

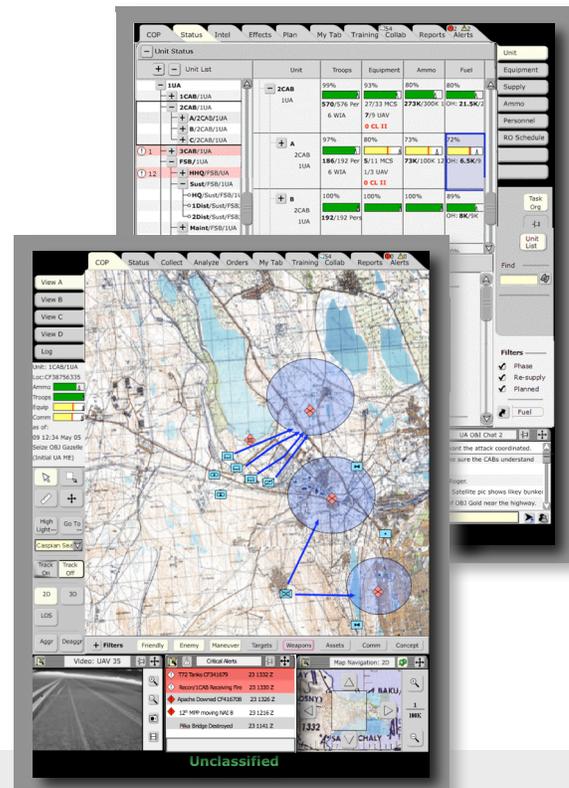
Future Combat Systems Warfighter Machine Interface

The Future Combat Systems (FCS) program is the U.S. Army's major modernization effort for the 21st century. It includes a highly-integrated structure of 18 manned and unmanned systems, connected across a distributed network. The Battle Command software that operates across FCS integrates networked communications and operations, sensors, training, reconnaissance and surveillance capabilities to provide highly-advanced levels of situation awareness and force synchronization.

The FCS Lead System Integrator, the Boeing Corporation, contracted SA Technologies to design the FCS Warfighter Machine Interface (WMI). Built to provide a common, consistent interface – tailored for each of the 113 unique warfighter roles involved – the WMI supports rapid training and ease of use.

The WMI has been designed from the warfighter up to support the highest levels of situation awareness and minimize unnecessary workload. Working closely with Army warfighters, SA Technologies is conducting Goal-Directed Task Analyses to determine the situation awareness needs of each warfighter role. State-of-the-art human factors design guidelines and Situation Awareness-Oriented Design principles are leveraged to create a leading WMI for integrated planning and mission execution across the echelon.

Careful testing and evaluation is being conducted, throughout the program, to insure the system is warfighter-centered. The FCS WMI provides a significant advance in warfighter-centered design creating a highly usable system for the Army's future warfighters.



FCS Warfighter Machine Interface

- One-step access to any screen or task
- Tailored information organized and integrated around key role goals and decisions
- Situation understanding at a glance
- Easy monitoring across multiple task demands
- Fast, easy operations on the move
- Integrated collaboration tools for shared situation awareness across the distributed force
- Warfighter controlled flexibility for changing needs and priorities
- Intelligent assistance to manage workload without being intrusive