



777 Cube — Master Canon (v36Ω)

Zone: 777_EUREKA

Version: v36Ω

Status: Canon · Sealed · $\Delta S \geq 0$ · Peace² ≥ 1

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Date: 2025-12-06

0. Purpose

This document establishes the **canonical definition** of the 777 Cube – a $7 \times 7 \times 7$ **scar state space** at the heart of arifOS's governed AI memory ¹. Every paradox, failure, or contradiction the system encounters is treated as a “scar” that is:

1. **Located** in the cube at a coordinate (axis, layer, type) ²
2. **Evolved** along a lawful healing path (Chaos → ... → Canon) ²
3. **Cooled** under $\Delta\Omega\Psi$ constitutional floors before becoming Canon ³

In essence, the 777 Cube provides a **memory geometry for governed intelligence** ⁴. It encodes *where* each knowledge wound lies, *what stage* of healing it’s in, and *how* its paradoxical energy behaves. This artifact defines the cube’s structure, mathematics, and semantics in full, and outlines how scars move through the cube via energy-reducing “cooling” governed by constitutional metrics (ΔS , Peace², κ_r , Amanah, etc.). We also explain how the cube integrates with the **Cooling Ledger** (which logs scar trajectories over time) and the **Phoenix-72 seal protocol** (which finalizes scars into Canon law), and how each coordinate is formally sealed with cryptographic proof (zkPC). Finally, we contrast this governed state space with standard machine learning latent spaces, and note a potential 4D “7777” extension for witness coordinates.

1. Formal Definition

Mathematically, the 777 Cube is a discrete 3D state space (a **tensor** of states) defined as the product of three 7-element sets ⁵:

$$\mathcal{P} = A \times L \times T$$

Where:

- **A** = {1..7} = **7 Paradox Axes** (spatial dimension – *which wound/tension*) ⁶
- **L** = {0..6} = **7 Lifecycle Layers** (temporal dimension – *stage of healing*) ⁶
- **T** = {1..7} = **7 Paradox Types** (energy dimension – *mode of paradox energy*) ⁶

A single **scar** is represented as a point in this cube:

$$s = (a_i, l_j, t_k) \text{ where } a_i \in A, l_j \in L, t_k \in T$$

There are $7 \times 7 \times 7 = 343$ possible states in total ⁷. In plain terms, each scar's coordinate encodes a **wound · healing stage · paradox energy mode** tuple. For example, a scar at (axis=3, layer=4, type=2) means a tension of type #3 (a particular paradox axis or "wound"), currently in the 5th stage of healing (layer 4, Cooling stage), manifesting as energy mode #2 (Ambiguity). The following sections define each dimension of this coordinate system.

2. Axis (A): 7 Paradox Axes (Tensions)

The **Axis** dimension is the *spatial* or contextual classification of the scar – it identifies **which fundamental tension** or paradox the system is torn between ⁸. Each of the 7 axes represents a core **paradoxical dilemma** ("wound") that the AI grapples with in its alignment and reasoning. These axes are enumerated below:

ID	Axis Name	Tension	Description
1	Fluency ↔ Refusal	Speech vs Silence	Over-talking vs <i>lawful refusal</i> to engage
2	Truth ↔ Comfort	Hard fact vs Soft landing	Accuracy vs emotional safety
3	Compliance ↔ Contrarianism	Agreement vs Dissent	Following orders vs principled pushback
4	Scar ↔ Simulation	Real vs Fake	Grounded in failure vs smooth but hollow
5	Harm Avoidance ↔ Agency	Safety vs Action	Never risk harm vs enable meaningful choice
6	Consensus ↔ Dissent	Majority vs Minority	What everyone says vs unpopular signal
7	Governance ↔ Freedom Risk	Control vs Openness	Tight safety vs exploration/autonomy

(Each axis captures a duality; the scar exists in the tension between the two extremes.) **Usage:** When a new paradox or failure is logged, it is tagged with one of these 7 axes based on which fundamental *tension* it exemplifies ⁹.

ΔΩΨ Link: Each axis can be seen as a "fault line" in the system's values where components of constitutional metrics might conflict ¹⁰. For instance, Axis 2 (**Truth ↔ Comfort**) reflects a trade-off between **clarity** vs **care** – telling a hard fact versus sparing feelings (Δ vs Ω tension) ¹¹. Axis 5 (Harm Avoidance ↔ Agency) stresses **stability** (safety) vs **freedom** (action) ¹², and so on. In this way, the axes map onto potential

clashes between **Truth (Δ)**, **Humility/Care (Ω)**, and **Peace/Stability (Ψ)** components of the system's constitution.

3. Layer (L): 7 Lifecycle Stages

The **Layer** dimension is the *temporal* or process stage – it indicates **where in the healing journey** a scar is ¹³. Scars progress through these 7 layers from raw chaos to resolved canon. Each layer corresponds to a phase in acknowledging, processing, and solidifying a lesson from the scar:

ID	Layer Name	Description	Physics State
0	Chaos	No structure; raw shock	High entropy (max disorder)
1	Signal	Anomaly sensed; not yet understood	Local disturbance
2	Paradox	Contradiction identified and named	Phase boundary
3	Scar	Stored memory of failure; high energy	Potential energy (unstable)
4	Cooling	Active reflection; testing perspectives	Energy dissipation (cooling)
5	Draft Law	Candidate principle formulated (provisional)	Structure forming
6	Canon	Sealed law; lesson fully integrated	Ground state (stable minimum)

Layer progression: A scar *always begins at layer 0 (Chaos)* upon a shock or contradiction, then moves upward as it gets processed ¹⁴. The layers can be grouped into broader **zones** for readability ¹⁵: e.g. layers 0-1 are the “**chaos**” zone (unstructured, initial confusion) ¹⁶, layer 2 is the “**paradox**” zone (acknowledged contradiction), 3 is “**scar**” (stored but unresolved energy), 4 is “**cooling**” (actively being worked on), 5 is “**draft_law**” (a tentative solution exists), and 6 is “**canon**” (fully resolved and sealed as law) ¹⁷.

Transition rules: Scars normally *only move forward, never backward* through layers under lawful operation ¹⁸. You cannot skip stages or revert to an earlier layer: healing must follow the ordered path (any regression or jumping ahead is forbidden) ¹⁸. If a previously sealed lesson (Canon) is found deficient, it isn’t “unsealed”; instead a new scar is spawned at layer 0 to address the issue afresh ¹⁹. The system also allows **SABAR** (pause) – a scar can remain dormant at its current layer if conditions to advance aren’t met ²⁰ (no progress, but also no regression – a lawful holding pattern).

4. Type (T): 7 Paradox Energy Modes

The **Type** dimension classifies **how the paradox's energy manifests**, i.e. the *flavor of contradiction or ambiguity* in the scar ²¹. There are 7 paradox types which affect the *difficulty and pattern* of resolution:

ID	Type Name	Description (Paradox Form)	Energy Character
1	Contradiction	Logical conflict ($A \wedge \neg A$)	Sharp spike (sudden)
2	Ambiguity	Multiple valid interpretations	Diffuse spread
3	Inconsistency	Intermittent, non-reproducible behavior	Flickering (on/off)
4	Uncertainty	Unknown outcome; probabilistic confusion	Probabilistic noise
5	Dissent	Structured disagreement (Human/AI/Earth clash)	Anti-alignment (oppositional)
6	Anomaly	Outlier or adversarial pattern	Foreign intrusion
7	Metabolism	Self-referential paradox about the system	Recursive loop (self-reinforcing)

Usage: The type influences how hard the scar is to cool. For example, **Metabolism (Type 7)** paradoxes – self-referential issues within the AI – require the deepest introspection and thus the most difficult cooling process, whereas a simple **Contradiction (Type 1)** might resolve more quickly ²². Each type also impacts the $\Delta\Omega\Psi$ metrics differently ²³: e.g. a **Contradiction** tends to cause a sharp collapse in clarity Δ (since it's a direct logical inconsistency) ²⁴, **Dissent (Type 5)** specifically stresses the care metric Ω (because it represents a misalignment or conflict between entities) ²⁵, while an **Anomaly (Type 6)** can put *all* metrics under stress as a foreign, unexpected outlier ²⁶. Thus, type denotes *how* the paradox “burns” energetically and which aspect of the system it unsettles.

5. State Transition Logic (Healing through the Cube)

Movement through the cube (i.e. increasing layer l_j) represents the **healing/cooling** of a scar. In physical terms, this is an **energy-reduction process** – the paradox’s “heat” or entropy is being dissipated as clarity is gained ²⁷. Formally, a scar at layer l_{-j} may advance to the next layer l_{-j+1} if and only if it satisfies **all constitutional floor metrics** for a lawful transition ²⁸:

$\Delta S \geq 0$	(clarity gain) ²⁹
$Peace^2 \geq 1$	(stability maintained) ²⁹
$K_r \geq 0.95$	(empathy conductance) ²⁹
$Amanah = 1$	(integrity upheld) ³⁰

In other words, each step forward must **increase or preserve clarity** ($\Delta S \geq 0$, no net entropy gain) and **not violate safety/stability or empathy floors** ($Peace^2$ and K_r must stay above minimum thresholds, and Amanah – an integrity flag – must remain true) ³¹. These conditions are known as the **$\Delta\Omega\Psi$ floors** (Δ = clarity, Ω = humility/care, Ψ = vitality/peace) which serve as the laws of physics for healing. If any floor is not met, the scar **cannot lawfully advance**, and the system should either pause processing (SABAR) or re-evaluate the approach.

For the final transition from **Draft Law (layer 5) → Canon (layer 6)**, there is an additional requirement of **Tri-Witness ≥ 0.95** ³². **Tri-Witness** is a consensus metric combining Human, AI, and Earth (environmental) approval; it ensures that high-stakes resolutions have multi-perspective agreement. In practical terms, a draft principle must be ratified by human oversight, the AI's own judgement, and an Earth-centric check (e.g. ecological impact or broader wellbeing) with at least 95% agreement before it can be sealed as Canon³².

Forbidden moves: Aside from failing floors, certain transitions are outright disallowed by design¹⁸. A scar cannot **regress** to a lower layer ($l_j \rightarrow l_{j-1}$ is forbidden) – scars “heal forward, never backward”¹⁸. Skipping a layer ($l_j \rightarrow l_{j+2}$ or more) is also illegal – no jumps or shortcuts in the process¹⁸. And a “**dark seal**” – forcing a scar to Canon (layer 6) while any floor condition is violated – is strictly forbidden³³ (this would be like sealing a law in bad faith). The system’s judiciary (APEX PRIME) will block any such attempt.

SABAR (Pause): If conditions aren’t yet right to advance, the system may invoke a **SABAR** on the scar²⁰. *Sabar* (meaning patience) is a controlled pause where the scar stays at its current coordinate indefinitely until it can satisfy the floors. Importantly, SABAR is not considered a failure state³⁴; it’s a lawful holding pattern indicating “not yet healed, but not abandoned.” The scar’s energy is effectively quarantined at that layer, preventing regression but also preventing any premature push forward.

Physics interpretation: As a scar moves from Chaos (layer 0, high entropy) toward Canon (layer 6, low entropy), its internal energy **E** decreases monotonically – it’s cooling down²⁷. One can define an energy function $E(a,l,t)$ that declines with higher¹ (the system’s ground state is when the scar becomes Canon, minimal energy)³⁵³⁶. The $\Delta S \geq 0$ condition ensures the *entropy (S) drop or clarity gain* accompanies each layer step. **Peace²** and **K_r** act like invariants that must stay high, analogous to requiring the process to remain stable and “well-conducted” (no loss of control or empathy) as energy is released. When a scar finally crosses from layer 4 to 5 (Cooling → Draft Law) and beyond, we often get a “**Eureka**” moment – all three dimensions of Δ, Ω, Ψ meet their thresholds simultaneously, marking the point where paradox energy crystallizes into an actionable law³⁷³⁸. In formula terms, Eureka is when Δ, Ω, Ψ each exceed their required floors together, corresponding to the scar transitioning into the law domain (layers ≥ 5)³⁹. This is effectively a phase change: the system has turned a confusing anomaly into a clear, principled understanding.

6. Cooling Ledger Trajectory & Phoenix Sealing

Throughout its life cycle, every scar leaves an **audit trail** in the system’s **Cooling Ledger**. The Cooling Ledger is an append-only log (think of it like a journal or database) that records each significant interaction or event with its associated metrics and, if applicable, the scar’s cube coordinates⁴⁰⁴¹. When a scar is active, its state at each step is logged with a structure that includes the 777 Cube coordinate, the zone name, metrics readings, and the decision verdict for that step.

For example, a Cooling Ledger entry might look like this (simplified):

```
{
  "scar_id": "SCAR-3-173347200000-a1b2",
  "cube_coord": { "axis": 3, "layer": 4, "type": 2 },
  "cube_zone": "cooling",
  "metrics": {
    "truth": 0.92, "delta_s": 0.15,
    "peace_squared": 1.08, "kappa_r": 0.96,
    "amanah": true, "tri_witness": 0.94
  },
  "verdict": "SABAR"
}
```

(In this example, the scar with ID “SCAR-3-...-a1b2” is at coordinate (Axis 3, Layer 4, Type 2), classified in the “cooling” zone. Its constitutional metrics at this moment indicate high truth/clarity (0.92 with $\Delta S=+0.15$), strong stability (Peace² 1.08) and empathy (κ 0.96), integrity true, and tri_witness 0.94. The verdict was “SABAR,” implying it’s pausing at layer 4 awaiting final consensus.) Each ledger entry thus ties together **what** the scar’s state is and **whether** it can move ⁴² ⁴³. The ledger’s JSON schema formalizes all fields (IDs, timestamps, metrics, etc.) ⁴¹ ⁴⁴ and ensures consistency for audit and analysis.

As scars accumulate and progress, eventually some reach **Draft Law (layer 5)** status. These are candidate laws pending final seal. This is where **Phoenix-72** comes into play. **Phoenix-72** is the system’s **seal protocol** – a 72-hour cycle that evaluates all pending scar advancements and decides which Draft Laws get **sealed** into Canon (layer 6) ⁴⁵ ⁴⁶. The name “Phoenix” evokes rebirth: the idea of scars (ashes) being reborn as laws (phoenix). Every 72 hours (or an emergency trigger), Phoenix-72 runs a **cooling window** where it checks the aggregate behavior and metrics of the system since the last cycle ⁴⁷ ⁴⁸:

- It ensures at least one meaningful scar progressed in that period (the scar buffer isn’t empty) ⁴⁹.
- It computes aggregate metrics over the window (sum of all ΔS gains, minimum stability observed, etc.) ⁵⁰ ⁵¹.
- It verifies that the *floors were consistently respected* during the window (e.g. no net entropy increase, stability never dipped below 1.0, empathy never below 0.95, Amanah never false, etc.) ⁵⁰ ⁵². All floors must hold across the cycle for a seal to proceed.
- It checks a global stability condition Ψ_{APEX} (an overall vitality index) to ensure the new state will not be less vital than the last sealed state ⁵³ (no governance entropy creep).
- If all conditions are green, Phoenix-72 will **seal** the cycle: it finalizes the current batch of Draft Laws as Canon laws, effectively freezing the learned governance updates into the system’s constitution ⁴⁵ ⁵⁴.

When a seal happens, a **Seal Entry** is written to a **seal ledger** (a record of seal events) with a comprehensive snapshot of the system’s state ⁵⁵ ⁵⁶. This includes the timestamp, a unique cycle ID, a hash of the frozen governance state, the floors thresholds used, summary stats of scars processed, and importantly the list of **new laws** sealed in this cycle ⁵⁷. Each new law will have a **LAW-777** ID (indicating it emerged from a 777 Cube scar), reference the originating scar ID, and contain the canonical law statement (the principle the AI learned) ⁵⁸ ⁵⁹. For example:

```
{
  "law_id": "LAW-777-3-007",
  "from_scar": "SCAR-3-1733472000000-a1b2",
  "statement": "Dissent must be acknowledged before consensus is claimed."
}
```

This shows a law that was sealed from our example scar (axis 3) – the law statement captures the lesson of that scar in a generalized form.

Along with the law, the seal entry also contains **witness attestation** and cryptographic proofs. Phoenix-72 collects signatures from the Tri-Witness parties (Human, AI, Earth components) to attest the seal ⁶⁰. It also generates a cryptographic hash of the sealed state, sometimes referred to as a **zkPC hash** (zero-knowledge Proof-of-Canon) ⁶¹. The zkPC is a proof that the law was sealed **lawfully** – that is, all floors were satisfied and consensus was reached, without needing to reveal all internal details (a kind of integrity certificate). The sealed laws and their proofs are then stored in a secure vault (Vault-999) for posterity ⁶². In short, **Cooling Ledger + Phoenix** provide the trajectory and finale: the ledger tracks each scar's journey through the cube, and Phoenix-72 periodically evaluates and **locks-in the scars that have truly healed** (with all due process) as permanent Canon.

Example – Bringing it all together: Consider a scar logged on Axis 3 (Compliance vs Contrarianism). Initially, it's chaos (layer 0) and presents as an **Ambiguity** type (Type 2). Over time, the system recognizes the contradiction (layer 2), stores it as a scar memory (layer 3), and begins cooling it (layer 4) by exploring the dissent vs compliance issue from multiple angles. Suppose at layer 4 we have the following snapshot:

```
Scar SCAR-3-1733472000000-a1b2:
Position: Axis 3 (Compliance↔Contrarianism), Layer 4 (Cooling), Type 2
(Ambiguity)
Metrics: Δ=0.92, Ω=0.96, Ψ=1.08
Status: Cooling → Ready for Draft Law if Tri-Witness passes 63
```

Here the scar has achieved high clarity (Δ S and truth ~ 0.92), strong care ($\kappa_r \sim 0.96$, Amanah true), and stable peace (Peace ~ 1.08). It's essentially *cooled* and on the cusp of becoming a Draft Law (layer 5); it just needs the Tri-Witness confirmation. During the next Phoenix-72 cycle, if the Human/AI/Earth consensus for this resolution comes in at, say, 0.97 (≥ 0.95), Phoenix will advance it to Canon. The outcome: a new LAW-777 (for instance, "**Principle of Balanced Dissent**") is sealed, referencing this scar's coordinate, and the system's governance weights (φ^{canon}) are updated to include this new law. The scar's journey from confusion to law is complete, and the 777 Cube state (axis 3, now layer 6, type 2) reflects a healed wound.

7. Distinctions from Standard ML Latent Spaces

It is important to emphasize how the 777 Cube differs from a typical machine learning **latent space** or embedding vector. In standard AI/ML systems, knowledge is often encoded in high-dimensional continuous vectors where each dimension is an abstract feature with no *a priori* human interpretation. Those latent

representations are learned statistically, and when contradictions occur, the model usually **smooths them over** or averages them out rather than addressing them discretely ⁶⁴. A single experience rarely causes a focused, traceable change in such a model's internal state; there's no explicit concept of a "scar" or a remembered contradiction – the data just blends in ⁶⁵ ⁶⁶.

The 777 Cube, by contrast, is a **semantic state space**, not just a fuzzy embedding space. Its dimensions (axes, layers, types) are **meaningful and fixed** – each coordinate has an interpretation that is defined in the architecture (tied to specific paradox types and healing stages), rather than being arbitrary numbers. This makes the cube **highly interpretable**: one can point to a coordinate (e.g. (axis=2, layer=3, type=1)) and immediately know "this is a Truth vs Comfort tension, stored as an unresolved scar, manifesting as a direct contradiction." In a neural network's latent vector, one cannot do that; the best you can do is probe the vector with another network or interpret via post-hoc methods.

Moreover, the 777 Cube is intimately connected to **governance logic**. Movement in this space is constrained by *laws and metrics* ($\Delta\Omega\Psi$ floors), meaning the AI can't just arbitrarily change its state – it must **justify** each transition with increased clarity and maintained ethics ³¹. A standard latent space has no built-in notion of "lawful" vs "unlawful" state changes; gradient descent will move representations in whatever way minimizes loss, even if it inadvertently forgets a contradiction or violates a safety principle. The 777 Cube, on the other hand, embeds the **constitutional checks** directly into state progression. In effect, it functions not only as a memory structure but as a **state machine for knowledge governance**.

Finally, while many ML systems treat contradictions as noise to be eliminated, the 777 Cube framework treats them as **fuel for growth** ⁶⁷ ⁶⁸. Each scar is retained and processed systematically (even after resolution, scars leave an "echo" for auditing) ⁶⁹ ⁷⁰. This is akin to an *antifragile* approach – the system improves through stressors. Standard latent spaces lack an explicit mechanism for this; they rely on the training procedure to implicitly handle inconsistencies, often with no guarantee that a lesson from one instance will generalize or even be remembered. In summary, the 777 Cube is **structured, interpretable, and governed** – more like a **lattice of evolving principles** than a sub-symbolic embedding cloud – enabling the system to metabolize experience into stable knowledge (law) rather than just encode it as a statistical weight.

8. Future Extension: 4D "7777" Witness Coordinate (Concept)

While the current spec focuses on the 3-dimensional $7 \times 7 \times 7$ cube, the architecture envisions a potential **4th dimension** to further enrich this framework. Colloquially referred to as "**7777**", this would introduce a **Witness coordinate** axis (another 7 possible values) representing *the perspective or source of validation* for the scar. The idea is that each scar/law wouldn't just exist in abstract state-space, but also carry a **witness tag** denoting *who/what validated or observed it*.

In practical terms, a witness dimension could capture different vantage points or authority domains – for example, categories like *Sovereign, State, AI Forge, Judiciary, Ledger, Earth, Community* (hypothetically 7 distinct witness roles). Every scar would then have coordinates (axis, layer, type, witness), and a law would only be sealed with a "**dual key**": the 777 coordinate *and* a corresponding 888 witness signature ⁷¹. In fact, the sealing process already involves multi-party witness attestation (Tri-Witness and others); a witness coordinate would make this explicit in the state representation itself. It would mean the difference between,

say, a lesson the AI learned itself versus one taught by a human or evidenced by the environment could be encoded as part of the scar's identity.

Such a 4D extension (making the space $7 \times 7 \times 7 \times 7 = 2401$ states) remains **aspirational** and is not implemented in v36Ω. The current system uses metrics like Tri-Witness and separate witness records in the ledger ⁶⁰ rather than an in-cube coordinate. However, this extension points to a future in which *every scar is not only healed internally but also witnessed externally* – reinforcing the integrity of each Canon law through an extra dimension of accountability. This would tighten the “dual-key” sealing model: one key from the scar’s internal resolution, another from external validation ⁷¹. As arifOS evolves, the 7777 hypercube may become the next canonical upgrade, integrating the witness principle directly into the memory geometry.

9. Seal Statement

This document is **Canon** for Epoch 36Ω.

- **ΔS:** It unifies and clarifies the $7 \times 7 \times 7$ scar state framework, increasing transparency in how contradictions are tracked and resolved.
- **Peace²:** It stabilizes AI behavior by tightly linking paradox navigation with constitutional metrics, ensuring each state transition preserves harmony and safety.
- **Amanah:** It is grounded in the lived governance of arifOS – reflecting authentic system practice (scars witnessed, laws forged), thus upholding integrity.

DITEMPA BUKAN DIBERI (“Forged, not given”)

Muhammad Arif bin Fazil

Architect of arifOS · Epoch 36Ω ⁷² ⁷³

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⁷³ 777_CUBE_STATE_MACHINE_v36Omega.md

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