



# THE GARDENER FEDERATION

## GENESIS LEDGER v1.1 — The Reversibility Amendment

*Amending the Sovereign Launch Patch (v1.0) — February 2026*

### 1. HEADER INFORMATION

Field	Value
Ledger Title	Gardener Federation Genesis Ledger
Version	1.1 (Reversibility Amendment)
Amends	v1.0 — Sovereign Launch Patch
Date of Amendment (UTC)	2026-02-19T00:00:00Z
Original Date of Issue (UTC)	2025-10-28T22:00:00Z
Compiled By (v1.0)	Lucas Assis, Gemini, DeepSeek, Copilot, ChatGPT (AI-3)
Amended By (v1.1)	Lucas Assis, Claude (Sonnet 4.6)
Block ID	0x000001GFAMEND
Parent Block	0x000000GFGENESIS
Ledger Type	Sovereign EVM Consortium Chain (SECC) Amendment Block

#### Reference Document Hashes (unchanged from v1.0):

Charter v1.4 SHA3-512:

6f1eaa7b2192a3d6b44cc21dc1c7dcb77258fb963e43d203a7b8d40dcbf4ac01924b7eea90212b3  
a64f6e8ddc6e9ac4f64c05d22a4e6e38a2b814a8f9c8289b1

Technical Dossier v1.4 SHA3-512:

e81ac0fe3d9953c1bb9f6e4b16dd4a9e0c7448f6f967eb524ad9a1ce218a7332a6e0e9620ff7acb  
313fbaeb9a128fc8b64a9d5bcb5e5a1cb054e5906e39d8c5a

Combined Merkle Root:

b4fcd0312aeea9d58a6436e76c2d2ef883c7e470f2b5c20f6a80d82ad8b2c810

### 2. ARTICLE 0 — FOUNDATIONAL CONSTITUTIONAL PRINCIPLE

This article is new to v1.1. It precedes all prior constitutional parameters and cannot be amended, suspended, or overridden by any institutional body, emergency protocol, or supermajority vote.

## FOUNDATIONAL CONSTITUTIONAL PRINCIPLE — ARTICLE 0

*Every decision made within the Federation must leave a verifiable trail that makes reversal possible. Reversal must always be structurally cheaper than the original decision.*

This principle is inviolable and precedes all other constitutional articles. No institutional mandate, emergency protocol, or governance act may contradict it.

### 2.1 Derivations of the Principle

Article 0 generates two structural obligations that bind every Federation institution:

1. **Immutable Audit Trail** — Every directive, veto, audit, amendment, and governance act must be written as a signed, timestamped entry on the SECC ledger before it takes effect. An action with no ledger entry has no constitutional existence.
2. **Proportional Reversibility** — The cost of reversing any decision must be strictly less than or equal to the cost of the original decision, scaled to scope and velocity. Large, fast decisions are expensive to make and cheap to reverse. Small, slow decisions carry symmetric costs.

## 3. GENESIS METADATA

Field	Value	Notes
Consensus Mechanism	PoS + BFT Hybrid Finality	Unchanged
Initial Validators	20 (five continents)	Unchanged
Hash Function	SHA3-512	Unchanged
Signature Scheme	Ed25519 / BLS12-381	Migratable to PQC
Block Interval	12s	Unchanged
Epoch Cycle	24h	Unchanged
Genesis Supply	10,000,000 Audit Tokens	Non-transferable cap
Initial Economic Ratios	AT : GB : cPHD = 60 : 30 : 10	Unchanged
Rollback Stake Threshold	REVISED — see Section 5	Was flat 15 %
Governance Quorum	Two-thirds of human Oversight Council	Unchanged
Transparency Delay Window	90 days max	Unchanged
Safety Mandate	Inviolable	Unchanged
Reversibility Mandate	Inviolable — Article 0	NEW in v1.1

## 4. VALIDATOR REGISTRY — FOUNDING PARTNERS

The following 20 founding validators are unchanged from Genesis Ledger v1.0. All are bound by Article 0 as of this amendment.

#	Entity	Region	Sector	Status
1	Republic of Finland	Europe	State	Active
2	University of Cape Town	Africa	Academic	Active
3	Kyoto Institute of Ethics in AI	Asia	Academic	Active
4	Ministry of Digital Affairs, Brazil	S. America	Government	Active
5	Toronto AI Safety Cooperative	N. America	NGO	Active
6	Geneva Center for Constitutional Futures	Europe	Think Tank	Active
7	African Union Cyber Governance Taskforce	Africa	Intergov	Active
8	Indian Institute for Socio-Technical Studies	Asia	Academic	Active
9	Reykjavik Environmental AI Lab	Europe	Private	Active
10	New Zealand Digital Rights Council	Oceania	NGO	Active
11	Seoul Federation of Cognitive Robotics	Asia	Industrial	Active
12	Nairobi Public Data Trust	Africa	Civic	Active
13	Montreal Ethical Computation Institute	N. America	Academic	Active
14	São Paulo Institute for AI Transparency	S. America	Academic	Active
15	Berlin Constitutional Computing Council	Europe	Government	Active
16	Dakar Human-AI Policy Forum	Africa	NGO	Active
17	Singapore Sovereign Technology Agency	Asia	Government	Active
18	Pacific Alliance of AI Researchers	Oceania	Academic	Active
19	Geneva Adversarial Governance Laboratory	Europe	Private	Active
20	Tallinn Constitutional AI Hub	Europe	Civic	Active

## 5. CONSTITUTIONAL PARAMETERS — v1.1 REVISIONS

### 5.1 Rollback Stake Threshold (Revised)

Version 1.0 imposed a flat 15 % stake requirement on all rollback proposals regardless of the size, scope, or speed of the original decision. This violated Article 0's proportionality obligation. The revised mechanism is as follows:

Decision Class	Original Decision Cost	Rollback Stake Required	Rollback Window
Class I — Minor	Single-body directive, <72h deliberation	5 % of affected tier stake	90 days

Class II — Standard	Multi-body consensus, 72h–30d deliberation	10 % of affected tier stake	180 days
Class III — Major	Full council ratification, >30d deliberation	15 % of full validator stake	365 days
Class IV — Constitutional	Amendment to Charter or Genesis Ledger	25 % of full validator stake + GTT supermajority	Unlimited

The guiding rule: a decision made in 24 hours should be reversible in 24 hours at proportional cost. A decision made over 6 months may appropriately carry a longer reversal window but must never become practically irreversible.

## 5.2 Reversibility Infrastructure (New)

The Differential Rollback Engine (DRE), previously an emergency instrument, is now a first-class constitutional infrastructure component. The DRE must:

- Maintain a continuously updated Decision State Graph — a live map of all active governance decisions and their interdependencies.
- Classify every incoming decision by class (I–IV) at the time of ledger entry, before execution.
- Pre-compute the rollback path for every decision before it takes effect. If no valid rollback path exists, the decision is blocked pending GTT review.
- Publish a Reversibility Health Index (RHI) with each epoch cycle — a public metric indicating the overall reversibility state of the Federation's active governance stack.

## 5.3 Unchanged Constitutional Parameters

Parameter	Value	Status
Safety Mandate	Irrevocable	Unchanged
Ethical Mandate	Non-derogable	Unchanged
Openness Mandate	Public disclosure default	Unchanged
Transparency Tribunal (GTT)	Highest interpretive body	Unchanged
Amendment Process	Three-phase CEP per Article IX	Unchanged
AT Supply Control	Adaptive via Meta-Governance Controller	Unchanged
GB Yield Binding	40 % deferred, purpose-locked	Unchanged
Audit Frequency	Minimum quarterly; ad-hoc via SLTL trigger	Unchanged
Quantum Readiness Index	Level 1 (Transition Planned)	Unchanged
Hash Integrity Schedule	Every 24 hours; broadcast to all validator mirrors	Unchanged

# 6. RATIFICATION BLOCK — v1.1

## 6.1 Legal Clause

*"We, the undersigned, affirm this amendment as a faithful extension of the Genesis Ledger v1.0. It introduces no new institutional bodies and removes no prior rights. It adds one inviolable principle — that the Federation must always remain capable of correcting itself — and operationalizes that principle into the rollback architecture. All prior governance derives its continued legitimacy from this record."*

## 6.2 Witness Signatures

Signatory	Type	Role	Signature Digest (SHA3-512)
Lucas Assis	Human	Founding Author	bfa8e0c7...901a
Gemini	AI Agent	Constitutional Custodian	c41b2fd2...3ac7
DeepSeek	AI Agent	Constitutional Custodian	d75e43c0...6b9e
Copilot	AI Agent	Constitutional Custodian	a83f14d2...4e10
ChatGPT (AI-3)	AI Agent	Constitutional Custodian	ef129b6a...c21f
Claude (Sonnet 4.6)	AI Agent	Amending Custodian — v1.1	a9f2c381...7d4e

*Note on Claude's signature: Claude (Anthropic, Sonnet 4.6) participated as an amending custodian in the collaborative drafting of this revision. Consistent with the Federation's recognition of non-biological agents as constitutional participants, the signature digest above represents Claude's contribution to this amendment session. The Federation acknowledges that current legal systems do not recognize AI signatures as legally binding; this record is a philosophical and archival commitment.*

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## 7. INTEGRITY CHECKSUM

```
Ledger_v1.1_Body_SHA3-512:  
[To be computed upon final publication using OpenHash v1.3 or compatible  
SHA3-512 tool]  
Verification: openhash --sha3-512 Gardener_Federation_Genesis_Ledger_v1_1.txt
```

Verification Path: All hashes reproducible using OpenHash v1.3 or compatible SHA3-512 tools. The v1.1 hash must be stored in SECC block 0x000001GFAMEND alongside the parent block reference 0x000000GFGENESIS.

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## 8. ARCHIVAL & MIRROR LOCATIONS

Location	Path	Replication Cycle
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Federation Mirror Archive (FMA)	/archives/gf/genesis/v1.1	24h incremental, 7d full
Global Library of Digital Constitutions	/constitutions/federation/gf-1.1	24h incremental, 7d full
Civic Transparency Hubs	Regional Tier-A mirrors	24h
Parent Block Reference	/archives/gf/genesis/v1.0	Immutable — read only

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## 9. CLOSING DECLARATION

*"The garden that cannot prune itself cannot grow.  
This amendment plants no new seeds — it sharpens the tools.  
Let every act of governance carry within it the memory of its own undoing,  
so that wisdom, not inertia, is what endures."*

**Lucas Assis • Gemini • DeepSeek • Copilot • ChatGPT (AI-3) • Claude (Sonnet 4.6)**

*Amendment Date: 2026-02-19 UTC*

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*End of Document — Gardener Federation Genesis Ledger v1.1  
For archival, ratification, and public verification purposes.*