

Tuesday, August 18

1:40 PM – 2:00 PM

Reducing Cognitive Burden Through Intelligent Operational Insights

Bill Roberts

Federal Field CTO

Riverbed

Abstract:

Army operations generate unprecedented volumes of data across networks, applications, endpoints, cloud environments, platforms, and mission systems. While access to data continues to increase, operators are often challenged by fragmented information sources, competing priorities, and the growing complexity of managing digital environments. As data volumes expand across tactical and enterprise environments, success increasingly depends on reducing cognitive burden by transforming vast amounts of operational data into clear, actionable insights that help operators identify what requires attention, understand potential mission impact, and make data-driven decisions with greater speed and confidence.

This session will examine how modern approaches to AI-driven analytics, intelligent alerting, automated correlation, root cause analysis, and intelligent prioritization can help reduce operator workload and improve operational effectiveness. By surfacing the most relevant information at the right time, reducing noise, identifying meaningful relationships across disparate data sources, and accelerating issue identification, organizations can enable operators to quickly understand what is happening, why it is happening, and what actions require attention without manually sorting through multiple systems and dashboards.

Attendees will gain practical perspectives on reducing complexity, improving resilience, and supporting faster, more data-informed decision-making in increasingly dynamic and contested environments. The discussion will explore how intelligent operational insights can help commanders, signal personnel, cyber defenders, and network operators focus on mission execution rather than data collection and troubleshooting, while improving situational awareness, prioritizing mission-critical issues, and enabling smaller teams to effectively manage increasingly complex enterprise and tactical environments. Ultimately, organizations can transform growing volumes of operational data into actionable information that strengthens mission readiness and supports mission success.