

The Open Group® Certification for People

**ArchiMate® 3
Conformance Requirements
(Multi-Level)**

Version 1.1
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**The Open Group[®] Certification for People:
ArchiMate[®] 3 Conformance Requirements (Multi-Level)**

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1. Introduction

This document – The Open Group® Certification for People: ArchiMate® 3 Conformance Requirements – is an integral part of The Open Group Certification for People: ArchiMate 3 Certification Program (the Program). Defined terms herein are in addition to definitions provided in the ArchiMate 3 Program Configuration document.

This document defines the requirements for certification of individuals within the Program, which in turn form the learning requirements for Accredited Training Courses.

1.1 Terminology and Definitions

This table defines terms or clarifies the meaning of words used within this document. Where an acronym is also used, it is provided in parentheses.

Accredited Training Course (ATC)	A training course, operated by a training course provider, that has successfully completed the accreditation process and which is listed in the register of Accredited Training Courses on the Certification Authority’s website.
Body of Knowledge (BoK)	The set of information within the subject area that a Candidate is expected to have understanding of in order to achieve certification within the Program.
Candidate	A person seeking certification.
Certification Authority	The organization that manages the day-to-day operations of the Program. The Open Group is the Certification Authority for the Program.
Examination Provider	The organization(s) contracted by The Open Group to provide and administer the certification examinations at test centers throughout the world.
Key Learning Point (KLP)	A self-contained learning objective, derived from the Body of Knowledge with a unique reference, typically ranging from 2 to 15 minutes study time.
Learning Outcome	What the Candidate should know, understand, or be able to do on completion of learning about one or more Key Learning Points. Each Learning Outcome should have at least one Key Learning Point reference and define the depth of knowledge required for each Key Learning Point.
Learning Unit	A related set of Learning Outcomes. It is expected that a Learning Unit would equate to between 30 and 90 minutes of taught learning equivalence.

2. Conformance Terminology

The Conformance Requirements by certification level are specified as sets of Learning Units. To achieve certification for a given level, Candidates are required to complete the applicable Learning Units and successfully pass the corresponding Indicator of Compliance (see Section 5).

The definition of the Learning Units does not dictate the structure, order, or time duration that topics should be taught in an Accredited Training Course. Training organizations are free to structure their courses as they see fit, as long as Candidates have the mandatory Learning Outcomes at the end of a course for the target certification level.

2.1 Learning Unit Format

Each Learning Unit is defined in a table organized as follows:

UNIT Number	Unit Name – A descriptive name for the Learning Unit
Purpose	A succinct statement of the purpose of the Learning Unit, including a high-level Learning Outcome.
KLP Reference	A reference back to the Key Learning Point reference in the mapping to the Body of Knowledge, as detailed in Section 6. This is required for traceability.
Learning Outcome	Candidate Learning Outcome Statement A statement of what the Candidate is expected to have learned by completing the Learning Unit. A specific term is used to define the depth of learning, from low to high as follows: <ul style="list-style-type: none">• Identify – name one or more items• List – name multiple items• Understand – an understanding of the concept or item• Define – provide a definition of a term• Demonstrate – describe and explain a concept or term• Describe/State – provide a description of or statement for a concept or item; give a factual statement• Explain – provide a description with a rationale• Discuss – the ability to write logically about a topic• Justify – demonstrate the correctness of an assertion through a written discussion

3. Level 1 Conformance Requirements

To achieve certification to Level 1, Candidates must complete all Learning Units defined in this section and successfully pass the corresponding Indicator of Compliance for Level 1 certification (see Section 5).

3.1 Basic Concepts and Definitions

UNIT 1	Basic Concepts and Definitions
Purpose	The purpose of this Learning Unit is to help the Candidate understand the basic concepts and key terminology of Enterprise Architecture and the ArchiMate language.
KLP Reference	1.1, 1.2, 2.*
Learning Outcome	<p>The Candidate must be able to:</p> <ol style="list-style-type: none"> 1. Briefly explain the ArchiMate language for Enterprise Architecture modeling (KLP 1.1-1) 2. Explain how the ArchiMate language supports the development of Enterprise Architectures (KLP 1.2-1) 3. List the different layers of Enterprise Architectures that can be modeled with the ArchiMate language (KLP 1.2-2) 4. Understand and explain the following definitions: <ul style="list-style-type: none"> • ArchiMate Core Framework (KLP 2.1-1) • ArchiMate Core Language (KLP 2.2-1) • Architecture View • Architecture Viewpoint • Aspect (KLP 2.3-1) • Attribute (KLP 2.4-1) • Concept (KLP 2.5-1) • Conformance (KLP 2.6-1) • Conforming Implementation (KLP 2.7-1) • Core Element (KLP 2.8-1) • Composite Element (KLP 2.9-1) • Element (KLP 2.10-1) • Layer (KLP 2.11-1) • Model (KLP 2.12-1) • Relationship (KLP 2.13-1)

3.2 Language Structure

UNIT 2	Language Structure
Purpose	The purpose of this Learning Unit is to help the Candidate understand the language structure.

UNIT 2	Language Structure
KLP Reference	3.*
Learning Outcome	<p>The Candidate must be able to:</p> <ol style="list-style-type: none"> 1. Briefly explain the top-level language structure (KLP 3.2-1, 3.2-2, 3.2-3) 2. List the three layers of the ArchiMate language (KLP 3.3-1, 3.3-2, 3.3-3, 3.3-4) 3. Understand the ArchiMate Core Framework (KLP 3.4-1, 3.4-2, 3.4-3, 3.4-4) 4. Understand the ArchiMate Full Framework (KLP 3.5-1, 3.5-2) 5. Briefly explain abstraction in the ArchiMate language (KLP 3.6-1, 3.6-2, 3.6-3) 6. Briefly explain concepts and their separation from notation (KLP 3.7-1) 7. Briefly explain the use of nesting (KLP 3.8-1) 8. Briefly explain the use of colors and notational cues (KLP 3.9-1, 3.9-2, 3.9-3)

3.3 Generic Metamodel

UNIT 3	Generic Metamodel
Purpose	The purpose of this Learning Unit is to help the Candidate understand the generic metamodel.
KLP Reference	4.*
Learning Outcome	<p>The Candidate must be able to:</p> <ol style="list-style-type: none"> 1. Understand the hierarchy of Behavior and Structure elements of the ArchiMate language (KLP 4.1-1), including understanding: <ul style="list-style-type: none"> • Active Structure elements (KLP 4.1.1-1) • Behavior elements (KLP 4.1.2-1) • Passive Structure elements (KLP 4.1.3-1) 2. Understand the specializations of Behavior and Structure elements (KLP 4.2-1, 4.2-2, 4.2-3) 3. Understand the Composite elements: <ul style="list-style-type: none"> • Grouping (KLP 4.5.1-1, 4.5.1-2) • Location (KLP 4.5.2-1)

3.4 Relationships

UNIT 4	Relationships
Purpose	The purpose of this Learning Unit is to help the Candidate understand the core set of relationships defined in the ArchiMate language.
KLP Reference	5.*

UNIT 4	Relationships
Learning Outcome	<p>The Candidate must be able to:</p> <ol style="list-style-type: none"> 1. Briefly explain the different categories of generic relationships (KLP 5-1) 2. Understand the usage of each of the relationships in each category: <ul style="list-style-type: none"> • Structural relationships (KLP 5.1-1): <ul style="list-style-type: none"> ○ Composition relationship (KLP 5.1.1-1, 5.1.1-2) ○ Aggregation relationship (KLP 5.1.2-1, 5.1.2-2) ○ Assignment relationship (KLP 5.1.3-1, 5.1.3-2) ○ Realization relationship (KLP 5.1.4-1, 5.1.4-2) • Dependency relationships (KLP 5.2-1): <ul style="list-style-type: none"> ○ Serving relationship (KLP 5.2.1-1, 5.2.1-2) ○ Access relationship (KLP 5.2.2-1, 5.2.2-2) ○ Influence relationship (KLP 5.2.3-1, 5.2.3-2) ○ Association relationship (KLP 5.2.4-1, 5.2.4-2) • Dynamic relationships (KLP 5.3-1): <ul style="list-style-type: none"> ○ Triggering relationship (KLP 5.3.1-1, 5.3.1-2) ○ Flow relationship (KLP 5.3.2-1, 5.3.2-2) • Other relationships, Specialization (KLP 5.4.1-1, 5.4.1-2) • Relationship connectors, Junction (KLP 5.5.1-1, 5.5.1-2, 5.5.1-3) 3. Understand the usage of semantics of structural, dependency, dynamic, and other relationships (KLP 5.1.5-1, 5.2.5-1, 5.3.3-1, 5.4.2-1)

3.5 Motivation Modeling

UNIT 5	Motivation Modeling
Purpose	The purpose of this Learning Unit is to help the Candidate understand modeling using the Motivation elements in the ArchiMate language.
KLP Reference	6.*

UNIT 5	Motivation Modeling
Learning Outcome	<p>The Candidate must be able to:</p> <ol style="list-style-type: none"> 1. Understand the structure of the Motivation elements metamodels (KLP 6.1-1) 2. Understand the usage of each of the Motivation elements: <ul style="list-style-type: none"> • Stakeholder (KLP 6.2-1, 6.2.1-1, 6.2.1-2) • Driver (KLP 6.2-1, 6.2.2-1, 6.2.2-2) • Assessment (KLP 6.2-1, 6.2.3-1, 6.2.3-2) • Goal (KLP 6.3-1, 6.3.1-1, 6.3.1-2) • Outcome (KLP 6.3-1, 6.3.2-1, 6.3.2-2) • Principle (KLP 6.3-1, 6.3.3-1, 6.3.3-2) • Requirement (KLP 6.3-1, 6.3.4-1, 6.3.4-2) • Constraint (KLP 6.3-1, 6.3.5-1, 6.3.5-2) • Meaning (KLP 6.4-1, 6.4.1-1, 6.4.1-2) • Value (KLP 6.4-1, 6.4.2-1, 6.4.2-2) 3. Understand the relationships with Core elements (KLP 6.6-1)

3.6 Strategy Modeling

UNIT 6	Strategy Modeling
Purpose	The purpose of this Learning Unit is to help the Candidate understand modeling using the Strategy elements in the ArchiMate language.
KLP Reference	7.*
Learning Outcome	<p>The Candidate must be able to:</p> <ol style="list-style-type: none"> 1. Understand the structure of the Strategy elements metamodel (KLP 7.1-1) 2. Understand the usage of each of the Strategy elements: <ul style="list-style-type: none"> • Resource (KLP 7.2.1-1, 7.2.1-2) • Capability (KLP 7.3.1-1, 7.3.1-2) • Value Streams (KLP 7.3.2-1, 7.3.2-2) • Course of Action (KLP 7.3.3-1, 7.3.3-2) 3. Understand the relationships with Motivation and Core elements (KLP 7.6-1, 7.6-2)

3.7 Business Layer

UNIT 7	Business Layer
Purpose	The purpose of this Learning Unit is to help the Candidate understand the elements of the Business Layer.
KLP Reference	8.*

UNIT 7	Business Layer
Learning Outcome	<p>The Candidate must be able to:</p> <ol style="list-style-type: none"> 1. Understand the structure of the Business Layer metamodel (KLP 8.1-1) 2. Understand the usage of each of the Business Layer elements: <ul style="list-style-type: none"> • Active Structure elements (KLP 8.2-1, 8.2-2): <ul style="list-style-type: none"> ○ Business Actor (KLP 8.2.1-1, 8.2.1-2) ○ Business Role (KLP 8.2.2-1, 8.2.2-2) ○ Business Collaboration (KLP 8.2.3-1, 8.2.3-2) ○ Business Interface (KLP 8.2.4-1, 8.2.4-2) • Behavior elements (KLP 8.3-1, 8.3-2): <ul style="list-style-type: none"> ○ Business Process (KLP 8.3.1-1, 8.3.1-2) ○ Business Function (KLP 8.3.2-1, 8.3.2-2) ○ Business Interaction (KLP 8.3.3-1, 8.3.3-2) ○ Business Event (KLP 8.3.4-1, 8.3.4-2) ○ Business Service (KLP 8.3.5-1, 8.3.5-2) • Passive Structure elements (KLP 8.4-1, 8.4-2): <ul style="list-style-type: none"> ○ Business Object (KLP 8.4.1-1, 8.4.1-2) ○ Contract (KLP 8.4.2-1, 8.4.2-2) ○ Representation (KLP 8.4.3-1, 8.4.3-2) • Composite elements (KLP 8.5-1, 8.5-2): <ul style="list-style-type: none"> ○ Product (KLP 8.5.1-1, 8.5.1-2) 3. Describe the distinction between Active Structure, Behavior, and Passive Structure elements in the Business Layer (KLP 8.2-1, 8.3-1, 8.4-1)

3.8 Application Layer

UNIT 8	Application Layer
Purpose	The purpose of this Learning Unit is to help the Candidate understand the elements of the Application Layer.
KLP Reference	9.*

UNIT 8	Application Layer
Learning Outcome	<p>The Candidate must be able to:</p> <ol style="list-style-type: none"> 1. Understand the structure of the Application Layer metamodel (KLP 9.1-1) 2. Understand the usage of each of the Application Layer elements: <ul style="list-style-type: none"> • Active Structure elements (KLP 9.2-1, 9.2-2): <ul style="list-style-type: none"> ○ Application Component (KLP 9.2.1-1, 9.2.1-2) ○ Application Collaboration (KLP 9.2.2-1, 9.2.2-2) ○ Application Interface (KLP 9.2.3-1, 9.2.3-2) • Behavior elements (KLP 9.3-1, 9.3.2): <ul style="list-style-type: none"> ○ Application Function (KLP 9.3.1-1, 9.3.1-2) ○ Application Interaction (KLP 9.3.2-1, 9.3.2-2) ○ Application Process (KLP 9.3.3-1, 9.3.3-2) ○ Application Event (KLP 9.3.4-1, 9.3.4-2) ○ Application Service (KLP 9.3.5-1, 9.3.5-2) • Passive Structure elements (KLP 9.4-1): <ul style="list-style-type: none"> ○ Data Object (KLP 9.4.1-1, 9.4.1-2) 3. Describe the distinction between Active Structure, Behavior, and Passive Structure elements in the Application Layer (KLP 9.2-1, 9.3-1, 9.4-1)

3.9 Technology Layer

UNIT 9	Technology Layer
Purpose	The purpose of this Learning Unit is to help the Candidate understand the elements of the Technology Layer.
KLP Reference	10.*

UNIT 9	Technology Layer
Learning Outcome	<p>The Candidate must be able to:</p> <ol style="list-style-type: none"> 1. Understand the structure of the Technology Layer metamodel (KLP 10.1-1) 2. Understand the usage of each of the Technology Layer elements: <ul style="list-style-type: none"> • Active Structure elements (KLP 10.2-1, 10-2.2): <ul style="list-style-type: none"> ○ Node (KLP 10.2.1-1, 10.2.1-2) ○ Device (KLP 10.2.2-1, 10.2.2-2) ○ System Software (KLP 10.2.3-1, 10.2.3-2) ○ Technology Collaboration (KLP 10.2.4-1, 10.2.4-2) ○ Technology Interface (KLP 10.2.5-1, 10.2.5-2) ○ Path (KLP 10.2.6-1, 10.2.6-2) ○ Communication Network (KLP 10.2.7-1, 10.2.7-2) • Behavior elements (KLP 10.3-1, 10-3.2): <ul style="list-style-type: none"> ○ Technology Function (KLP 10.3.1-1, 10.3.1-2) ○ Technology Process (KLP 10.3.2-1, 10.3.2-2) ○ Technology Interaction (KLP 10.3.3-1, 10.3.3-2) ○ Technology Event (KLP 10.3.4-1, 10.3.4-2) ○ Technology Service (KLP 10.3.5-1, 10.3.5-2) • Passive Structure elements (KLP 10.4-1, 10-4.2): <ul style="list-style-type: none"> ○ Artifact (KLP 10.4.1-1, 10.4.1-2) 3. Describe the distinction between Active Structure, Behavior, and Passive Structure elements in the Technology Layer (KLP 10.2-1, 10.3-1, 10.4-1)

3.10 Physical Elements

UNIT 10	Physical Elements
Purpose	The purpose of this Learning Unit is to help the Candidate understand the Physical elements.
KLP Reference	11.*

UNIT 10	Physical Elements
Learning Outcome	<p>The Candidate must be able to:</p> <ol style="list-style-type: none"> 1. Understand the structure of the physical elements metamodel (KLP 11.1-1) 2. Understand the usage of each of the physical elements: <ul style="list-style-type: none"> • Active Structure elements (KLP 11.2-1): <ul style="list-style-type: none"> ○ Equipment (KLP 11.2.1-1, 11.2.1-2) ○ Facility (KLP 11.2.2-1, 11.2.2-2) ○ Distribution Network (KLP 11.2.3-1, 11.2.3-2) • Behavior elements (KLP 11.3-1) • Passive Structure elements (KLP 11.4-1): <ul style="list-style-type: none"> ○ Material (KLP 11.4.1-1, 11.4.1-2) 3. Describe the distinction between Active Structure, Behavior, and Passive Structure elements (KLP 11.2-1, 11.3-1, 11.4-1)

3.11 Relationships between Core Layers

UNIT 11	Relationships between Core Layers
Purpose	The purpose of this Learning Unit is to help the Candidate understand the relationships between core layers.
KLP Reference	12.*
Learning Outcome	<p>The Candidate must be able to:</p> <ol style="list-style-type: none"> 1. Understand the correct usage of relationships that align the Business Layer with lower layers (KLP 12.1-1) 2. Understand the correct usage of relationships that align the Application and Technology Layers (KLP 12.2-1, 12.2-2)

3.12 Implementation and Migration

UNIT 12	Implementation and Migration
Purpose	The purpose of this Learning Unit is to help the Candidate understand the Implementation and Migration elements of the ArchiMate language.
KLP Reference	13.*

UNIT 12	Implementation and Migration
Learning Outcome	<p>The Candidate must be able to:</p> <ol style="list-style-type: none"> 1. Understand the structure of the Implementation and Migration elements metamodel (KLP 13.1-1) 2. Understand the usage of each of the Implementation and Migration elements and relationships (KLP 13.2-1, 13.3-1): <ul style="list-style-type: none"> • Work Package (KLP 13.2.1-1, 13.2.1-2) • Deliverable (KLP 13.2.2-1, 13.2.2-2) • Implementation Event (KLP 13.2.3-1, 13.2.3-2) • Plateau (KOP 13.2.4-1, 13.2.4-2) • Gap (KLP 13.2.5-1, 13.2.5-2) • Relationships (KLP 13.3-1) 3. Understand the relationships with other aspects and layers (KLP 13.4-1, 13.4-2)

3.13 Addressing Stakeholder Concerns with Architecture Views and Viewpoints

UNIT 13	Addressing Stakeholder Concerns with Architecture Views and Viewpoints
Purpose	The purpose of this Learning Unit is to help the Candidate describe and explain the viewpoint mechanism.
KLP Reference	14.*
Learning Outcome	<p>The Candidate must be able to:</p> <ol style="list-style-type: none"> 1. Describe and explain the general concepts related with the views and viewpoints mechanism (KLP 14.1-1) – stakeholders and concerns 2. Describe and explain the conceptual model of an architecture description (KLP 14.2-1, 14.2-2) 3. Describe and explain architecture views and viewpoints (KLP 14.3-1)

3.14 The Open Group Certification for People: ArchiMate® 3 Certification Program

UNIT 14	The Open Group Certification for People: ArchiMate® 3 Certification Program
Purpose	The purpose of this Learning Unit is to help the Candidate understand the ArchiMate 3 Certification Program for People.
KLP Reference	None.
Learning Outcome	<p>The Candidate must be able to:</p> <ol style="list-style-type: none"> 1. Explain the ArchiMate 3 Certification Program for People, and distinguish between the levels of certification.

4. Level 2 Conformance Requirements

To achieve certification to Level 2, Candidates must complete all Learning Units defined in Section 3 and this section and successfully pass the corresponding Indicator of Compliance for Level 2 certification (see Section 5).

4.1 Language Structure

UNIT 1	Language Structure
Purpose	The purpose of this Learning Unit is to help the Candidate understand and explain the language structure.
KLP Reference	3.*
Learning Outcome	The Candidate must be able to: <ol style="list-style-type: none"> 1. Explain the concept of layering in the ArchiMate language (KLP 3.3-1, 3.3-2, 3.3-3, 3.3-4) 2. Explain the dimensions of the ArchiMate Core Framework and the ArchiMate Full Framework (KLP 3.4-1, 3.4-2, 3.4-3, 3.4-4, 3.5-1, 3.5-2) 3. Explain the abstraction in the ArchiMate language (KLP 3.6-1, 3.6-2, 3.6-3)

4.2 Generic Metamodel

UNIT 2	Generic Metamodel
Purpose	The purpose of this Learning Unit is to help the Candidate understand and explain the generic metamodel.
KLP Reference	4.*
Learning Outcome	The Candidate must be able to: <ol style="list-style-type: none"> 1. Explain the hierarchy of Behavior and Structure elements of the ArchiMate language (KLP 4.1-1) 2. Explain Active Structure elements (KLP 4.1-2) 3. Explain Behavior elements (KLP 4.1-3) 4. Explain Passive Structure elements (KLP 4.1-4) 5. Explain the specializations of Behavior and Structure elements (KLP 4.2-1, 4.2-2, 4.2-3)

4.3 Relationships

UNIT 3	Relationships
Purpose	The purpose of this Learning Unit is to help the Candidate understand and explain the derivation rules used to derive indirect relationships.
KLP Reference	5.7, B.*

UNIT 3	Relationships
Learning Outcome	<p>The Candidate must be able to:</p> <ol style="list-style-type: none"> 1. Explain the use of derivation rules for relationships in the ArchiMate language (KLP 5.7) 2. Identify the practical application of the derivation rules in practical modeling situations (KLP 5.7, B.*) 3. Explain the use of derivation rules for potential relationships (KLP B.3)

4.4 Motivation Modeling

UNIT 4	Motivation Modeling
Purpose	The purpose of this Learning Unit is to help the Candidate understand and explain how to apply the Motivation elements in practical modeling situations.
KLP Reference	6.*, C.*
Learning Outcome	<p>The Candidate must be able to:</p> <ol style="list-style-type: none"> 1. Explain practical usages and correct examples for the Motivation elements: <ul style="list-style-type: none"> • Stakeholder, driver, and assessment (KLP 6.2-1) • Goal, outcome, principle, requirements, and constraint (KLP 6.3-1) • Meaning and value (KLP 6.4-1) 2. Describe and explain how the Motivation elements can be related with the Core elements to show how motivation connects with its implementation (KLP 6.1-1, 6.6-1, 6.6-2, C.1, C.2)

4.5 Strategy Modeling

UNIT 5	Strategy Modeling
Purpose	The purpose of this Learning Unit is to help the Candidate understand and explain how to apply the Strategy elements in practical modeling situations.
KLP Reference	7.*, C.*
Learning Outcome	<p>The Candidate must be able to:</p> <ol style="list-style-type: none"> 1. Explain how Strategy elements can be used together with the Motivation elements and core concepts (KLP 7.1-1, 7.6-1, 7.6-2) 2. Explain the differences between key concepts: <ul style="list-style-type: none"> • Resource (KLP 7.2.1-1) • Capability (KLP 7.3.1-1) • Value Streams (KLP 7.3.2-1) • Course of action (KLP 7.3.3-1) 3. Describe and explain how to apply the Strategy layer concepts and relationships for real-case modeling situations (KLP C.1, C.3)

4.6 Business Layer

UNIT 6	Business Layer
Purpose	The purpose of this Learning Unit is to help the Candidate understand and explain how to apply the Business Layer entities in practical modeling situations.
KLP Reference	8.*, C.1
Learning Outcome	The Candidate must be able to: <ol style="list-style-type: none">1. Explain how to apply the Business Layer elements in real-case modeling situations:<ul style="list-style-type: none">• Active Structure elements (KLP 8.2-1, C.1)• Behavior elements (KLP 8.3-1, C.1)• Passive Structure elements (KLP 8.4-1, C.1)2. Explain the usage of Composite elements (KLP 8.5-1)

4.7 Application Layer

UNIT 7	Application Layer
Purpose	The purpose of this Learning Unit is to help the Candidate understand and explain how to apply the Application Layer entities in practical modeling situations.
KLP Reference	9.*, C.1
Learning Outcome	The Candidate must be able to: <ol style="list-style-type: none">1. Explain how to apply the Application Layer elements in real-case modeling situations:<ul style="list-style-type: none">• Active Structure elements (KLP 9.2-1, C.1)• Behavior elements (KLP 9.3-1, C.1)• Passive Structure elements (KLP 9.4-1, C.1)

4.8 Technology Layer

UNIT 8	Technology Layer
Purpose	The purpose of this Learning Unit is to help the Candidate understand and explain how to apply the Technology Layer entities in practical modeling situations.
KLP Reference	10.*, C.1
Learning Outcome	The Candidate must be able to: <ol style="list-style-type: none">1. Explain how to apply the Technology Layer elements in real-case modeling situations:<ul style="list-style-type: none">• Active Structure elements (KLP 10.2-1, C.1)• Behavior elements (KLP 10.3-1, C.1)• Passive Structure elements (KLP 10.4-1, C.1)

4.9 Physical Elements

UNIT 9	Physical Elements
Purpose	The purpose of this Learning Unit is to help the Candidate understand and explain how to apply the Physical elements entities in practical modeling situations.
KLP Reference	11.*, C.1
Learning Outcome	The Candidate must be able to: <ol style="list-style-type: none"> 1. Explain how to apply the physical elements in real-case modeling situations: <ul style="list-style-type: none"> • Active Structure elements (KLP 11.2-1, C.1) • Behavior elements (KLP 11.3-1, C.1) • Passive Structure elements (KLP 11.4-1, C.1)

4.10 Relationships between Core Layers

UNIT 10	Relationships between Core Layers
Purpose	The purpose of this Learning Unit is to help the Candidate understand and explain how to apply the cross-layer modeling concepts in practical modeling situations.
KLP Reference	12.*, B.*, C.*
Learning Outcome	The Candidate must be able to: <ol style="list-style-type: none"> 1. Explain the proper usage of relationships between core layers in real-case modeling situations (KLP 12-1, B.*, C.*) 2. Understand the usage of derivation relationships applied in relationships between core layers (KLP 12-1, B.*, C.*)

4.11 Implementation and Migration

UNIT 11	Implementation and Migration
Purpose	The purpose of this Learning Unit is to help the Candidate understand and explain how to apply the Implementation and Migration elements in practical modeling situations.
KLP Reference	13.*, C.*
Learning Outcome	The Candidate must be able to: <ol style="list-style-type: none"> 1. Explain each of the elements and relationships in the Implementation and Migration elements metamodel (KLP 13.1-1) 2. Explain how to apply Implementation and Migration elements to develop transition architecture models (KLP 13.1-1) 3. Explain how to apply the Implementation and Migration elements in real-case application modeling situations (KLP 13.2-1, 13.3-1, C.*) 4. Explain relationships with other aspects and layers (KLP 13.4-1)

4.12 Addressing Stakeholder Concerns with Architecture Views, Viewpoints, and Customization

UNIT 12	Addressing Stakeholder Concerns with Architecture Views, Viewpoints, and Customization
Purpose	The purpose of this Learning Unit is to help the Candidate explain how to apply the viewpoint mechanism.
KLP Reference	14.*
Learning Outcome	The Candidate must be able to: <ol style="list-style-type: none"> 1. Describe and explain how to define and classify architecture viewpoints (KLP 14.4.1-1, 14.4.2-1) 2. Describe and explain the application of the viewpoint mechanisms mechanism in real-case modeling situations (KLP 14.4-1)

4.13 Language Customization Mechanisms

UNIT 13	Language Customization Mechanisms
Purpose	The purpose of this Learning Unit is to help the Candidate describe and explain the language customization mechanisms to support specific types of model analysis, to support the architecture communication, and to capture the specifics of certain application domains.
KLP Reference	15.*
Learning Outcome	The Candidate must be able to: <ol style="list-style-type: none"> 1. Describe and explain the language customization mechanisms: <ul style="list-style-type: none"> • Adding attributes to ArchiMate elements and relationships (KLP 15.1-1, 15.1-2, 15.1-3) • Specialization of elements and relationships (KLP 15.2-1, 15.2-2, 15.2-3)

5. Indicators of Compliance

The Indicators of Compliance for the Program are The Open Group examinations.

The descriptions of the examinations for each level are maintained by the Certification Authority and displayed on The Open Group website. This includes a description of the examination type (for example, simple multiple choice, complex scenario, etc.), the number of questions, the duration, supervision requirements, whether an examination is open book, the pass score, the language(s) the examination is offered in, and the pre-requisites for taking the examination.

6. Key Learning Point Mapping to the Body of Knowledge

Section		Key Learning Point(s)
1. Introduction		
1.1	Introduction	KLP 1.1-1 (1) The objective of the standard
1.2	Overview	KLP 1.2-1 (1) General EA and ArchiMate overview KLP 1.2-2 (1) The different layers of Enterprise Architecture
1.3	Conformance	None
1.4	Normative References	None
1.5	Terminology	None
1.6	Future Directions	None
2. Definitions		
2	Definitions	KLP 2.1-1 (1) ArchiMate Core Framework KLP 2.2-1 (1) ArchiMate Core Language KLP 2.3-1 (1) Architecture View KLP 2.4-1 (1) Architecture Viewpoint KLP 2.5-1 (1) Aspect KLP 2.6-1 (1) Attribute KLP 2.7-1 (1) Concept KLP 2.8-1 (1) Conformance KLP 2.9-1 (1) Conforming Implementation KLP 2.10-1 (1) Core Element KLP 2.11-1 (1) Composite Element KLP 2.12-1 (1) Element KLP 2.13-1 (1) Layer KLP 2.14-1 (1) Model KLP 2.15-1 (1) Relationship
3. Language Structure		
3.1	Language Design Considerations	None
3.2	Top-Level Language Structure	KLP 3.2-1 (1) Language hierarchical structure KLP 3.2-2 (1) Concepts classification (element, relationship, relationship connector, behavior, structure, motivation, composite) KLP 3.2-3 (1) Top-level hierarchy of ArchiMate concepts

3.3	Layering of the ArchiMate Language	KLP 3.3-1 (1) Business Layer KLP 3.3-2 (1) Application Layer KLP 3.3-3 (1) Technology Layer KLP 3.3-4 (1) Service-orientation
3.4	The ArchiMate Core Framework	KLP 3.4-1 (1) Aspects KLP 3.4-2 (1) Layers KLP 3.4-3 (1) ArchiMate Core Framework KLP 3.4-4 (1) Physical elements
3.5	The ArchiMate Full Framework	KLP 3.5-1 (1) Implementation and Migration elements KLP 3.5-2 (1) Aspect: Motivation
3.6	Abstraction in the ArchiMate Language	KLP 3.6-1 (1) External and internal view KLP 3.6-2 (1) Active, Behavior KLP 3.6-3 (1) Conceptual, Logical, Physical
3.7	Concepts and their Notations	KLP 3.7-1 (1) Importance of having a standard notation
3.8	Use of Nesting	KLP 3.8-1 (1) Nesting concept and application
3.9	Use of Colors and Notational Cues	KLP 3.9-1 (1) General color conventions KLP 3.9-2 (1) General convention for identifiers KLP 3.9-3 (1) General conventions for shapes
4. Generic Metamodel		
4.1	Behavior and Structure Elements	KLP 4.1-1 (1) Behavior and structure elements hierarchy and metamodel KLP 4.1-2 (1) Active Structure elements KLP 4.1-3 (1) Behavior elements KLP 4.1-4 (1) Passive Structure elements
4.2	Specializations of Structure and Behavior Elements	KLP 4.2-1 (1) Collaboration KLP 4.2-2 (1) Interaction KLP 4.2-3 (1) Specializations of Core elements classification
4.3	Summary of Structure and Behavior Elements	KLP 4.3-1 (1) Elements description, definition, and notation
4.4	Motivation Elements	KLP 4.4-1 (1) Overview of Motivation elements
4.5	Composite Elements	KLP 4.5-1 (1) Overview of Composite elements
4.5.1	Grouping	KLP 4.5.1-1 (1) Definition and notation KLP 4.5.1-2 (1) Examples
4.5.2	Location	KLP 4.5.2-1 (1) Definition and notation

5. Relationships		
5	Relationships	KLP 5-1 (1) Overview and relationship classification
5.1	Structural Relationships	KLP 5.1-1 (1) Concept and notation
5.1.1	Composition Relationship	KLP 5.1.1-1 (1) Concept and notation KLP 5.1.1-2 (1) Usual interpretation and examples
5.1.2	Aggregation Relationship	KLP 5.1.2-1 (1) Concept and notation KLP 5.1.2-2 (1) Usual interpretation and examples
5.1.3	Assignment Relationship	KLP 5.1.3-1 (1) Concept and notation KLP 5.1.3-2 (1) Usual interpretation and examples
5.1.4	Realization Relationship	KLP 5.1.4-1 (1) Concept and notation KLP 5.1.4-2 (1) Usual interpretation and examples
5.1.5	Semantics of Structural Relationships	KLP 5.1.5-1 (1) Usual interpretation and examples
5.2	Dependency Relationships	KLP 5.2-1 (1) Concept and classification KLP 5.2-2 (1) Distinction from other notations
5.2.1	Serving Relationship	KLP 5.2.1-1 (1) Concept and notation KLP 5.2.1-2 (1) Usual interpretation and examples
5.2.2	Access Relationship	KLP 5.2.2-1 (1) Concept and notation KLP 5.2.2-2 (1) Usual interpretation and examples
5.2.3	Influence Relationship	KLP 5.2.3-1 (1) Concept and notation KLP 5.2.3-2 (1) Usual interpretation and usage KLP 5.2.3-3 (1) Distinction and usage along with other relationships KLP 5.2.3-4 (1) Common uses and examples
5.2.4	Association Relationship	KLP 5.2.4-1 (1) Concept and notation KLP 5.2.4-2 (1) Usual interpretation and examples
5.2.5	Semantics of Dependency Relationships	KLP 5.2.5-1 (1) Usual interpretation and examples
5.3	Dynamic Relationships	KLP 5.3-1 (1) Concept and classification
5.3.1	Triggering Relationship	KLP 5.3.1-1 (1) Concept and notation KLP 5.3.1-2 (1) Usual interpretation and examples
5.3.2	Flow Relationship	KLP 5.3.2-1 (1) Concept and notation KLP 5.3.2-2 (1) Usual interpretation and examples
5.3.3	Semantics of Dynamic Relationships	KLP 5.2.5-1 (1) Usual interpretation and examples

5.4	Other Relationships	None
5.4.1	Specialization Relationship	KLP 5.4.1-1 (1) Concept and notation KLP 5.4.1-2 (1) Usual interpretation and examples
5.4.2	Semantics of Other Relationships	KLP 5.4.2-1 (1) Usual interpretation and examples
5.5	Relationship Connectors	None
5.5.1	Junction	KLP 5.5.1-1 (1) Concept and notation KLP 5.5.1-2 (1) Usage along with relationships KLP 5.5.1-3 (1) Usual interpretation and examples
5.6	Summary of Relationships	None
5.7	Derivation of Relationships	KLP 5.7 (2) General definitions and concepts for derivation rules
6. Motivation Elements		
6.1	Motivation Elements Metamodel	KLP 6.1-1 (1) Motivation elements metamodel
6.2	Stakeholder, Driver, and Assessment	KLP 6.2-1 (1) General concepts
6.2.1	Stakeholder	KLP 6.2.1-1 (1) Definition KLP 6.2.1-2 (1) (2) Common use and examples
6.2.2	Driver	KLP 6.2.2-1 (1) Definition KLP 6.2.2-2 (1) (2) Common use and examples
6.2.3	Assessment	KLP 6.2.3-1 (1) Definition KLP 6.2.3-2 (1) (2) Common use and examples
6.2.4	Example	None
6.3	Goal, Outcome, Principle, Requirement, and Constraint	KLP 6.3-1 (1) General concepts
6.3.1	Goal	KLP 6.3.1-1 (1) Definition KLP 6.3.1-2 (1) (2) Common use and examples
6.3.2	Outcome	KLP 6.3.2-1 (1) Definition KLP 6.3.2-2 (1) (2) Common use and examples
6.3.3	Principle	KLP 6.3.3-1 (1) Definition KLP 6.3.3-2 (1) (2) Common use and examples

6.3.4	Requirement	KLP 6.3.4-1 (1) Definition KLP 6.3.4-2 (1) (2) Common use and examples
6.3.5	Constraint	KLP 6.3.5-1 (1) Definition KLP 6.3.5-2 (1) (2) Common use and examples
6.3.6	Example	None
6.4	Meaning and Value	KLP 6.4-1 (1) General concepts
6.4.1	Meaning	KLP 6.4.1-1 (1) Definition KLP 6.4.1-2 (1) (2) Common use and examples
6.4.2	Value	KLP 6.4.2-1 (1) Definition KLP 6.4.2-2 (1) (2) Common use and examples
6.4.3	Example	None
6.5	Summary of Motivation Elements	None
6.6	Relationships with Core Elements	KLP 6.6-1 (1) Motivation elements purpose and usage along with the Core elements KLP 6.6-2 (1) Relationships between Motivation elements and Core elements
7. Strategy Elements		
7.1	Strategy Elements Metamodel	KLP 7.1-1 (1) Strategy elements metamodel description
7.2	Structure Elements	None
7.2.1	Resource	KLP 7.2.1-1 (1) Element description and notation KLP 7.2.1-2 (1) (2) Common use and examples
7.3	Behavior Elements	None
7.3.1	Capability	KLP 7.3.1-1 (1) Element description and notation KLP 7.3.1-2 (1) (2) Common use and examples
7.3.2	Value Streams	KLP 7.3.2-1 (1) Element description and notation KLP 7.3.2-2 (1) (2) Common use and examples
7.3.3	Course of Action	KLP 7.3.3-1 (1) Element description and notation KLP 7.3.3-2 (1) (2) Common use and examples
7.4	Example	None
7.5	Summary of Strategy Elements	KLP 7.5-1 (1) Summary: Definitions and Notations

7.6	Relationships with Motivation and Core Elements	KLP 7.6-1 (1) (2) Strategy elements purpose and usage along with the Motivation and Core elements KLP 7.6-2 (1) (2) Relationships with Motivation and Core elements
8. Business Layer		
8.1	Business Layer Metamodel	KLP 8.1-1 (1) Metamodel diagram
8.2	Active Structure Elements	KLP 8.2-1 (1) General concepts description KLP 8.2-2 (1) Business internal Active Structure elements classification
8.2.1	Business Actor	KLP 8.2.1-1 (1) Concept and notation KLP 8.2.1-2 (1) (2) Common use
8.2.2	Business Role	KLP 8.2.2-1 (1) Concept and notation KLP 8.2.2-2 (1) (2) Common use
8.2.3	Business Collaboration	KLP 8.2.3-1 (1) Concept and notation KLP 8.2.3-2 (1) (2) Common use
8.2.4	Business Interface	KLP 8.2.4-1 (1) Concept and notation KLP 8.2.4-2 (1) (2) Common use
8.2.5	Example	None
8.3	Behavior Elements	KLP 8.3-1 (1) General concepts and classification KLP 8.3-2 (1) Business internal Behavior elements classification
8.3.1	Business Process	KLP 8.3.1-1 (1) Concept and notation KLP 8.3.1-2 (1) (2) Common use
8.3.2	Business Function	KLP 8.3.2-1 (1) Concept and notation KLP 8.3.2-2 (1) (2) Common use
8.3.3	Business Interaction	KLP 8.3.3-1 (1) Concept and notation KLP 8.3.3-2 (1) (2) Common use
8.3.4	Business Event	KLP 8.3.4-1 (1) Concept and notation KLP 8.3.4-2 (1) (2) Common use
8.3.5	Business Service	KLP 8.3.5-1 (1) Concept and notation KLP 8.3.5-2 (1) (2) Common use
8.3.6	Example	None
8.4	Passive Structure Elements	KLP 8.4-1 (1) General concepts and classification KLP 8.4-2 (1) Business internal Behavior elements classification
8.4.1	Business Object	KLP 8.4.1-1 (1) Concept and notation KLP 8.4.1-2 (1) (2) Common use

8.4.2	Contract	KLP 8.4.2-1 (1) Concept and notation KLP 8.4.2-2 (1) (2) Common use
8.4.3	Representation	KLP 8.4.3-1 (1) Concept and notation KLP 8.4.3-2 (1) (2) Common use
8.4.4	Example	None
8.5	Composite Elements	KLP 8.5-1 (1) General concepts and classification KLP 8.5-2 (1) (2) Product elements classification
8.5.1	Product	KLP 8.5.1-1 (1) Concept and notation KLP 8.5.1-2 (1) (2) Common use
8.5.2	Example	None
8.6	Summary of Business Layer Elements	None
9. Application Layer		
9.1	Application Layer Metamodel	KLP 9.1-1 (1) Metamodel diagram
9.2	Active Structure Elements	KLP 9.2-1 (1) General concepts description KLP 9.2-2 (1) Application internal Active Structure elements classification
9.2.1	Application Component	KLP 9.2.1-1 (1) Concept and notation KLP 9.2.1-2 (1) (2) Common use
9.2.2	Application Collaboration	KLP 9.2.2-1 (1) Concept and notation KLP 9.2.2-2 (1) (2) Common use
9.2.3	Application Interface	KLP 9.2.3-1 (1) Concept and notation KLP 9.2.3-2 (1) (2) Common use
9.2.4	Example	None
9.3	Behavior Elements	KLP 9.3-1 (1) General concepts description KLP 9.3-2 (1) Application internal Behavior elements classification
9.3.1	Application Function	KLP 9.3.1-1 (1) Concept and notation KLP 9.3.1-2 (1) (2) Common use
9.3.2	Application Interaction	KLP 9.3.2-1 (1) Concept and notation KLP 9.3.2-2 (1) (2) Common use
9.3.3	Application Process	KLP 9.3.3-1 (1) Concept and notation KLP 9.3.3-2 (1) (2) Common use

9.3.4	Application Event	KLP 9.3.4-1 (1) Concept and notation KLP 9.3.4-2 (1) (2) Common use
9.3.5	Application Service	KLP 9.3.5-1 (1) Concept and notation KLP 9.3.5-2 (1) (2) Common use
9.3.6	Example	None
9.4	Passive Structure Elements	KLP 9.4-1 (1) General concepts description
9.4.1	Data Object	KLP 9.4.1-1 (1) Concept and notation KLP 9.4.1-2 (1) (2) Common use
9.4.2	Example	None
9.5	Summary of Application Layer Elements	None
10. Technology Layer		
10.1	Technology Layer Metamodel	KLP 10.1-1 (1) Metamodel diagram
10.2	Active Structure Elements	KLP 10.2-1 (1) General concepts description KLP 10.2-2 (1) Technology internal Active Structure elements classification
10.2.1	Node	KLP 10.2.1-1 (1) Concept and notation KLP 10.2.1-2 (1) (2) Common use
10.2.2	Device	KLP 10.2.2-1 (1) Concept and notation KLP 10.2.2-2 (1) (2) Common use
10.2.3	System Software	KLP 10.2.3-1 (1) Concept and notation KLP 10.2.3-2 (1) (2) Common use
10.2.4	Technology Collaboration	KLP 10.2.4-1 (1) Concept and notation KLP 10.2.4-2 (1) (2) Common use
10.2.5	Technology Interface	KLP 10.2.5-1 (1) Concept and notation KLP 10.2.5-2 (1) (2) Common use
10.2.6	Path	KLP 10.2.6-1 (1) Concept and notation KLP 10.2.6-2 (1) (2) Common use
10.2.7	Communication Network	KLP 10.2.7-1 (1) Concept and notation KLP 10.2.7-2 (1) (2) Common use
10.2.8	Example	None
10.3	Behavior Elements	KLP 10.3-1 (1) General concepts description KLP 10.3-2 (1) Application internal Behavior elements classification

10.3.1	Technology Function	KLP 10.3.1-1 (1) Concept and notation KLP 10.3.1-2 (1) (2) Common use
10.3.2	Technology Process	KLP 10.3.2-1 (1) Concept and notation KLP 10.3.2-2 (1) (2) Common use
10.3.3	Technology Interaction	KLP 10.3.3-1 (1) Concept and notation KLP 10.3.3-2 (1) (2) Common use
10.3.4	Technology Event	KLP 10.3.4-1 (1) Concept and notation KLP 10.3.4-2 (1) (2) Common use
10.3.5	Technology Service	KLP 10.3.5-1 (1) Concept and notation KLP 10.3.5-2 (1) (2) Common use
10.3.6	Example	None
10.4	Passive Structure Elements	KLP 10.4-1 (1) General concepts description KLP 10.4-2 (1) Technology internal Behavior elements classification
10.4.1	Artifact	KLP 10.4.1-1 (1) Concept and notation KLP 10.4.1-2 (1) (2) Common use
10.4.2	Example	None
10.5	Summary of Technology Layer Elements	None
11. Physical Elements		
11.1	Physical Elements Metamodel	KLP 11.1-1 (1) Metamodel diagram elements and relationships
11.2	Active Structure Elements	KLP 11.2-1 (1) General concepts description for the Active Structure elements
11.2.1	Equipment	KLP 11.2.1-1 (1) Concept and notation KLP 11.2.1-2 (1) (2) Common use
11.2.2	Facility	KLP 11.2.2-1 (1) Concept and notation KLP 11.2.2-2 (1) (2) Common use
11.2.3	Distribution Network	KLP 11.2.3-1 (1) Concept and notation KLP 11.2.3-2 (1) (2) Common use
11.3	Behavior Elements	KLP 11.3-1 (1) General concepts description for the Behavior elements Clarify the relation between the Physical elements and the Technology Layer in terms of the usage and meaning of the Behavior concepts
11.4	Passive Structure Elements	None

11.4.1	Material	KLP 11.4.1-1 (1) Concept and notation KLP 11.4.1-2 (1) (2) Common use
11.5	Example	None
11.6	Summary of Physical Elements	KLP 11.6-1 (1) Summary: Definitions and Notations
12. Relationships between Core Layers		
12.1	Alignment of Business Layer and Lower Layers	KLP 12.1-1 (1) (2): <ul style="list-style-type: none"> Identify the relationships between the concepts from the Business Layer and the Application and Technology Layers Explain how the serving and realization relationships connect the different concepts Explain the usage of the aggregation relationship between layers
12.2	Alignment of Application and Technology Layers	KLP 12.2-1 (1) (2): <ul style="list-style-type: none"> Identify the relationships between the concepts from the Application and Technology Layers Explain how the serving and realization relationships connect the different concepts KLP 12.2-2 (1)(2): <ul style="list-style-type: none"> Explain the importance of the derived relationships to connect the Business Layer with the Technology Layer
12.3	Example	None
13. Implementation and Migration Elements		
13.1	Implementation and Migration Elements Metamodel	KLP 13.1-1 (1) Metamodel diagram showing the different elements and relationship for Implementation and Migration
13.2	Implementation and Migration Elements	KLP 13.2-1 (1) General concepts description for Implementation and Migration concepts
13.2.1	Work Package	KLP 13.2.1-1 (1) Concept and notation KLP 13.2.1-2 (1) (2) Common use
13.2.2	Deliverable	KLP 13.2.2-1 (1) Concept and notation KLP 13.2.2-2 (1) (2) Common use
13.2.3	Implementation Event	KLP 13.2.3-1 (1) Concept and notation KLP 13.2.3-2 (1) (2) Common use
13.2.4	Plateau	KLP 13.2.4-1 (1) Concept and notation KLP 13.2.4-2 (1) (2) Common use
13.2.5	Gap	KLP 13.2.5-1 (1) Concept and notation KLP 13.2.5-2 (1) (2) Common use
13.2.6	Example	None

13.2.7	Summary of Implementation and Migration Elements	KLP 13.2.7-1 (1) Summary: Definitions and Notations
13.3	Relationships	KLP 13.3-1 (1) Standard relationships apply to Implementation and Migration elements
13.4	Cross-Aspect Dependencies	<p>KLP 13.4-1 (1) (2):</p> <ul style="list-style-type: none"> • Diagram showing the main relationships between the Implementation and Migration concepts and the Core and Composite concepts • Explanation about the relationships presented in the diagram and others that might be derived <p>KLP 13.4-2 (1) (2):</p> <ul style="list-style-type: none"> • Show relationships between the Implementation and Migration elements and the Motivation elements
14. Stakeholders, Architecture Views, and Viewpoints		
14.1	Introduction	KLP 14.1-1 (1) Concepts about architecture descriptions and the relevance of the view and viewpoints concepts in Enterprise Architecture and its use with different frameworks
14.2	Stakeholders and Concerns	<p>KLP 14.2-1 (1) Understand the general concepts about stakeholders and concern in Enterprise Architecture</p> <p>KLP 14.2-2 (1) Relationships between the relevant concepts: stakeholders, concerns, views, viewpoints, architecture descriptions, models kinds, and architecture models.</p>
14.3	Views and Viewpoints	KLP 14.3-1 (1) Concepts and differences between a view and a viewpoint
14.4	Viewpoint Mechanism	<p>KLP 14.4-1 (2) Description and importance of the viewpoint mechanism to define and classify the viewpoints based on stakeholder concerns</p> <p>KLP 14.4-2 (2) Description of the steps needed to define a viewpoint</p>
14.4.1	Defining and Classifying Viewpoints	KLP 14.4.1 (2) Description of the steps needed to classify a viewpoint and existing categories
14.4.2	Creating the View	KLP 14.4.2 (2) How to create a view applying the mechanism as well as the concepts from the different layers and the derivation rules
14.5	Example Viewpoints	None
15. Language Customization Mechanisms		
15	Language Customization Mechanisms	KLP 15-1 (2) Explanation about the language customization mechanism, importance, and general usage
15.1	Adding Attributes to ArchiMate Elements and Relationships	<p>KLP 15.1-1 (2) Profile concept and explanation</p> <p>KLP 15.1-2 (2) Description for the types of profiles</p> <p>KLP 15.1-3 (2) User defined profiles used to extend the language</p>

15.2	Specialization of Elements and Relationships	KLP 15.2-1 (2) Specialization is a simple and powerful way to define new elements or relationships based on the existing ones KLP 15.2-2 (2) Specialization and inherit properties KLP 15.2-3 (2) Specialization and new graphical notation (stereotypes, new icons, graphical markers) KLP 15.2-3 (2) Relationships specialization
15.2.1	Examples of Specializations of Business Layer Elements (Informative)	None
15.2.2	Examples of Specializations of Application Layer Elements (Informative)	None
15.2.3	Examples of Specializations of Technology Layer Elements (Informative)	None
15.2.4	Examples of Specializations of Physical Elements (Informative)	None
15.2.5	Examples of Specializations of Motivation Elements (Informative)	None
15.2.6	Examples of Specializations of Strategy Elements (Informative)	None
15.2.7	Examples of Specializations of Implementation and Migration Elements (Informative)	None
15.2.8	Examples of Specializations of Composite Elements (Informative)	None
15.2.9	Examples of Specializations of Relationships (Informative)	None

A. Summary of Language Notation		
A.1	Core Elements	None
A.2	Motivation, Strategy, Implementation and Migration Elements	None
A.3	Relationships	KLP 5-1 (1) (2) Summary of all relationships
B. Relationships (Normative)		
B	Relationships	None
B.1	Specification of Derivation Rules	KLP B.1-1 (2) Rule application and examples
B.2	Derivation Rules for Valid Relationships	None
B.2.1	Valid Derivations for Specialization Relationships	None
B.2.2	Valid Derivations for Structural Relationships	None
B.2.3	Valid Derivations for Dependency Relationships	None
B.2.4	Valid Derivations for Dynamic Relationships	None
B.3	Derivation Rules for Potential Relationships	KLP B.3-1 (2) Derivation rule explanation KLP B.3-2 (2) Rule application and examples
B.4	Restrictions on Applying Derivation Rules	None
B.5	Relationship Tables	None
B.6	Grouping, Plateau, and Relationships Between Relationships	None
C. Example Viewpoints		
C	Example Viewpoints (Informative)	None
C.1	Basic Viewpoints in ArchiMate	KLP 14.4.2 (1) (2) Description and overview for examples of basic viewpoints
C.1.1	Organization Viewpoint	None

C.1.2	Application Structure Viewpoint	None
C.1.3	Informative Structure Viewpoint	None
C.1.4	Technology Viewpoint	None
C.1.5	Layered Viewpoint	None
C.1.6	Physical Viewpoint	None
C.1.7	Product Viewpoint	None
C.1.8	Application Usage Viewpoint	None
C.1.9	Technology Usage Viewpoint	None
C.1.10	Business Process Cooperation Viewpoint	None
C.1.11	Application Cooperation Viewpoint	None
C.1.12	Service Realization Viewpoint	None
C.1.13	Implementation and Deployment Viewpoint	None
C.2	Motivation Viewpoints	KLP 14.4.2 (1) (2) Description and overview for examples of Motivation viewpoints
C.2.1	Stakeholder Viewpoint	None
C.2.2	Goal Realization Viewpoint	None
C.2.3	Requirements Realization Viewpoint	None
C.2.4	Motivation Viewpoint	None
C.3	Strategy Viewpoints	KLP 14.4.2 (1) (2) Description and overview for examples of Strategy viewpoints
C.3.1	Strategy Viewpoint	None
C.3.2	Capability Map Viewpoint	None
C.3.3	Value Stream Viewpoint	None
C.3.4	Outcome Realization Viewpoint	None

C.3.5	Resource Map Viewpoint	None
C.4	Implementation and Migration Viewpoints	None
C.4.1	Project Viewpoint	None
C.4.2	Migration Viewpoint	None
C.4.3	Implementation and Migration Viewpoint	None
D. Relationship to Other Standards, Specifications, and Guidance Documents		
D.1	The TOGAF Framework	None
D.2	The BIZBOK Guide	None
D.3	The BPMN Standard	None
D.4	The UML Standard	None
D.5	The BMM Standard	None
E	Changes from Version 2.1 to Version 3.1	None
E.1	Changes from Version 2.1 to Version 3.0.1	None
E.2	Changes from Version 3.0.1 to Version 3.1	None