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***Leveraging Army Investments in VMWare Technologies to Meet Target Level Zero Trust and the Path to Advanced ZT***

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VMware's suite of products, including NSX, Threat Prevention, and Multi-Cloud services, all with a zero-trust focus, offer a comprehensive solution to address the defined problems.

**Bandwidth Limitations:** VMware NSX optimizes network performance and bandwidth utilization with its software-defined networking (SDN) capabilities. Through smart routing, prioritization, and network virtualization, NSX ensures the efficient use and management of available bandwidth, thereby reducing the limitations at the tactical edge.

**Hybrid Cloud Solutions:** VMware's multi-cloud services leverage the power of VMware Cloud Foundation to simplify the deployment and operation of a hybrid cloud. This facilitates seamless and secure data exchange between cloud environments (Army, Commercial, or Private) and the tactical edge, offering benefits like scalability, resilience, and efficient resource utilization.

**Converged Data Transport:** VMware NSX provides a secure, efficient, and cost-effective solution for the transport of converged data. By leveraging a software-defined approach, NSX enables secure machine-to-machine data exchanges integral to C5ISR/EW systems. The zero-trust model ensures only authenticated and authorized entities can access and communicate within the network, contributing to security.

**Tactical Edge:** VMware's solutions are built to deliver high performance even on small form factor devices at the tactical edge. Integrating AI/ML capabilities, they can execute cognitive weaponeering

tasks for EW using ES operational information, enhancing the operational effectiveness and decision-making process.

**Dynamic Spectrum:** VMware NSX allows for dynamic management and allocation of network resources, including spectrum access. Through the use of SDN, it can support real-time adjustments to network configurations, ensuring robust EMS-dependent capabilities even in contested and congested environments.

**Risk and Opportunity Correlation:** VMware's Threat Prevention platform utilizes AI/ML algorithms to correlate data and inform of emerging risks and opportunities. This capability aids commanders in making timely and data-driven decisions to ensure the success of ongoing missions.

**Cyberspace Social Layer:** Leveraging zero-trust principles, VMware's suite can create a cyberspace social layer that effectively identifies and correlates actors, units, activities, and affiliations. These insights can then be incorporated into the Common Operating Picture (COP) and Military Decision-Making Process (MDMP) products, promoting situational awareness and informed decision-making.