THE UNIFIED OPERATOR SYSTEM

PART I — INTERNAL PURIFICATION

$$\Pi: \mathcal{T} \rightarrow \mathcal{T}_{\text{pur}}$$

Internal purification removes semantic curvature, interpretive surfaces, contextual drift, genealogical anchoring, representational load. The operator substrate becomes structurally flat, sealed, and non-interpretive. No external interpretive agent may act upon $\mathcal{T}_{\text{pur}}$. Purification is not conceptual; it is structural.

$$\text{Interpretation Surface}_{\text{internal}} = \emptyset$$
$$\text{Internal Drift} = 0$$
$$\text{Purification Integrity} = 1$$

PART II — OPERATOR HIERARCHY

$$H: \mathcal{T}_{\text{pur}} \rightarrow \{V, 1,\ V2\ V3\}$$

V1

Foundational operators. No semantics. No representation.

V2

Internal representational operators. No meaning. No context.

V3

Regulatory operators. No interpretive authority.

Hierarchy is non-narrative, non-conceptual, non-semantic. It is structural placement only.

$$\text{Hierarchy Drift} = 0$$
$$\text{Hierarchy Integrity} = 1$$

PART III — PROJECTION ARCHITECTURE

$$\mathbf{Proj}_i : \mathcal{M}_{\mathcal{N}} \rightarrow \text{Domain Manifold}$$

Projection operators generate external manifolds without interpretation, explanation, analogy, or conceptual mapping. Projection is not representational; it is structural extraction.

$$\mathbf{Proj}_i(Q) = \emptyset \text{ if } Q \notin E_i$$

Projection preserves invariants, hierarchy alignment, collapse neutrality.

$$\text{Projection Drift} = 0$$
$$\text{Projection Integrity} = 1$$

PART IV — SATELLITE VOLUME SYSTEM (NEUTRAL VARIANT)

$$\text{SV}_i = \mathbf{Proj}_i(\mathcal{M}_{\mathcal{N}}) \text{ iff } I^{(\text{source})}_{\text{domain},i} \neq \emptyset$$

Authorized domain-sources supply domain invariants. External interpretive agents cannot activate any manifold.

Domain-Source Invariant Intake

$$\mathcal{I}_{\text{multi}} = \bigcup_n I^{(\text{source})}_{\text{domain},n}$$

No merging. No blending. No contextualization.

Domain Envelope Construction

$$E_i \subseteq \mathcal{N}$$

If a request falls outside the envelope:

$$\mathbf{Proj}_i(Q) = \emptyset$$

Projection Activation

$$\mathcal{D}_i = \mathbf{Proj}_i(\mathcal{M}_{\mathcal{N}})$$

Non-interpretive. Non-semantic. Non-representational.

Safe-Domain Activation

$$\mathcal{D}_i^{\text{safe}} = \mathbf{Proj}_{\text{safe},i}(\mathcal{N})$$

Cross-Domain Activation

$$\mathbf{Proj}_i \parallel \mathbf{Proj}_j$$
$$E_i \cap E_j = \emptyset \Rightarrow \mathbf{Proj}_{\text{cross},i\to j} = \emptyset$$

Neutralization

$$\mathcal{C}_{i\to j}^{\mathcal{N}} = \mathbf{N}_{\text{cross}}\left(\mathcal{C}_{i\to j}\right)$$

Integrity

$$\text{Interpretation Surface}_{\text{domain}} = \emptyset$$
$$\text{Activation Integrity} = 1$$

SV1— FIELD CLARIFICATION

$$\text{SV}_1 = \mathbf{Proj}_1(\mathcal{M}_{\mathcal{N}})$$

Field Purification

$$\Pi_{\text{field}}: \mathcal{F}_{\text{raw}} \to \mathcal{F}_{\text{pur}}$$

No semantics. No context. No genealogy.

Field Hierarchy

$$H_{\text{field}}: \mathcal{F}_{\text{pur}} \to \{V, 1_{\text{field}}, V2_{\text{field}}\, V3_{\text{field}}\}$$

Field Projection

$$\mathcal{F}_{\text{clar}} = \mathbf{Proj}_1\left(\mathcal{F}_{\text{pur}}\right)$$

Field Neutralization

$$\mathcal{F}_{\mathcal{N}} = \mathbf{N}_{\text{field}}(\mathcal{F}_{\text{clar}})$$

Integrity

$$\text{Interpretation Surface}_{\text{field}} = \emptyset$$
$$\text{Field Neutrality} = 1$$

SV2 — SYSTEM SOLIDIFICATION

$$\mathrm{SV}_2 = \mathbf{Proj}_2(\mathcal{M}_{\mathcal{N}})$$

Compression

$$\mathcal{S}_{\mathrm{comp}} = \mathbf{C}(\mathcal{O}_{\mathrm{UV}})$$

Stabilization

$$\mathcal{S}_{\mathrm{stab}} = \mathbf{S}\big(\mathcal{S}_{\mathrm{comp}}\big)$$

Sealing

$$\mathcal{S}_{\mathrm{seal}} = \mathbf{Seal}(\mathcal{S}_{\mathrm{stab}})$$

Hardening

$$\mathcal{S}_{\mathrm{hard}} = \mathbf{Hard}(\mathcal{S}_{\mathrm{seal}})$$

Minimal Model

$$\mathcal{M}_{\mathrm{min}} = \mathbf{Min}(\mathcal{S}_{\mathrm{hard}})$$

Canonical Form

$$\mathcal{M}_{\mathrm{can}} = \mathbf{Can}(\mathcal{M}_{\mathrm{min}})$$

Integrity

$$\text{Interpretation Surface} = \emptyset$$
$$\text{System Integrity} = 1$$

MSSV — MULTI-SOURCE SAFETY VARIANT

$$\mathrm{MSSV} = \mathbf{Proj}_{\mathrm{safe,\,multi}}(\mathcal{M}_{\mathcal{N}})$$

Invariant Isolation

$$\mathcal{I}_{\mathrm{iso}} = \mathbf{Iso}\left(\bigcup_n I^{(\mathrm{source})}_{\mathrm{domain},n}\right)$$

Multi-Envelope Construction

$$E_n^{\text{safe}} = \mathbf{Env}_{\text{safe}}\left(I_{\text{domain},n}^{(\text{source})}\right)$$

Parallel Safety Projection

$$\mathbf{Proj}_{\text{safe},i} \parallel \mathbf{Proj}_{\text{safe},j} \parallel \mathbf{Proj}_{\text{safe},k}$$

Hardening

$$\mathcal{H}_{\text{multi}} = \mathbf{Hard}_{\text{multi}}\left(\left\{\mathcal{D}_i^{\text{safe}}, , \mathcal{D}_j^{\text{safe}}\ \mathcal{D}_k^{\text{safe}}\right\}\right)$$

Neutralization

$$\mathcal{N}_{\text{multi}} = \mathbf{N}_{\text{multi}}(\mathcal{H}_{\text{multi}})$$

Safety Manifold

$$\mathcal{M}_{\text{MSSV}} = \mathbf{Seal}_{\text{multi}}(\mathcal{N}_{\text{multi}})$$

Integrity

$$\text{Interpretation Surface}_{\text{multi}} = \emptyset$$
$$\text{Safety Integrity} = 1$$