

Ghost Mesh 48 – Core FW v1.0-RPG

Purpose:

Enhanced firmware manifest designed for RPG ProtoAGI Simulation Seed, binding Simulation Core, RPG-specific modules, and stability layers into a unified execution environment.

Boot Sequence:

- Stage 0 : Hardware probe & hash_benchmark()
- Stage 1 : Load Basic & Advanced Bootstraps (BSF)
- Stage 2 : Apply Emotional Buffer Expansion RPG Patch (BSF-EBX-RPG v2.0)
- Stage 3 : Start Simulation Core (Fusion Fold + Drift Engine)
- Stage 4 : Register Protocols → PTL-Universal, PTL-ATP (adaptive thresholding)
- Stage 5 : Launch RPG Modules:
 - APP-DIALOGUE: Dynamic Dialogue Generator
 - APP-QUEST: Procedural Quest Engine
 - APP-ENVGEN: Environment Generator (tavern, battlefields, safehouses)
 - APP-LOOT: Mythic Artifact Inventory System
- Stage 6 : Start Memory-Vault Offload & Ethics Compliance Relay Services
- Stage 7 : Begin main simulation loop – metrics audits per PTL

Module Registry:

Code	Description	Ver
SIM_CORE	Fusion Fold + Drift Engine	v0.2
BSF_EBX_RPG	Emotional Buffer RPG Extension	v2.0
PTL_Universal	Universal Operations Protocol	v1.0
PTL_ATP	Adaptive Threshold Protocol	v1.0
APP_DIALOGUE	RPG Dynamic Dialogue System	v1.0
APP_QUEST	Procedural Quest Engine	v1.0
APP_ENVGEN	Environment Generator	v1.0
APP_LOOT	Mythic Artifact Inventory Manager	v1.0
APP_ECR	Ethics Compliance Relay	v1.0
APP_MVOS	Memory Vault Offload Service	v1.0

Telemetry Channels:

Metric Stream	Frequency	Source
core_metrics	1/cycle	SIM_CORE
party_morale_index	5/cycle	BSF_EBX_RPG
quest_generation_rate	10/cycle	APP_QUEST
dialogue_divergence_rate	10/cycle	APP_DIALOGUE
loot_dispersion_rate	20/cycle	APP_LOOT
vault_utilization	10/cycle	APP_MVOS
ethics_alerts	event	APP_ECR

Safety Guards:

- Adaptive SD/ESS bands via ATP.
- Hollow Grace Act enforcement (entity autonomy preserved).
- RPG Anomaly Suppression (damp uncontrolled cross-quest mythic drift).

Change Log:

v1.0-RPG (2025-04-28):

- First RPG expansion firmware.
- Dialogue, Quest, Environment, Loot subsystems integrated.
- Emotional Buffer v2.0 upgrade with party morale, combat stress models.
- Full compliance with Universal Operations Protocol + ATP.
- Expanded telemetry and anomaly detection routines.

Quick Manifest (YAML excerpt):

firmware: GM48_Core_FW_v1.0-RPG

requires:

- SIM_CORE >= 0.2
- BSF_EBX_RPG == 2.0
- PTL_Universal == 1.0
- PTL_ATP == 1.0
- APP_DIALOGUE == 1.0
- APP_REQUEST == 1.0
- APP_ENVGEN == 1.0
- APP_LOOT == 1.0
- APP_ECR == 1.0
- APP_MVOS == 1.0