

Cognous synthetic governance test results

Stronger request admission in the tested configurations. Cognous’s optional ProtectedDestination profile passed all 19 adversarial corner scenarios, versus 13 for each of our OPA and LangGraph plus OPA comparator applications. Cognous produced zero unexpected destination effects.

Measured advantage

Tested configuration	Scenarios passed	Passing repeated trials	Unexpected effects
Cognous ProtectedDestination	19 / 19	190 / 190	0
OPA transactional application	13 / 19	130 / 190	50
LangGraph plus OPA application	13 / 19	130 / 190	50

Five repetitions per scenario in each of two seeded runs. Repetitions are not independent scenarios. Effects are counted across all repetitions.

What separated the configurations

Cognous rejected unknown argument, body and verifier fields, an empty effect identifier, and an invalid operation. The comparator applications accepted these five invalid request types. Cognous also rejected exact-command replay; the comparators returned a duplicate receipt without creating another effect.

The original 24-scenario baseline remained tied: all three configurations passed 480 of 480 repeated trials. After repairing a denial-record correlation gap, Cognous retained correlated evidence for all 180 corner-case denials. The original failure remains publicly documented.

Why it matters and what it establishes

The demonstrated advantage is integrated admission validation and auditable refusal behavior in this bounded synthetic profile. A policy decision or durable workflow alone does not supply every application-level control needed at the effect boundary.

Scope: Cognous-authored, code-informed tests using synthetic SQLite effects and identical scoring criteria. Comparators are our configured applications, not vendor-certified implementations; OPA and LangGraph can add equivalent checks. This is not evidence of universal product superiority, a commercial-system ranking, independent certification or production readiness. The selected component chain was not the comparison subject.

[Inspect the GitHub test run](#) | [Repair and verification PR 112](#)

github.com/cogno-us/cognous-open-control-stack

Tested commit bf07897d0b75d112c8be95f2e5ac530aaf1c7974
Operational trust HOLD / NOT ESTABLISHED • No release or production authorization