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3:30 PM – 3:50 PM

Act Globally Defend Locally: Ingesting Sensor Feeds Across MDO

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Abstract:

Developing a comprehensive situational awareness capability requires the ability to connect sensor data from multiple domains across the enterprise. In DoD, this effort is complicated by decentralized data sources, tactical networks experiencing intermittent comms and of course multi domain networks at various classification levels. While traditional approaches to situational awareness typically involve a data lake approach which requires selective forwarding of data to centralized locations, valuable insights could be lost because data is typically restricted by classification domain and not all the data is accessible.

WWT will show a new approach for situational awareness and data analytics that can provide more comprehensive access to data across the department as well as allow for powerful analytics designed to identify adversaries and provide better awareness. A consistent scalable platform enabled by a cross domain solution creates the foundation to rapidly ingest data across multiple domains for faster analysis, rapid application updates through the CI/CD pipeline and simplified training and operations requirements. Additionally, emerging concepts like federated machine learning will allow the development and training of powerful AI/ML models without the need to move large amounts of data to a centralized location through congested networks yet maintain security and data protection of data at various classification levels. During this presentation we will deep dive in to these concepts for data aggregation across networks and discuss this new paradigm. We will include lessons learned from our efforts with a DoD Customer.