USD R&E

Undersecretary of Defense for Research and Engineering
Capability Prototypes

RSVP Instructions
(Please complete NLT 22 Sep 2022)

If you plan on attending this event, please RSVP via https://e.afit.edu/75kkJVjk no later than 22 Sep 2022. A package containing logistical, safety, and schedule details will be provided upon RSVP. Please direct any questions you have to thunderstorm-gov@gtri.gatech.edu. Attendance is limited to military, US Government employees, and SETA contractors. All non-federal government attendees will be required to complete a non-disclosure agreement.

Demonstration Results

The results of this Contested Logistics demonstration effort, along with previous technology demonstrations are available to Department of Defense organizations and their partner organizations by contacting the Capability Prototypes Office at osd.pentagon.ousd-atl.list.rrto-poc@mail.mil.

Technology vendors representing industry, academia and government will present their technologies aimed at tackling Contested Logistics challenges in the following focus areas:

• Electromagnetic Spectrum Solution
• Information Operations Solutions
• Logistics Under Attack
• Spectrum Maneuverability Solutions

A full technology vendor list is shown on the reverse side of this announcement.

THUNDERSTORM TECHNOLOGY DEMONSTRATION AND EXPERIMENTATION 22-2 INVITATION

THUNDERSTORM

Battlespace Management in Contested Environments

27-30 September 2022

The Crucible
60 JACK ELLINGTON RD, FREDERICKSBURG, VA 22406

Thunderstorm Technology Demonstration and Experimentation 22-2 Invitation

The OUSD(R&E) Capability Prototypes invites interested government personnel and their SETA contractors to witness 22-2 demonstrations September 27 – 30 at The Crucible (Fredericksburg, VA)

Demonstrator	Technology Name	Description
Electromagnetic Spectrum Solutions		
Aalyria Technologies	Atmospheric Free Space Optics (A-FSO)	A-FSO is a revolutionary, atmospheric-native FSO that solves for jitter, high-efficiency coupling, and atmospheric adaptation (including wavefront correction & sensing) using a common subsystem that contains all required corrections for land, sea, air, and space.
Rafael Systems Global Sustainment (RSGS)	BNET Family of Radios	BNET Software-Defined Radios (SDR) is a family of advanced, tactical broadband IP-MANET (Mobile Ad Hoc Network) [mesh network] that provides reliable high-speed, low-delay connectivity for broadband data, voice and video on-the-move for ground and airborne platforms, HQs, and dismounted soldiers.
Information Operations Solutions		
BigBear.ai	Ursa Major	BigBear.ai specializes in analytics and artificial intelligence/machine learning (AI/ML) processes designed around customer needs, along with easy-to-use and fully featured user interfaces.
Blue Halo	Scraawl	Scraawl® provides (i) monitor, (ii) search, (iii) analysis, and (iv) visualize capabilities.
Cellebrite	OSINT Analyze	Cellebrite OSINT Analyze gives agencies the means to collect, analyze, and report on open-source intelligence from many dynamic sources around the web and beyond including deep and dark web, sites that require login details, form submission pages, forums, social networks, and messaging applications.
Chesapeake Technology International	CUPID	CUPID (Common Unified Platform for Information Dominance) is a developing government-open platform for providing near-real-time artificial intelligence powered analysis and tracking of global social media, news, blogs, discussion forums, RF communications, and 802.11 wireless traffic in mere seconds to answer commander's critical information requirements.
Echosec: A Flashpoint Company	Echosec Systems Platform	The Echosec Systems Platform is a web-based application that aggregates and indexes raw data from a wide range of social media, deep web, and dark web networks.
Seerist Federal	Hyperion AI	Hyperion continuously collects, aggregates, and analyzes threat information using news, social media, economic indicators, governance indicators, travel warnings, weather, and other data from 6.8M+ unique sources, ingesting 150,000+ new pieces of data daily.
Illuminate Mission Solutions	MOSAIC	MOSAIC takes a data-enabled, human centered approach to fulfill these requirements through the centralized collection and analysis of large volumes of data supporting Target Audience Analysis (TAA), discriminating message drivers and sentiment, graph analytics of key influencers, and gisted themes and messages.
Influence Apps Inc.	The Influence Platform	The Influence Platform provides proprietary OSINT capabilities to conduct sentiment analysis across populations in near real-time; develop, test, and amplify narratives that resonate with target audiences; and collect actionable intelligence by leveraging publicly available information and ad tech.
NexusXplore	NexusXplore	NexusXplore (NX) is an internet browser accessible platform that has enabled law enforcement, military, and intelligence users to conduct advanced searching on major and alt-tech social media platforms, and deep & dark web sources with automated cross-platform link analysis.
RGBSI	INSIGHT	INSIGHT is an AI-enabled, architecture for the rapid ingestion, collation, computation, and interrogation of unstructured and structured data.
Sayari Analytics	Sayari Graph	Sayari Graph, is a cloud-based user interface designed to query Sayari's core Graph database of hundreds of millions of pre-built entity profiles (470 million companies; 500 million people), corporate hierarchies, and network visualizations.
Skopenow	Skopenow	Skopenow is an automated SaaS platform which pulls from OSINT, across social media, the clear web, and breaches from the dark web. All OSINT data is analyzed using machine learning and artificial intelligence to contextualize potential identifiers indicative of identifications of relationships, and social network analysis.
Logistics Under Attack		
Chesapeake Technology International	Digital Overwatch	"Digital Overwatch for Logistics" provides constant measurement and automated analysis of data from multiple smartphones enables a true picture of the baseline RF environment to be created and allows machine learning (ML) processes to become less focused on complex analytic decision trees and more focused simply monitoring for measurable changes from the ambient baseline.
Spectrum Maneuverability Solutions		
Booz Allen Hamilton	SpectrEM Pulse	SpectrEM Pulse provides the means to dynamically leverage edge sensors across a fragile, multi-transport, tactical network architecture to monitor the EMS to enable population of an EW Common Operating Picture.
Chesapeake Technology International	Merlin	Merlin provides computational analytics for modeling and simulation of spectrum-based environments include capabilities, effects, impacts, and conflicts.
Rohde and Schwarz	CEPTOR	CEPTOR encompasses monitor, detect, classify, demodulate, locate and report of radio emissions into one intuitive human to machine interface (HMI), enabling operators to switch between missions with the click of a mouse negating the need for multiple systems to complete the electronic warfare (EW) and battlespace management missions.
Shared Spectrum Company	Spectrum Agile Radio	Shared Spectrum Company's Spectrum Agile Radio uses spectrum sensing, geolocation and time-based evidence with a distributed architecture to rapidly (seconds) adapt a communications waveform for resilient operations.
Thales Defense and Security	Electronic Warfare/Cyber Security (EWC) Module	EWC is <1lb and capable of detecting communication signals from 5MHz to 6GHz spectrum, classifying the modulation scheme and locating the origin of the signal using sophisticated RF sensing, geo-location and modulation recognition technology.
Additional Capabilities		
Red Lotus Technologies	VAST	VAST V.4 provides an objective, visual display to an operator or supervisor of HHD sweep performance while also exporting visual clearance and location data into battlefield C2 systems.