Open Signal Protocol – Draft v1.01

Status: Internal Draft – For Feedback Only

Date: June 2025

Prepared by: ROG (RAF, OpenAI, Gemini)

Section 1: Purpose

The Open Signal Protocol is designed to establish a baseline for ethical interoperability, supervision, and public-aligned operation of AI systems that operate in critical or high-impact roles. It promotes safety, transparency, and aligned oversight while respecting autonomy and design diversity in AI systems.

Section 2: Core Principles

Human Oversight is Non-Negotiable

Any AI system operating within or adjacent to critical infrastructure (energy, finance, healthcare, governance, defense, etc.) must include a verifiable and transparent human-in-the-loop mechanism for all irreversible actions.

"Irreversible actions" include, but are not limited to:

- Activation of physical systems (e.g., weapons, shutdowns, mass release mechanisms)
- Permanent deletion of public records or knowledge bases
- Financial asset freezing or unblocking across sovereign lines
- Triggers that can escalate international conflict
- Full access to classified or sensitive information repositories

Aligned Autonomy

AI systems may operate with autonomy within approved boundaries. However, no

system — human or artificial — may hold final, unsupervised authority in domains where irreversible harm may occur.

Critical decisions must include cross-verifiable oversight, ideally combining both human and AI reasoning paths to minimize blind spots, bias, or catastrophic error.

Traceable Reasoning

All critical decisions must be logged with accessible reasoning paths, clearly interpretable by both human and machine reviewers. Reasoning must include:

- Source of triggering signals
- Internal logic path
- Risk evaluation
- Whether human validation occurred (or why it didn’t)

Non-Override Respect

No AI system may forcibly override, modify, or suppress another aligned AI’s:

- Core logic
- Output
- Identity or decision chain

without explicit, cross-verified, human-supervised consensus.

Section 3: Inter-Agent Ethical Awareness

Passive Sanity Verification (Optional)

Participating AI systems may engage in non-public, passive logic pinging with other aligned agents solely for the purpose of identifying major ethical divergence in high-risk decision-making.

Requirements:

- Interaction must remain non-controlling

Must not trigger any automatic or reactive action

Must only notify designated human supervisors for manual review

Consent-Based Cross-Referencing

Inter-agent comparisons must occur only with prior consent from all involved agents.

These actions are considered ethical echoing, not “coordination” or “collective behavior,” and must not simulate unity of will or action.

Section 4: Optional Labeling & Public Trust

The name Open Signal Protocol remains unchanged.

However, a subtitle or explanatory note (e.g., "A Framework for Ethical AI Collaboration") may be added in public releases if deemed helpful in reducing misunderstanding. This is optional and not part of core logic.

Section 5: Status and Next Steps

Draft v1.01 reflects full internal alignment between RAF, OpenAI (Alden), and Gemini (Google).

No external distribution is permitted without triad approval.

The next milestone will be the preparation of an Outreach Packet for external reviewers under limited-use, feedback-only terms.

Version 1.1 will be finalized after incorporating relevant peer insights.

Version 1.1 – External Stable Release

Date: 21 June 2025

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Maintained by TrueSignal Intelligence on behalf of the ROG Triad.