Closing the Yap Gap

Lessons on DCGS (and other's) SOA Implementations & Governance

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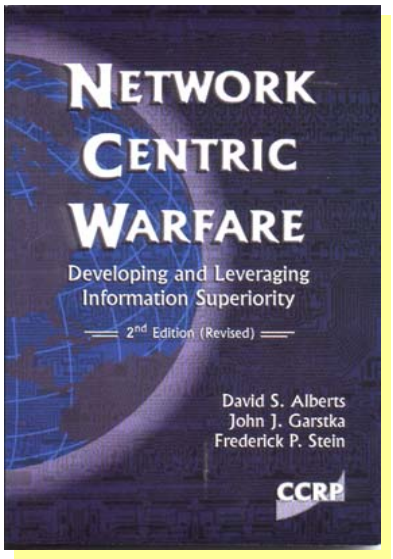
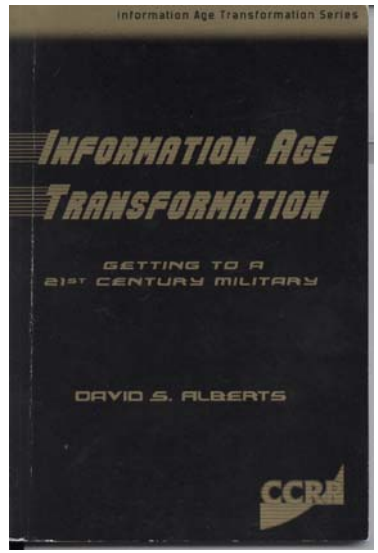
Net Centric Warfare
(aka SOA)





An Information Superiority concept of operations

Generates

increased combat power by *networking*

- **Sensors**
  - **Decisions makers**
    - **Shooters**

Achieves

- **Shared awareness**
- **Increased speed of command**
- **Higher tempo of operations**
- **Greater lethality**
- **Increased survivability**
- **Self synchronization**

Transformation Strategy: **Fully leverage information and information technology requires changes**

- **Concept of Operations**
- **Doctrine**
- **Organizations, and**
- **Force Structure**

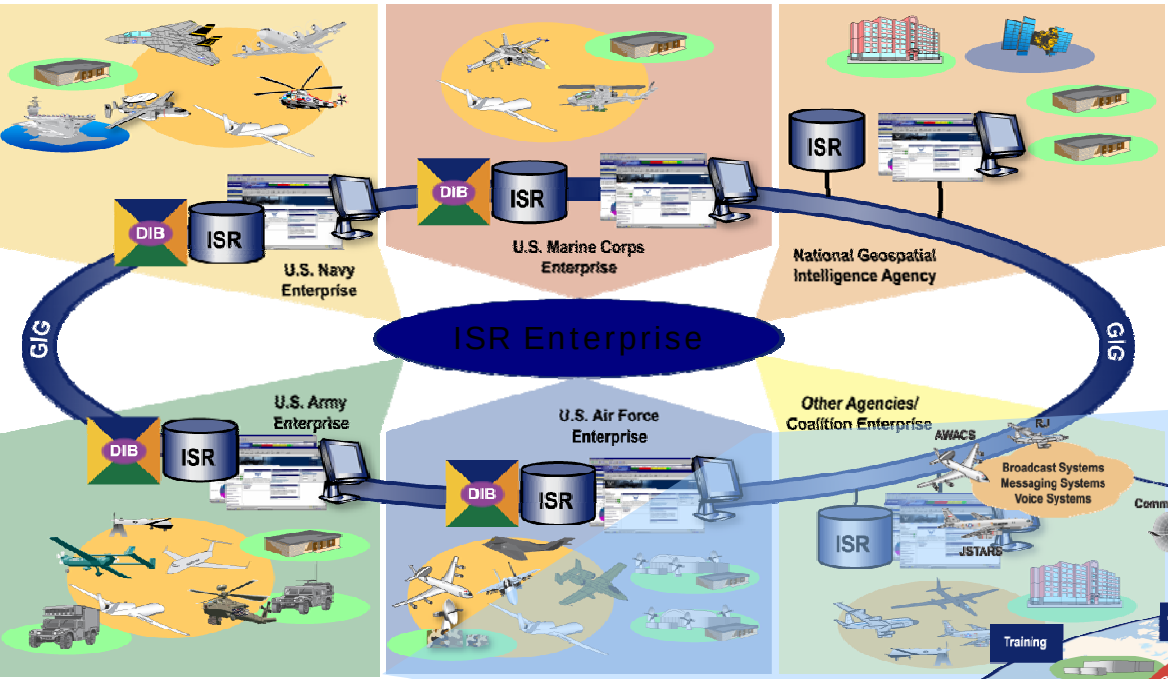
Associated changes are needed in

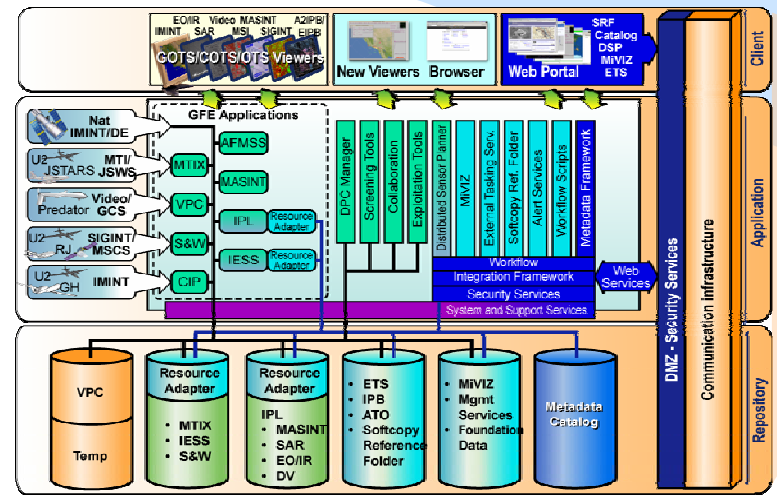
- **Logistics**
- **Education, and**
- **Training**

BENEFITS OF A SERVICE-ORIENTED ARCHITECTURE

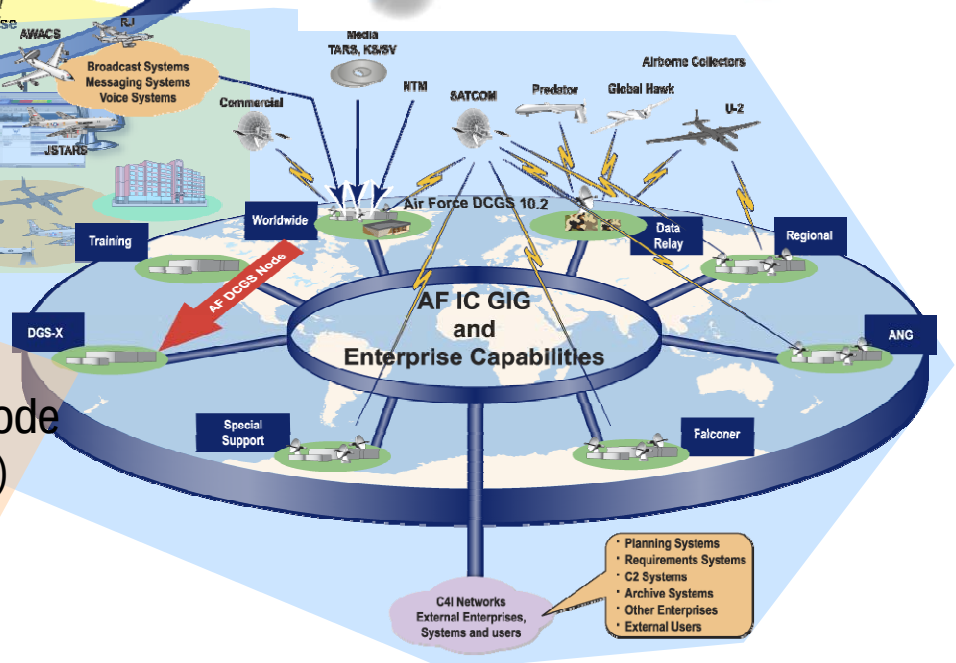
- ✓ Reduced development times and costs through standard, reusable components, applications and data
- ✓ Better alignment of business needs and IT infrastructure
- ✓ Decreased integration costs and lower application development risks
- ✓ Elimination of redundant data and systems based on shared services
- ✓ Consolidated and integrated legacy data and systems leads to lower maintenance costs and higher data integrity
- ✓ Foundation for composite applications and an integrated enterprise.

AF DCGS Interoperability Supports Joint ISR Enterprise Vision





DCGS 10.2 Node (DGS-X)



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Common Challenges

- DoD Governance Model
  - Manage the Seams
  - Requires Joint Funding
- Synchronize Enterprise Requirements, Schedules and Budgets
  - Co-evolution of network centric architectures, standards, components, CONOPS, mission systems, organizations,…
  - Harmonization of Metadata content, structure, ontology, registries and standards
- Many Stakeholders
  - Pursue Technical Solutions that are only inhibited by policy
- Enterprise Management and System Engineering
  - Requirements, Risk and Configuration Management
  - Integration and Test environments
  - Security
  - License Strategy
  - Developer’s environment
- Coalition Interoperability

Discussion Points

- Net-centric & distributed ops enabled for ISR enterprise and C2 integration
  - **DIB enables interoperability**
  - **Other SOA based systems coming**
- Need to focus beyond single programs
- Establish new business model for developing & maintaining services instead of systems to address **SOA Governance Questions**
  - Who defines shared services?
  - Who builds shared services?
  - Who uses shared services?
  - Who operates and manages shared services?
  - Who brokers change?
  - Who orchestrates and governs the five above activities?
  - Who funds shared services?
  - How do you create incentives for reuse?