

Tuesday, May 6, 2025

11:10 am – 11:30 am

Revolutionizing Cyber Hunt Operations At The Edge With Portable, High-Performance Solution

Richard "Trey" Howard

Senior Software Engineer

Omni Federal

Abstract:

The Department of Defense (DoD) faces increasing challenges in safeguarding its networks from sophisticated cyber threats. For securing Edge networks in particular, approaches considered best practice for securing centralized cloud-based networks are often not appropriate. This poses a significant challenge to DoD organizations operating in Edge environments, as the required approach in responding to an attacker's tactics, techniques, and procedures are often significantly different than for traditional cloud-based networks. Edge networks, a specific sub-type of DoD enterprise networks, are best protected with specialized solutions designed explicitly for defense at the Edge.

Join us for this educational segment where we describe the lessons learned in building for Edge defense via our development of REDHOUND, a new cyber hunt kit offering by Omni Federal. Built specifically to address the unique challenges posed by Edge environments, REDHOUND delivers successful mission outcomes by bringing the fastest performance speeds, the lowest power usage, a very small form factor, and the latest technology in a modular and transportable kit. A comprehensive solution, REDHOUND provides all the software and hardware needed for Edge Missions – for today and for the future.

Attendees of this session will gain valuable knowledge including:

- Understanding the key differences between defending cloud-based enterprise networks and Edge enterprise networks.
- Learning about the specific cybersecurity challenges posed during Edge missions.
- Experiencing the unique lessons our cybersecurity team learned through both their former careers as cyber operators and their current careers as solutions developers - and how this shaped our development of REDHOUND.
- Developing an understanding for why Omni adopted novel approaches in building our REDHOUND solution to address the key needs of Edge mission requirements for today's and tomorrow's Edge networks.