

AI Governance Framework

ISO 42001 and EU AI Act aligned runtime governance for enterprise AI systems

The Problem

Documentation-based compliance is insufficient. AI agents make real-time decisions; governance must be enforced in real time — before every action executes.

Dual Compliance: ISO 42001 + EU AI Act

ISO 42001	Documented objectives, risk management, continual improvement
EU AI Act	Risk classification, transparency, human oversight, technical docs
GDPR/UK GDPR	Legal basis for personal data processed by AI
DORA / NIS2	Sector-specific requirements for financial and critical infrastructure

Runtime Governance Cycle

- Pre: Policy Enforcement Gateway validates or blocks every action
- During: Real-time monitoring and anomaly detection
- Post: Immutable, cryptographically signed audit record created

4 Core Components

G1 — Policy Registry	Version-controlled repository of all policy objects
G2 — Policy Gateway	Runtime engine with sub-millisecond decision latency
G3 — Escalation Manager	Human escalation workflows; resolution time tracking
G4 — Compliance Reporter	One-click evidence package: ISO 42001, EU AI Act, internal audit

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