



TCW

Tactical UAV Coordinator Workstation



Summary

- Brings in UAV video and displays it on 2- and 3-D viewer then digitizes it to hot swappable hard drive
- Overlays UAV position on 2- and 3-D maps and imagery
- Provides situational awareness (SA) on a 2-D and 3-D viewer

Multiple UAV Video Monitoring and Combined Operating Picture (COP) in one system.

The SMD-BL will develop, test, and deliver a prototype Tactical UAV Coordinator Workstation (TCW) for the Air Force Unmanned Aerial Vehicle Battle Lab (UAVB). The SMD-BL will develop software interfaces, build the workstation, and support testing in a laboratory and in an operational setting. This will include development of software interfaces between the UAV data and the Advanced Warfare Environment (AWarE), BattleScape, and Falcon View.

TCW Project Background, Description, and Goals

The Tactical Coordinators Workstation is an Air Force Unmanned Aerial Vehicle Battlelab (UAVB) and the Army Space and Missile Defense Battle Lab (SMD-BL) initiative to demonstrate the use of state-of-the-art tools to manage, monitor, and support multiple numbers and types of UAVs conducting a variety of mission types over the battlefield. This initiative will identify TCW tasks, equipment, and personnel requirements as well as establish a concept-of-operations for blending UAV intelligence, surveillance, and reconnaissance (ISR), combat search and rescue (CSAR), hunter-killer, killer-scout, forward air control (FAC), and various other missions. While the Air Operations Center (AOC) “decides” and the individual ground control station (GCS) “executes,” the TCW will provide critical roles of mission “coordination and monitoring” to support the AOC.

AWarE Description

The AWarE program is a cutting-edge BMC4I software platform designed to significantly improve decision making and reduce in-theater footprint by merging capabilities into a multifunctional, “plug and play” architecture. The current AWarE architecture consists of a collection of commercial and government software programs combined with a Battle Lab developed communications interface and message processor.



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