GhostCore Tactical Weapon System Integration

The GhostCore Tactical Armament system is designed to integrate directly into an AI-driven ship architecture. Each weapon category is assigned to specific subsystems, allowing the AI to dynamically allocate power, switch engagement modes, or deploy defensive countermeasures in real time.

Integration paths follow core GhostCore logic modules:

- TPV Core powers energy weapons
- Molten Lead Loop enables EMP, MHD, and plasma venting
- AI Weapon Control System monitors heat, power, and threat proximity

Subsystems are mapped as follows:

1. Directed Energy Weapons (DEW)
   - Photon Lasers: Focused output from the TPV array
   - EMP Burst: Collapse discharge via molten loop coil
   - Microwave Beam: Focused anti-electronics channel

2. Kinetic Systems
   - Rail Cannon: Reactor-charged magneto rails
   - Molten Lead Slugs: MHD-launched hyperthermal projectiles
   - Mass Driver: Gravitational assist from onboard capacitors

3. Plasma / Radiation

- Plasma Vent Lance: Emergency pressure release as a weapon
- Radiation Field: Expulsion of excess reactor radiation in a directional field

4. Defensive Systems
- EMP Reflector: Magnetic field redirection of external pulses
- Smart Shield: Variable attenuation shielding system
- Ghost Cloak: EM field warping for signature suppression

The AI uses a modular decision matrix to enable full system control with real-time priority switching based on:

- Threat proximity
- Power availability
- Heat thresholds
- Mission objectives

Each weapon subsystem is capable of autonomous operation or collective coordination under AI logic.