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***Rapidly Deployable 5G & Edge AI: Accelerating Decision Dominance Across the Indo-Pacific with iMERS***

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**Abstract:**

The vast and often disconnected environments of the Indo-Pacific region present significant challenges to rapid decision-making, secure data transfer, and the deployment of advanced analytics at the tactical edge. Traditional networks struggle to support high-throughput, low-latency applications like AI at the edge or to provide resilient communication during emergencies and deployments, leading to reduced mission agility and operational vulnerabilities. Effectively addressing these challenges requires cutting-edge solutions for secure, resilient communications and accelerated data-driven insights.

Insight's iMERS platform, integrated with Private 5G capabilities, offers a transformative solution for "Sword & Shield: Ensuring a Secure, Free, and Prosperous Indo-Pacific". iMERS is a compute platform for multi-network communications including 4G/5G, SATCOM, and MILSATCOM. This solution provides local 5G capability and bandwidth-optimized SATCOM backhaul, enabling AI at the Edge and the extension of Live Virtual Constructive Training to the Edge. It supports critical applications like Vcinity data acceleration, video processing, Virtual/Augmented/Mixed Reality solutions, and Command and Control (C2). Private 5G, a strategic modernization priority, further integrates mission-specific devices, secure data transfer, autonomous systems, and edge compute for environments from military bases to forward operating bases (FOBs).

This integrated approach ensures uninterrupted connectivity and reliable performance even in challenging or austere conditions, overcoming Wi-Fi's limitations and supporting latency-sensitive applications. It enables bi-directional data transfer between command and tactical edge for critical assets like IAVA files, maps, and inflight data ingest for analytics, while optimizing WAN bandwidth. By accelerating the understanding of complex scenarios through AI-enabled analytics and secure, resilient communications, this solution significantly enhances "mission readiness," "operational security," and the ability to "accelerate strategic advantage" across the Indo-Pacific. The platform's flexible, open architecture allows for multiple use cases and rapid reconfiguration, ensuring adaptability to evolving threats.