Headquarters U.S. Air Force

Integrity - Service - Excellence

Enterprise Architecture: Integrated Global Information



Mr. John Gilligan
Chief Information Officer
20 October 2003

U.S. AIR FORCE



Overview

- Integrated Global Information
- **Federal CIO Architecture**
- Air Force Business Modernization and Business Enterprise Architecture



Integrated Global Information

Access to information-worldwide, robust, real-time, 24/7/365, protected, scaleable, assured



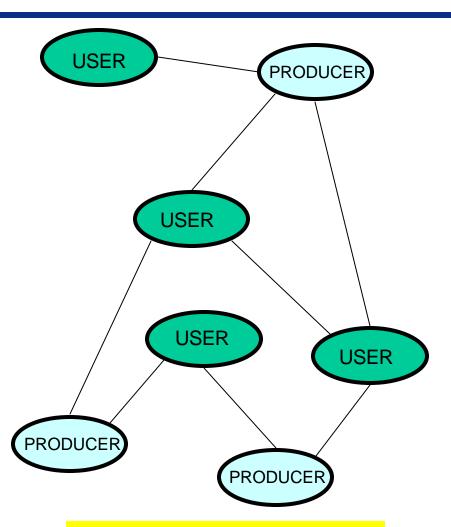
- Seamless information exchange
- Responsible data stewardship
- One single, centrally-governed enterprise infrastructure



Current Environment

Today

- Redundant tools / formats / functions / "official" sources
- Difficulty finding useful information
- Collaboration efforts not clearly defined
- Information stewardship immature
- No consistency towards accuracy, timeliness, and validity
- Point-to-point communications leave some "out of loop"



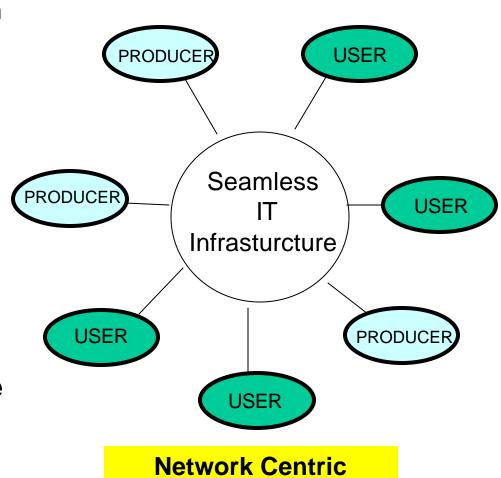
Fragmented Information



Future Direction

Vision

- Publish/Subscribe approach to information sharing
- Common/standardized formats, tools and terminology
- Integrated infrastructure "single" log-on
- Data Owners/Stewards providing authoritative sources
- Accurate, timely, trusted information readily available
- Enter data once use it many times





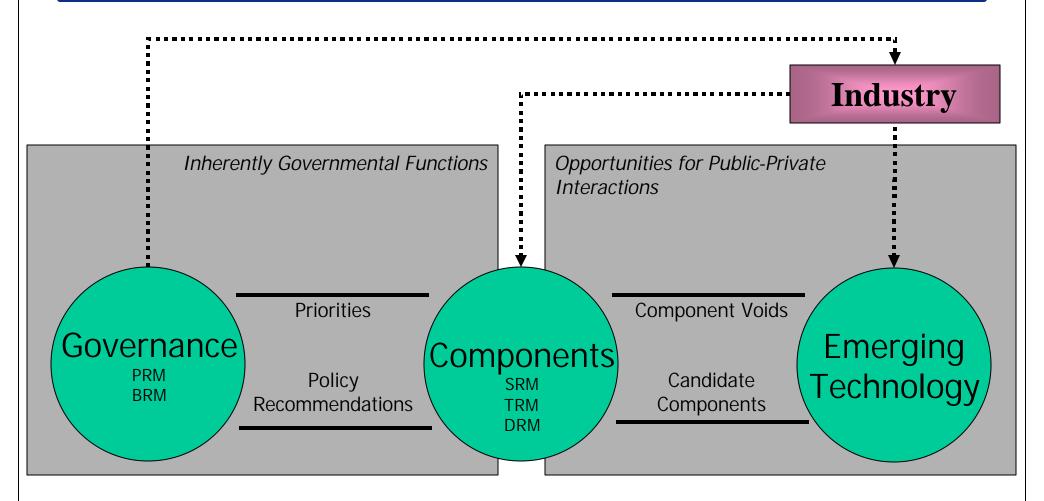
Federal CIO Council Architecture Objectives

- Integrate OMB and CIOC Architecture Efforts
- Develop (simpler) and Consistent Taxonomy and Terminology
- Facilitate Cross-agency efforts: common meta data, tools
- Oversee "operationalization" of architecture efforts

A new subcommittee structure was developed to support these objectives



Architecture and Infrastructure Committee Interrelationships





Enterprise Architectures (EA)

Federal Enterprise Architecture (FEA) **DoD/Joint Enterprise (GIG, DoD-BEA) AF Enterprise AF Enterprise Architecture** C415R Business = "Sub-Enterprise" WAR FIGHTING Combat Support **Architectures** ENTERPRISE Enterprise ARCHITECTURE Architecture Military-unique Infrastructure Infostructure Enterprise Architecture Common Use Infrastructure INTEGRATED ARCHITECTURES (e.g., CONOPs; C2C SIAP; GCSS; etc. Install & Log Personnel Finance Mgt Acquisition IAC Combat Ops Mobility Ops Space Ops Mod & Sim Special Ops Weather Air Traffic Mgt **AF Warfighting/Mission Support Architectures Program/Node Architectures**



AF Enterprise Architecture Activities/Accomplishments

POLICY & GUIDANCE

- Policy Memos (Ent Arch; Web Enabling Technologies, Win2K migration; data strategy; XML registration; ...)
- Architecture Guidance Memos (Authentication; Standards vis-à-vis standardization;...)
- Discussion Papers (15 different topics)
- AF Policy Directive Drafts, AFPD 92-x (IRM; Enterprise Architecture)
- AF Data/Info Strategy PM draft(IAW DoD Net-Centric Data Strategy)

GOVERNANCE

- Enterprise Arch Integration Council (EAIC) stand-up & ops secretariat
- Mission/Mission Support Architecture Councils guidance/oversight
- Classified Integration Council (SAR/SAP Archs)
- Collaboration with OSD, OMB, GAO, etc



SECAF's BMMP Direction 24 Jul 03



- Charters Air Force Business Modernization & Systems Integration (AF BMSI) Office
 - Provide policy, direction, and integration for AF business enterprise solutions
 - Focal point for business management modernization to all external organizations
- Defines governance structure



AF Business Enterprise Architecture (AF BEA)

Purpose:

 Provide structured description of the enterprise against which to make decisions and manage resources

Scope:

- AF-wide business and combat support processes
- Focus on BEA portion of AF Ref Models
- Provide guidance to AF Architecture Councils

Uses:

- Integrates view of enterprise business activities
- Describes lines of business
- Determine roles of all functionals in each domain
- Communicate intended future state (target)
- Link investments to enterprise strategy
- Inform, guide, and constrain decisions to reach target



AF BEA Development Methodology



DoD BEA

Capabilities CONOPS

Integration

Space C4I SR





Business Domain Architectures



Commercial Architectures









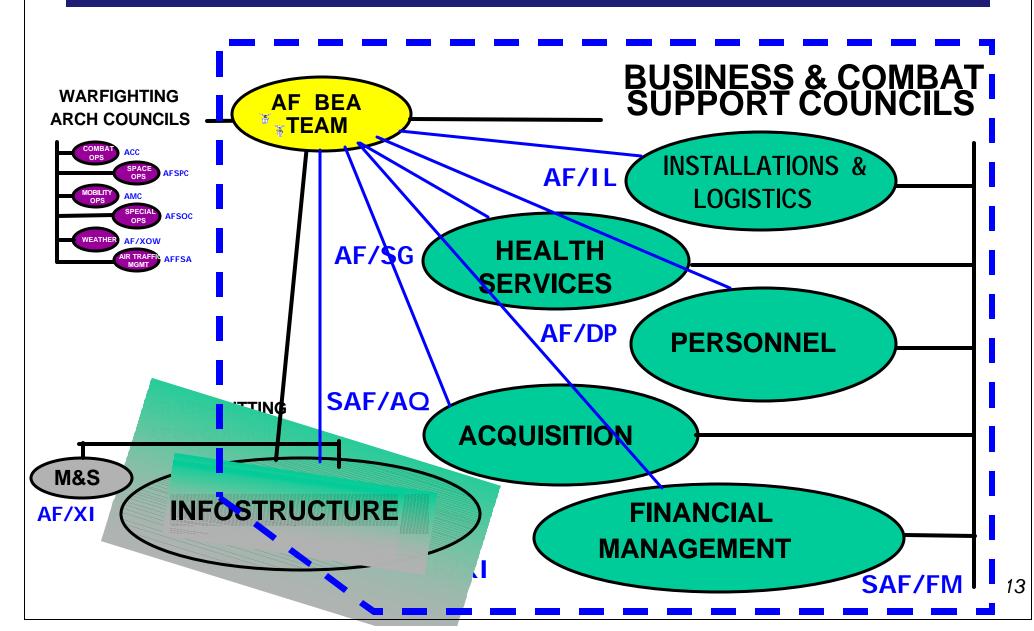
AF TFP

Business Transformation White Paper

- **✓** AF Combat Support (Core Process Aligned)
- **✓ AF Business Enabling Support**
- **✓ AF** Governing Support



AF BEA will Leverage Existing Business Councils





AF BEA Benefits

- Provides a clear picture of mission, strategies, business processes and supporting technology across the enterprise
- Underpins a change control process over IT projects
- Enables reuse, reduces duplication of effort, and leverages economies of scale
- Promotes information and knowledge sharing
- Communicates standards and guidance



The End Game



The *right* information at the *right* time disseminated and displayed in the *right* way so...

Commanders and Warfighters can do the *right* things at the *right* time in the *right* way

And do it all faster than the other guy: Information Superiority...Decision Dominance



BACKUP



Enterprise Architecture Governance Subcommittee

Subcommittee Mission:

- Develop policy, direction and guidance by which the Federal Enterprise Architecture (FEA) is a driver of business process improvement, investment management, and technical decisions in order to institutionalize the FEA throughout Government
- Assist in implementing the FEA and other Enterprise Architectures (EAs) throughout Government

Three Subcommittee Goals:

- 1. Integrate EA into the Government's management processes
- 2. Define the alignment of department/agency EAs with the FEA
- 3. Describe how the FEA will facilitate the connection of State and Local EAs to Federal business lines and agency architectures



Components Subcommittee

Subcommittee Mission:

■ Foster the identification, maturation, and re-use of enterprise architecture components and component-based enterprise architectures in Government

Subcommittee Goal:

 Facilitate cross-Agency development and implementation of enterprise architecture components

An Enterprise Architecture
Component is defined as "a self contained business process or service with predetermined functionality that may be exposed through a business or technology interface."



Emerging Technology Subcommittee

Subcommittee Mission:

 Coordinate and guide technology tracking efforts of the federal government. Accelerate the implementation of commercially-developed technology resolving common challenges

Subcommittee Goals:

- 1. To provide a clearinghouse function between industry and agencies
- 2. To help discover and close technological gaps in the federal business and technology infrastructure