Raytheon

Distributed Common Ground System (DCGS) Block 10.2 Upgrade Program

Integrating ISR assets for battlespace dominance

Key Features and Benefits

- Net-centric system provides a global C4ISR enterprise
- Platform-independent, service-based architecture enables use of unique service applications
- Software applications provide real-time control of ISR assets
- Robust security that includes attributable safeguards
- Joint interoperability through data, service and task level integration
- Web and client based tools that support global operations
- Information sharing through a common network of sensors and ground stations
- Comprehensive battlespace views to accelerate the information/kill chain
- DCGS Integration Backbone (DIB) integrates NCES-compliant standards

Our national security depends on the ability to access and share critical and accurate intelligence data. U.S. military forces deployed throughout the world, operating in joint environments, require real-time access to actionable intelligence. The DoD's response to this need is a global, network in which both military and national agencies have access to time sensitive intelligence, surveillance and reconnaissance (ISR) data.

Raytheon's Distributed Common Ground System (DCGS) provides continuous, on-demand intelligence brokering to achieve full spectrum dominance and enable U.S. and coalition forces to impact and change the course of events in hours, minutes and even seconds. This environment provides physical and electronic distribution of ISR data, processes and systems.

DCGS is leading the way toward seamless interoperability among all military services with its open architecture and Web-based DCGS Integration Backbone (DIB). The DIB facilitates the distribution of the right information at the right time to maximize operational effectiveness.

Current ISR systems are feeding data into platform-centric "stovepiped" tasking, processing, exploitation and dissemination systems that operate independent of one another. Because of this partitioning, commonality and interoperability is restricted between the services and limits their ability to operate in a joint coalition environment.

Raytheon's DCGS Block 10.2 overcomes these obstacles. With these capabilities, current intelligence data is posted to the network for immediate use by analysts and warfighters, immediately integrating with other assets to produce situational knowledge of the battlespace.

This upgrade brings together multiple intelligence systems into a single, worldwide net-centric enterprise, enabling interoperability and improved collection and delivery of ISR data. DCGS Web-based technologies will transform ISR into an integrated element of DoD command and control systems.

As the backbone for the DoD enterprise, DCGS traces its lineage from the Chairman's Joint Vision 2020, Defense Planning Guidance, Quadrennial Defense Review, and service modernization and transformation efforts.

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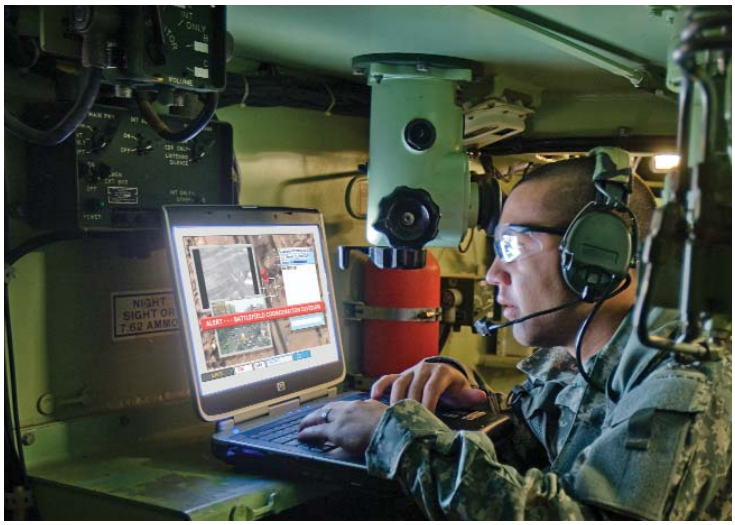
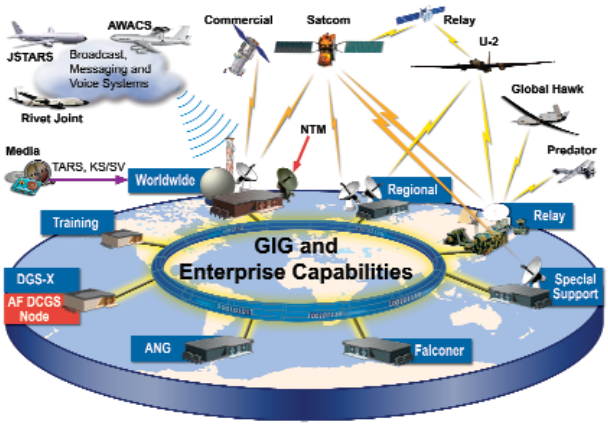
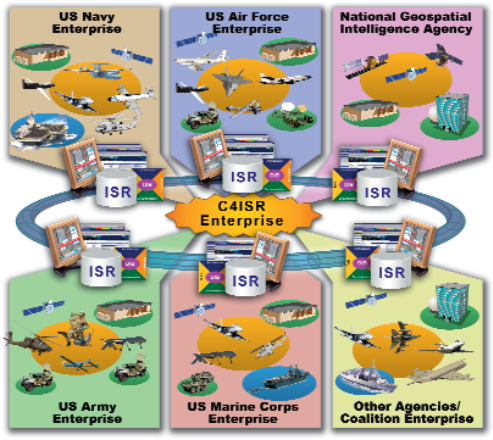
From a single DCGS Node to a DCGS Enterprise to the Global C4ISR Enterprise







DCGS Core Sites

- Langley Air Force Base, VA
- Beale Air Force Base, CA
- Osan Air Base, Korea
- Ramstein Air Base, Germany
- Hickam Air Force Base, HI

DCGS Air National Guard Sites

- Alabama Air National Guard Base, Birmingham
- Arkansas Air National Guard Base, Little Rock
- Indiana Air National Guard Base, Terre Haute
- Kansas Air National Guard Base, Wichita
- Massachusetts Air National Guard Base, Westover
- Nevada Air National Guard Base, Reno
- Utah Air National Guard Base, Salt Lake City

The Raytheon team is working with the U.S. Air Force to transform the current DCGS Tasking, Processing, Exploitation and Dissemination (TPED) model into the Task, Post, Process and Use (TPPU) model. DCGS 10.2 provides an open architecture so that any node or work station within the U.S. Air Force DCGS organization can share intelligence across a worldwide network. As each service adopts the DIB, intelligence data will be seamlessly shared across the entire C4ISR enterprise of enterprises.

The DIB software is installed in more than 100 systems around the world, and is a key enabler for information sharing and collaboration among previously isolated intelligence centers. The next-generation DIB, known as DIB 1.3, will address standards compliance, baseline convergence, enterprise interoperability and unique U.S. Air Force, Army and Navy requirements.

From space to ground to under the sea, DCGS is the foundation of the global C4ISR enterprise.

The U.S. Air Force Electronic Systems Center ISR Integration System Program Office at Hanscom Air Force Base, Mass., is the contracting agency for DCGS 10.2.

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