AWarE

Advanced Warfare Environment

Summary

AWarE is a government-owned and accredited command, control, communications, computers intelligence, surveillance and reconnaissance software development and prototyping suite of software.

How used:

- Situational awareness (SA)

- Intelligence preparation of the battlespace (IPB)

- 2D/3D visualization

- Service oriented architecture (SOA) with standard publish and subscribe interfaces

- Combines multiple functions and applications on a single platform

- PC-based Windows open architecture

The AWarE program has been an ongoing effort within the Space and Missile Defense Battle Lab to develop a set of prototyping software applications to support the development of new and innovative missile defense battle management tools within the AWarE prototyping environment. The AWarE software is a government-owned and accredited C4ISR software prototyping suite. This environment allows for rapid application development and Warfighter assessment to meet new and emerging battlespace developments and requirements. The primary goal of the program has been to provide a government-owned C4ISR solution, (the 80 percent solution) to meet Warfighter immediate needs. This is being accomplished through development and upgrades to AWarE and its primary sub-components. The combination of these capabilities provide a net-centric infrastructure required to meet both current and future Warfighter needs.

AWarE

Advanced Warfare Environment

The Advanced Warfare Environment (AWarE) is an open architecture application, and a comprehensive, Windows-based C4ISR operational/development/prototyping software program developed and owned by SMDBL. The AWarE program provides a service-oriented architecture enabled environment across multiple users and developers.
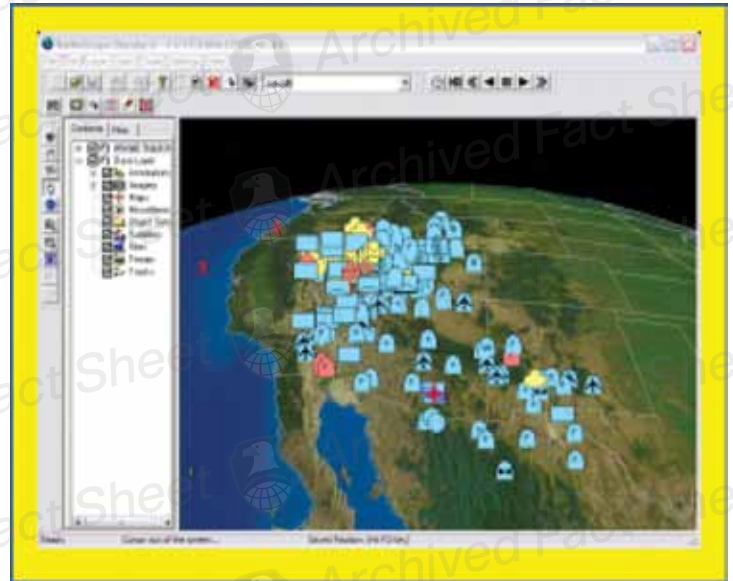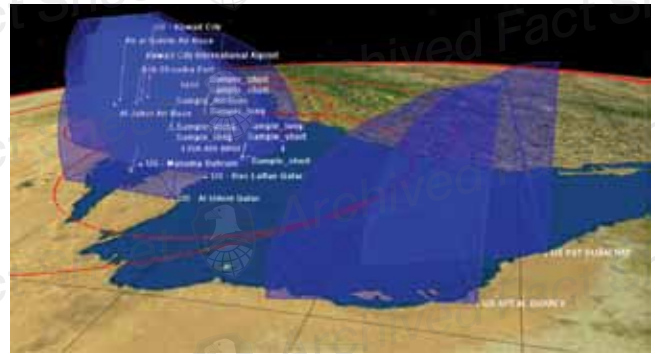
Operationally, AWarE demonstrates capabilities for to-day's Warfighter to increase his operational tempo, enhance productivity, collaborate more effectively, and flexibly integrate emerging requirements. AWarE is a tool for situational awareness. AWarE can display the Red and Blue air and ground picture on a single 2D or 3D presentation layer in near-real-time along with National Geospatial Intelligence Agency (NGA) products. This combination of user-configured data sources serves to enhance the decision cycle in both time and quality.

AWarE has been given a Certificate of Networthiness (CoN) from The U.S. Army Network Command and has been placed on the Air Force's Evaluated/Approved Application List (E/APL) and approved for use on any accredited DoD .mil network to include both NIPRNET and SIPRNET.

AWarE has been used to perform a variety of functions including IPB, theater missile defense planning (using The Joint Defense Planner and Commander's Analysis Planning System), force operations, situational awareness, missile warning, C4ISR management, engagement operations, and collaboration planning. AWarE has proven to be flexible and able to support rapid changes to meet a variety of changing experimental and operational contingency requirements.

AWarE is currently in use operationally with the 263rd /32nd / 94th Army Air and Missile Defense Commands (AAMDC). The software, documentation and training package will be delivered to 357th Army Air and Missile Detachment (AAMD) later in 2010. In addition, it is currently in use with each of the Army composite air defense battalions. Other applications of AWarE include use by the Naval Special Warfare (NSW) community and the U.S.

Special Operations Command (USSOCOM) has included AVE as part of their TACLAN load. In addition AVE and AWarE is used by USSOCOM within the Tactical Network Topography (TNT) experiment managed by the Naval Post Graduate School (NPS). The Air Force through the Big Safari Program Office is using AWarE components in their SUTER Program.

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