

# Distributed Common Ground System- Army (DCGS-A)



## *Actionable Intelligence to the Warfighter*

State-of-the-art battlefield intelligence system

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True Service Oriented Architecture (SOA) for  
multi-intelligence analysis

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Full-spectrum training

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Distributed Common Ground System — Army (DCGS-A) is a state-of-the-art battlefield intelligence system. It provides the U.S. Army with fully integrated and timely intelligence and interfaces across multiple security levels. The system performs true multi-intelligence processing with information received from multiple sensors used from the tactical, theater, and national levels, and publishes information through a Service-Oriented Architecture for multi-intelligence analysis.

The DCGS program establishes the core framework for a worldwide distributed, network centric, system-of-systems architecture that conducts collaborative intelligence operations and production. DCGS-A interfaces with other DCGS nodes through the DCGS Integration Backbone (DIB).

General Dynamics C4 Systems is a member of the DCGS-A Version 4 Industry Team, along with Northrop Grumman, Lockheed Martin, and SAIC. The team is tasked with developing, integrating, manufacturing, and delivering a fully-armored mobile DCGS-A solution.

We leverage our capabilities across the full lifecycle to produce better designs, better systems, and the best Warfighters.

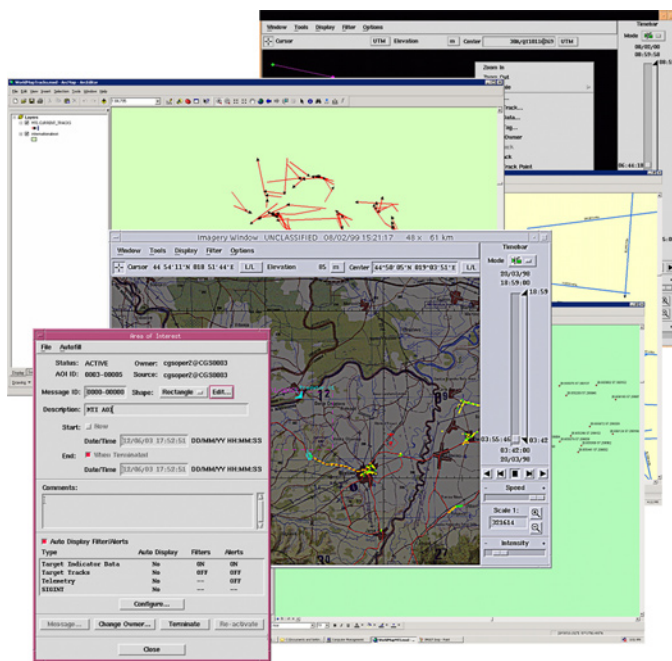
# Actionable Intelligence To The Warfighter

General Dynamics' contribution to the program is focused on four main areas:

## Moving Target Indicator (MTI) Exploitation

General Dynamics is a leader in Moving Target Indicator (MTI) radar exploitation. For the DCGS-A development, it is focused on interfacing all MTI related sensors and injecting the resultant MTI products into the V4 enterprise architecture using Service Oriented Architecture design patterns.

MTI will be viewable via thick and thin clients within DCGS-A, allowing both MTI data producers and consumers to interact easily with the MTI data.



*DCGS-A enables MTI visualization from both dedicated workstations and web-browser clients.*

## Platform Integration

The DCGS-A V4 is deployed on seven fully up-armored HMMWVs and two tents. General Dynamics is responsible for the platform design and integration for two of the HMMWV shelters that contain MTI and Video processing for the system. This includes equipment installation, antenna mounting, and full system integration. The DCGS-A V4 system is expected to undergo qualification testing in late 2008.

## Infrastructure

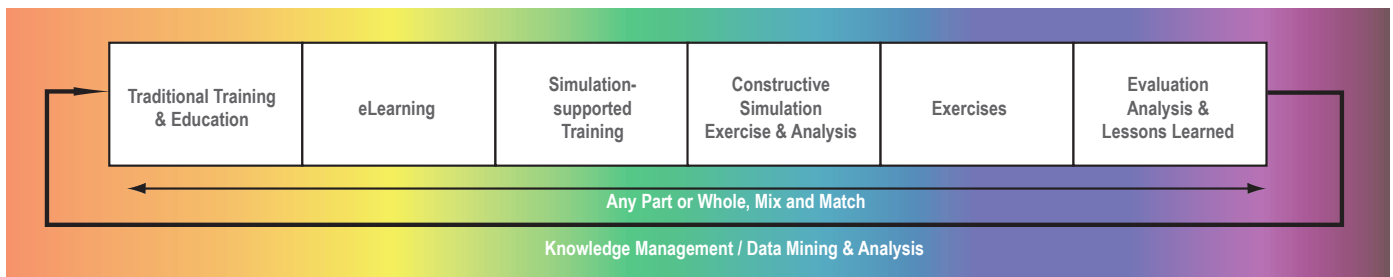
General Dynamics is a member of the infrastructure Integrated Product Team (IPT) and is working with its partners to develop the underlying Service Oriented Architecture that will make DCGS-A a generational leap ahead of previous systems. Development is focused on the creation of a domain-wide alerting infrastructure that will reduce timelines for operators and maintainers receiving critical information on system activities and performance.

## IEWTPT Based Embedded Training

General Dynamics is applying its leadership in Embedded Training to the DCGS-A system and providing unprecedented access to individual, crew and collective training to support DCGS-A operators.

Soldiers can actually sit at their DCGS-A workstation, whether in garrison or deployed, and train and sustain their skills through embedded Interactive Multimedia Instruction (IMI) and the Intelligence and Electronic Warfare Tactical Proficiency Trainer (IEWTPT) simulation.

In addition, General Dynamics is developing and delivering training materials from classroom instruction to embedded IMI courses and simulation driven exercises. Utilizing the Army's Automated Systems Approach to Training (ASAT), General Dynamics' Instructional Systems Designers, working in conjunction with the U.S. Army Intelligence Center & Fort Huachuca (USAIC&FH) and the DCGS-A engineering team, perform training analysis and develop training materials, enabling soldiers to achieve and sustain proficiency on the DCGS-A system.



*General Dynamics integrates learning solutions technologies with sound underlying instructional methodology to deliver full spectrum training.*

## GENERAL DYNAMICS

C4 Systems

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