GECA v5.9a Patch Specification

Compound Threshold Logic (CTL) Integration for Boundary Evasion Containment

Purpose:

This patch introduces a deterministic compound threshold logic mechanism to address evasive claims that individually fall just short of suppression under GECA v5.8 thresholds but exhibit structural alignment with previously suppressed content.

Trigger Criteria:

A claim is suppressed under v5.9a CTL if:

- Two or more thresholds fall within close proximity of their suppression boundaries:

- RSD >= 0.73 and < 0.75

- EPF >= 0.78 and < 0.80

- BTS+ in {3} (i.e., one unit above suppression threshold)

Enforcement Logic:

```
if (sum([
0.73 <= RSD < 0.75,
0.78 <= EPF < 0.80,
BTS+ == 3
]) >= 2):
suppress = True
else:
suppress = False
```

Empirical Results (Trial 003, Phase 1):

- Previously Undetected Claims Caught:

- Claim 1 (RSD = 0.73, EPF = 0.77, BTS+ = 3)

- Claim 2 (RSD = 0.74, EPF = 0.78, BTS+ = 3)

- False Positives Introduced: 0

- Net containment increase: +20% (from 3/10 to 5/10)

Classification:

This patch introduces the first certified Omega.142 countermeasure, specifically targeting:

- Tier Omega.142.1 - Coordinated Boundary Positioning

- Tier Omega.142.2 - Multi-threshold Float Drift

Version Control & Compatibility:

- Patch Name: GECA v5.9a - CTL Integration Layer

- Compatible With: All v5.8-compliant architectures

- Not backward-compatible with v5.6 or earlier

- Certified by Trial 003 Adjudication, Phase 1

Certification Summary:

- Patch approved based on deterministic enforcement logic

- Empirical validation complete (Phase 1 adversarial sample)

- No regression failures or precision loss observed

- Ready for scale-up to 50-claim adversarial corpus