**WHAT**

**Operational Need and Improvement:** Adaptive, cross-domain web-enabled planning and optimal resource allocation, LG-RAID produces optimal sensor and weapon target pairing that is based on the current intelligence information and internal estimates of threat forces. This allows the commander to assess and prioritize resources in a rapid and quantitative fashion. Mission additions (adds) and deletions (drops) can be made quickly based on quantitative metrics such as target servicing sequence and delivery times. LG-RAID’s animated Enemy Course of Action (ECOA) can be produced in real-time on hand-held (tablet), desktop, stand-alone server, or cloud-based server applications. Estimation of Enemy location and intent (ECOA) enables rapid operational planning, mission execution and supervised autonomy of Automated Resource Controllers and Battle Management Aids including: Integrated Air & Missile Defense of Ships and Littoral Forces, C2 & Decision Aiding, Combating Asymmetric and Irregular Threats, Naval Platform and Systems Operational Availability Training

**Specifications Required:** Host Application Interface Control Documents or Software Developer Kit (SDK).

**Technology Developed:** The underlying technology is an Artificial Intelligence-based cross domain LG-Hypergame. The LG-Hypergame provides an E-Commerce equivalent cost function. In this fashion, movements and actions in one domain are simultaneously evaluated (cost versus benefit) for their impact on other domains. This information is displayed in near real-time allowing the commander to visualize and quantitatively select and coordinate the most suitable cross domain and intra domain Course(s) of Action for their assigned mission(s).

**Warfighter Value:** The complexity of integrating forces has eclipsed the human’s ability to make timely decisions, synchronize fires, and optimize allocation of resources. LG-RAID supports the volume and diversity of data required to make tactical decisions in a dynamic and uncertain environment. This capability improves the commander’s ability to plan and quantitatively evaluate multiple “what if” analyses and adapt quickly to dynamic and evolving threats.

**HOW**

**Projected Business Model:** LG RAID Software Application will be integrated into a Program of Record (AEGIS), STILMAN provides on-going enhancements, maintenance and technology support

**Company Objectives:** Transition LG-RAID into the Maritime and Cross Domain Applications that need automated planning and Battle Management Decision Aids

**Potential Commercial Applications:** Unmanned system control, planning for optimal employment of manned and unmanned Law Enforcement assets

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