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9:00 AM - 9:20 AM

A Commander's-Intent-driven Network to enable Cyberspace Operations from the Tactical Edge and Beyond

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Abstract:

As the Army makes the network its top priority to enable operations, Commanders must ensure that they are prepared and equipped to improve the readiness of their units. Today's modern, leading edge Commander's Intent-driven software-defined network will support the Army's ability to impose its will at the tactical edge.

A Commander's Intent-driven, hybrid cloud network architecture revolutionizes Army Cyberspace Operations by implementing advanced software-defined networking, analytics, automation, and orchestration—consistent with the DoD Zero Trust security framework. The Commander's Intent-driven network is designed to provide a secure, agile, and resilient medium of maneuver for data and applications, thereby granting decisive operational advantages from the strategic to the tactical level. This approach emphasizes the critical role of data as an operational asset and the necessity of a network capable of connecting data from the edge to hybrid multi-cloud environments with speed and elasticity. It is imperative that Commanders understand these capabilities to provide guidance, facilitate training, and execute operations.

The execution of this vision entails the implementation of next-generation intent-based networking and distributed computing to empower the Army by securely integrating data, computational power, and AI-driven applications at every decision echelon. The network architecture facilitates accelerated decision cycles and supports an operational environment where data center, multi-cloud, and edge infrastructure dynamically adapt to mission needs. A Commander's Intent-driven network is built on AI/ML-enabled networking and security solutions—providing an intelligent mission fabric that can dynamically draw on distributed resources to provide scalable computing and meet point-of-need requirements in real-time while defending dynamically against attacks. In this session, we

will outline the training requirements that will enable commanders to dynamically deploy Cisco's AI-enhanced data center, multi-cloud, and edge infrastructure.

As the Army makes the network its top priority to enable operations, this approach forms the groundwork for continuous modernization and innovation through an AI/ML-native network that operates with unprecedented visibility, agility, and security. This foundation will be pivotal for maintaining superiority in a data-driven operational landscape, where warfighters increasingly rely on an assured network as the backbone for mission success.