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## **Cyberspace Operations in Multi-Domain Operations**

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Abstract:

The Army's integration of Cyberspace Operations into Multi-Domain Operations (MDO) involves leveraging advanced technologies and strategic planning to enhance operational effectiveness across all domains. At the tactical edge, where bandwidth and resources may be limited, Palo Alto Networks' solutions are designed to be efficient and effective. Our solutions are optimized for performance in constrained environments without compromising on security effectiveness. Robustness and reliability are critical, ensuring continuous operation even in challenging conditions where units operate in dynamic and potentially hostile environments.

At Palo Alto Networks we know that Cyber as a Domain has to be fully integrated into the commander's operational picture like fires, aviation or any other asset. The fight in cyberspace can be readily managed and executed through security orchestration, automation and response as key tenets to protecting and defending the digital domain. This space can be well defended through an array of sensors which collect information and then through AI-enabled orchestration, we can automate a series of programmed and dynamic responses to remediate the impact of the threat and even deploy countermeasures to fend off future attacks. Modern solutions to the problem enable us to thwart these attacks regardless of vector — traditional network infrastructure, modern 5G, or even on innovative platforms like the XM30, airborne platforms or in the connections between sensors and shooters. Commanders have a unified picture of their complete battle plan, from the phase lines in their mission to IP addresses in their networks — all at the speed of electrons.