

Part IV: Architecture Content Framework

Part I - Introduction

Preface, Executive Overview, Core Concepts, Definitions and Release Notes

Part II - Architecture Development Method

Introduction to ADM

ADM Phase Narratives

Part III - ADM Guidelines and Techniques

Guidelines for Adapting the ADM Process

Techniques for Architecture Development

Part IV - Architecture Content Framework

Content Metamodel

Architectural Artifacts

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Part V - Enterprise Continuum and Tools

Enterprise Continuum

Architecture Partitioning

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Tools for Architecture Development

Part VI - Reference Models

Foundation Architecture: Technical Reference Model

Integrated Information Infrastructure Reference Model

Part VII - Architecture Capability Framework

Architecture Board

Architecture Compliance

Architecture Contracts

Architecture Governance

Architecture Maturity Models

Architecture Skills Framework

- New for TOGAF 9
- This part describes
 - a structured metamodel for architectural artifacts,
 - use of architecture building blocks
 - an overview of typical architecture deliverables



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Module Objectives

The objectives are to:

- Explain the purpose of the Architecture Content Framework
- Describe the main components of the Content Metamodel
- Describe the relationship between the Architecture Content Framework and the TOGAF ADM

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Introduction

- The Framework is a significant addition to TOGAF
- It provides a detailed model of architectural work products
- It helps to improve the consistency of the TOGAF outputs
 - Presents outputs in a consistent and structured way
 - Helps to reference and classify them.

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Benefits of the Architecture Content Framework

- It provides a comprehensive checklist of architecture outputs
- It promotes better integration of work products if adopted across an enterprise
- It provides a detailed open standard for how architectures should be described

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Overview

- The Framework has 3 categories for describing work products:
 - **Deliverables**
 - **Artifacts**
 - **Building blocks**

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Deliverables, Artifacts and Building Blocks

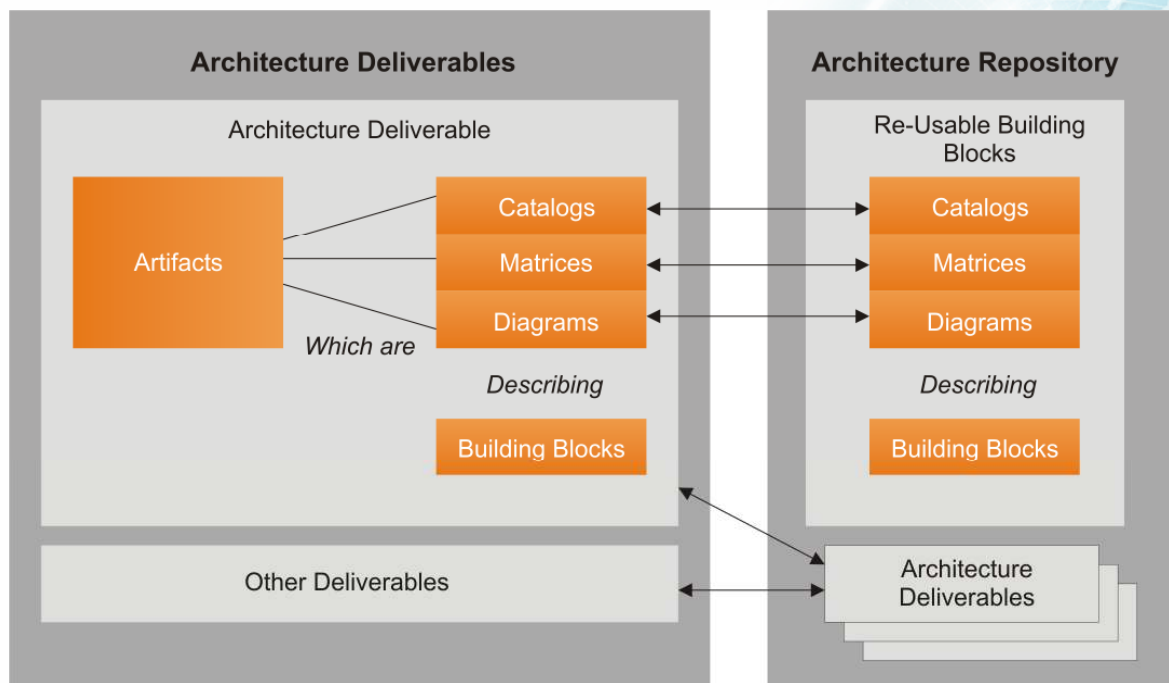
- **Deliverables**
 - Formal products
 - Contractually specified
 - Outputs from a project
 - A deliverable can contain many artifacts
- **Building blocks**
 - components that can be combined with other building blocks to deliver architectures and solutions
- **Artifacts**
 - fine grained products that describe an architecture from a specific viewpoint
 - For example: use-case specifications, architectural requirements, network diagrams, etc.
 - Classified as:
 - Catalogs (lists of things),
 - matrices (showing relationships between things) or
 - diagrams (pictures of things).
 - Artifacts make up the content of the Architecture Repository

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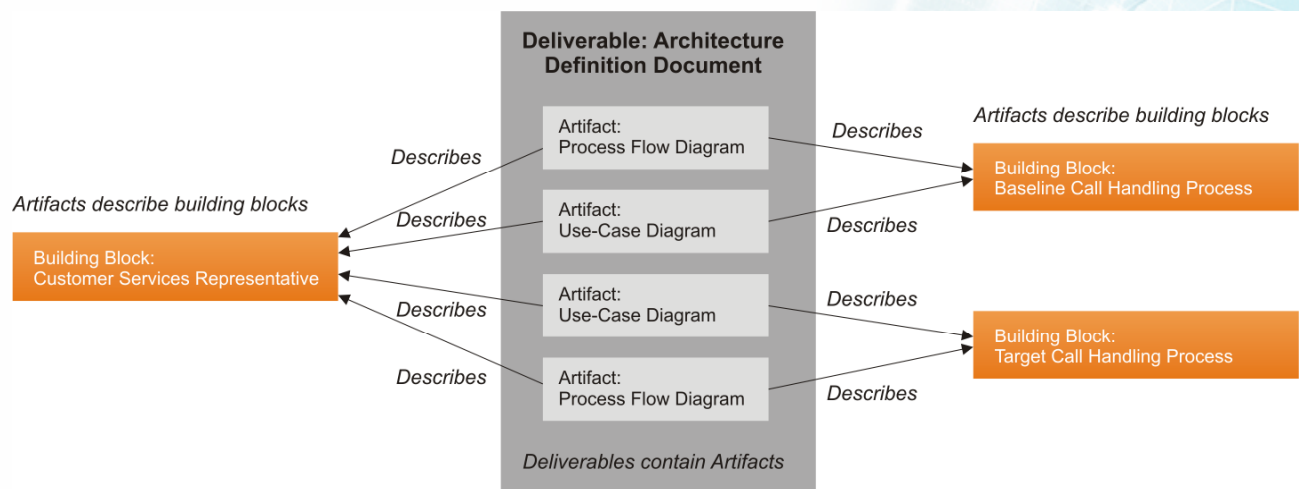
Relationship between Deliverables, Artifacts and Building blocks



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Example – Architecture Definition Document



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Architectural Artifacts

- Artifacts are products that are created when developing an architecture.
- An artifact is distinct from a deliverable, which is a contracted output from a project.
- Usually deliverables contain many artifacts and each artifact may exist in many deliverables.

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Content Metamodel

The framework is based on a standard content metamodel that defines all the types of building blocks in an architecture.

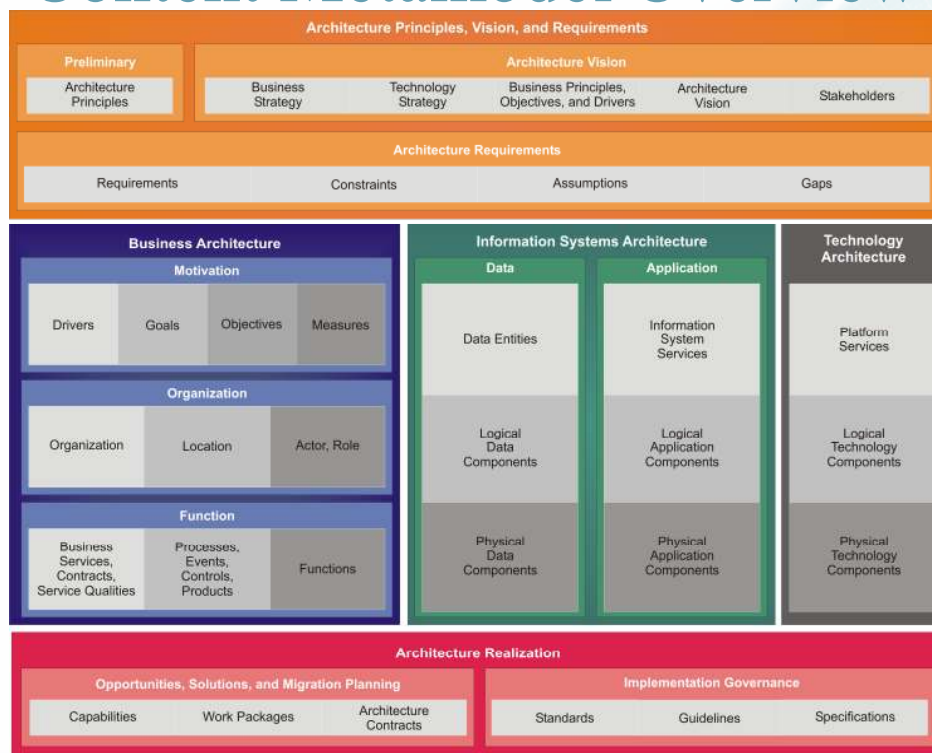
- Showing how these building blocks can be described
- How they relate to one another
- The content model consists of a core and extensions.
- Catalogs, matrices and diagrams are used to present the architectural information

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Content Metamodel Overview



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The map between the Framework and the ADM

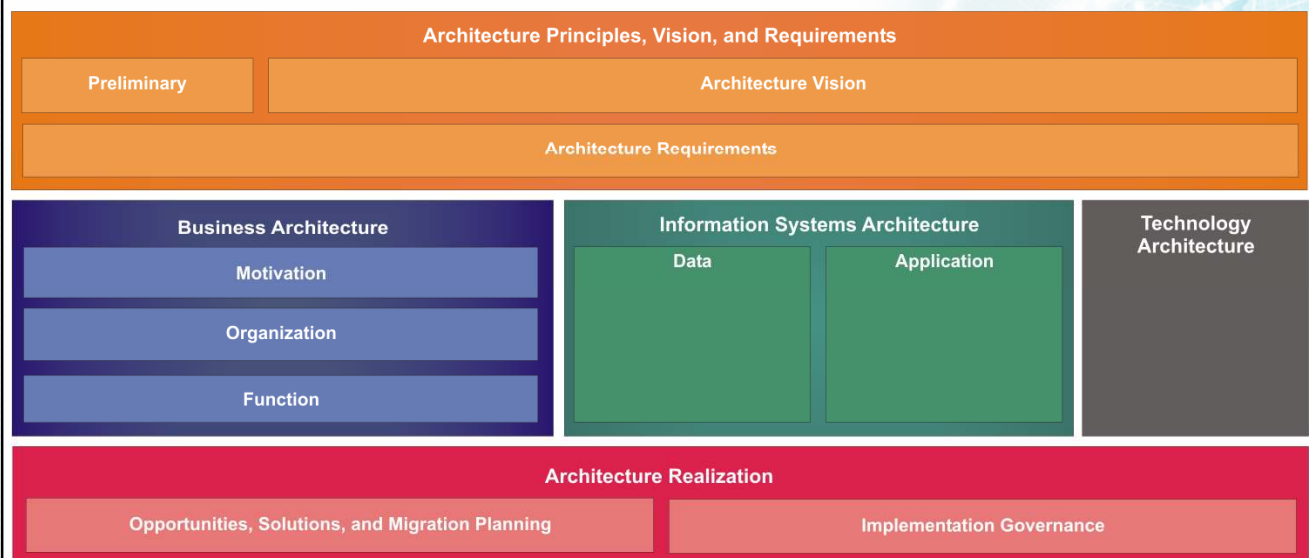
There is a mapping from the Architecture content framework to the TOGAF ADM phases:

- **Architecture Principles, Vision, and Requirements** artifacts should capture the context of the architecture models, including general architecture principles, strategic context and requirements.
- **Business Architecture** artifacts capture architectural models of business operations, specifically factors that motivate the enterprise, how the enterprise is structured and its functional capabilities.
- **IS Architecture** artifacts capture architecture models of IT systems, specifically applications and data.
- **Technology Architecture** artifacts capture procured technology assets used to implement and realize IS solutions.
- **Architecture Realization** artifacts capture the transitions between architecture states and are used to steer and govern the implementation.

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The map between the Framework and the ADM



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Content Framework and the TOGAF ADM

- The ADM addresses a business need through a process of vision, definition, planning and governance. At each stage the ADM takes information as inputs and creates outputs.
- The content framework provides a structure for the ADM that defines inputs and outputs in detail and puts each deliverable into the context of the architecture.
- So the content framework is a companion to the ADM.
- The ADM describes what needs to be done to create an architecture and the content framework describes what it should look like in the end.

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Summary

- The Architecture Content Framework presents outputs in a consistent and structured way. It has 3 categories of work products: deliverables, artifacts and building blocks.
- The content metamodel consists of a core and some extensions.
- Catalogs, matrices and diagrams are used to present the architectural information.
- There is a mapping from the Architecture content framework to the TOGAF ADM phases

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Exercise

- What other content frameworks do you know of?
- What are the advantages and disadvantages of opting to use an external framework in conjunction with the ADM instead of The Architecture Content Framework of TOGAF 9 ?

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