

Selecting DoDAF 2.0 Views and Models for Use in DoD Projects, Their Integration & Analysis

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Agenda

- A short introduction to the FEAC DoDAF Certification Program
- Overview of DoDAF 2.0
 - Changes from 1.5
- Six Step Process for Planning
- Examples
 - Example questions and corresponding views
 - Example planning example



The FEAC DoDAF Program

- FEAC was founded in 2001 and has certified over 1600 architects.
- FEAC offers DoDAF education and training that leads to FEAC Certification, which is given by California State University East Bay and can earn graduate
- The program consists of five courses, four of which can be taken for graduate academic credit from the Department of Engineering at CSUEB
- FEAC has a relationship with National University (<u>www.nu.edu</u>) who accepts these units into their MS in Engineering Management program with a specialty in Enterprise Architecture. The remainder of that degree courses is offered online.
- Students learn how to plan, develop, model, implement and do EA analysis for an actual DoDAF project throughout the program and delivered as a practicum
- FEAC also offers short workshops and DoDAF boot camps, as well as TOGAF 9 certification courses



The DoDAF Courses

- The five basic FEAC courses are designated by the following course numbers; depending on whether you are taking the program for CEU or graduate academic units:
 - EXSP 8680/ENGR 7806 Framework Basics
 - EXSP 8681/ENGR 7807 Planning for Architecture Development and Use
 - EXSP 8682/ENGR 7808 Framework Views and Models
 - EXSP 8683/ENGR 7809 Advanced DoD Architecture Modeling and Analysis
 - EXSP 8684 DoDAF Practicum/Thesis
- We also provide an Elective TOGAF Course for those wanting TOGAF 8.1.1 Certification, which qualifies those who want to TOGAF 9 to take the Bridging Examination



Organizations that have sent students to FEAC for Certification

Government

Army Def Med Log SS Army AIMD TRADOC Air Force HQ OSSG Air Force AIMD TRADOC Air Force USJFCOM Air Force US PACOM Air Force US STRATCOM Bureau of Engraving & Printing City of Glendale, CA City of Virginia Beach DOD OSD BMSI Department of Commerce - NTIA Department of Commerce PTO Department of Education SFA Department of Education HQ Department of State DOI CIO DOI OSM DISA HHS -ASBTF-OIRM Federal Railroad Administration Forest Service GAO GSA IRS Joint Forces Command Lawrence Livermore National Labs National Park Service Navy ONR Navy NAVSISA NASA HQ **NASA Centers** NOAA Office of the Comptroller of the Currency OPM Security and Exchange Commission Smithsonian Treasury - US Mint USDA HQ **USDA RMA US Postal Service US Coast Guard US Commerce Department US Patent and Trademark** US PACOM/J2T2 **US Senate** University Of Leuven (Belgium) Veterans Administration VA Veterans Benefits Administration

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Industry Aerospace Corporation Analytics and Mechanics Assoc Anteon Apteon Arinc BAE Systems BEA Boeing Booz Allen Hamilton Burk Consortium CACI Conquest-Boeing CSC DiamondCluster International DigitalNet Eagan McAllister East Bank Technologies General Dynamics GroupoActivity (Spain) Headstrong Hewlett Packard Independent Consultants Information Dynamics Johns Hopkins University-Knowledge Code L-3 Communications Lockheed Martin Co Northrup Grumman NTT Data Agilnet (Japan) Oracle PacTel Phase One Inc Raytheon RG2 RGS Assoc Rose International RSIS SAIC Samsung (Korea) Schafer Sci Group ScotCro SKCC (Korea) Stanley Associates Inc Summaria Sys Inc

Titan

VAAP Technologies



Goals

 Understanding how to identify required data and select DoDAF described models based on stakeholder questions



DoD Architecture Framework 2.0

What it is:

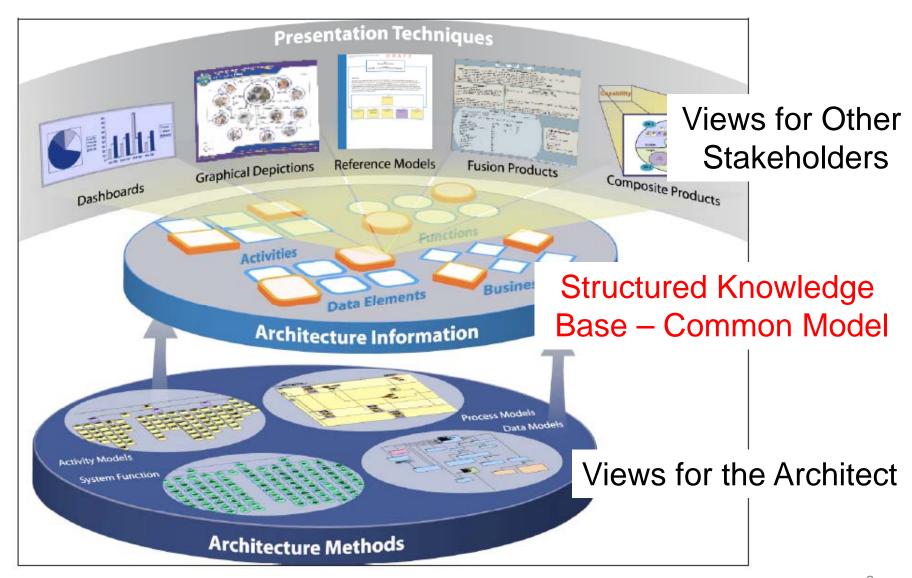
- Guidance on the types of data and relationships needed to document a DoD architecture in a standard way (new in 2.0)
- Guidance on format and content for a standard set of DoDAF Described Models for describing architectures
- High level meta-process for using the DoDAF

• What it isn't:

- A specific architecture
- A tool
- A detailed architecture development process

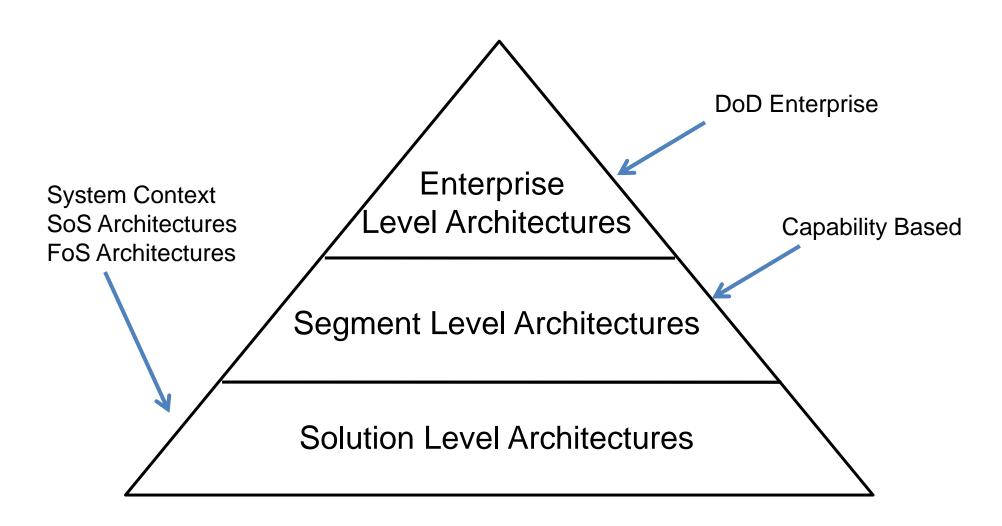


DoDAF V2.0 Vision





Levels of Architecture





DoDAF V2.0 Viewpoints

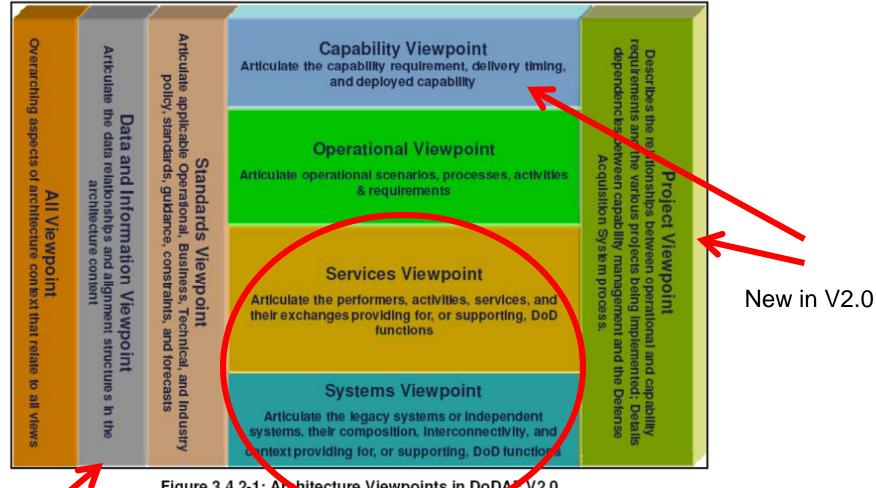


Figure 3.4.2-1: Architecture Viewpoints in DoDA, V2.0

Data models split out into separate Viewpoint in V2.0 Services views split out into separate viewpoint in V2.0



Views Are Models Not Pictures

- Models have a standard semantic interpretation
 - Rules for correctness and consistency
- Most DoDAF described models/views have a graphic template
- The graphic is backed up with dictionary entries (based on data entities and relationships from DM2):
 - Data elements provide definitions and descriptions of items in the graphic

plus

- Additional supporting information and relationships to other architecture elements
- The data elements *integrate* the set of views
 - Views share data



DoDAF As Guidance

- Views have options discussed in Volume II
 - Choices of things like:
 - Techniques/notations
 - Level of detail
- All views may be tailored
 - Graphic conventions
 - Techniques to manage complexity
 - Edits of dictionary entries: changes to data elements

Unified Profile DoDAF and MoDAF: UPDM

- OMG Standard: provides a UML 2 and optional SysML profile for expressing DoDAF and MoDAF model elements
- Provides identification of data included in DoDAF described models
 - Used to be included within DoDAF volumes
 - Now included in separate document
 - Enhances and refines DM2 in DoDAF
- Provides way of writing DoDAF described models in UML
 - UML is a *notation*, not a methodology

UPDM Goals

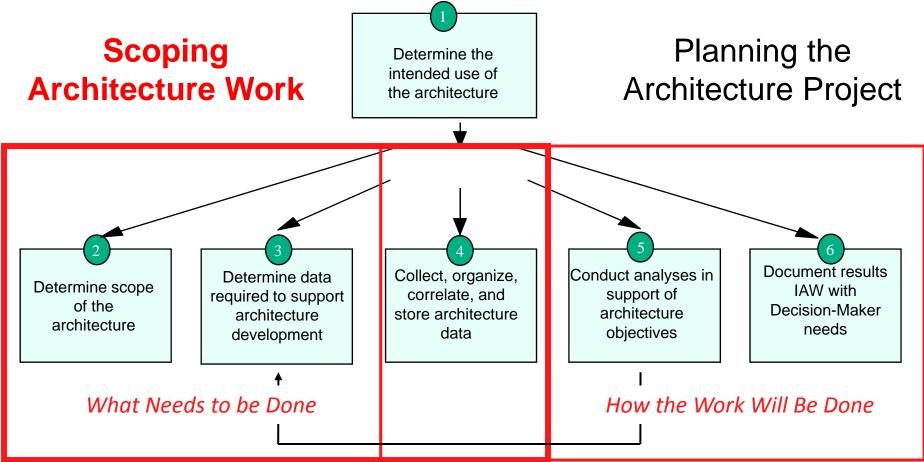
- Enhance the quality, productivity, and effectiveness associated with enterprise and systems of systems architecture modeling
- Promote architecture model reuse and maintainability
- Improve tool interoperability and communication between stakeholders
- Reduce training impacts due to different tool implementations and semantics



Architecture Planning



Six Step Process (V2.0) - The Planning Perspective





What Does the Six Step Process Do for Planning?

The Six Step Process is important to the identification of required data and selection of views together with their options and tailoring

- Performance of Steps 1-4 yields information for your AV 1:
 - Purpose and stakeholders
 - Scope
 - Views with options and tailoring
- Planning for Steps 4-6 yields constraints on view options and tailoring based on development and analysis processes



Step 1: Determine Intended Use The Problem Statement

- What questions need to be answered?
- Are there specific strategic objectives to be satisfied?
- Are there specific trade offs to be considered?
- What critical issues need to be addressed?
- How is the EA used to support key decisionmaking processes?
- What types of analysis need to be supported?

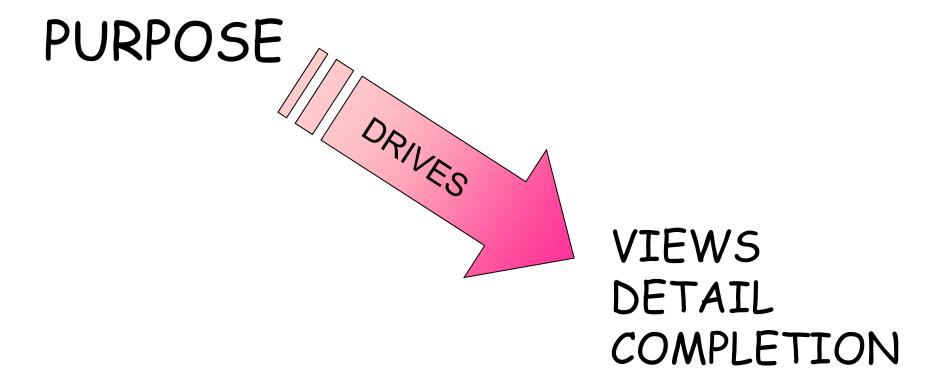


Why Is Purpose Important?

- Architecture is a tool to support decision making
 - If you don't know what you are going to use it for, there is a good chance it won't be useful
 - You need to identify and understand the different purposes of different stakeholders
- Architectures can be expensive to build
 - Doesn't make sense to build one if you don't plan to use it!



Why Is Purpose Important?





Step 2: Determine Scope

- Operational bounds
 - What's the enterprise, what level of architecture
 - What mission(s), functions, and organizations
 - What geographical context
- Constraints on technology to be considered
- Timeframes
 - As-Is, To-Be, phasing and evolution
- Specific project schedule and resource constraints



Step 3: Determine Data Required to Support Architecture Development - Think About Architecture Primitives

(DoDAF Conceptual and Logical Data Model (DM2) Entities)

- Performers
- Activities
- Information elements
- Events/triggers
- Capabilities
- Goals

- Systems
- Services
- Rules
- Standards
- Locations
- Measures
- Projects



Step 4: Collect, Organize, Correlate, and Store Architecture Data



Collect, Organize, Correlate, and Store Architecture Data

- Automated repositories
- Activity Models
- Data Models
- Dynamic Models
- Organizational Models
- Metadata registration

- Emphasis in planning is how data will be organized
- That is, what DoDAF views will eventually be used, including options and tailoring
- This tells us what the metadata should be and identifies repository requirements
- This tells us what needs to be collected and how it should be correlated

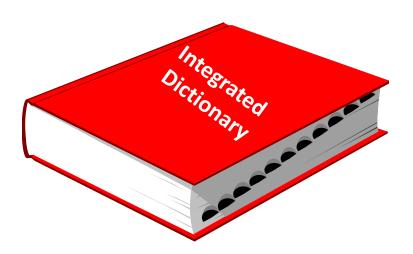


All Viewpoint Views Capture Information That Applies to the Architecture Overall

Overview and Summary Information (AV-1)

- Identification
 - Name
 - Architect
 - Organizations Involved
 - When Developed
- Purpose
 - Analysis Needs
 - Decision Support Needs
- Scope
 - Views and Products Used
 - Time Frames Addressed
- Context
 - Mission
 - Geographical
 - Rules, Criteria, and Conventions **Followed**
- Findings: Results, Recommendations
- Tools and File Formats

Integrated Dictionary (AV-2)



At a minimum, the integrated Dictionary is a glossary with definitions of terms used in the given architecture description. Each labeled graphical item in the graphical representations should have a corresponding entry in the Integrated Dictionary.



Example Questions Mapped to Views: Enterprise-Level Architecture

Capability Management Portfolio Management



Example Capability Management Questions

Question	Required Data Types	Views
How do the capabilities relate to enterprise strategy and goals?	Vision Goals Desired Effects Capabilities Relationship between capabilities and goals	Vision (CV-1)
Are there dependencies among the capabilities?	Capabilities Relationships among capabilities, including dependencies	Capability Dependencies (CV-4)
How will capability performance be measured?	Capabilities Performance Measures Relationships of capabilities to performance measures	Capability Taxonomy (CV-2)



Example Capability Management Questions (continued)

Question	Required Data Types	Views
When will the capabilities be available and what projects will provide them?	Capabilities Projects Timeframes Relationships among the above	Capability Phasing (CV- 3)
What organizations will use the capabilities?	Capabilities Organizations Relationships among capabilities and organizations	Capability to Organizational Development Mapping (CV- 5) Organizational Relationships Chart (OV-4)



Example Portfolio Management Questions

Question	Required Data Types	Views
What organizations are in change of which projects?	Organizations Projects Relationships between organizations and projects	Project Portfolio Relationships (PV-1) Organizational Relationships Chart (OV-4)
What are the timelines for the projects and are there dependencies among them?	Projects Timelines: start and end dates Dependencies among projects	Project Timelines (PV- 2)
Which projects are delivering capability configurations that realize which capabilities?	Projects Capabilities Relationships between projects and capabilities	Project To Capability Mapping (PV- 3)

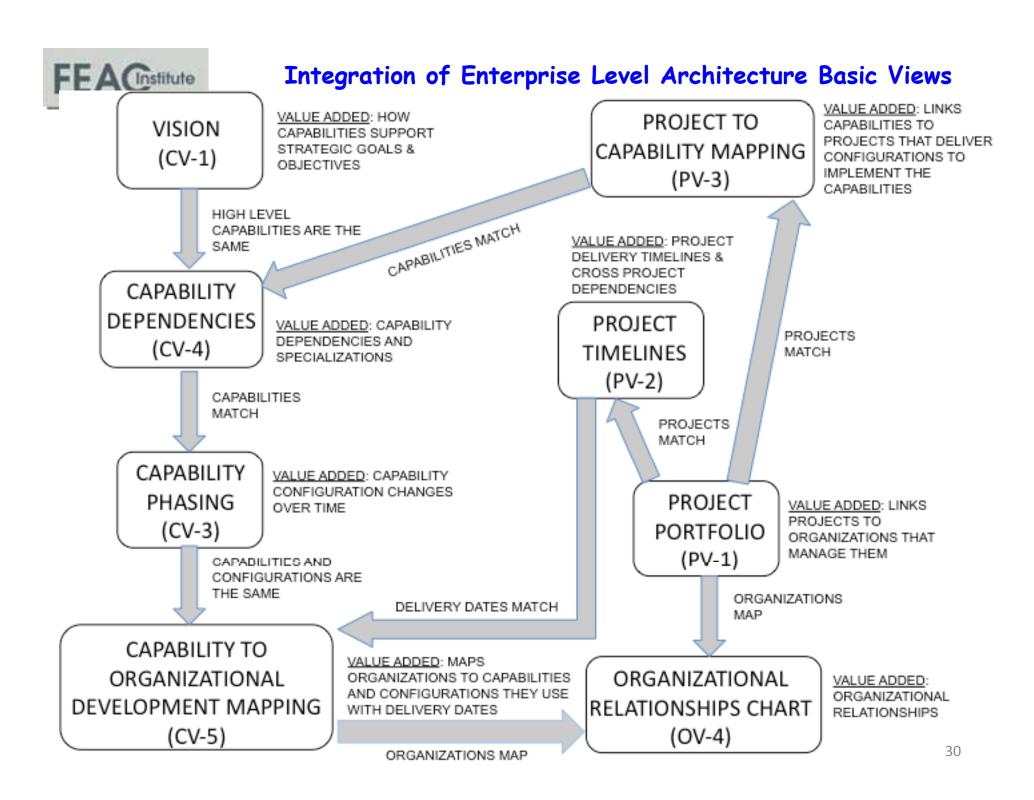


Recommendation: Basic Views for Enterprise-Level Architectures

- Vision (CV-1)
- Capability Phasing (CV-3)
- Capability
 Dependencies (CV-4)
- Capability to Organizational Development Mapping (CV-5)

- Project Portfolio Relationships (PV-1)
- Project Timelines (PV-2)
- Project to Capability Mapping (PV-3)
- Organizational Relationship Chart (OV-4)

Plus AV-1 and AV-2, as always





Example Questions Mapped to Views: Solution-Level Architecture Setting Context for a System, 505, or FOS



Example Solution-Architecture Questions

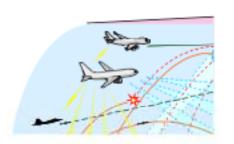
Question	Required Data Types	Views
What are the key elements of the Operational Concept for this architecture?	Abstractions of: Key mission process/activities Key performers Key resource exchanges	High-level Operational Concept Description (OV-1)
How are mission operations performed (now or in the future)?	Mission process/activities Resources exchanged/inputs & outputs Performers	Activity Model (OV-5) Operational Resource Flow Description (OV-2) Operational Resource Flow Matrix (OV-3)

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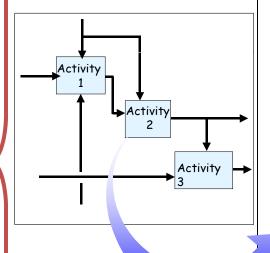
Basic Operational Views Capture the Critical Mission Relationships and Resource Exchanges

High-Level
Operational
Concept Description



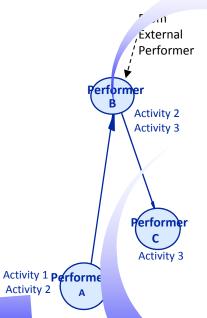
High-level graphical description of the operational concept of interest

Activity Model

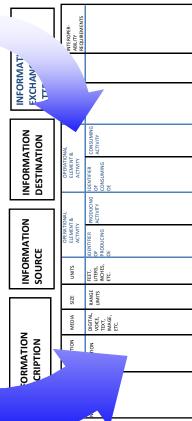


Operational activities performed and their input/output relationships

Operational Resource Flow Description



Operational Resource Flows Matrix



Performers,
Activities for each
performers and
resource needlines

hesources exchanged between performers and the relevant attributes of the exchanges

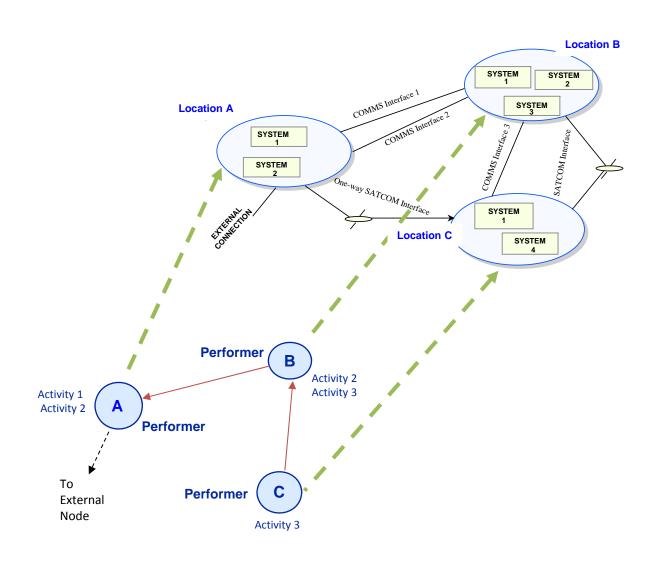


Example Basic Solution Architecture Questions (continued)

Question	Required Data Types	Views
What systems/services and what are their interfaces (internal and external)?	Systems/services System/service interfaces Standards	System Interface Description (SV-1) or Services Context Description (SvcV-1) Standards Profile (StdV-1)
How do the systems/services support operations?	Relationship of systems/services to performers Relationship of systems/services interfaces to needlines Relationship of systems/services to activities	OV-2 SV-1/SvcV-1 Operational Activity to Systems Function Traceability Matrix (SV-5) or Operational Activity to Services Traceability Matrix (SvcV-5)

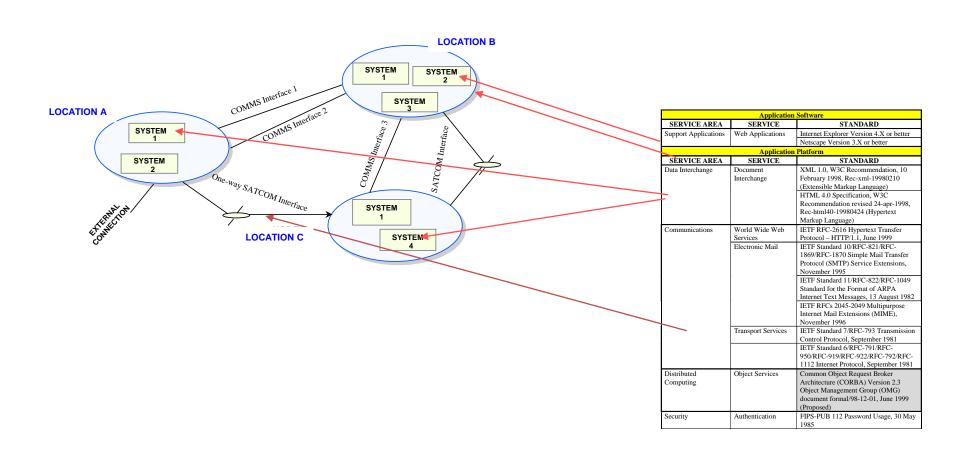


Relationships Between OV-2 and SV-1(SvcV-1) Put IT in Context with Mission Operations





Standards Profile Identifies Implementation Criteria That Govern the Given Architecture





Recommendation: Basic Views for Solution-Level Architecture

- High Level Operational Concept Description (OV-1)
- Operational Resource Flow Description (OV-2)
- Operational Resource Flow Matrix (OV-3)

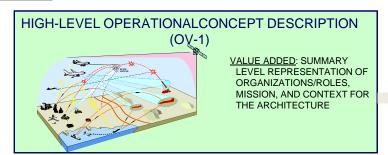
- Operational Activity Model (OV-5a, b)
- Systems Interface
 Description (SV-1) or
 Services Context
 Description (SvcV-1)
- Standards Profile (StdV-1)
- Capability to Operational Activity Mapping (CV-6)*

Plus AV-1 and AV-2, as always

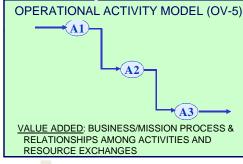
*New with DoDAF V2.0; assumes a Segment-Level or Enterprise-Level architecture related to the Solution-Level architecture.



These Basic Views Link to Each Other



OPERATIONAL
CONCEPT
ROLES & MISSIONS SET
SCOPE FOR ACTIVITY
MODEL



- ACTIVITIES MAP TO OV-2 PERFORMERS
- I/OS MAP TO NEEDLINES
- PERFORMERS OF ACTIVITIES, IF SHOWN ON 0V-5, MAP TO OV-2 PERFORMERS

OPERATIONAL CONCEPT CONNECTIVITY & RESOURCE EXCHANGES, IF SHOWN ON 0V-1, MAP TO 0V-2 NEEDLINES & RESOURCE EXCHANGES

INPUT/OUTPUT LABELS MAP TO OPERATIONAL RESOURCE EXCHANGES (NOT ALWAYS ONE-TO-ONE) RESOURCE EXCHANGES
ASSOCIATED WITH EACH
NEEDLINE ARE DETAILED IN
OV-3

OPERATIONAL RESSOURCE FLOW DESCRIPTION (OV-2)

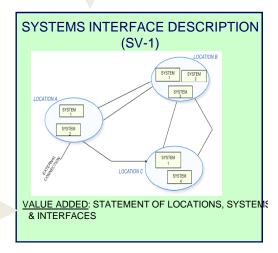


VALUE ADDED: STATEMENT OF
OPERATIONAL PERFORMERS,
ACTIVITIES, AND CRITICAL RESOURCE
EXCHANGE NEEDS

STANDARDS PROFILE (StdV-1)

| STANDARDS |

STANDARDS APPLY AT SYSTEM TO SYSTEM INTERFACES



OPERATIONAL RESOURCE FLOW MATRIX (OV-3)



VALUE ADDED: INDIVIDUAL
RESOURCE EXCHANGES
ASSOCIATED WITH EACH
NEEDLINE &
PERFORMANCE
REQUIREMENTS

PERFORMERS ARE
 ASSOCIATEAD WITH SYSTEMS AND
 LOCATIONS

• EACH OPERATIONAL NEEDLINE MAPS TO ONE OR MORE SYSTEM INTERFACES



Segment-Level Architecture

Capability Focus



Recommendation: Basic Views for Segment-Level Architecture

- Combination of Enterprise and Solution Level core views
- If the Segment is used to manage the investments and portfolio for the capabilities included in the segment, then the Enterprise Level core views apply
- If the Segment is used to coordinate a set of Solution Level architectures, then the Solution Level core views apply to set the business context and document:
 - Relationship of major systems to high-level business process
 - Interfaces among business processes and among systems necessary to ensure interoperability



Additional Example Questions Mapped to Views



Example Dynamic Behavior (Timing & Sequencing) Questions

Question	Required Data Types	Views
What scenarios explain the concept of operation or key performance or security issues?	Events Messages Performers/systems/services Relationship among the above	Event/Trace Descriptions: Operational (0V-6c) Systems (SV-10c) Services (SvcV-10c)
What are the states/statuses that key elements of the architecture have and how do they change?	States for a given element of the architecture Transitions Events Relationships among the above	State Transition Descriptions: Operational (OV-6b) Systems (SV-10b) Services (SvcV-10b)
What are the rules that constrain operations, systems and/or services?	Rules Relationships of rules to other elements of the architecture	Rules Models: Operational (OV-6a) Systems (SV-10a) Services (SvcV-10a)



Example Domain Data Questions

Question	Required Data Types	Views	
What are the shared mission/business concepts and their relationships?	Entities Attributes Relationships among the above	Conceptual Data Model (DIV-1)	
What is the logical structure of the key structured shared data in the architecture?	Entities Attributes Relationships among the above	Logical Data Model (DIV-2)	
What is the physical structure of the key structured shared data in the architecture?	Entities, Attributes, and Relationship among the above or File Structures or Message Structures or ?	Physical Data Model (DIV-3)	



Example Transition Planning Questions

Question	Required Data Types	Views
When will new systems/services be available	Systems/Services வி ட் சிeframes Relationship among the above	Systems Evolution Description (SV-8)/ Services Evolution Description (SvcV-8)
What IT performance improvements should be expected at key transition milestones?	Systems/Services Performance measures Relationships among the above	Systems Measures Matrix (SV-7)/ Services Measures Matrix SvcV-7)
What are the trends in systems/services and standards and associated personnel skills that may impact IT during the transition period?	Systems/Services Areas, Categories, and Standards Timeframes Forecasts	Systems Technology and Skills Forecast (SV-9)/ Services Technology and Skills Forecast (SvcV-9) Standards Forecast (StdV-2)

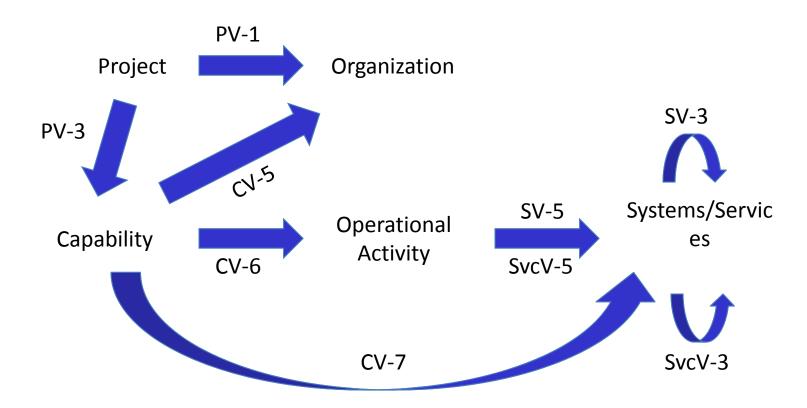


Example Matrix/Mapping Questions

Question	Required Data Types	Views
Which systems/services interface with which other systems/services?	Systems/services Systems/services interfaces	Systems ² Matrix (SV-3) Systems-Services Matrix (SvcV-3a) Services ² Matrix (SvcV-3b)
How do services relate to capabilities?	Services Capabilities Relationships among the above	Capability to Services Mapping (CV-7)
What are the key attributes (such as throughput) of the system/services resources flows?	System/Service Interfaces System/Services Resource Flows Attributes of Resource Flows	Systems Resource Flow Matrix (SV-6)/ Services Resource Flow Matrix (SvcV-6)



Mapping Summary





Other Example Questions

Question	Required Data Types	Views
What organizations are included in the architecture and how do they relate to the performers or other elements of the architecture?	Organizations Reporting/management relationships Relationships of organizations to other elements of the architecture	Organizational Relationships Chart (OV-4)
What are the key communications IT that support the systems/services interfaces?	Systems/services Communications systems, technologies & protocols Relationships among the above	Systems Resource Flow Description (SV- 2)/ Services Resource Flow Description (SvcV-2)
What are the systems functions/services and the data flow among them?	Systems functions/services Data flows among the systems functions/producer-consumer flows among the services	System Functionality Description (SV-4)/ Services Functionality Description (SvcV-4)



Planning Example: Solution Level Architecture

(Example from FEAC Certified Enterprise Architect CEA Study Guide, McGraw Hill, 2011 by Rao, Reedy, & Bellman)



Context for Example

- Case Study: Hypothetical Richard M. Nixon (RMN) civil aviation air field that wants to grow over the next 15 years into a viable option to LAX
 - Extract of Case Study from book



Purpose

- Define upgraded passenger identification business processes for RMN Airport
- Provide guidance for the acquisition of the set of applications and common database to support these upgraded business processes



Stakeholders and Issues (1)

Port Authority, RMN Management, and DHS

- Will the new business processes and applications meet government regulations and requirements?
 That is, what types of passenger identification data are required?
- Who needs what data and who should provide the data?
- How do the new processes improve confidence in passenger identification? (Measures include speed, availability, and consistency of data)



Stakeholders and Issues (2)

RMN Management and DHS

- How many personnel will be needed for the new business processes?
- Will the personnel need additional skills?
- When will any additional personnel be needed?
- Will new facilities be required? If so, when will they become available for use?



Stakeholders and Issues (3)

RMN Management

- When will the upgraded processes and their supporting applications be ready for use?
- What performance, in terms of passengers per hour, should be expected from the new processes?



Stakeholders and Issues (4)

RMN Management and RMN Employees

- What are the upgraded business processes?
- How do the new applications support the business processes?
- How do the new applications, services, and databases integrate with other RNM IT?
- What infrastructure will be required?
- What standards will the new applications, systems/services, and databases use?



Stakeholders and Issues (5)

DHS, Passenger Airlines, and FAA

- What are the upgraded business processes?
- How do we use the new business processes and applications to get the data we need?



Scope

- Solution Level architecture for the Passenger
 Management Segment of the RMN Airport enterprise
- Mission/function/organizational bounds: Passenger identification business services for RMN
- Geographic bounds: RMN Airport grounds and associated business offices
- Timeframe: To-Be (Present + 10 Years timeframe that includes international travel
- Technology Constraints: Overall compatibility with RMN enterprise IT standards and Federal (DHS/FAA) data standards; using COTS components and infrastructure
- Expected Analysis: Business Case Analysis; Acquisition Requirements Analysis



Partial Mapping of Questions to Required Data Types and Views (1)

Question	Stakeholders	Required Data	Views
		Types	
What types of	Port	Data model	Logical Data Model
passenger	Authority,		(DIV-2) modeling
identification data	RMN Mgmt,		information
are required?	DHS		exchanges/activity
			I/Os
		Information	Operational
		Exchanges	Resource Exchange
			Matrix (OV-3) with
			basic columns
		I/Os from activities	Activity Model
			(OV-5)
		Government	Standards Profile
		regulations and	(StdV-1) tailored to
		standards	include regulations



Partial Mapping of Questions to Required Data Types and Views (2)

Question	Stakeholders	Required Data	Views
		Types	
Who needs what data and who should provide the data?	Port Authority, RMN Mgmt, DHS	Performers Relationships of performers to activities Information Exchanges	Operational Resource Flow Description (OV-2) Operational Resource Flow Matrix (OV-3) Activity Model
			(OV-5)
How do the new processes improve confidence in passenger identification? (Measures include speed, availability, and consistency of data)	Port Authority; RMN Mgmt; DHS	Business processes	Activity Model (OV-5) tailored to include performance measures and goals Operational Resource Flow Matrix (OV-3) with additional columns



Partial Mapping of Questions to Required Data Types and Views (3)

Question	Stakeholders	Required Data	Views
		Types	
When will the	RMN Mgmt	Timeline for	Systems/Services
upgraded processes		application and	Evolution
and their supporting		process availability	Description (SV-
applications be			8/SvcV-8) tailored to
ready for use?			include process
			definition & training
			completion dates
What performance,	RMN Mgmt	Business processes	Activity Model
in terms of			(OV-5) tailored to
passengers per			include performance
hour, should be			measures and goals
expected from the		Information	Operational
new processes?		Exchanges	Resource Flow
			Matrix (0V-3) with
			Periodicity column
			(average and worst
			case numbers)

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Partial Mapping of Questions to Required Data Types and Views (4)

Question	Stakeholders	Required Data	Views
		Types	
Цом топу	DMNI Mamt:	Performers	Operational
How many	RMN Mgmt;	Perioritiers	Operational
personnel will be	DHS		Resource Flow
needed for the new			Description (OV-2)
business		Organizations	Organizational
		Organizations &	Organizational
processes?		Number of	Relationships Chart
		personnel who are	(OV-4) tailored to
		performers per	include number of
		organization	personnel per
			performer group



Summary of Selected Views From Partial Mapping

- OV-2: performers are roles
- OV-3: with Needline ID, Information Exchange ID, Description, Media,
 Triggering Event, Producing Performer and Activity, Receiving Performer and
 Activity columns, Periodicity (average & worst case), plus other columns
- OV-4: with map to performers and including number of personnel per performer/role
- OV-5: including performance measures/goals for top level processes
- DIV-2: Modeling information exchanges and activity inputs/outputs
- SV-8: including process definition and training completion dates
- StdV-1: including regulations; use FAA TRM



Summary: Traceability to Purpose Ensures Useful Architectures

