

Theater Battle Management Core System (TBMCS)

Executive Summary

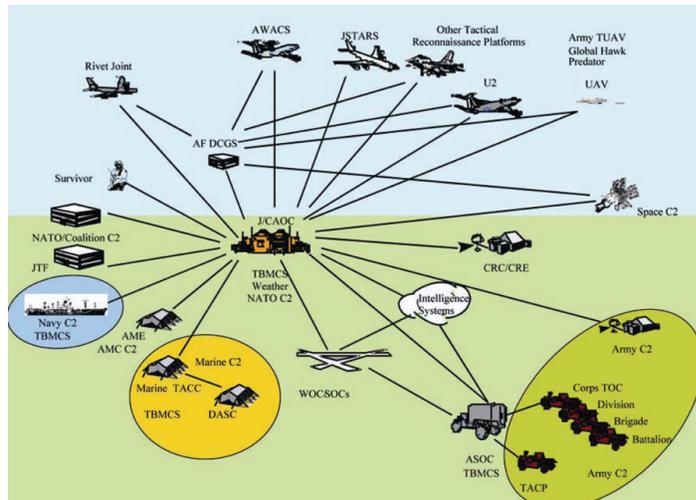
- Testing was in February 2005.
- Theater Battle Management Core System (TBMCS) force-level 1.1.3, TBMCS Unit-level (UL-Intel) Spiral 9, and TBMCS Unit-level Operations (UL-Ops) are all operationally effective, suitable, and survivable.

System

- TBMCS force-level includes workstations, servers, routers, communications links, and provides interoperability with national intelligence databases.
- It provides computer-supported management of all joint Service theater airborne assets in the area of responsibility.

Mission

- Joint Forces Air Component Commander (JFACC) and component commanders use the support tools of TBMCS to integrate command and control, intelligence, surveillance, and reconnaissance to:
 - Build and execute the Air Tasking Order and Air Coordination Order
 - Support the Air Support Operations Center to coordinate precision engagements
 - Support joint air campaign planning and execution



- TBMCS UL-Ops and UL-Intel provide Air Force bases the capability to receive and manage the Air Battle Plan.

Activity

- The Air Force Operational Test and Evaluation Center (AFOTEC) conducted the Force Development Evaluation (FDE) of TBMCS force-level 1.1.3 in February 2005. The test was concurrent with an operational utility evaluation of the AOC-WS 10.1. TBMCS comprises approximately 90 percent of the AOC-WS functionality.
- AFOTEC conducted follow-on regression testing for TBMCS force-level 1.1.3 from March to May 2005.
- AFOTEC conducted FDE and security test and evaluation of UL-Intel Spiral 9 in April 2005.
- UL-Ops upgrades consisted of minor software upgrades (Service packs) and were operationally tested in May and June 2005.

Assessment

- Testing was done in accordance with a DOT&E-approved test plan. The FDE, in conjunction with the AOC-WS operational utility evaluation, was adequate to provide feedback on the overall effectiveness and suitability of the TBMCS force-level program.
- During the operational utility and FDEs, nine significant problems were identified, which related to the ability of other

systems to properly interface with TBMCS 1.1.3. All were corrected and verified during regression testing.

- TBMCS 1.1.3 represents a significant increase in targeting capability, processing of time sensitive operations, and expanded data access. It only supports routine migration of data from the primary joint AOC-WS to the backup joint AOC-WS, but overall system availability is acceptable to support mission accomplishment. It had no critical security findings and was sufficiently secure to support a Joint Chiefs of Staff/J-6 interim approval to operate.
- TBMCS force-level 1.1.3, TBMCS UL-Intel Spiral 9, and TBMCS UL-Ops are operationally effective, suitable (force-level 1.1.3 has exceptions), survivable, and approved for fielding.

Recommendations

1. Due to time sensitive operations of the AOC-WS, system administrators and help desk personnel must attain a very high level of proficiency to fix any problem quickly. The Air Force should provide 24-hour help desk operations.
2. The Air Force should provide AOC-WS and TBMCS training to all deployed personnel prior to arrival in theater.

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