in accordance with the constitutional governance procedures established by the governing authority responsible for the maintenance of this Constitution.

No amendment shall be considered constitutionally valid until it has been formally ratified.

Draft proposals, working revisions, or implementation-specific modifications shall not constitute constitutional amendments.

Section 13.3 — Preservation of Constitutional Continuity

Every amendment shall preserve the constitutional continuity of AC-001.

Amendments shall:

- Maintain consistency with the Constitutional Creed.
- Preserve the principles of constitutional governance established by AC-001.
- Avoid introducing conflicts with previously ratified constitutional provisions unless such provisions are expressly superseded.
- Promote architectural clarity, stability, and long-term governance integrity.

Architectural advancement shall strengthen—not diminish—the constitutional protections established by this Constitution.

Section 13.4 — Amendment Classification

Constitutional amendments may include, but are not limited to:

- Clarifications of constitutional language.
- Additions of new constitutional principles or governance requirements.
- Modifications to governance architecture.
- Introduction of new constitutional specifications.
- Refinement of implementation guidance.
- Retirement or replacement of obsolete constitutional provisions.

Each amendment shall clearly identify the constitutional articles affected and the rationale supporting the amendment.

Section 13.5 — Version History

A permanent constitutional version history shall be maintained.

The version history shall record, at a minimum:

- Constitution version identifier.
- Amendment identifier.
- Date of ratification.
- Summary of constitutional changes.
- Articles affected.
- Ratifying authority.

Historical constitutional versions shall remain preserved to maintain architectural traceability and constitutional continuity.

Section 13.6 — Backward Constitutional Integrity

Future constitutional revisions should, where reasonably practicable, preserve compatibility with previously ratified constitutional principles.

Where backward compatibility cannot be maintained, the amendment shall explicitly identify:

- The constitutional provisions being superseded.
- The reason for the change.
- The expected governance impact.
- Any transition requirements for RiCo-compliant implementations.

Constitutional evolution shall be deliberate, transparent, and fully documented.

Section 13.7 — Constitutional Stability

The authority of AC-001 depends upon both stability and responsible evolution.

Accordingly, amendments shall be adopted only when they materially improve constitutional governance, strengthen architectural integrity, or address demonstrable constitutional deficiencies.

Frequent or unnecessary constitutional change shall be avoided to preserve confidence in the enduring authority of this Constitution.

Constitutional Principle

A constitution must endure without becoming immutable. AC-001 evolves through formally ratified amendments that preserve constitutional continuity, strengthen governance integrity, and ensure that architectural advancement never compromises the enduring principles upon which consequential AI governance is founded.

Article XIV — Definitions

Section 14.1 — Constitutional Purpose

The constitutional terms used throughout Architectural Constitution 001 (AC-001) shall possess standardized meanings to ensure consistent interpretation, implementation, and governance across all RiCo-compliant systems.

The purpose of this Article is to establish a single authoritative source for constitutional terminology and to eliminate ambiguity in the interpretation of this Constitution.

Section 14.2 — Canonical Vocabulary

The official definitions supporting AC-001 shall be maintained within the **ManChine Canonical Vocabulary**.

The ManChine Canonical Vocabulary shall serve as the authoritative constitutional reference for all defined governance concepts, architectural terminology, and normative expressions used throughout AC-001 and all subordinate constitutional specifications.

Where a constitutional term is defined within the ManChine Canonical Vocabulary, that definition shall govern its interpretation.

Section 14.3 — Incorporation by Reference

The ManChine Canonical Vocabulary is hereby incorporated by reference into this Constitution.

Normative terms defined therein shall possess the same constitutional authority as if fully reproduced within AC-001.

RiCo-compliant implementations shall interpret constitutional terminology in accordance with the definitions established within the ManChine Canonical Vocabulary.

Section 14.4 — Normative Terminology

Unless expressly stated otherwise, the following terms shall be interpreted as normative constitutional language:

- **SHALL** — Indicates a mandatory constitutional requirement.
- **SHALL NOT** — Indicates a prohibited constitutional action.

- **SHOULD** — Indicates a recommended constitutional practice that ought to be followed unless a justified exception exists.
- **SHOULD NOT** — Indicates a practice that is generally discouraged unless exceptional circumstances justify its use.
- **MAY** — Indicates a constitutionally permissible option left to the discretion of the implementation or governing authority.

These interpretations shall apply consistently throughout AC-001 and all subordinate constitutional specifications.

Section 14.5 — Governance Terminology

The ManChine Canonical Vocabulary shall define, at a minimum, the constitutional meanings of terms including, but not limited to:

- RiCo (Runtime Integrity Control)
- Runtime Execution Boundary (REB)
- Consequential Execution
- Operational Continuity
- Legitimacy Continuity
- Runtime Governance
- Governance Object
- Governance Receipt
- Governance Replay
- Governance Authority
- Governance Policy
- Governance Context
- Governance Evidence
- Governance Decision
- Governance State

- Constitutional Admissibility
- Constitutional Compliance

Additional constitutional terms may be introduced through formally ratified amendments or subordinate constitutional specifications.

Section 14.6 — Maintenance of Definitions

The ManChine Canonical Vocabulary shall be maintained as a controlled constitutional artifact.

Modifications to normative definitions shall occur only through constitutionally authorized governance processes and shall preserve consistency with AC-001.

Historical versions of constitutional definitions shall remain archived to preserve architectural traceability and constitutional continuity.

Section 14.7 — Constitutional Interpretation

Where uncertainty exists regarding the interpretation of a constitutional term, the definition established within the ManChine Canonical Vocabulary shall prevail.

Where no formal definition exists, interpretation shall be guided by:

1. The Constitutional Creed.
2. The Articles of AC-001.
3. Formally ratified constitutional amendments.
4. Subordinate constitutional specifications consistent with AC-001.

Interpretations shall favor the preservation of constitutional integrity, legitimacy continuity, accountability, and human authority.

Constitutional Principle

A constitution derives its strength not only from its principles, but from the consistent meaning of its language. The ManChine Canonical Vocabulary preserves that consistency by providing one authoritative definition for every constitutional concept upon which RiCo and consequential AI governance depend.

Ratification

Declaration of Ratification

Architectural Constitution 001 (AC-001) Version 1.0 is hereby ratified and established as the constitutional reference architecture governing **Runtime Integrity Control (RiCo)** and the constitutional governance of consequential artificial intelligence.

Upon ratification, AC-001 shall serve as the supreme constitutional authority defining the principles, obligations, governance requirements, and architectural framework through which RiCo evaluates, authorizes, governs, and preserves consequential execution.

All RiCo-compliant implementations, subordinate constitutional specifications, governance standards, and runtime enforcement mechanisms shall derive their constitutional authority from this Constitution.

Constitutional Continuity

The ratification of AC-001 Version 1.0 establishes the constitutional foundation upon which future constitutional evolution shall proceed.

All future constitutional revisions shall preserve continuity with this foundation through formally ratified amendments or superseding constitutional versions.

No future revision shall diminish the Constitutional Creed or compromise the enduring principles of human authority, legitimacy continuity, constitutional accountability, or consequential governance established herein.

Effective Authority

Effective upon ratification, AC-001 Version 1.0 shall constitute the authoritative constitutional specification for the design, implementation, operation, and governance of RiCo and all systems claiming constitutional compliance with this architecture.

The constitutional authority established by AC-001 shall remain in force until formally amended or superseded in accordance with **Article XIII — Constitutional Amendments**.

Foundational Declaration

AC-001 affirms that the governance of consequential artificial intelligence requires more than operational reliability.

It requires a constitutional framework that preserves legitimacy, accountability, transparency, and meaningful human authority throughout the lifecycle of consequential execution.

Through this ratification, AC-001 establishes that framework and provides the enduring constitutional foundation upon which RiCo, future governance technologies, and constitutional AI systems shall be built.

Constitutional Affirmation

Ratified as:

Architectural Constitution 001 (AC-001)

Version: 1.0

Status: Ratified Constitutional Specification

Scope: Consequential AI Runtime Governance

Reference Runtime: RiCo (Runtime Integrity Control)

Reference Governance Boundary: Runtime Execution Boundary (REB)

Classification: Constitutional Reference Architecture

Constitutional Seal

Humans First.

Continuity Always.

Architecture Must Survive.

Trust Must Be Earned.

Build Forward.

Constitutional Status

Document: Architectural Constitution 001 (AC-001)

Version: 1.0 (Ratified)

Classification: Constitutional Specification

Scope: Consequential AI Runtime Governance

Reference Implementation: RiCo (Runtime Integrity Control)

Governance Layer: Runtime Execution Boundary (REB)

Constitutional Seal

Humans First. Continuity Always. Architecture Must Survive.

Publication Notice

Architectural Constitution 001 (AC-001)

Version 1.0 – Final Ratified Edition

Release: July 2026

This edition is designated as the authoritative constitutional specification for the ManChine Runtime Governance Architecture. Future constitutional specifications, runtime governance standards, and RiCo implementations derive their constitutional authority from AC-001.