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11:00 am - 11:20 am

MESA Partner Networks: Cross Domain Collaboration and AI Integration in the Indo-Pacific

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Abstract:

In the Indo-Pacific, mission success depends on the ability of partners to share information securely across organizational and national boundaries. Traditional approaches, such as point-to-point VPNs, COMSEC devices, and dedicated circuits, introduce cost, delay, and security exposure. These barriers limit both operators and AI-enabled systems that rely on cross domain access to trusted, multi-source data for timely decision-making.

The Multi-Enterprise Spanning Architecture (MESA), built on Trusted Thin Client (TTC) technology, represents a new evolution in Cross Domain Solutions. Rather than extending network perimeters, MESA interconnects independent TTC environments into a distributed Partner Network. Each organization maintains sovereignty over its infrastructure and data while selectively granting controlled access to trusted mission partners. This enables human operators to receive only the information they need, such as rendered outputs or pixel streams, while AI models and sensitive data remain protected from direct access or manipulation.

This interactive session will explore how mission partners can rapidly extend cross domain collaboration, integrate AI, and preserve sovereignty while strengthening interoperability across the region.

Key benefits for Indo-Pacific missions include:

Strengthened Partnerships: Secure multi-lateral collaboration without exposing internal systems.

AI-Ready Information Access: AI tools gain near-real-time, high-fidelity data from multiple partners while safeguarding models from manipulation.

Operational Agility: Information-sharing timelines shrink from months to days, accelerating decision cycles.

Resilient Security Posture: Zero trust cybersecurity principles are upheld while enabling dynamic multi-partner operations.