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The Cross-Primitive Coherence Engine

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Cognitive domain fields operating independently can produce contradictory evaluations: confidence may authorize execution while integrity prohibits it; affective state may favor a path that capability analysis rules out. The cross-primitive coherence engine resolves these contradictions by ensuring that all cognitive fields produce mutually consistent evaluations at every mutation lifecycle stage. Coherence is not aspirational; it is structurally enforced.

What It Is

The cross-primitive coherence engine is the integration mechanism that ensures all cognitive domain fields, including affective state, confidence, integrity, capability, and forecasting, produce evaluations that are mutually consistent when applied to the same mutation proposal. The engine does not override individual field evaluations. It detects inconsistencies and initiates reconciliation before the mutation proceeds.

Why It Matters

Without coherence enforcement, agents can develop internal contradictions: acting confidently in domains where their integrity is compromised, or proceeding optimistically when capability analysis indicates failure. These contradictions produce unreliable behavior because different cognitive subsystems are operating on incompatible assessments of the same situation.

How It Works

At each mutation lifecycle stage, the coherence engine collects evaluations from all active cognitive fields and checks for consistency. Consistency rules define which field combinations must agree and which may disagree within specified bounds. When an inconsistency is detected, the engine initiates reconciliation: adjusting field inputs, requesting additional evaluation, or flagging the inconsistency for higher-level resolution.

The reconciliation process is deterministic and recorded in the lineage, creating an auditable record of how cognitive contradictions were resolved.

What It Enables

The coherence engine enables agents that behave consistently because their internal evaluations are consistent. An agent governed by the coherence engine cannot simultaneously believe a task is within its capabilities and lack the confidence to execute it without an explicit reconciliation that resolves the contradiction. This internal consistency is what makes agent behavior predictable and trustworthy.

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Secondary Technical

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AQ

deterministic

autonomy

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