

# Future Operational Capability Tactical Operations Center

## A Mobile Testbed for Today's Warfighter

The U.S. Army Space and Missile Defense Command has developed a Future Operational Capability Tactical Operations Center (FOC TOC) as a mobile testbed for Command, Control, Communications, Computers and Intelligence (C4I) hardware and software technologies. This state-of-the-art mobile Command and Control capability evaluates emerging hardware and software products and concepts in an operational setting. In its current form, the FOC TOC prototype permits warfighters to conduct combat operations with enhanced tactical decision making and a significantly reduced footprint.

The current prototype configuration—which consists of a communications vehicle, a support vehicle with two connected DRASH tents and one Battle Studio combined with an integrated software approach—has the same capability delivered by the standard TOC of five vehicles and six DRASH tents. This new integrated approach to command and control enables better information distribution within a TOC with a significantly reduced in-theater footprint. The commander and staff are able to more rapidly execute the decision-making process and synchronize resources with one-third of today's footprint.

The FOC TOC prototype consists of a robust networking and communications suite in a single vehicle. Radios support: UHF TADIL-A, UHF Voice, UHF Data, HF TADIL-A, UHF OTCIXS, JTIDS/TADIL-J, UHF TIBS/TDDS, and NATO JSTARS AGS. All digital communication networks are routed through a server system into a Battle Studio. This provides the backbone for the workstations and overhead displays. The Battle Captain determines which Microsoft Windows workstations are projected on the overhead displays. These workstations use commercial- and government-off-the-shelf (COTS/GOTS) products, and include the Battle Lab's Advanced Warfare Environment (AWarE) software. Also, all systems share the same tactical feeds and information, thus improving the decision-making process and reducing the TOC footprint.

The FOC is a rapidly deployable TOC which supports emerging Army and Joint doctrine, requirements and concepts through:

- Improved streamlined decision making exploiting superior situational awareness, presentation capabilities and automated decision aides
- Leveraged emerging COTS and GOTS information technology products to reduce logistics trail and reduce development timelines
  - Integrated force and engagement operations
  - Enabled network centric warfare concepts such as sensor-to-shooter networking to reduce kill-chain timelines with a minimal support footprint

The FOC TOC has partnered with many Joint and service specific organizations respectfully such as: JFCOM, CENTCOM, EUCOM, PACOM, USFK TMD Cell, JCIET Program Office, Extended Air Defense Task Force (coalition), 32nd Army Air and Missile Defense Command, 263rd AAMDC, PM Air and Missile Defense Command and Control Systems, and Naval Sea Systems Command. In addition, the FOC TOC has successfully participated in many exercises and deployments since its inception. Some of which include:

- OPERATION NOBLE EAGLE 01
- AMALGAM VIRGO 01
- JOINT PROJECT OPTIC WINDMILL 01
- NORTHERN EDGE 01-02
- JOINT COMBAT IDENTIFICATION EVALUATION TEAM 02
- MILLENNIUM CHALLENGE 02

The FOC TOC's numerous technical features and advantages include: reduced component types and quantity, user friendly, extremely flexible, easy set up, and it supports multiple data formats. The elements that make up the FOC TOC are intricate, yet efficient and resourceful. These factors enabled the Space and Missile Defense Command to play a vital role in Homeland Defense. More importantly, the FOC TOC continues to play an important part in helping warfighters review and support tactics, techniques and procedures and focus on doctrine, training, leaders, organizations, material, and soldiers.

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