



Airborne Web Services (AWS)

Enhancing Battlefield Awareness Using Net-Centric Technologies

Mission planners need accurate and timely exchange of command, control, intelligence, surveillance and reconnaissance (C2ISR) information between their systems, whether air- or ground-based, for effective management of mission assets. Critical capabilities include situational awareness, time-sensitive targeting, weapon and target pairing, force protection, surveillance, reconnaissance and signals detection and collection. To improve system interoperability, enabling technologies such as Web services are providing new and transformational operational capabilities within the net-centric enterprise designed to benefit the joint Warfighter.

Through the Airborne Web Services (AWS) Program, Science Applications International Corporation (SAIC) has joined with a U.S. air defense department to develop and demonstrate net-centric enhancements for C2ISR platforms that enable bidirectional exchange of data between air- and ground-based systems and enhance situational awareness on the battlefield.

Project Manager

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Capabilities

- Uses existing IP-enabled hardware
- Is available to all consumers on the network
- Enables platform-agnostic implementation
- Operates in bandwidth-reduced environments
- Supports disconnected operations
- Exchanges mission data between air- and ground-based systems
- Provides quick, seamless access to data residing on the network

Characteristics and benefits of the AWS Program include

- Exchange of mission-critical data between systems, regardless of platform location, using services and IP-enabled communication hardware
- Enhancement of situational awareness and time-sensitive targeting through real- and near-real-time exchange of data among publishers and consumers of data
- Enhancement of the common operational picture by bringing in data from multiple, disparate data sources
- Use and support of open standards and standardized data schema (such as network-enabled tactical communications) to facilitate data exchange
- Application of open-source products and community knowledge to develop solutions rapidly and cost effectively
- Implementation of an agile development approach to rapidly prototype solutions and develop integration-capable products

Through the application of net-centric technologies, the AWS Program has achieved a valuable reduction in risk for the joint forces community. The technologies are enabling data exchange between air- and ground-based systems, and they have moved airborne platforms closer to realizing system interoperability with consumers and publishers of mission-critical data on the Global Information Grid. Contact us today to learn more.

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