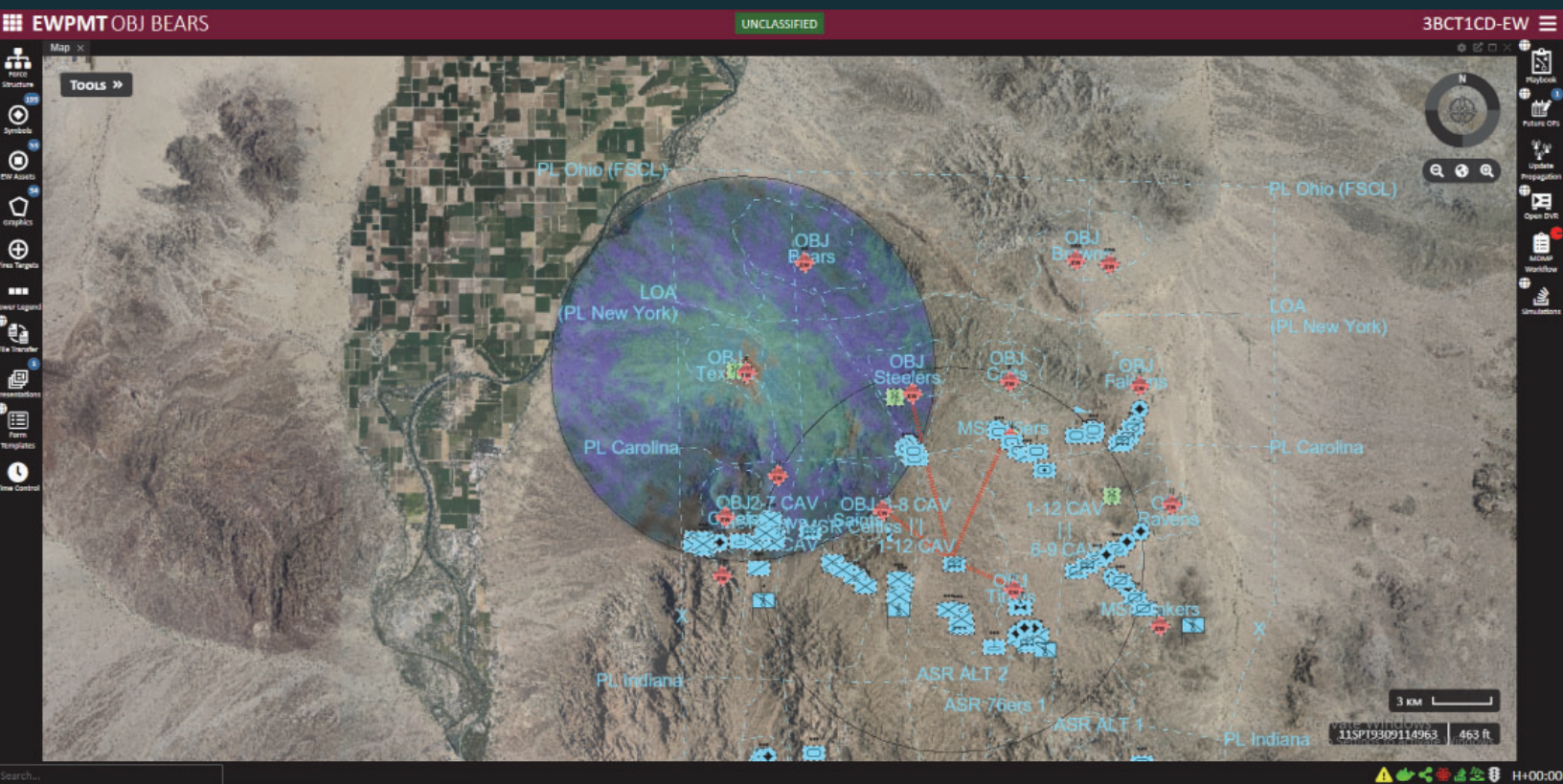


Electronic Warfare Planning and Management Tool (EWPMT)



The Army conducted the Electronic Warfare Planning and Management Tool (EWPMT) IOT&E in 4QFY21. DOT&E assessed EWPMT as operationally effective at supporting electromagnetic spectrum planning and management operations, demonstrating the capability to support the commander's Military Decision-Making Process subject to performance issues detailed in the classified IOT&E report published in May 2022. EWPMT is operationally suitable, demonstrating high operational availability. The Army intends to assess the remote management of electronic warfare assets in FOT&E events scheduled in FY25.

SYSTEM DESCRIPTION

EWPMT Increment 1 (INC1) is part of the Army's efforts to rebuild electronic warfare (EW)

capabilities lost after the Cold War ended. It is a software application that resides on a laptop or server, enabling a unit to conduct EW mission planning, EW targeting, spectrum management, EW asset management and control,

and to create an electromagnetic operating environment common operational picture. The Army intends for EWPMT to provide local and remote operational control and management of organic and assigned electronic warfare assets

and integrate with the Terrestrial Layer System (TLS) and the Multi-Function Electronic Warfare – Air Large (MFEW-AL) system to execute electronic support and electronic attack.

MISSION

EWPMT INC1 is expected to provide Army corps, divisions, and brigade combat teams with software toolsets to integrate EW and spectrum management operations in support of multi-domain operations. EWPMT is used by the Commander, Electronic Warfare Officers, and Electromagnetic Spectrum Managers to plan, coordinate, integrate, and synchronize cyber electromagnetic activities.

PROGRAM

EWPMT is an Acquisition Category II Automated Information System program. The Army developed and deployed an early version of EWPMT INC1 to a limited number of brigade combat teams in response to an Operational Needs Statement. The EWPMT full deployment decision is expected in 3QFY23. The development and testing of EWPMT is guided by a Simplified Acquisition Management Plan (SAMP) rather than a traditional Test and Evaluation Master Plan (TEMP). The EWPMT SAMP integrates the TEMP, System Engineering Plan, and the Acquisition Strategy. DOT&E approved the SAMP in August 2021. EWPMT will conduct FOT&E events in FY25

in conjunction with TLS IOT&E and MFEW-AL IOT&E to evaluate EWPMT's ability to manage and control EW systems. The EWPMT FOT&E is delayed two years due to a slip in the MFEW-AL and TLS programs.

» MAJOR CONTRACTOR

- Raytheon Company – Fort Wayne, Indiana

TEST ADEQUACY

The Army's 2nd Stryker Brigade Combat Team, 4th Infantry Division conducted IOT&E in conjunction with a command post exercise in August 2021 at Fort Carson, Colorado, in accordance with the DOT&E-approved test plan, and was observed by DOT&E. IOT&E was adequate to support an assessment of operational effectiveness, suitability, and survivability. The IOT&E included an adversarial assessment to evaluate the EWPMT's cyber survivability.

The Army conducted a cooperative vulnerability and penetration assessment in May 2021 assessing EWPMT INC1 from an insider and nearsider posture. Maintenance and configuration problems of associated systems precluded an assessment from an outsider posture.

PERFORMANCE

» EFFECTIVENESS

A unit equipped with EWPMT INC1 is effective in conducting EW

and electromagnetic spectrum planning and management. EWPMT INC1 supported the brigade's Military Decision-Making Process, contributed to successful engagement of high-payoff targets, provided effective tools for spectrum management, and improved the brigade commander's and staff's situational awareness of the electromagnetic operating environment. Performance issues are detailed in the EWPMT IOT&E report published May 2022.

» SUITABILITY

EWPMT INC1 is operationally suitable, demonstrating high operational availability. Soldiers were able to remedy software faults quickly. Soldiers indicated the system is easy to learn and use. Training was sufficient, but soldiers provided suggestions to increase its effectiveness.

» SURVIVABILITY

The survivability of the EWPMT INC1 in a cyber-contested environment is detailed in the classified annex to the EWPMT IOT&E Report.

RECOMMENDATIONS

The Army should:

1. Verify correction of system performance, suitability, and survivability deficiencies identified in IOT&E prior to FOT&E.
2. Complete a cybersecurity assessment from an outsider threat posture.

3. Refine training to emphasize troubleshooting and help leaders and staff understand EWPMT INC1 capabilities and operational employment.
4. Continue coordination with the MFEW-AL and TLS programs to demonstrate control and management of these systems during EWPMT's FOT&E.