Enterprise Initiatives in Architecture & Infrastructure

DoD Enterprise Architecture Conference
Hampton, VA
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UPDM – Unified Profile for DoDAM/MODAF

88Solutions
Adaptive
Atego
ASMG
Axway Software
BAE Systems
DoD
DND
Everware-CBDI
Generic
General Dynamics
IBM
L3Comms
Lockheed Martin Co

Mega
MITRE
MOD
NIST
Northrop Grumman
No Magic Inc
Raytheon
Rolls Royce
Sparx Systems
Selex SI
Thales
Unisys
VisumPoint LLC
Defense ITIL Progress

Defense ITIL has created a large active stakeholder group with more than 100 Stakeholders

- Service Operations (5 Processes) CIO Memo signed on 04/16/2010
- Service Design (7 Processes) Completed and Submitted. Memo signed 10/30/2010

Initiated the Defense ITIL effort to start the Service Catalog

- Service Catalog CIO Memo signed on 04/16/2010

Service Transition (7 processes) - Finalizing
Electronic Health Records

Common DoD-VA Requirements: HL7 EHR-S Functional Model with DoD and VA vetted Extensions (SV-4)
Common DoD-VA Integrated Health Business Reference Model (OV-5)
Common DoD-VA “To Be” Process Flow Model (OV-6C)

Presentation
(Common GUI)

Applications and Services

<table>
<thead>
<tr>
<th>DoD Unique (16)</th>
<th>Common (Joint) Applications &amp; Services (30)</th>
<th>VA Unique (6)</th>
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<tbody>
<tr>
<td>Battlefield Care</td>
<td>Pharmacy</td>
<td>Nursing Home</td>
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<tr>
<td>Pediatrics</td>
<td>Personal Health Record</td>
<td>Long Term Care</td>
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<tr>
<td>Military Readiness</td>
<td>Disability Evaluation</td>
<td>Rehabilitation</td>
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<td>Obstetrics</td>
<td>Inpatient Orders Mgmt</td>
<td>Transient Outreach</td>
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<td>Enroute Care</td>
<td>Consult &amp; Referral Mgmt</td>
<td>Pharmacy</td>
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<tr>
<td>Veterinary</td>
<td>Immunization</td>
<td>Mail Order</td>
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Common Interface Standards

Common Services Broker
(includes Enterprise Service Bus (ESB) and Infrastructure Services)

Common Interface Standards

Common Data Centers

Common Information Interoperability Framework (CIIF)
Common Information Model, Common Terminology Model,
Information Exchange Specifications, Translation Service
Common Data Standards: SNOMED CT and Extensions, LOINC and RxNorm

Common DoD-VA Measures of Effectiveness, Measures of Performance and key Performance Parameters
**Purpose:** Establishes policy, assigns responsibilities, and prescribes procedures for: test; certification; acquisition, procurement, or lease; effective, efficient, and economical transport; connection; and operation of DoD networks to support UC.

**Applicability:**
- All DoD Components
- DoD Component planning, investment, development, acquisition, operations, and management of DoD networks to support UC, independent of the mix of technologies, and whether converged or non-converged
- UC support for authorized non-DoD users (e.g., combined or coalition partners and U.S. Government departments and agencies)
- Acquisition of services as described in DoDD 5000.01 and DoDI 5000.02

**Policy:**
- DoD Components integrate current network technologies with future network technologies to provide UC
- Products that provide or support UC, acquired or operated by the DoD Components, shall be certified for interoperability and Information Assurance (IA)
- DoD Components comply with functional requirements, performance objectives, and technical specifications for DoD networks that support UC, as specified in the DoD Unified Capabilities Requirements (UCR)
- DoD networks support UC during all phases of DoD operations
- DISA is the preferred UC transport provider for Internet and commercial satellite connections used for voice, video, and/or data services on DoD networks

**Key ASD(NII)/DoD CIO UC Implementing Documents:**
- **DoD UC Requirements (UCR)** - Specifies the functional requirements, performance objectives, and technical specifications for DoD networks that provide UC. Basis for test, certification, acquisition, connection, and operation of UC products (15 Dec 10)
- **UC Master Plan (UC MP)** - Defines DoD’s migration from the current circuit-switched legacy and IP services, to converged net-centric IP-based UC (ECD: 31 Jul 11)
Provides Department-level guidance for implementation of common access control elements.
Governance of Architectures & Standards

ASRG = Architecture & Standards Review Group
FAC = Federated Architecture Committee
ITSC = Information Technology Standards Committee
DARS = DoD Architecture Registry System
DISR = DoD IT Standards Registry
• Architecture and Standards Review Group (ASRG)
  • Continues work to align with IC governance structure
  • Approved the Air Force Enterprise Architecture in to the DoD EA
  • Approved the EANCS RA in to the DoD EA
  • Approved 3 new IT Standards Baselines
  • Providing Authoritative guidance on the Country Code Transition
  • Revising the DoD EA Federation Strategy
    • Being staffed internally and will be coordinated with the EA COI
    • Will provide guidance on the DoD EA as a federation until policy is put out
  • Formed the IT Acquisition Reform Architecture Working Group
    • Supports the DCMO led effort to revise and shorten the time that IT acquisitions take to between 12 and 18 months from conception to delivery of capability
    • Depicts how Architecture can be used/consumed during the process to assist decision makers
Enterprise-wide Access to Networks and Collaboration Services (EANCS) Reference Architecture
Active Directory Optimization
Reference Architecture

(Global User Logon / GAL / Info Sharing)
AV-1 Registration in DARS

8 March 2011
Total: 542
Information Enterprise
Objective Architecture v1.0

IEOA Functional Vision

Sensors
Shooters
Commanders
External Partners

Human Computer Interaction
Functional Capability
Enterprise Services
Mandatory Core and
Shared Enterprise Services
Computing and
Communications Infrastructure

End User Devices
Secure Gateways
Advanced Interface Technologies

Autonomous User Agents
Building Partnerships
Protection

Battlespace Awareness
Corporate Mgmt and Support
Enterprise Services Management

Enterprise Directory
End-to-end Information Transport

Operating Systems
Data Centers

NetOps

Information Standards

Data Storage
Very Large Scale Data Storage

Computing Platforms and Devices
End-to-end Information Transport

Collaboration
Discovery

Mediation

Delivery

C2
Force Application
Force Support
Logistics

Master EW Technical Architecture

Technical EW Reference Architectures
Technical Specs / Standards / Manuals

Programs and Initiatives

Enterprise IT Services

Decomposed Capabilities
DIEA Priorities

Top-Level IT Strategic Goals & Policies

Document Tree
Data Center Consolidation

• Final Consolidation Plan highlights (FY10-FY13)
  • 32% reduction in data centers (from 772 to 532)
  • 30% reduction in racks (from 23,194 to 16,320)
  • 25% reduction in servers (from 67,246 to 50,378)

• OMB has established the target of 432 by 2015.
Community of Practice Challenges

• Continued resource constraints
• Promoting sharing through visibility and registration
• Federation AND integration (where it’s needed)
• Compliance with enterprise-wide architecture guidance
• Enterprise-wide architecture guidance