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11:40 AM – 12:00 PM

Accelerating Maritime Readiness with AI Driven Observability and Autonomous IT

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Abstract:

 The ability to sense, decide, and act with speed and precision is essential as the Sea Services navigate increasingly complex and contested maritime environments. Ships, aircraft, expeditionary forces, and shore commands now operate as part of an interconnected digital ecosystem, one that must remain resilient, secure, and mission-ready even under cyber pressure and degraded communications. Traditional IT management approaches cannot keep pace with this operational reality. Sustaining maritime readiness requires a new model: intelligent, automated, and continuously adaptive.

This session presents a cutting-edge approach that applies AI driven observability, automated reasoning, and autonomous IT operations to transform how naval and expeditionary organizations manage their digital infrastructure. By unifying telemetry from networks, sensors, applications, weapons systems, and command-and-control platforms, AI synthesizes vast volumes of machine data into actionable insight. Instead of operators sifting through noise or reacting to alerts after the fact, AI highlights what matters most, revealing anomalies earlier, identifying mission impacts faster, and enabling timely, informed action.

Attendees will learn how modern AIOps capabilities reduce manual workload by automating correlation, triage, and root-cause analysis. In shipboard or expeditionary environments, where personnel are limited and downtime is unacceptable, this automation becomes a force multiplier. Intelligent systems can diagnose performance degradation, predict failures, and take corrective action within defined guardrails. The result is IT that not only supports the mission but actively sustains it.

The session will also explore how autonomous IT enhances cyber resilience, a critical requirement for operating effectively in the contested maritime domain. By continuously monitoring behavior patterns and detecting anomalies indicative of intrusion or system compromise, AI enables earlier and more precise containment and remediation. This strengthens the digital survivability of distributed maritime operations, amphibious missions, and forward-deployed forces.

Finally, the discussion will outline practical steps Sea Service organizations can take today to adopt AI driven observability and automation, including data integration, phased AI adoption, and effective human–machine teaming. The goal is not to replace operators, but to elevate them, reducing cognitive load, accelerating decision cycles, and enabling them to focus on mission execution rather than system firefighting.

Through this innovative approach, the Sea Services can build the agility, resilience, and decision advantage required to succeed in the operational environment ahead.