





#### About the ArchiMate® 3.1 Specification

The ArchiMate® Specification, a standard of The Open Group, is an open and independent modeling language for Enterprise Architecture that is supported by different tool vendors and consulting firms. The ArchiMate language enables Enterprise Architects to describe, analyze, and visualize the relationships among architecture domains in an unambiguous way.

Just as an architectural drawing in classical building architecture describes the various aspects of the construction and use of a building, the ArchiMate Specification offers a common language for describing the construction and operation of business processes, organizational structures, information flows, IT systems, and technical and physical infrastructure. This insight helps stakeholders to design, assess, and communicate the consequences of decisions and changes within and between these architecture domains.

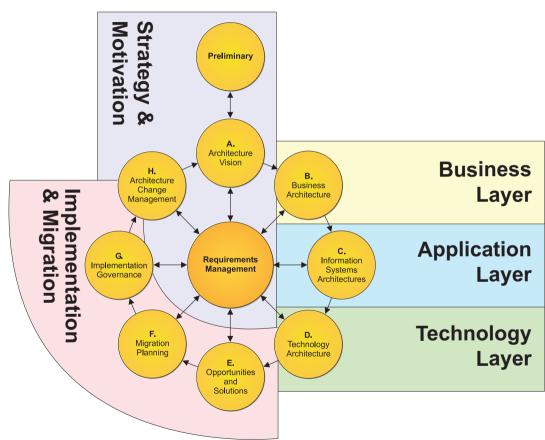
The main changes between Version 3.0.1 and Version 3.1 of the ArchiMate Specification are listed below:

- Introduced a new strategy element: value stream
- Added an optional directed notation for the association relationship
- Improved the organization of the metamodel and associated figures
- Further improved and formalized the derivation of relationships

In addition to these changes, various other minor improvements in definitions and other wording have been made.

### **ArchiMate® 3.1 Specification Mapping to the TOGAF® ADM**





### **ArchiMate® 3.1 Specification Relationships**



Structural Rela	ationships	Notation
Composition	Represents that an element consists of one or more other concepts.	•
Aggregation	Represents that an element combines one or more other concepts.	<b>\$</b>
Assignment	Represents the allocation of responsibility, performance of behavior, storage, or execution.	•
Realization	Represents that an entity plays a critical role in the creation, achievement, sustenance, or operation of a more abstract entity.	
Dependency R	Relationships	Notation
Serving	Represents that an element provides its functionality to another element.	<b>──</b>
Access	Represents the ability of behavior and active structure elements to observe or act upon passive structure elements.	
Influence	Represents that an element affects the implementation or achievement of some motivation element.	+/-
Association	Respesents an unspecified relationship, or one that is not represented by another Archimate relationship.	
Dynamic Relat	tionships	Notation
Triggering	Represents a temporal or causal relationship between elements.	
Flow	Represents transfer from one element to another.	
Other Relationships		Notation
Specialization	Represents that an element is a particular kind of another element.	<b>─</b>
Relationship C	Notation	
Junction	Used to connect relationships of the same type.	(And) Junction Or Junction

#### **Motivation Elements**



Element	Definition	Notation
Stakeholder	Represents the role of an individual, team, or organization (or classes thereof) that represents their interests in the effects of the architecture.	Stakeholder
Driver	Represents an external or internal condition that motivates an organization to define its goals and implement the changes necessary to achieve them.	Driver
Assessment	Represents the result of an analysis of the state of affairs of the enterprise with respect to some driver.	Assessment
Goal	Represents a high-level statement of intent, direction, or desired end state for an organization and its stakeholders.	Goal
Outcome	Represents an end result.	Outcome

#### **Motivation Elements – continued**



Element	Definition	Notation
Principle	Represents a statement of intent defining a general property that applies to any system in a certain context in the architecture.	Principle []
Requirement	Represents a statement of need defining a property that applies to a specific system as described by the architecture.	Requirement
Constraint	Represents a factor that limits the realization of goals.	Constraint
Meaning	Represents the knowledge or expertise present in, or the interpretation given to, a concept in a particular context.	Meaning
Value	Represents the relative worth, utility, or importance of a concept.	Value

## **ArchiMate® 3.1 Specification Strategy Elements**



Element	Definition	Notation
Resource	Represents an asset owned or controlled by an individual or organization.	Resource
Capability	Represents an ability that an active structure element, such as an organization, person, or system, possesses.	Capability
Value stream	Represents a sequence of activities that create an overall result for a customer, stakeholder, or end user.	Value stream
Course of action	Represents an approach or plan for configuring some capabilities and resources of the enterprise, undertaken to achieve a goal.	Course of action

## **ArchiMate® 3.1 Specification Business Layer**



Element	Definition	Notation
Business actor	Represents a business entity that is capable of performing behavior.	Business A actor
Business role	Represents the responsibility for performing specific behavior, to which an actor can be assigned, or the part an actor plays in a particular action or event.	Business role
Business collaboration	Represents an aggregate of two or more business internal active structure elements that work together to perform collective behavior.	Business collaboration
Business interface	Represents a point of access where a business service is made available to the environment.	Business interface —
Business process	Represents a sequence of business behaviors that achieves a specific result such as a defined set of products or business services.	Business process
Business function	Represents a collection of business behavior based on a chosen set of criteria (typically required business resources and/or competencies), closely aligned to an organization, but not necessarily explicitly governed by the organization.	Business function

## **ArchiMate® 3.1 Specification Business Layer – continued**



Element	Definition	Notation
Business interaction	Represents a unit of collective business behavior performed by (a collaboration of) two or more business actors, business roles, or business collaborations.	Business interaction
Business event	Represents an organizational state change.	Business event
Business service	Represents explicitly defined behavior that a business role, business actor, or business collaboration exposes to its environment.	Business service
Business object	Represents a concept used within a particular business domain.	Business object
Contract	Represents a formal or informal specification of an agreement between a provider and a consumer that specifies the rights and obligations associated with a product and establishes functional and non-functional parameters for interaction.	Contract
Representation	Represents a perceptible form of the information carried by a business object.	Representation
Product	Represents a coherent collection of services and/or passive structure elements, accompanied by a contract/set of agreements, which is offered as a whole to (internal or external) customers.	Product

## **ArchiMate® 3.1 Specification Application Layer**



Element	Definition	Notation
Application component	Represents an encapsulation of application functionality aligned to implementation structure, which is modular and replaceable.	Application component
Application collaboration	Represents an aggregate of two or more application internal active structure elements that work together to perform collective application behavior.	Application © collaboration
Application interface	Represents a point of access where application services are made available to a user, another application component, or a node.	Application interface
Application function	Represents automated behavior that can be performed by an application component.	Application function
Application interaction	Represents a unit of collective application behavior performed by (a collaboration of) two or more application components.	Application interaction
Application process	Represents a sequence of application behaviors that achieves a specific result.	Application process
Application event	Represents an application state change.	Application event
Application service	Represents an explicitly defined exposed application behavior.	Application service
Data object	Represents data structured for automated processing.	Data object

### **ArchiMate® 3.1 Specification Technology Layer**



Element	Definition	Notati	on
Node	Represents a computational or physical resource that hosts, manipulates, or interacts with other computational or physical resources.	Node	
Device	Represents a physical IT resource upon which system software and artifacts may be stored or deployed for execution.	Device	
System software	Represents software that provides or contributes to an environment for storing, executing, and using software or data deployed within it.	System Software	
Technology collaboration	Represents an aggregate of two or more technology internal active structure elements that work together to perform collective technology behavior.	Technology collaboration	0
Technology interface	Represents a point of access where technology services offered by a node can be accessed.	Technology interface	-
Path	Represents a link between two or more nodes, through which these nodes can exchange data, energy, or material.	Path	<b>⟨···⟩</b>
Communication network	Represents a set of structures and behaviors that connects nodes for transmission, routing, and reception of data.	Communication 22 network	$\leftrightarrow$

## **ArchiMate® 3.1 Specification** Technology Layer – continued



Element	Definition	Notatio	on
Technology function	Represents a collection of technology behavior that can be performed by a node.	Technology function	
Technology process	Represents a sequence of technology behaviors that achieves a specific result.	Technology process	
Technology interaction	Represents a unit of collective technology behavior performed by (a collaboration of) two or more nodes.	Technology interaction	
Technology event	Represents a technology state change.	Technology event	
Technology service	Represents an explicitly defined exposed technology behavior.	Technology service	
Artifact	Represents a piece of data that is used or produced in a software development process, or by deployment and operation of an IT system.	Artifact	

#### **Physical Elements**



Element	Definition	Notation
Equipment	Represents one or more physical machines, tools, or instruments that can create, use, store, move, or transform materials.	Equipment
Facility	Represents a physical structure or environment.	Facility In
Distribution network	Represents a physical network used to transport materials or energy.	Distribution network
Material	Represents tangible physical matter or energy.	Material (

### **ArchiMate® 3.1 Specification Implementation and Migration Elements**



Element	Definition	Notation
Work package	Represents a series of actions identified and designed to achieve specific results within specified time and resource constraints.	Work package
Deliverable	Represents a precisely-defined result of a work package.	Deliverable
Implementation event	Represents a state change related to implementation or migration.	Implementation event
Plateau	Represents a relatively stable state of the architecture that exists during a limited period of time.	Plateau
Gap	Represents a statement of difference between two plateaus.	Gap 🕀

## **ArchiMate® 3.1 Specification Composite Elements**



Element	Definition	Notation
Grouping	The grouping element aggregates or composes concepts that belong together based on some common characteristic.	Grouping
Location	A location is a place or position where structure elements can be located or behavior can be performed.	Location



#### About The Open Group

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- Services provided include strategy, management, innovation and research, standards, certification, and test development.
- Over 90,000 TOGAF® 9 certifications worldwide

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