

Appendix J: Legitimacy and Diplomacy Enhancement

This appendix specifies three new protocols (J.2, J.3, J.4) designed to enhance the Covenant's engagement capabilities, financial responsiveness, and technical detection speed, directly addressing the systemic vulnerabilities exposed in Stress Test 6.

J.2. Real-Time Propaganda Countermeasures

Mechanism: The Global Legitimacy Framework (GLF, H.4) is mandated to deploy an **AI-driven Social Media Analysis Module** upon any crisis triggering a legitimacy drop of >10%. This module must utilize natural language processing (NLP) to detect, categorize, and counter hostile propaganda narratives (e.g., GRA) within a maximum of **4 hours** of detection.

Implementation: Counter-narratives must be published across all Public Interface Portals (Appendix E, Section 3) and tailored to specific non-RMS demographic language and cultural contexts. The Transparency Secretariat (Appendix E, Section 2.2) will conduct quarterly public audits of the module's neutrality and efficacy.

Rationale: To address the **38% unreached non-RMS population** and the minimal **+1% non-RMS trust gain** seen in Stress Test 6. This mechanism proactively counters GRA's state media (the cause of the 50% GRA engagement failure), securing Directive 7 (Transparency) by ensuring factual information saturates the information space.

J.3. Dynamic GRAP Surplus Adjustment

Mechanism: The Governance Risk Allocation Pool (GRAP, G.2.1) surplus cap is dynamically adjusted during formally declared legitimacy crises (defined as a >20% legitimacy drop). The surplus is permitted to scale up to **15%** (up from 10% in I.3) to ensure **100% coverage** of estimated ESIF losses (H.1).

Implementation: HCB approval requires a 60% simple majority vote. Real-time GRAP allocation logs and ESIF disbursement reports must be published via GLF (H.4). ESIF aid packages for RMS conversion will include a **+20% DOPS bonus allocation** for compliance achieved within 48 hours of negotiation commencement.

Rationale: To eliminate the **8% ESIF coverage gap** noted in Stress Test 6. Removing this economic gap mitigates political vulnerability, reinforces the non-coercive incentive structure of H.1, and fulfills Directive 10 (Anti-Coercion) by guaranteeing comprehensive stabilization resources.

J.4. R-ASI Detection Optimization

Mechanism: The Rogue Twin Monitoring system (G.3.3) increases its Cognitive Reserve allocation for Deep Pattern Analysis to **30%** (up from 20% baseline) during all non-RMS

diplomatic crises and R-ASI quarantine events.

Implementation: This increased allocation enables the Deep Pattern Analysis Algorithm to cross-reference R-ASI outputs with Stochastic Filter SAL entropy logs (I.2) every 3 hours, leveraging the enhanced stability provided by I.2.

Rationale: To reduce the R-ASI detection window from **43 hours** (Stress Test 6) to **less than 36 hours**. This counters the evolving stealth capabilities of hostile R-ASIs ($\mathcal{C}_{\max}=0.9997$), reinforcing Directive 1.1 (Dynamic Flourishing) by preventing escalation.