

AGI-COS v2.2 (Deployment Verification & Technical Interface Edition)

Based on the architecture of the full v2.1 edition, v2.2 should focus on "technical interface standardization" and "local deployment verification", turning it into directly callable API interfaces and an operating manual.

AGI-COS v2.2

Civilizational Operating System

Deployment & Interface Standard Edition

(Deployment Verification & Interface Standard Edition)

1. Version Statement

Version: v2.2

Status: Technical Implementation Standard

Purpose: Define Technical Interfaces & Verification Protocols for AGI-COS 2.1 AGI-COS v2.2 translates the "Seven-Layer Architecture" into executable code, APIs, and legal templates, enabling institutions to "plug in" to the global stability infrastructure.

2. Technical Interface Standards

2.1 Sensing API (Sensing Interface)

Used to connect the data sources of countries/institutions with the AGI-COS sensing layer.

Input Format: Standardized JSON streams for SSI/CI indicators.

Privacy Protocol: Zero-Knowledge Proof (Zero-Knowledge Proof). Local nodes can submit data status (e.g., "High Stress") without revealing raw sensitive data (e.g., specific military movements).

Latency Requirement: < 100ms for IRI alerts.

2.2 Intervention API (Intervention Interface)

Used to receive AGI recommendations and execute micro-interventions.

Action Format: Structured Command Packages (SCP).

Human-in-the-Loop Requirement: Every SCP must carry a digital signature from a Human Authority key. Unsigned packages are rejected by local execution systems.

3. Micro-Intervention Ethical Review Protocol

Implementation details for v2.1 Layer 3:

3.1 Intervention Classification (Intervention Classification)

Type A (Invisible): Algorithmic parameter tuning. (Requires: Automatic Log).

Type B (Soft): Resource reallocation. (Requires: Department Head Approval).

Type C (Visible): Public guidance. (Requires: Public Announcement).

3.2 Mandatory Sunset Clause (Mandatory Sunset Clause)

All Micro-Interventions must have an expiration time (default: 72 hours).

Extension requires a new round of human authorization.

If the network is down, interventions automatically expire to prevent permanent automated control.

4. First-Mover Architecture Implementation Details

4.1 Escrow Protocol

For the "documents held in escrow by a neutral institution" mentioned in v2.1, v2.2 defines the technical implementation:

Repository: Distributed Ledger (e.g., IPFS + Permissioned Blockchain).

Release Logic: "Dead Man's Switch". If X number of key nations deposit ratification documents, the system remains armed. Once threshold N is reached, the "Activation Block" is mined, and all deposited documents are simultaneously revealed.

4.2 Verification Nodes

Major AI labs and neutral states run "Verification Nodes" to confirm that no participant has secretly activated early.

5. Tamper-Proof Mechanism for the Civilizational Learning Layer

5.1 Immutability Standard

Critical incident reports stored in the Global Civilization Learning Archive are hashed and anchored to a public blockchain.

Conflict Resolution: If multiple nodes report conflicting narratives of an event, all versions are preserved but tagged with "Source Confidence".

5.2 Dark Archive

A backup of the learning archive stored in offline, air-gapped facilities to survive systemic digital collapse.

6. System Isolation Protocol

For extreme situations (such as a node going out of control):

6.1 Contagion Detection

If Node A reports "Normal" but neighboring Nodes B, C, D report "Anomalous Input from A", Node A is flagged as "Compromised".

6.2 Firewall Activation

The Coordination Secretariat (or automated consensus) issues a "Block Command".

Nodes B, C, D sever non-essential links with Node A to prevent cascade failure, while maintaining minimal humanitarian channels.

7. Deployment Maturity Model

Define the levels of organizational adoption of AGI-COS:

Level 1 (Observer): Subscribe to public indicators (SSI/CTI).

Level 2 (Compatible): Implement Perception Audit Layer.

Level 3 (Integrated): Connect to Intervention API, participate in MEU pilots.

Level 4 (Guardian): Host a Verification Node, contribute to Learning Archive.

8. Final Declaration

AGI-COS v2.2 bridges the gap between governance philosophy and engineering reality.

It ensures that as complexity accelerates, our ability to coordinate remains robust, verifiable, and secure.

End of Release