

Net-Centricity

MG Marilyn Quagliotti
Vice Director, Defense Information Systems Agency
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DoD Transformation to a Net-Centric Organization



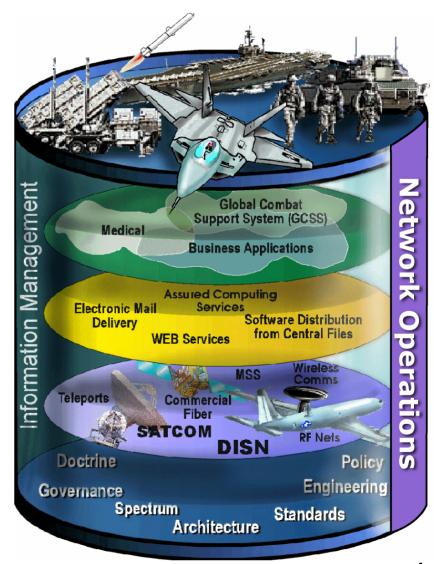
Engineering





C4 Transformation

- The Network is a Joint
 Enterprise, not a set of
 enclaves owned by individual
 services or agencies
- It operates under a common rule set:
 - -Configuration Management
 - Defense-in-Depth from an Enterprise perspective
 - Situational Awareness and Command and Control to the edge (NetOps)





C4 Community Transformation

- Computing and transport are collapsing
 - Moving from Functional Ownership of Systems to Network
 Ownership of server sites and database storage sites
 - Functional community owns data and access to the data
 - No "Box huggers", no rice bowls
- A hierarchical infrastructure for accountability, but not operations
- Focus on the information
 - Information to the edge
 - Life Cycle Management of Information
 - New skill-sets for C4 professionals
 - Focus on information, not infrastructure



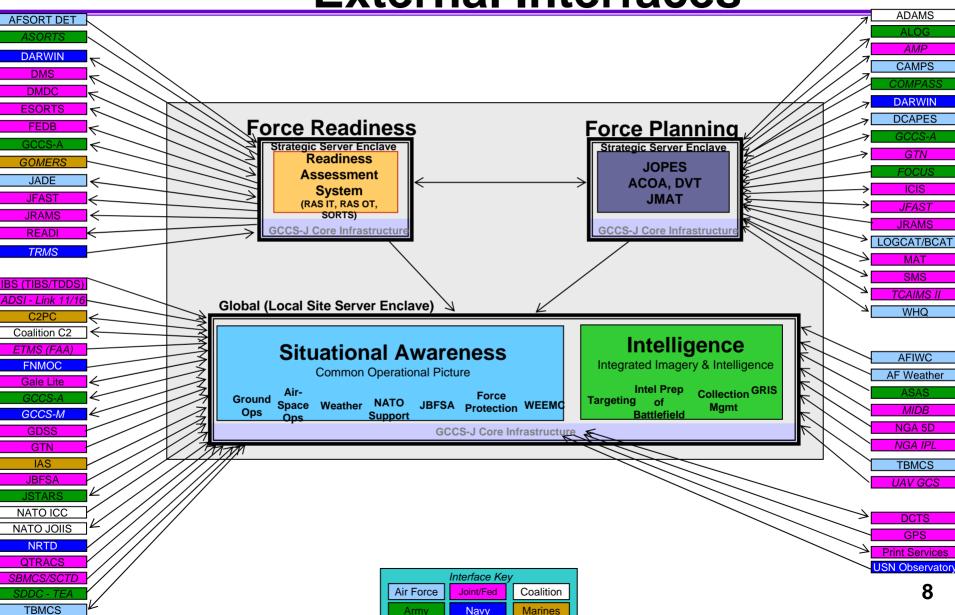
C4 Community Transformation

- All mission partners must participate
 - Intelligence community
 - Homeland Defense community
 - Allies and Coalition partners
 - When you connect to the GIG, you are part of the Enterprise
- Work more collaboratively, but with discipline
 - Common rules, common standards set by JTF-GNO
 - Clear Command and Control of the network
- Moving to an infrastructure of Controlled Access to Data rather than separate infrastructure by classification

Implementing the Data Strategy and Moving to a Service Oriented Architecture

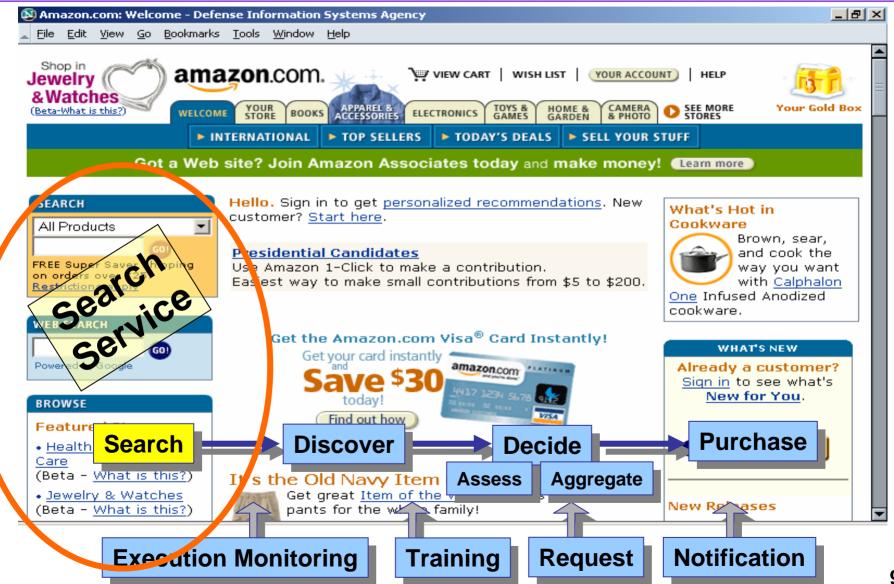
Why it's Different

DISA GCCS-J Functional Overview – External Interfaces



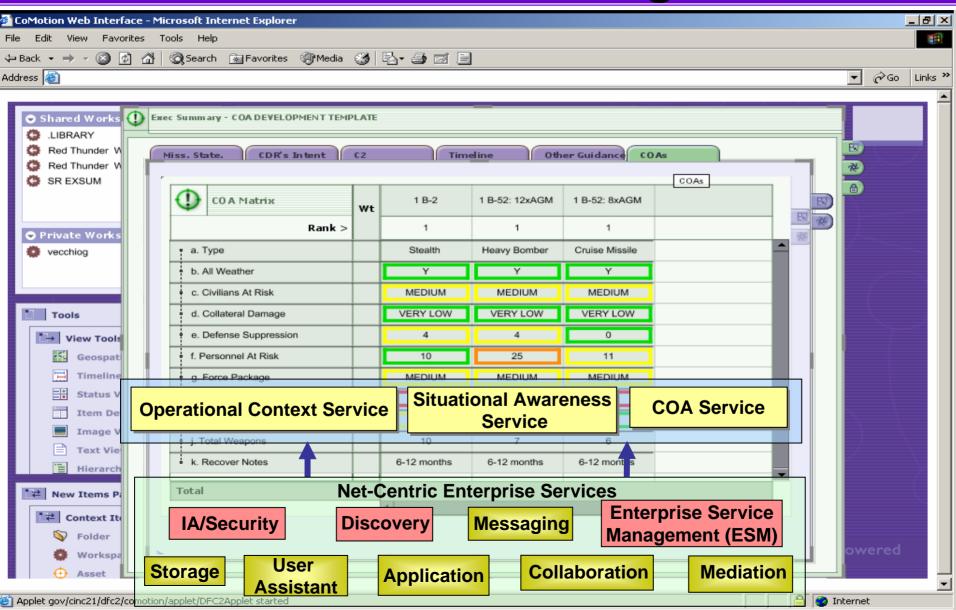


Task: Order a Book



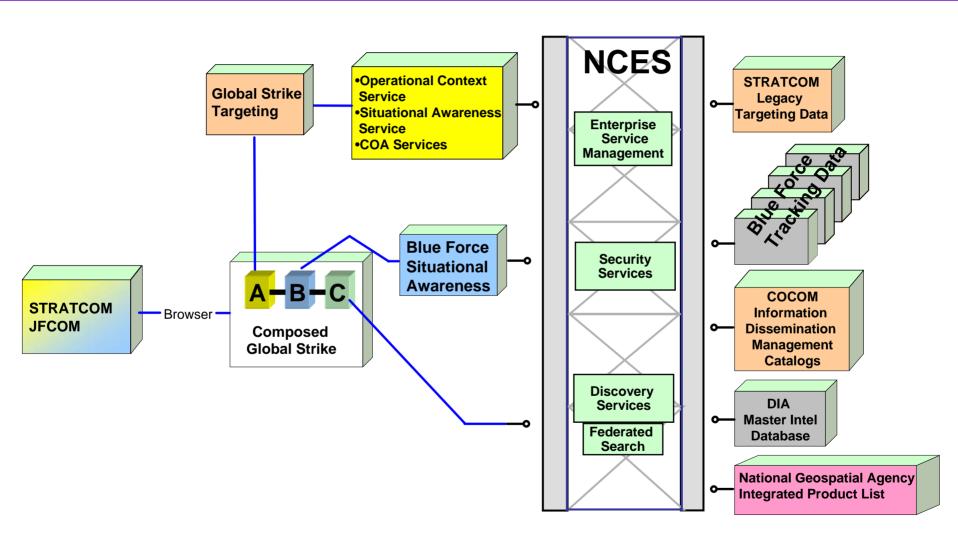


Task: Global Strike Mission Planning





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Changing DoD Processes

Requirements

- Dynamic Requirements Process (users groups)
 - Beta Testers
 - Subject Matter Experts
 - Gamers

Acquisition

- IT acquisition cycle must be fast to match commercial development cycles
- Federated Development & Certification Environment (FDCE)
 becomes the entry point to the GIG
 - Push out a "70% solution" that meets today's needs NOW

Budgeting/POM

Move to capability-based Budget and POM process



Changing DoD Processes

Certification and Accreditation Process

- Need a certifying body for system accreditors, like an ISO 9000 process review
- Delegation of authority with control of standards

Testing

- A factory approach, not an event approach
- Testing under FDCE recognized as the standard
- Continuous and integrated throughout development (Information Assurance, Interoperability Certification, Developmental Testing, Operational Testing)

Engineering

- End-to-End Systems Engineering required
 - Transport

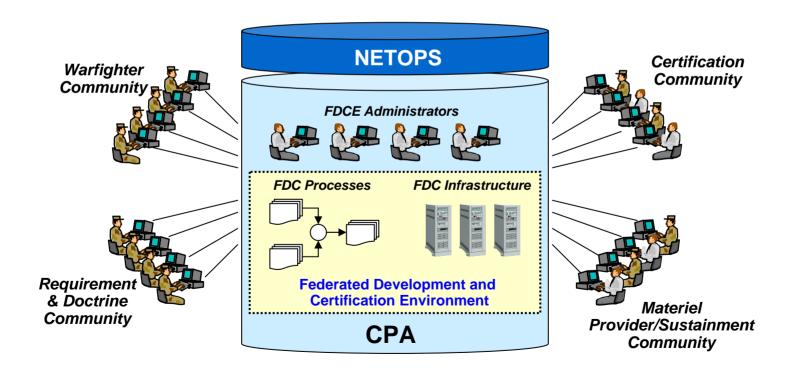
- Application Design

Computing



Federated Development and Certification Environment

The Federated Development and Certification Environment (FDCE) is the set of processes and supporting infrastructure that is needed to support the conduct of net-centric Capability Provisioning Activities (CPA)







Research Community

- Individually driven projects vs. defined research areas to solve hard problems
 - Change the method of project selection
- Need more focus on software assurance
- Need more focus on delivery of the National Security Agency "Information Assurance architecture"





Congressional Support

- Net-Centricity: Hard to explain concept with many moving parts
 - Need a core of people on the Hill we can educate to be our advocates
- A cut in one program effects many capabilities
- For true Net-Centric capability,
 Congress must support

