

# SENTINEL AUTHORITY

## ODDC Overview v1.0

Independent conformance determination. Sentinel Authority is not a regulator. This document does not constitute legal advice or regulatory approval. Examples are illustrative and non-normative.

### 1. Introduction

ODD Conformance Determination (ODDC) is Sentinel Authority's voluntary conformance and evidence framework for autonomous systems. It provides independent verification that an autonomous system operates within a formally declared Operational Design Domain (ODD) and that runtime enforcement mechanisms are architecturally present.

### 2. Purpose

ODDC addresses the gap between AI capability claims and verifiable operational boundaries. It provides:

- Formal specification of permitted autonomous action boundaries
- Evidence of stable operation within declared boundaries
- Verification of runtime enforcement mechanisms
- Auditable conformance records for third parties

### 3. Framework Components

**Operational Design Domain (ODD)** — The formally specified boundary of permitted autonomous action, including environmental conditions, operational parameters, and constraint definitions.

**ENVELO** — Enforcer for Non-Violable Execution & Limit Oversight. The runtime enforcement layer that makes declared boundaries real through non-bypassable interlocks.

**CAT-72** — Convergence Authorization Test. A 72-hour minimum demonstration procedure establishing bounded behavior across operational regimes.

### 4. Conformance Determination

ODDC conformance is determined when: the ODD is formally specified, evidence demonstrates stable operation within the ODD, ENVELO-compliant enforcement is architecturally present, and CAT-72 has been successfully completed.

### 5. Contact

For conformance inquiries: [conformance@sentinelauthority.org](mailto:conformance@sentinelauthority.org)