

ArchiMate 3.2 Enterprise Architecture Modelling

Concepts, viewpoints and a practical cross-layer model

FA-0641 · 2 days

Mainframe & Enterprise Systems

Create and review a small enterprise architecture model using ArchiMate 3.2 concepts, stakeholder viewpoints and a compatible modelling tool.

Introduction

This two-day course introduces practical enterprise architecture modelling using the source's ArchiMate 3.2 basis. Participants model relationships across business processes, applications and technology infrastructure and communicate selected stakeholder concerns.

Exercises use a fictional enterprise scenario and a compatible Archi installation; other tools are compared rather than required. ArchiMate 4 is a newer published specification, so this course is explicitly 3.2-based and does not claim 4.0 coverage, accreditation or certification. It develops modelling practice rather than guaranteeing architectural or business outcomes.

Learning outcomes

The course teaches participants to:

- Explain the purpose and scope of ArchiMate 3.2 and its relationship to enterprise architecture practices such as TOGAF.
- Distinguish core layers/aspects and related motivation, strategy, physical and implementation/migration concepts.
- Use appropriate elements and relationships in a small model.
- Choose a viewpoint for a stakeholder's concern.
- Create linked business, application and technology views in a compatible tool.

- Inspect model-exchange interoperability and its version/tool limitations.
- Review consistency, scope and maintainability and explain a simple migration view.

Prerequisites

- Basic knowledge of enterprise architecture concepts (e.g., layers, domains).
- Familiarity with business process mapping or system modeling (UML or BPMN is a plus).
- Comfortable working with diagramming tools (experience with Archi or Enterprise Architect beneficial but not mandatory).

A prepared tool/environment compatible with ArchiMate 3.2; any required specification materials must be available under appropriate use terms.

Training outline

1. Day 1 – Language Foundations and Viewpoints

Enterprise Architecture Context

- Architecture-description context and evolution of the language to the 3.2 basis used here; distinguish newer specification releases.
- A common modelling vocabulary and relationship to TOGAF practices; a language is not a complete architecture method.
- Use an Archi release documented to support 3.2; compare Sparx Enterprise Architect or other tools at overview level and check exchange compatibility.

Layers and Aspects

- Overview of Business, Application, Technology
- Related motivation, strategy, physical and implementation/migration concepts; do not describe all framework areas as equivalent core layers.
- Core active-structure, behaviour and passive-structure aspects, with motivation concepts considered separately.

Elements and Relationships

- Behavioral, structural, motivational, composite elements
- Key relationship types (structural, dynamic, dependency)
- Notation, visual conventions and viewpoint choices; colour alone does not define semantics.

Stakeholder Viewpoints

- Purpose and value of viewpoints; specificity per stakeholder
- Common viewpoints: Business Process Cooperation, Application Structure, Technology Usage, Stakeholder, Strategy, Implementation & Migration
- How to tailor the right viewpoint based on audience and concern

2. Day 2 – Practical Modelling and Review

Tool Setup and Workflow

- Inspect the prepared Archi installation and its 3.2 support; distinguish tool version from language version.
- Import/export a small model using a compatible exchange format and inspect what is preserved.
- Palette use, magic connectors, quick linking

Incremental Modelling Exercises

- Business Layer: Model actors, processes, services, objects
- Application Layer: Illustrate application components, services, data flows
- Technology Layer: Map nodes, devices, system software, infrastructure
- Motivation and strategy example: drivers, goals, outcomes and capabilities linked to an illustrative initiative.
- Implementation and migration: plateaus, gaps, work packages and a simple roadmap.
- Overview of layered, product and physical views; select only relevant views for the small exercise.

Integration Scenario

- Build one fictional cross-layer enterprise model from business needs to application systems and technology infrastructure.
- Highlight capabilities, services, and migration roadmap

Modelling Review

- Aligning EA diagrams with stakeholder concerns; scoping per viewpoint
- Balancing model detail vs. simplicity
- Common element/relationship misuse and consistent representation of responsibilities.
- Ensuring model reuse, consistency, and maintainability

