



# **Better Results from Architecture Investments: Policy, Standards and Governance**

**DoD Enterprise Architecture Conference 2009  
St. Louis, MO**

**Brian Wilczynski  
Director**

**Enterprise Architecture and Standards  
Office of the DoD Deputy Chief Information Officer**

**Creating an Information Advantage**

# Policy – DoDD 8000.1

- “Management of the Department of Defense Information Enterprise”, 10 FEB 2009
  - The DoD Enterprise Architecture, which is composed of DoD enterprise and Component levels, shall be maintained and applied to guide investment portfolio strategies and decisions, define capability and interoperability requirements, establish and enforce standards, guide security and information assurance requirements across the Department of Defense, and provide a sound basis for transition from the existing environment to the future.





# EA&S Policy Initiatives

- DoDD 8210: “Architecture in the Department of Defense”
  - First overarching DoD policy on architecture development, maintenance, and use
  - Assigns roles and responsibilities consistent with the CIO’s federated approach to architecture
  - Developed in collaboration with the DoD CIO’s Enterprise Architecture Summit
  - Preparing for SD-106 coordination
  
- DoDI 8210: “Managing Architecture in the DoD”
  - Detailed procedures to support DoDD
  - In development
  
- Directive Type Memorandum on Registration of Architectures
  - Directs the use of an AV-1 template for registration
  - Includes DoD Discovery Metadata
  - DoD Architecture Registry System (DARS)
  - Entering SD-106 coordination

# Standards – 2 Contexts

- Operations of the Information Technology Standards Committee (ITSC)
  - Led by: DoD CIO, USD (AT&L), CJS J6, DISA
  - Results in updates to the DoD IT Standards Registry (DISR)
  
- Standards that guide the Department's architectural efforts
  - International Defence EA Specification (IDEAS)
  - Unified Profile for DoDAF/MODAF (UPDM)
  - Competency Framework for DoD Architects
  - DoD Architecture Framework (DoDAF)



# DoDAF v2.0, 28 May 2009



CHIEF INFORMATION OFFICER

DEPARTMENT OF DEFENSE  
6000 DEFENSE PENTAGON  
WASHINGTON, DC 20301-6000

MAY 28 2009

MEMORANDUM FOR SECRETARIES OF THE MILITARY DEPARTMENTS  
CHAIRMAN OF THE JOINT CHIEFS OF STAFF  
UNDER SECRETARIES OF DEFENSE  
COMMANDERS OF THE COMBATANT COMMANDS  
ASSISTANT SECRETARIES OF DEFENSE  
GENERAL COUNSEL OF THE DEPARTMENT OF  
DEFENSE  
DIRECTOR, OPERATIONAL TEST AND EVALUATION  
INSPECTOR GENERAL, DEPARTMENT OF DEFENSE  
ASSISTANTS TO THE SECRETARY OF DEFENSE  
DIRECTOR, ADMINISTRATION AND MANAGEMENT  
DIRECTOR, PROGRAM ANALYSIS AND EVALUATION  
DIRECTOR, NET ASSESSMENT  
DIRECTORS OF THE DEFENSE AGENCIES  
DIRECTORS OF DOD FIELD ACTIVITIES

SUBJECT: The Department of Defense Architecture Framework (DoDAF) Version 2.0

The DoD Architecture Framework (DoDAF) Version 2.0 is approved for immediate use. Version 2.0, which supersedes Version 1.5 released 23 April 2007, is the prescribed framework for all Department architectures, and represents a substantial shift in approach. It places emphasis upon a disciplined process of defining the purpose, scope and information requirements of the architecture up-front, followed by collection of data in accordance with a standard vocabulary. Data collected through the architectural process is delivered to the customer in either standard models or "Fit for Purpose" presentations.

DoDAF Version 2.0 accommodates artifacts and viewpoints created under version 1.5 and includes new Viewpoints to meet user requirements. While DODAF is the prescribed means of representing architecture content, the specific models developed are Selected by the user and defined by the processes which they support. DODAF Version 2.0 provides a richer, yet leaner methodology to document essential architectural content. Architectures shall comply with Version 2.0 in their next major release. DODAF version 2.0 is available at <https://www.us.army.mil/suite/page/454707>.



Version 2.0 consists of three volumes and a Journal:

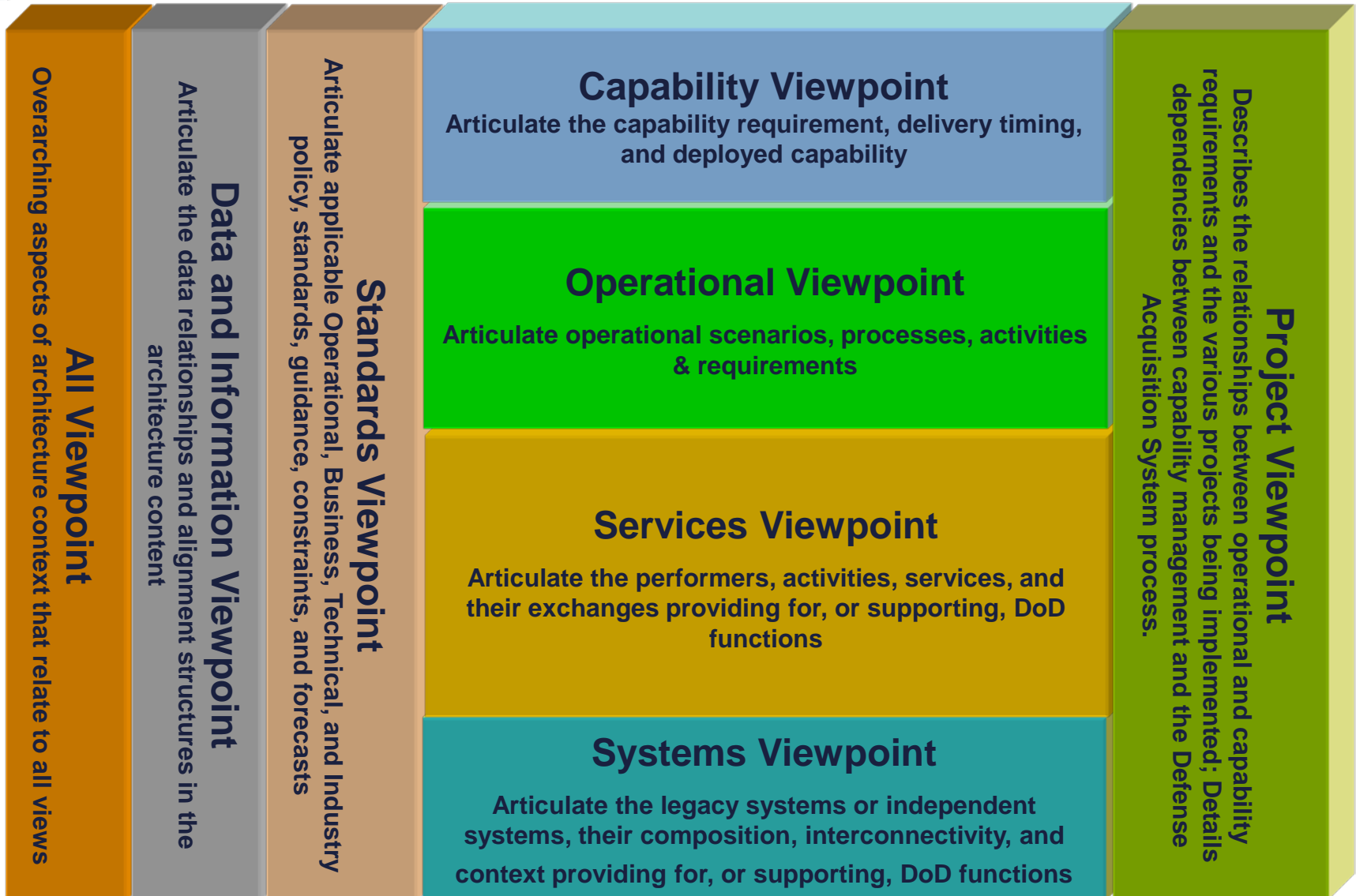
- Volume 1 (Manager's Guide - Introduction, Overview, and Concepts) introduces DoD architecture concepts and provides general guidance for development, use, and management of DoD architectures.
- Volume 2 (Architect's Guide - Architectural Data and Models) describes the Meta-model data groups, and their associated models from a technical viewpoint.
- Volume 3 (Developer's Guide - DoDAF Meta-model Physical Exchange Specification) relates the Conceptual Data Model structure, Logical Data Model relationships, associations, and business rules to introduce the Physical Exchange Specification which provides the constructs needed to enable exchange of data and derived information among users and Communities of Interest.
- The DoDAF Journal provides a place for submitting future change requests to DoDAF or the DoDAF Meta-model, and provides the examples referenced in the various DoDAF volumes. The DoDAF Journal also contains supplementary "how to" information relating to architecture, architecture best practices, lessons learned, and reference documents.

Our future plans include the development of a "virtual DoDAF", that will allow for incremental changes based upon user feedback and DoDAF Core Management Group adjudication. The release of the "virtual DoDAF" will be announced via the DoDAF website referenced above. My point of contact for the DoDAF is Mr. Michael L. Wayson, (703) 607-0482, [michael.wayson@osd.mil](mailto:michael.wayson@osd.mil).

David M. Wennergren  
Performing the Duties of the  
ASD(NII)/DoD CIO



# DoDAF 2.0 Viewpoints





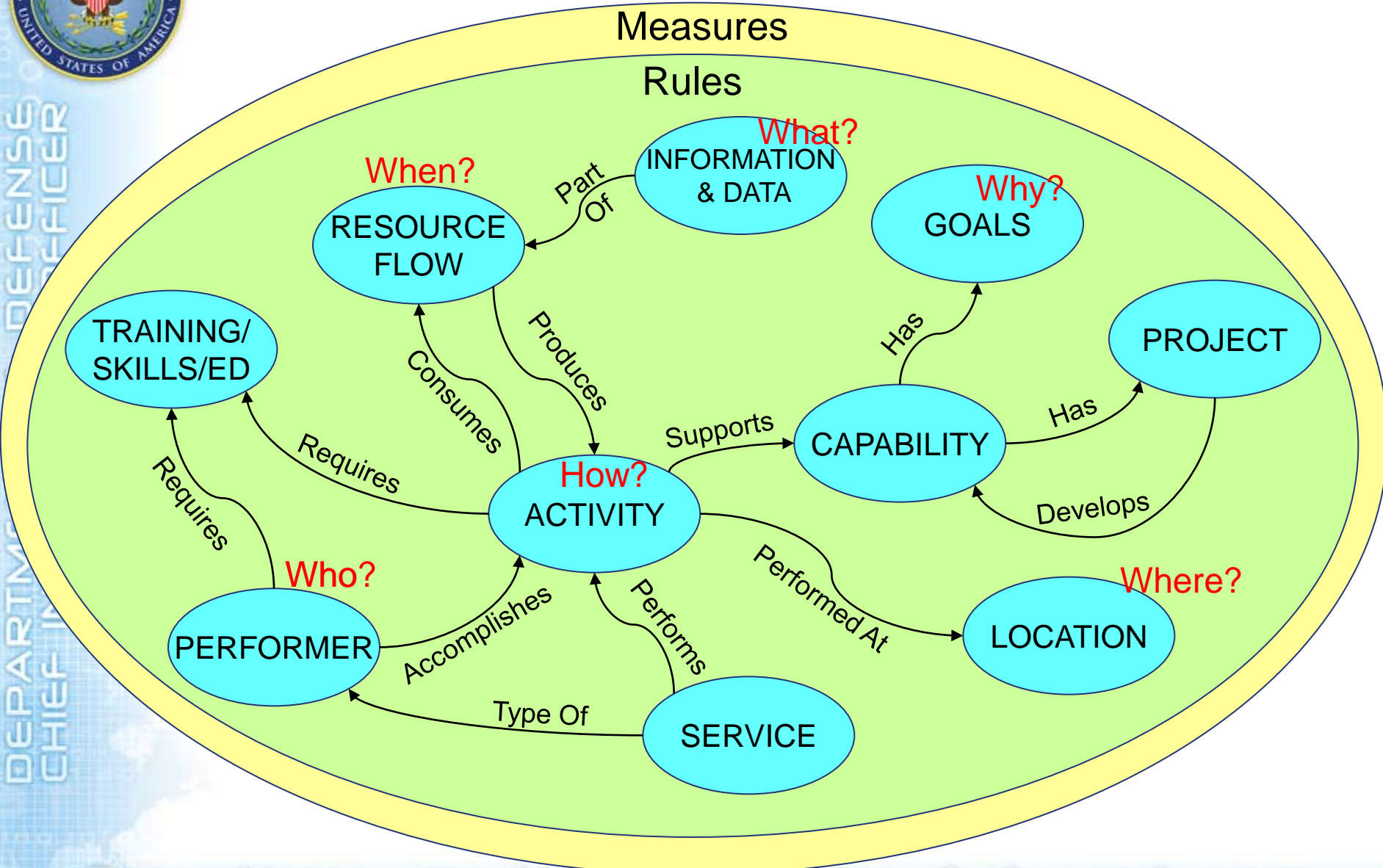
# DoDAF Metamodel (DM2)

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# DM2 Concepts & Major Relationships

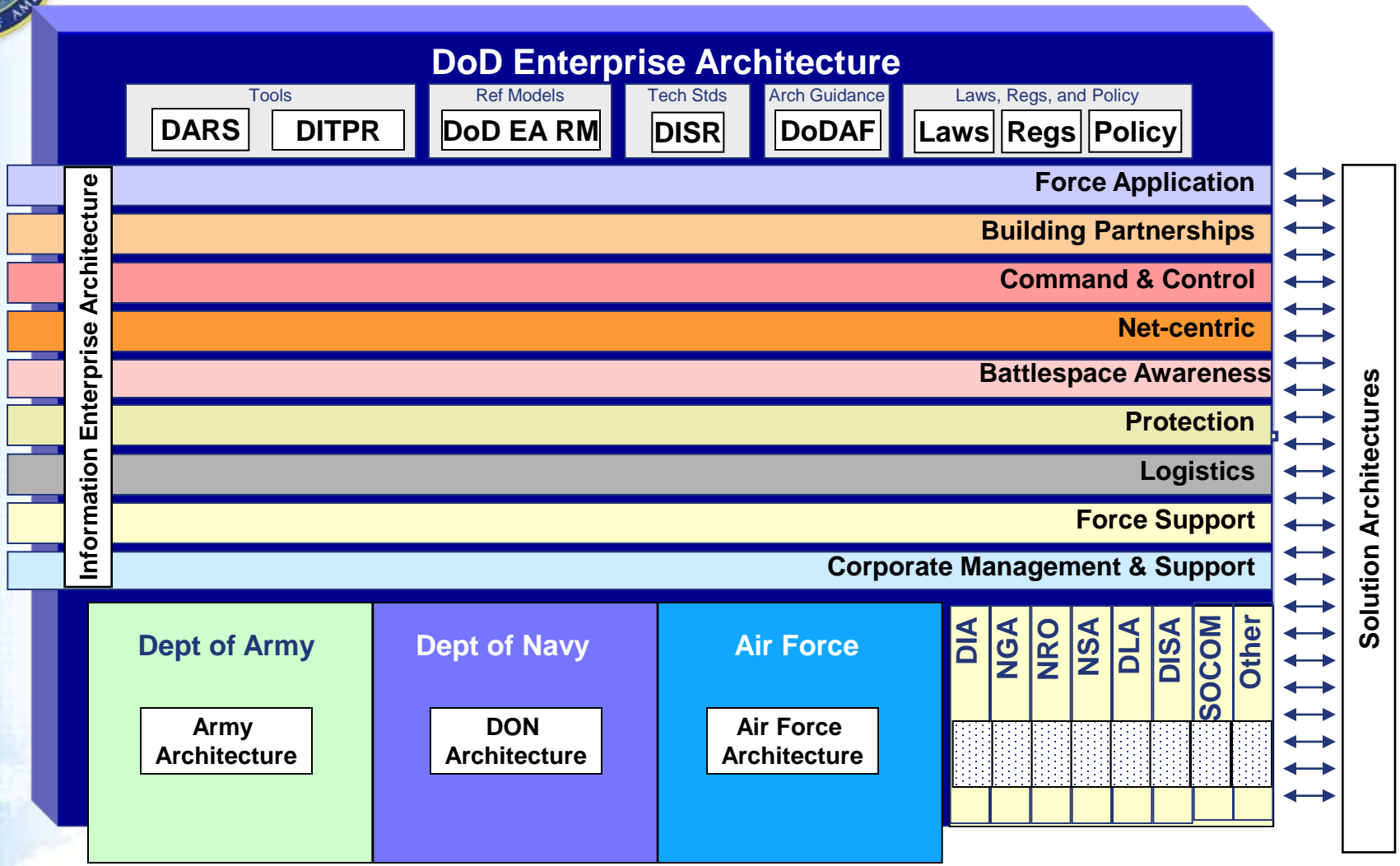
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# Governing the DoD Architecture Federation

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## Defense Information Enterprise Architecture

April 11, 2008

▼ DIEA Mission

▼ DIEA Priorities

Contact Us

### DIEA 1.0 Products

#### DIEA Architecture Description (OV-1)

Project Charter (AV-1)

Hierarchical Activity Model (OV-5)

Principles and Rules (OV-6a)

Glossary (AV-2)

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FAQs

### Net-Centric Guidance

DoD CIO Homepage

DoD CIO Strategic Plan

DoD Net-Centric Data Strategy

DoD Net-Centric Services Strategy

DoD Information Assurance Policy

DoD Information Sharing Strategy

DoD IT Portfolio Management Directive

DoD Telecommunications Directive

### Transition Partners

Defense Business Transformation

### Privacy and Web Policies

"Lead the DoD Enterprise to Achieve an Information Advantage for our People and Mission Partners"



### Defense Information Enterprise Architecture Release

The Defense Information Enterprise Architecture version 1.0 (DIEA 1.0) provides a common Defense Information Enterprise foundation to support accelerated Department of Defense (DoD) transformation to net-centric operations. It presents the vision of net-centric operations and establishes near term priorities to address critical barriers that must be overcome in order to achieve the vision.

The Defense Information Enterprise Architecture consolidates underlying DoD Net-Centric policies to provide guidance for all DoD, across all portfolios, enabling informed discussions among decision-makers about key issues, and underpinning process improvements throughout the Department. Defense Information Enterprise Architecture 1.0 highlights the key principles, rules, constraints and best practices to which applicable DoD programs, regardless of Component or portfolio, must adhere in order to enable agile, collaborative net-centric operations.

### Defense Information Enterprise Architecture Products

This website represents the main method for distributing Defense Information Enterprise Architecture 1.0. The full set of Defense Information Enterprise Architecture 1.0 products are available from the left side menu entitled "DIEA 1.0 Products" where users can access:



# DoD IEA v1.1, 27 May 2009



DEPARTMENT OF DEFENSE  
6000 DEFENSE PENTAGON  
WASHINGTON, DC 20301-6000

CHIEF INFORMATION OFFICER

MAY 27 2009

MEMORANDUM FOR SECRETARIES OF THE MILITARY DEPARTMENTS  
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Reference: DoD CIO Memorandum, The Defense Information Enterprise Architecture,  
April 11, 08

Subject: DoD Information Enterprise Architecture, Version 1.1

The Department of Defense (DoD) Information Enterprise Architecture (IEA) (ref) version 1.0 unified the concepts embedded in the Department's net-centric strategies and highlighted key principles, rules and constraints with which all DoD investments must comply. In streamlining DoD CIO guidance, I directed that the Net-Centric Operations and Warfare Reference Model (NCOW RM) be merged with the IEA, resulting in the delivery of IEA version 1.1. Your participation in the development of this new version is much appreciated.

Version 1.1 consists of an edited main document along with three new appendices: Appendix D, Applying the DoD Information Enterprise Architecture; Appendix E, Compliance with the DoD Information Enterprise Architecture; and Appendix F, Mapping the DoD IEA Activities to the NCOW RM Activities. Appendix F is meant to provide a bridge from the Reference Model to the IEA, giving those efforts that are in compliance with the RM the means to comply with the IEA.



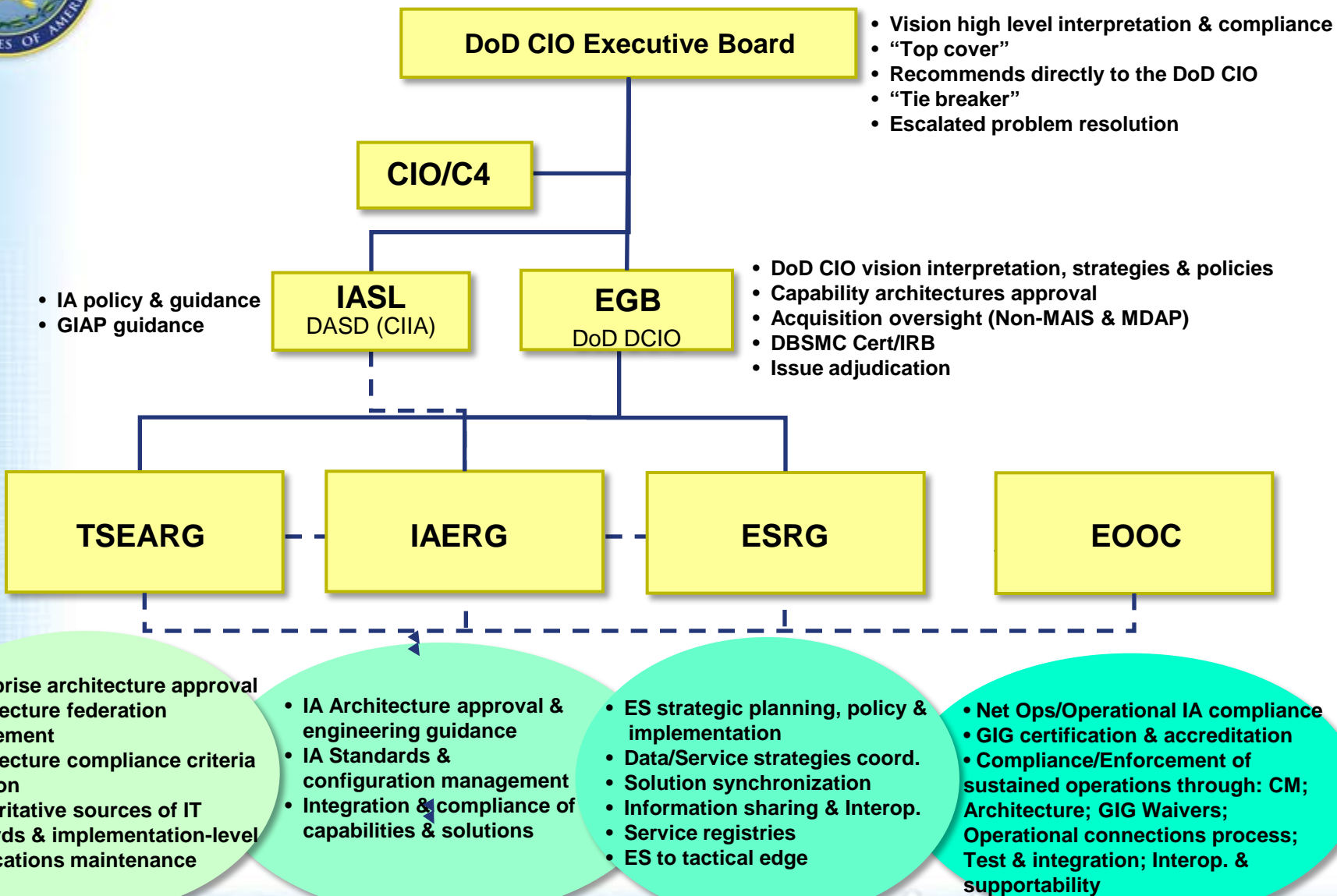
Effective immediately, IEA version 1.1 will be used in lieu of the NCOW RM in all instances where the NCOW RM has been prescribed (e.g. the Net-Ready Key Performance Parameter and other compliance requirements). The IEA version 1.1 is the single document establishing requirements for compliance with the Department's net-centric strategies.

My action officer for this effort is Mr. Terry Hagle (703-607-0235; terry.hagle@osd.mil). Please refer your questions/comments concerning Version 1.1 to Mr. Hagle.

David M. Wennergren  
Performing the Duties of  
ASD(NII)/DoD CIO

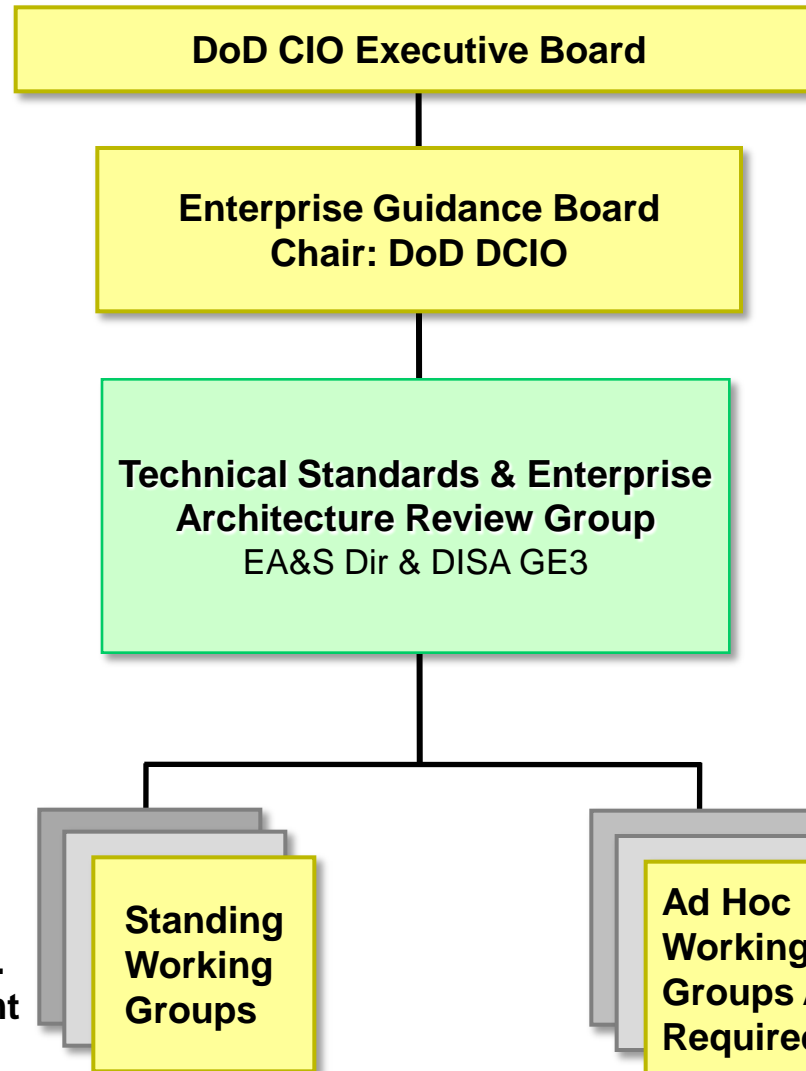


# CIO Governance Areas of Responsibility





# Proposed Governance Structure: Technical Standards & Enterprise Architecture Review Group



**Examples:**

- ❖ Architecture Cell
- ❖ IT Standards Cmte.
- ❖ Configuration Mgmt Boards

**Examples:**

- ❖ Policy Changes
- ❖ Ref Model Updates
- ❖ Compliance Criteria Revisions

# Questions for the EA&S Staff

- Alan Golombek, [alan.golombek@osd.mil](mailto:alan.golombek@osd.mil)
  - Policy, Governance (TSEARG), IC Coordination
- Terry Hagle, [terry.hagle@osd.mil](mailto:terry.hagle@osd.mil)
  - IEA, Reference Architecture, Reference Models, Architecture Cell
- Walt Okon, [walt.okon@osd.mil](mailto:walt.okon@osd.mil)
  - IT Standards, DARS, UPDM, Competency Framework, Information Sharing Environment
- Michael Wayson, [michael.wayson@osd.mil](mailto:michael.wayson@osd.mil)
  - DoDAF, DM2, IDEAS, NATO C3 Policy Working Group, Maritime Domain Awareness, EA Conference/Summit

