

# SENTINEL AUTHORITY

## ODDC Scenarios 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

This document presents representative scenarios illustrating how bounded autonomous operation may be specified, enforced, and evidenced under the Sentinel Authority ODDC framework across industries.

### 2. Data Centers & Hyperscale Computing

ODDC conformance scenarios for autonomous power allocation, cooling optimization, and AI-on-AI orchestration with envelope boundaries on power draw, thermal ceilings, and recursion limits.

### 3. Autonomous Vehicles

ODDC conformance scenarios for zone speed ceilings, confidence thresholds, weather degradation protocols, and emergency override rules with ENVELO-compliant enforcement.

### 4. Healthcare & Medical AI

ODDC conformance scenarios for diagnostic recommendations and clinical interventions with mandatory human checkpoints and deviation thresholds.

### 5. Financial Services & Trading

ODDC conformance scenarios for position concentration limits, volatility thresholds, and drawdown caps with circuit-breaker enforcement.

### 6. Industrial Manufacturing

ODDC conformance scenarios for force output limits, proximity response, and speed reduction zones with isolated enforcement mechanisms.

### 7. Aerospace & Defense

ODDC conformance scenarios for geofencing, altitude ceilings, comm-loss protocols, and payload authorization with chain-of-custody enforcement.

### 8. Document Status

Version: 1.0 — Draft

Effective: January 2026

Change Control: Errata and versioning maintained by Sentinel Authority

### 9. Contact

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

