

Net-Centric ISR

Kevin Meiners
Office of the Under Secretary of Defense for Intelligence

NDIA Conference 22 Mar 2005

Agenda

Net–Centric Policy and Governance

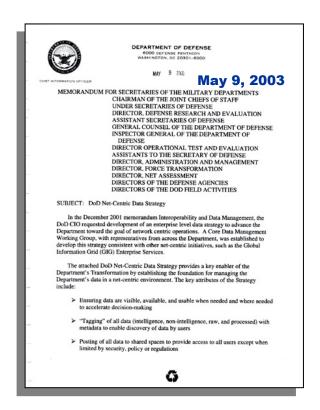
Distributed Common Ground Systems

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Dod Net-Centric Data Strategy

- Signed out May 9, 2003
- Key Attributes
 - Ensuring Data Are Visible,
 Available, and Usable
 - "Tagging" of all Data with
 Metadata to Enable Discovery
 - Posting of Data to Shared
 Spaces to Provide Access

"DoD Data Strategy"



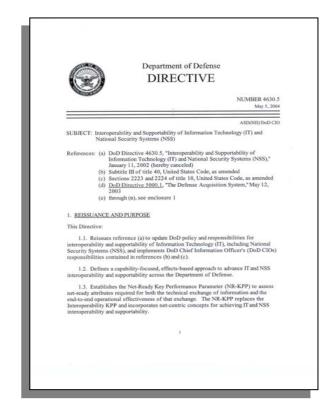
Google Search: "DoD Data Strategy"

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Joint Staff NR-KPP Guide

- New Key Performance Parameter:
 Net-Ready KPP
- Net-Ready KPP used in lieu of the Interoperability KPP
- Other NR-KPP Guidance Docs:
 - **DoDI 4630.8** (Implements NR Policy)
 - JROCM 236-03 (Replaces IER & I-KPPs)
 - CJCSI 3170.01D (JCIDS Procedures)
 - CJCSI 6212.01C (Required for IT Systems)

"DoDD 4630.5"



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Horizontal Integration

- USD(I) Policy Feb 10, 2004
- "For horizontal integration of intelligence information to succeed, theater collected airborne, shipboard and ground intelligence data must be posted for discovery and access across the Global Information Grid in a timely manner"
- Joint Staff Implementation Instructions to be published by 30 Jun 04

"Horizontal Integration of Collected Theater Intel"



UNDER SECRETARY OF DEFENSE 5000 DEFENSE PENTAGON WASHINGTON, DC 20301-5000

FEB 1 0 2004

Feb 10, 2004

IEMORANDUM FOR SECRETARIES OF THE MILITARY DEPARTMENTS
CHAIRMAN OF THE JOINT CHIEFS OF STAFF
COMMANDERS OF THE COMBATANT COMMANDS
DIRECTOR, DEFENSE INFORMATION SYSTEMS
AGENCY

AUGNOTI
DIRECTOR, DEFENSE INTELLIGENCE AGENCY
DIRECTOR, NATIONAL GEOSPATIALINTELLIGENCE AGENCY
DIRECTOR, NATIONAL SECURITY AGENCY

SUBJECT: HORIZONTAL INTEGRATION OF COLLECTED THEATER INTELLIGENCE

The national intelligence agencies are developing data repositories in order to facilitate the horizontal integration of intelligence information. One example is the National Geospatial-Intelligence Agency's establishment of Community Airborne Libraries. These efforts will greatly enhance the warfighter's access to intelligence at the earliest noint that a user can acceed and use the data.

For horizontal integration of intelligence information to succeed, theater collected airborne, shipboard and ground intelligence data must be posted for discovery and access across the Global Information Grid in a timely manner

As the primary collectors of theater intelligence, the Commanders of the Combatant Commands and the Services are directed to provide the national intelligence agencies and service intelligence centers with broad access to collected theater intelligence data along with the authority to store and distribute.

I request the Chairman of the Joint Chiefs of Staff develop implementing instructions for this policy by June 30, 2004.

Stephen A. Cambone

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Access - Access - Access

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DEPSECDEF - IT Portfolio MGMT

- Portfolio Mgmt vice Program Mgmt
- Three Mission Areas
 - Business
 - Warfighting
 - Enterprise Info Environment
- Domains are Designated within Mission Areas
- Communities of Interests (COIs) are Formed within a Domain

"IT Portfolio Mgmt"



DEPUTY SECRETARY OF DEFENSE 1010 DEFENSE PENTAGON WASHINGTON, DC 20301-1010

Mar 22, 2004

WAR 22 2004

MEMORANDUM FOR SECRETARIES OF THE MILITARY DEPARTMENTS
UNDER SECRETARIES OF THE IDIST CHIEFS OF STAFF
UNDER SECRETARIES OF DEFENSE
ASSISTANT SECRETARIES OF DEFENSE
GENERAL COUNSEL OF THE DEPARTMENT OF DEFENSE
DIRECTOR, OPPRATIONAL TEST AND EVALUATION
INSPECTOR GENERAL OF THE DEPARTMENT OF DEFENSE
ENERGY OF THE SECRETARY OF DEFENSE
DIRECTOR, ADMINISTRATION AND MANAGEMENT
DIRECTOR, FORGRAM ANALYSIS AND EVALUATION
DIRECTOR, FORGRAM ANALYSIS AND EVALUATION
DIRECTOR, FORGRAM FORGRAM TON
DIRECTOR, FORGE TRANSFORMATION
DIRECTOR, FORGE TRANSFORMATION
DIRECTORS OF THE DEFENSE AGENCIES
DIRECTORS OF THE DEFENSE AGENCIES
DIRECTORS OF THE DOF FILE DA CITYTIES

SUBJECT: Information Technology Portfolio Manageme

Attachment establishes DoD policies and assigns responsibilities for managing information technology (TT) investments as portfolios. Decisions on what IT investments to make, most yor terminate shall be based on architectures, risk tolerance levels, potential restructs, outcome goals and performance. While the guidance specifically addresses IT portfolios and a process for making tradeoffs among IT projects, the IT portfolio is part of the Department's broader portfolio investments. In this larger context, tradeoffs will have to be made between IT and non-IT investments in other agency processing.

This guidance applies to the six Joint Warfighting Capability Assessment area (i.e., Battlespace Awareness, Command and Control, Force Application, Protection, Focused Lögistics, and Net Centricity), the six Business Domains (i.e., Accounting and Finance, Acquisition, Burnal Resources Management, Installations and Environment, Logistics, and Strategic Planning and Bodgeting), and the underlying Enterprise Information Environment. Improved and timely IT investment policies are a cornestione to enable change throughout the Department, assure that we have the right IT capabilities to perform our mission and conduct effective information operations, eliminate outdated ways of doing business, and archeve our net-centricity goals. While the attacked policy is effective immediately, to ensure that this policy is institutionalized, I ask that the DoD Chief Information Officer, in coordination with the Director, Administration and Management, incorporate it into the DoD Directive System within 180 days term within.

Attachmen

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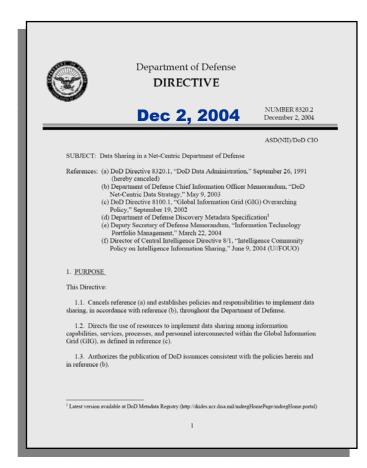
OSD 03246-04

Intelligence - Emerging as 4th MA

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DODD 8320.2 - Data Sharing in a Net-Centric DOD

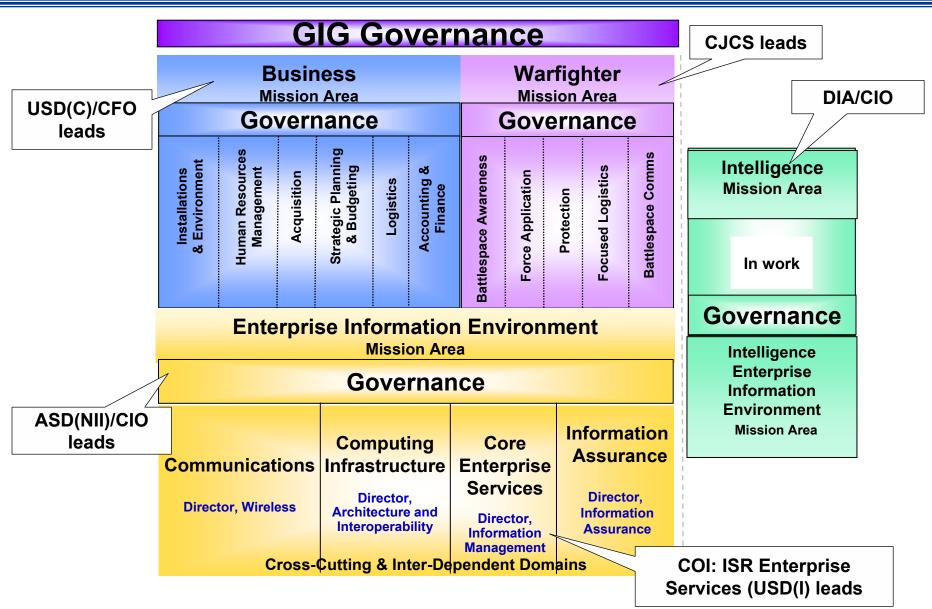
- Under Secretary of Defense For Intelligence shall:
 - With DoD CIO, USD(P), and IC CIO, develop policies and procedures to protect Net-Centric data while enabling data sharing across different security classifications and between the DOD, the IC, and multinational partners, IAW with policies consistent with DCID 8/1.
 - Ensure that Defense Intelligence Activities
 within the National Intelligence Mission Area
 promote Net-Centric data sharing and
 effectively enable COIs, adjudicating conflicts in
 metadata agreements and identifying
 authoritative sources.
 - Ensure CI and security support to networkcentric operations.



Expands on 22 Mar 04 DEPSECDEF memo

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DoD Portfolios and Related National Intelligence Portfolios



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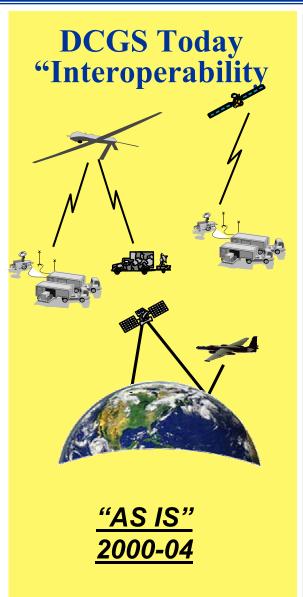
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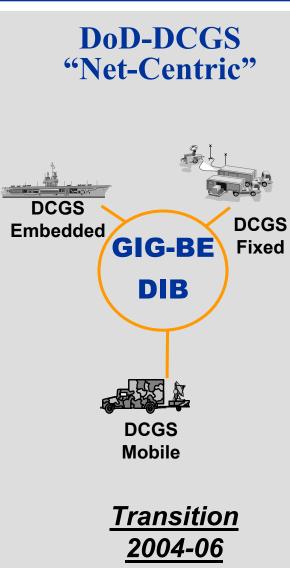
Net–Centric Policy and Governance

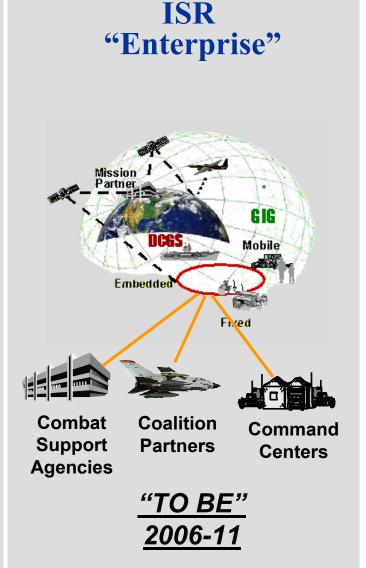
Distributed Common Ground Systems

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Distributed Common Ground/Surface Systems (DCGS)







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Service DCGS Elements

DCGS - A

- Common Ground Station (CGS)
- Integrated Processing Facility (IPF)
- Guardrail Information Node (GRIFN)
- All Source Analysis System (ASAS)
- Counter intelligence/Human Intelligence Information Management Systems (CHIMS)
- Home Station Operations Center (HSOC)
- Tactical Exploitation Systems (TES)

<u>DCGS - N</u>

- Battle Group Passive Horizon Extension System (BGHPHES)
- Combat Direction Finding Systems (CDF)
- Global Command and Control System-Maritime/Integrated intelligence Information (GCCS-M/I3)
- Joint Service Imagery Processing Systems Naval (JSIPS-N)
- Ships Signal Exploitation Equipment (SSEE)
- UAV Tactical Control System (UAV TCS)
- JSIPS Concentrator Architecture (JCA)
- Tactical Exploitation Systems Naval (TES-N)

DCGS - MC

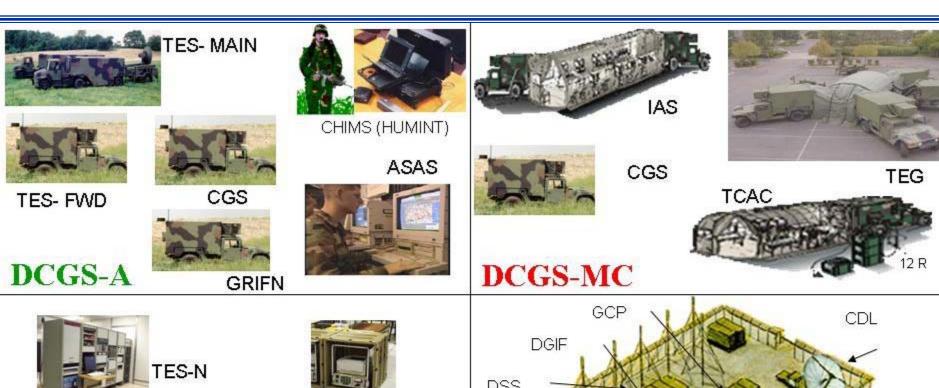
- Common Ground Station (CGS)
- Intelligence Analysis System (IAS)
- Technical Control and Analysis Center (TCAC)
- Tactical Exploitation Group (TEG)

DCGS - AF

- Deployable Ground Intercept Facility (DGIF)
- Deployable Shelterized Systems (DSS)
- Deployable Transit-Cased Systems (DTS)
- Ground Control Processor (GCP)
- Main Operating Locations
 - DGS-1 Beale AFB, CA
 - DGS-2 Langley AFB, VA
 - DGS-3 KCOIC Osan Korea
 - DGS-4 Ramstein AB, GE
 - Plus 17 remote locations
- ISR Management/C2 of ISR
 - ISRM, ISRW, Remote CSP
- MOBSTR/Extended Tether Program (ETP)
- Wide-Area, Campus-Area, Local-Area Networks/Comms

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Service DCGS Elements







JSIPS-N

SSEE



DCGS-N

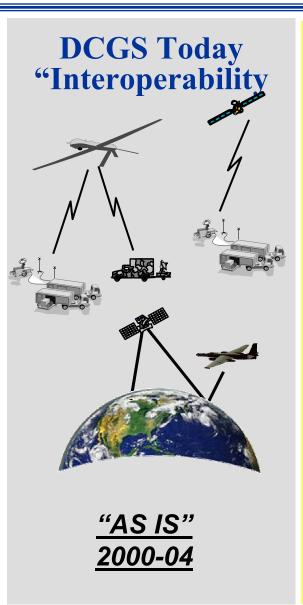
BGPHES

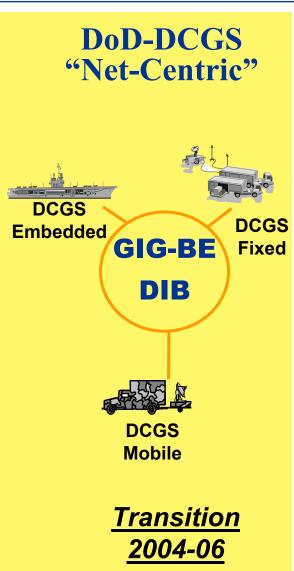


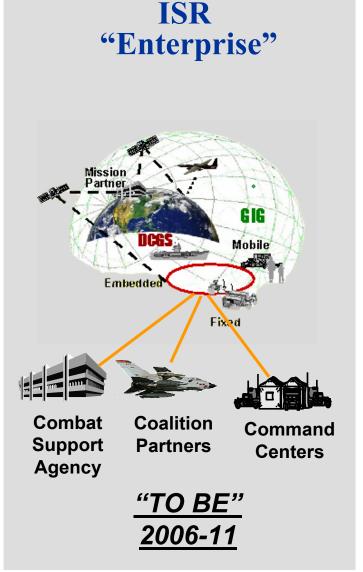
MIBS



Distributed Common Ground/Surface Systems (DCGS)





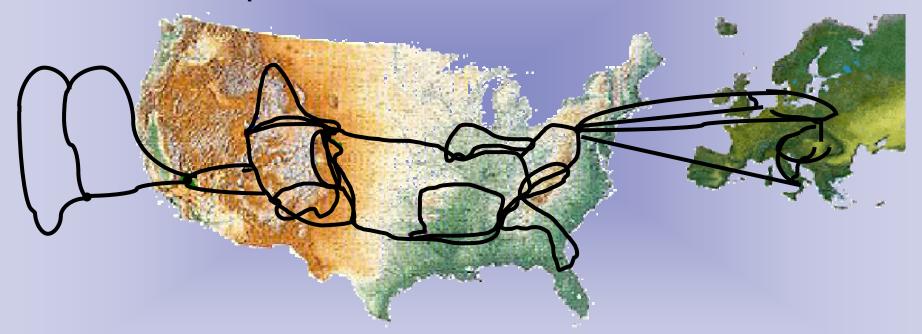


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Global Information Grid - Bandwidth Expansion

Part of the Global Information Grid

- Ubiquitous, secure, robust optical IP foundation network
- CONUS & OCONUS
- ~90% of DCGS sites are included on the GIG-BE List
- IOC Sep 04
- FOC Sep 05

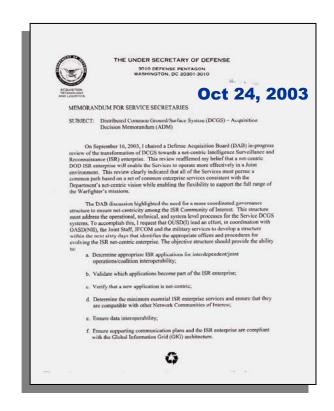


GIG BE goal: Remove bandwidth as limiting factor

Recent DCGS Interoperability Memorandum

"DCGS Acquisition Decision Memorandum"

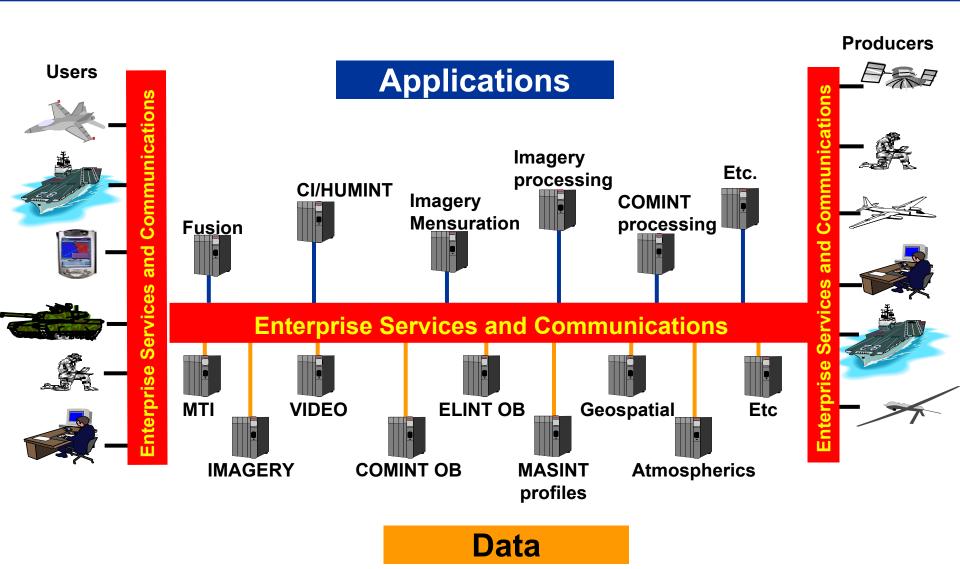
- Defense Acquisition Executive Authorized Air Force to proceed with DCGS 10.2 including DCGS Integration Backbone (DIB)
- All Services will use the DIB to achieve Net Centricity



DIB – Focal Point for Net Centric ISR

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Data Interoperability



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DIB Milestones

Specialized tools to use information --- Can be at any physical location

Viewer Layer

Information Display and User Interface
User level – Guidelines

Manage and transport information without limits of INT or site boundaries

Services Layer

Transformation, Processing, Application level – J2EE and the workflow engine

Store information so that it is useful for many purposes w/o system reconfiguration

Data Repository Layer

Data Storage
Data level – J2EE and the Metadata Framework (MDF)

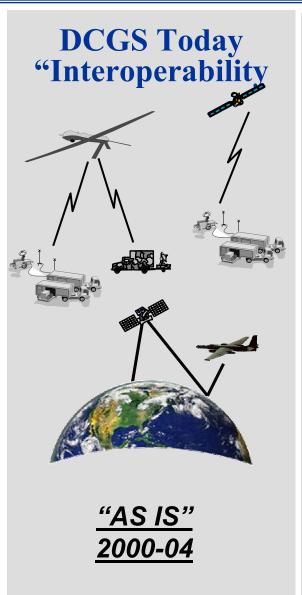
DCGS Integration Backbone (DIB)

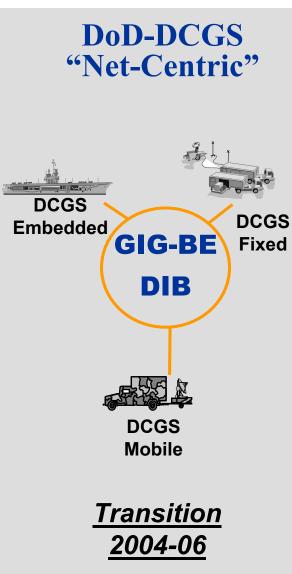
Common Services

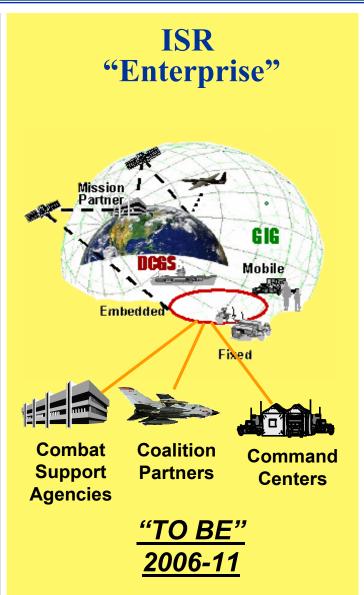
- March 05 DIB Delivery to AF DGS-X
- April 05 DIB Available to other Service PMs
- June 05 DIB DD250
 - FY05 17 Suites (Navy-8, USMC-2, Air Force-5, NGA-2)
 - FY06 25 Suites (Army-10, Navy-8, Air Force-7)
 - FY07 33 Suites (Army-6, Navy-19, Air Force-8)

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Distributed Common Ground/Surface Systems (DCGS)

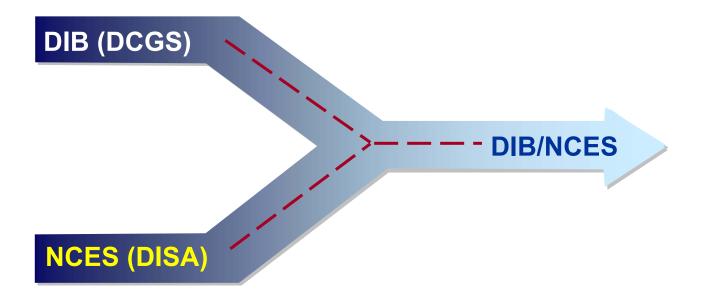






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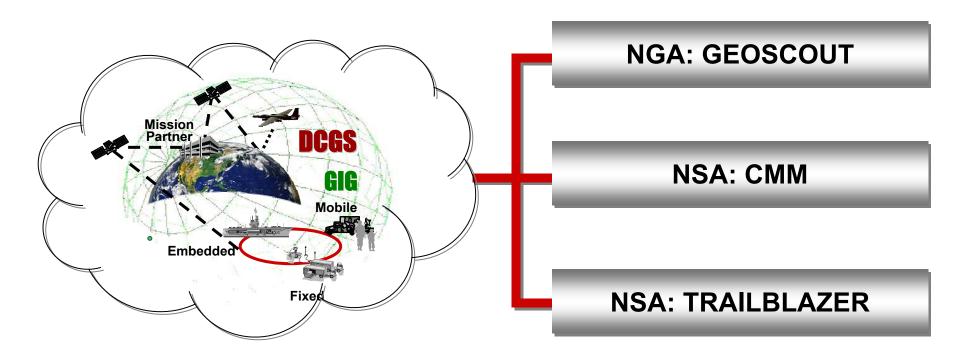
Migration to Common Enterprise Services



ISR Enterprise Service COI formed to merge multiple ISR programs collaboration services

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DCGS Interoperability with National Agency Systems



Requires close coordination with GeoScout, SOSCOE, CMM and Trail Blazer

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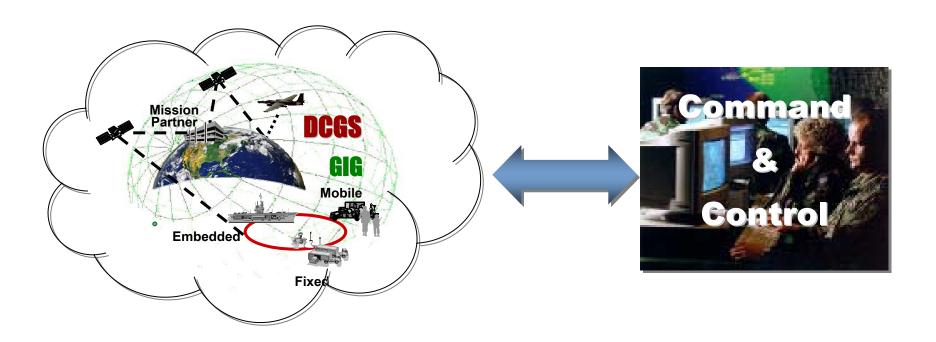
Develop Data Exchange Formats / Standards

 As we move toward Data Repositories there is a need for DoD or National Data Standards

IMINT	SIGINT	MASINT
• NITF 2.1	• NATO STANAG 4633 (ELINT) – In Coord.	• NMTF?
• MPEG – 2		Future Effort
• NATO STANAG 4607	•NSTF?	

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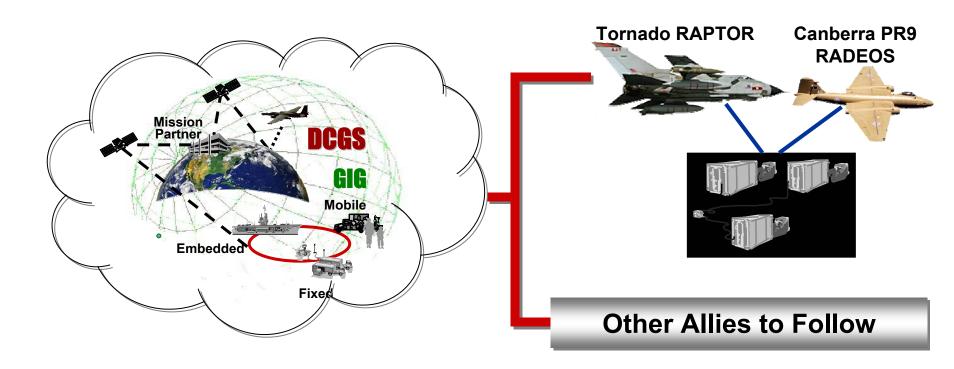
DCGS and C2 Interoperability



DCGS is a JBMC2 Pathfinder Program

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DCGS Interoperability with Allies



Empire Challenge is leading the way

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