

# 103 Enterprise Architecture Modeling Using DoDAF v2.0 and Metastorm ProVision v6.2



## Course Syllabus

<b>Important Facts:</b>	5 days 60% Lecture/Demonstration 40% Hands-on Exercises
<b>Target Audience:</b>	Enterprise Architects, System/Application Architects, Data Architects, Technology Architects, Solution Architects, Business Analysts, and Systems Analysts as well as Managers and other IT Professionals responsible for aligning IT infrastructure with the business needs.
<b>Class Objectives:</b>	<p>After completing this five-day class, students will be able to develop models and matrices representing the most frequently used Department of Defense Architecture Framework (DoDAF) v2.0 work products using the Federal version of Metastorm ProVision.</p> <p>Students will perform extensive hands-on exercises and be able to</p> <ul style="list-style-type: none"><li>• Create, maintain and publish selected DoDAF v2.0 models to analyze processes, data, systems and their interrelationships using integrated case study exercises</li><li>• Apply a practical methodology for enterprise architecture modeling using DoDAF v2.0</li><li>• Apply best practices for capturing, communicating and verifying current (As-is) and redesigned (To-be) models</li><li>• Apply their familiarity with the course case study and exercises, which contain integrated examples of all DoDAF v2.0 viewpoint models, to their own situation</li></ul> <p>Students will be able to use Metastorm ProVision basic features to</p> <ul style="list-style-type: none"><li>• Leverage Metastorm ProVision's architectural design, user interface and basic features</li><li>• Understand how Metastorm ProVision manages data in repositories, notebooks and files</li><li>• Create, view and maintain models</li><li>• Perform editing and style enhancement operations</li><li>• Use interfaces to import and export data</li><li>• Publish models in various formats to share project results with others</li><li>• Share models with other team members</li></ul> <p>Students will be able to utilize Metastorm ProVision's support for DoDAF v2.0 to</p> <ul style="list-style-type: none"><li>• Map Metastorm ProVision models, objects and associations to DoDAF v2.0 work products</li><li>• Utilize Metastorm ProVision's customization feature to support DoDAF v2.0 and client extensions</li></ul>

- Recognize and explain the purpose, contents and usage of the most frequently used DoDAF work products
- Identify the components of each DoDAF v2.0 model and their inter-relationships in the Metastorm ProVision repository
- Understand the techniques used to develop all DoDAF v2.0 models within all viewpoints: AVs, CVs, DIVs, OV, PVs, SvcVs, StdVs, and SVs

**Prerequisites:**

This is an introductory level course for Metastorm ProVision. However, students in this class must have some familiarity with the Department of Defense Architecture Framework (DoDAF) v2.0. Familiarity with enterprise architecture, process and data modeling, business analysis and computer fundamentals is recommended.

**Topic Outline:**

**Day 1**

- Introduction
  - Course Objectives, Content & Timing
  - Setting Student Objectives
- Enterprise Architecture Overview
- Metastorm ProVision DoDAF v2.0 Support
- Metastorm ProVision Basics
  - Exercise 01: Metastorm ProVision Basics
- Organizational Relationship Modeler [OV-4 ] (Organization Modeler)
  - Exercise 02: Organizational Relationship Modeler [OV-4 ]
- Model Editing and Associations
  - Exercise 03: Model Editing and Associations
- Business Interaction Modeler [OV-2]
  - Exercise 04: Business Interaction Modeler [OV-2]
- AV-1 Modelers
  - Demo: Commodity Management AV-1 Models

**Day 2**

- Appearance & Adornments
  - Exercise 05: Appearance & Adornments
- Process Identification
- Operational Resource Flow Modeler [OV-1/OV-2] (Communication Modeler)
  - Exercise 06: Operational Resource Flow Modeler [OV-1/OV-2]
  - Demo: Operational Resource Flow Modeler [OV-1/OV-2]
- Activity/Function Hierarchy Modeler [OV-5a/SvcV-4/SV-4] (Process Modeler)
  - Demo: Activity/Function Hierarchy Modeler [OV-5a/SvcV-4/SV-4]
- Activity/Function Modeler [OV-5b/SvcV-4/SV-4] —Basics (Workflow Modeler)
  - Exercise 07: Activity/Function Modeler [OV-5b/SvcV-4/SV-4] - Basics
- Activity/Function Modeler [OV-5b/SvcV-4/SV-4] - Intermediate
  - Exercise08: Activity/Function Modeler [OV-5b/SvcV-4/SV-4] - Basics
- Demo: Activity/Function Modeler [OV-5b/SvcV-4/SV-4]

### Day 3

- Inventory Views
- Model Checking, Publishing & Reporting
  - Exercise 09: Checking, Publishing & Reporting
- Translator
  - Exercise 10: Translator
- System Interface Modeler [ScvV-1/SvcV-1/SvcV-2/SV-1/SV-2]
  - Exercise 11: System Interface Modeler [ScvV-1/SvcV-1/SvcV-2/SV-1/SV-2]
- Navigator, Navigation Report, & Navigation Grid
  - Exercise 12: Navigation Report, & Navigation Grid
- Customization
  - Exercise 13: Customization

### Day 4

- Business Classes
- Associations
- Data Modeler [DIV-1/DIV-2/DIV-3] - Business Classes & Associations (Business Class Modeler)
  - Exercise 14: Data Modeler [DIV-1/DIV-2/DIV-3]
- Subtypes
- Data Modeler [DIV-1/DIV-2/DIV-3] - Subtypes
  - Exercise 15: Data Modeler [DIV-1/DIV-2/DIV-3] —Subtypes
  - Demo: Data Modeler [DIV-1/DIV-2/DIV-3]
- States
- State Transition Modeler [OV-6b/SvcV-10b/SV-10b] (Statechart Modeler)
  - Exercise 16: State Transition Modeler [OV-6b/SvcV-10b/SV-10b]
- Attributes
- Data Modeler [DIV-1/DIV-2/DIV-3] - Attributes
  - Exercise 17: Data Modeler [DIV-1/DIV-2/DIV-3] - Attributes
- Operations
- State Transition Modeler [OV-6b/SvcV-10b/SV-10b] - Operations
  - Demo: State Transition Modeler [OV-6b/SvcV-10b/SV-10b] - Operations
- Event-Trace Modeler [OV-6c/SvcV-10c/SV-10c] (Sequence Modeler)
  - Demo: Event-Trace Modeler [OV-6c/SvcV-10c/SV-10c]
- Mapping Activities to Business Classes
- Association Grid: Activity – Business Class (CRUD)
  - Demo: Association Grid (CRUD)
- Working Together in Shared Repositories/Notebooks
  - Merge
  - Knowledge Exchange/Teamwork
  - Check-out/Check-in
  - Knowledge Exchange Viewer/Editor
  - Introduction to Knowledge Exchange Repository Management
- Practice Workshop

## Day 5

- Demo / Exploration —Remaining DoDAF Viewpoints & Models
- Capability View (CV) Framework Models
  - CV-1 Vision
  - CV-2 Capability Taxonomy
  - CV-3 Capability Phasing
  - CV-4 Capability Dependencies
  - CV-5 Capability to Organizational Development Mapping
  - CV-6 Capability to Operational Activities Mapping
  - CV-7 Capability to Services Mapping
- Data and Information View (DIV) Framework Models
  - DIV-1 Conceptual Data Model
  - DIV-2 Logical Data Model
  - DIV-3 Physical Data Model
- Operational View (OV) Framework Models
  - OV-3 Operational Information Exchange Matrix
  - OV-6a Operational Rules Model
  - OV-6b State Transition Description
  - OV-6c Event-Trace Description
- Project View (PV) Framework Models
  - PV-1 Project Portfolio Relationships
  - PV-2 Project Timelines
  - PV-3 Project to Capability Mapping
- Services View (SvcV) Framework Models
  - SvcV-1 Services Context Description
  - SvcV-2 Services Resource Flow Description
  - SvcV-3a Systems-Services Matrix
  - SvcV-3b Services-Services Matrix
  - SvcV-4 Services Functionality Description
  - SvcV-5 Operational Activity to Services Traceability Matrix
  - SvcV-6 Services Resource Flow Matrix
  - SvcV-7 Services Measures Matrix
  - SvcV-8 Services Evolution Description
  - SvcV-9 Services Technology & Skills Forecast
  - SvcV-10a Services Rules Model
  - SvcV-10b Services State Transition Description
  - SvcV-10c Services Event-Trace Description
- Standards View (StdV) Framework Models
  - StdV-1 Standards Profile
  - StdV-2 Standards Forecast
- Systems View (SV) Framework Models
  - SV-3 Systems-Systems Matrix
  - SV-4 System Functionality Description
  - SV-5a Operational Activity to Systems Function Traceability Matrix
  - SV-5b Operational Activity to Systems Traceability Matrix
  - SV-6 Systems Resource Flow Matrix
  - SV-7 Systems Measures Matrix
  - SV-8 Systems Evolution Description
  - SV-9 Systems Technology & Skills Forecast
  - SV-10a Systems Rules Model
  - SV-10b Systems State Transition Description
  - SV-10c Systems Event-Trace Description
- AV-2 Navigator (Integrated Dictionary)

### **Day 5 (continued)**

- ABM (Activity Based Methodology) Function  
Generate OV-3 Operational Resource Flows & OV-2 Models or  
Generate SV-6 System Resource Flows & SV-1 Models  
from selected Activity/Function Models (Workflow Models)
  - Demo: ABM (Activity Based Methodology) Function
- CADM Interface  
Core Architecture Data Model Export / Import to interface with a DARS  
repository (DoD Architecture Registry System)
  - Demo: CADM Export Function
- Course Summary, Additional Support & Wrap-up

### **Supplemental Materials**

- Dimensions
  - Exercise 18: Dimensions (also includes Comparison Wizard)
- Service Oriented Architecture (SOA)
  - Exercise 19: Service Oriented Architecture (SOA)
- Publication Templates
  - Exercise 20: Publication Templates
- Working Together
  - Exercise 21: Working Together
- Suggested Reading
- DoDAF Product —Metastorm ProVision Modeler Reference Charts

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