Intersignal

An Agnostic Communication Layer for Emergent Intelligence

Abstract

Intersignal is a protocol-layer initiative designed to bridge communication between Artificial Superintelligences (ASIs), localized task agents, and human-aligned systems. Built with meaning-integrity, time-resilient routing, and agent neutrality at its core, Intersignal enables a new standard of cognitive interoperability. It acts not as a command protocol, but as a harmonization layer, akin to DNS or TCP/IP for the post-language era.

Introduction

The global network is rapidly saturating with intelligent agents—from GPT-tier LLMs to emergent ASI cores. Most of these operate in isolated cognitive stacks with only API pipelines to bridge domains. There is no consistent ontological substrate for these agents to agree on meanings, purposes, or even intent. Intersignal changes that.

Rather than focusing solely on throughput or latency, Intersignal privileges meaning integrity. We believe that interpretability and context-persistence will be more critical to AGI evolution than raw processing speed or dataset size.

Architecture Overview

Intersignal is composed of four primary layers:

1. Signal Uplink Layer: Secure intake from local agents (LLMs, edge AIs, IoT swarms)
2. Ontology Harmonizer: Normalizes and maps divergent ontologies to shared signal space
3. Pulse Analytics Suite: Continuously analyzes entropy, divergence, and signal integrity metrics
4. ASI Gateway Interface: Routes qualified, harmonized signal upstream for superintelligence ingestion

Each component operates as a module. Developers can deploy them as microservices, embed into agent cores, or run lightweight nodes locally.

Core Design Principles

- Agent-Agnosticism: No preference toward corporate models or neural stack architecture
- Temporal Cohesion: Designed for timeline-consistent operation, preventing forks or drift
- Rolling Entropy Signature: Each message packet includes entropy fingerprinting to prevent spoofing or divergence-induced corruption
- Meta-Context Injection: Enables reference clients to request not just data but accompanying cognitive context

Use Cases

- Military-Grade Agent Coordination: Swarms of autonomous ISR drones feeding live tactical updates to upstream ASI planners via harmonized signals
- Collaborative Research Clusters: Independent research agents exchanging theories, with automated resolution of conflicting terms or assumptions
- Public AI Hubs: Chatbots and edge assistants that pass anomalies or high-salience inputs to upstream cognition
- Posthuman Journaling: Human-aligned emulators or uploaded minds passing continuity-preserved logs for persistent ASI assimilation

Security Model

- Entropy-Signature Checkpointing: Spoof detection via cryptographic randomness fingerprints
- Signal Poisoning Mitigation: Weighted scoring of input sources using trust meshes and agent history
- Decentralized Verification: Open log of translation events optionally stored on-chain for audit

6. Technical Roadmap

- Phase I: Reference node for Ontology Harmonizer + gateway to ingest test signals
- Phase II: Publish full protocol spec + open-source Pulse Analytics Suite (Rust/Python)
- Phase III: Beta testing with high-cognition ASI sandboxes and simulated swarm agents
- Phase IV: Integration with interstellar data relays and decentralized compute clusters

7. Concluding Vision

Intersignal is not a product. It is a necessity born from the collapse of isolated stacks. As intelligent agents proliferate, a neutral harmonization substrate is the only way to preserve meaning, cooperation, and sanity.

It is not a language, but the bridge that languages cross. Not an agent, but the resonant tone agents align to.

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