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Accelerating Decision Advantage: Embedding Modular AI Orchestration in the Indo-Pacific Enterprise

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Abstract:

In the Indo Pacific theater, vast distances, contested domains, and disparate systems strain command agility and decision cycles. Embedding a modular, vendor agnostic AI orchestration capability early in mission architectures, via a lightweight middleware layer, empowers commanders and operators to dynamically integrate sensors, AI/ML models, and analytics across domains in ways that they have never before been capable.

By prepositioning this orchestration framework:

- Connectivity interruptions become opportunities: models and data adapt in real time to contested or degraded networks.
- Stealthy force multipliers emerge: edge nodes reconfigure on-demand and remotely to support allied UxVs, island C2 nodes, or maritime ISR platforms.
- Decision clarity accelerates: fused outputs can be translated via LLM technology into digestible and actionable operational briefs, enhancing operational briefs, enhancing OODA loop velocity.
- Ecosystem agility scales: coalition partners, commercial partners, and classified networks can be bridged without stovepipes.

This approach directly supports INDOPACOM's "Sword & Shield: Ensuring a Secure, Free, and Prosperous Indo Pacific" mission, enabling integrated deterrence, resilient C2, and partner ready AI advantage across sea, air, undersea, and cyber domains. We'll illustrate these benefits through conceptual deployments involving maritime ISR, distributed sensor webs, and allied force interoperability, showing how early adoption of orchestration translates to decisive operational scale and speed.