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12:10 PM – 12:30 PM

## ***How Graph Technology Powers Decision Superiority***

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### **Abstract:**

Warfighters need a 360-degree operational view—one that reveals the disposition, capabilities, and readiness of their assets and forces, as well as those of adversaries. As hybrid fleets and autonomous systems redefine how forces maneuver and fight—often in contested, degraded environments—the ability to use rapid, contextual information is essential to achieving maritime dominance.

Connected data, paired with semantic queries, provides the actionable intelligence warfighters need. Graph technology surfaces context from non-explicit or otherwise undiscovered relationships in data, rapidly ingesting and organizing information from diverse structured and unstructured sources. Relationships are explicitly computed as data is loaded, creating a network of connected information optimized for fast, deep analysis.

Graphs enable organizations to model and analyze real-world systems, delivering context-aware, real-time insights that improve decision-making at speed and scale. AI agents extend this capability by allowing warfighters to access graph technology through natural language, with support from large language models, MCP, and GraphRAG. Simple prompts unlock powerful, multi-layered queries that deliver rich analytics in seconds.

During this session, we will explore:

- What a graph is, how it is constructed, and why it matters for complex mission environments.
- High-value use cases across logistics and supply chain; intelligence analysis and targeting; cybersecurity; and situational awareness.

- How DoD agencies are combining graph technology with generative AI and agentic applications to support and accelerate mission outcomes.

Learn how to equip warfighters with timely, accurate, and attributable information. The result is a resilient decision environment that accelerates sense-making and enables warfighters to compress the observe, orient, decide and act (OODA) loop across domains.







