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10:00 AM - 10:20 AM

Intent to Action: Reducing Operator Cognitive Load Across the Zepharis™ Suite

Nate Delgado

Director of Software Products

Sealing Technologies

Abstract:

This presentation covers the challenges of operator cognitive load at the tactical edge and how SealingTech's Zepharis™ Software Suite: Zepharis™ AI, Zepharis™ Kit Deployer, and Zepharis™ Lifecycle Management, addresses it through intuitive, error-resilient interfaces that let cyber warfighters operators focus on high-level reasoning rather than menu navigation. At the edge, operators burn scarce mental bandwidth on the mechanics of their tools: composing complex query syntax, navigating menu-deep workflows, and hand-assembling data across disconnected interfaces, often while fully offline. This load falls hardest on junior operators, who can articulate intent but lack the experience to execute, pulling entire teams away from the reasoning the mission demands.

To address this, the Zepharis sSuite applies a single principle across three capabilities: collapse complex, error-prone, multi-step work into one deliberate action.

Zepharis AI replaces query syntax with natural-language querying, letting operators move from intent to action across their SIEM, IDS/IPS, and hypervisor tools while automating detection engineering—elevating junior analysts toward senior-level capability without added training.

Zepharis Kit Deployer replaces manual, babysat setup with one-push deployment that configures and networks 20-plus tools in hours rather than days through standardized, error-free provisioning.

Zepharis Lifecycle Management retires the spreadsheets used to track fleet status, patching, licensing, and warranties, surfacing that data through a single view that relieves operator toil while giving decision-makers and PMOs real-time visibility. To meet the unique security requirements of cyber operations, the entire suite is built on a fully air-gapped

architecture, ensuring these capabilities remain effective without reliance on external connectivity.

The presentation will share how the Zepharis sSuite continues to evolve and expand its capabilities based on mission operator needs and a rapidly shifting technology environment. The deeper payoff is not saved clicks but reallocated cognition: by absorbing the mechanical load of the operator's stack, these interfaces let teams reason through their data, asking the system to help think through what a detection is actually telling them, and concentrate on the judgment only humans can provide. By bridging the gap between complex, error-prone tooling and the disconnected warfighter, SealingTech ensures that defenders can focus on hunting adversaries more effectively and efficiently in any challenging environment.