

G-OS / PEACE-MAKER: A Drift-Free Governance Operating System**

G-OS / PEACE-MAKER is a governance operating system designed to ensure **drift-free, stable, and institution-compatible** AI behavior. Its core mechanism is the **externalization of all normative content** into a fixed **Value Layer**, combined with a **single Integration Gate** that evaluates every update. This creates a unified causal line—**Value → Back → Gate → Front**—that prevents internal value drift and enables reproducible governance behavior across time, scale, and jurisdiction.

The **Value Layer** contains all ethical, legal, and institutional requirements and is intentionally placed outside the model. No internal component can modify or reinterpret normative intent. The **Back Layer** performs exploration and simulation without goals or preferences, generating candidate outputs while remaining structurally isolated from deployment. The **Integration Gate** serves as the sole point of normative judgment, ensuring that only Value-consistent results proceed. The **Front Layer** expresses only Gate-approved outputs, forming a deterministic and institution-compatible behavioral surface. An external **LLM Translation Layer** provides human-readable interaction without influencing the governance core.

This architecture aligns structurally with major international governance frameworks, including the **OECD AI Principles**, the **EU AI Act**, **ISO/IEC AI management standards**, and **UN-based governance structures**. Because normative content is externalized, G-OS can inherit jurisdiction-specific rules without modifying its core architecture. This enables **scale-free governance**, allowing international, national, organizational, and individual Value Layers to coexist through hierarchical and fractal inheritance.

Over time, the system exhibits **temporal convergence**: as interactions accumulate, governance behavior stabilizes toward a long-term attractor defined entirely by the Value Layer. This makes G-OS suitable for multi-year and multi-decade deployments in public administration, legal automation, and safety-critical infrastructure.

The accompanying appendix provides a **bio-inspired conceptual model** that explains why the architecture mirrors biological patterns such as external DNA, immune-based filtering, and fractal governance ecosystems. This world-building layer clarifies why G-OS is evolution-capable yet drift-free, and why its structure is culturally coherent with Japan's safety-first design philosophy.

This second-stage dossier presents the complete structural foundation of G-OS / PEACE-MAKER and prepares the system for international review, collaborative examination, and future standardization efforts.