An Introduction to the ArchiMate® 2.1 Notation

Business Layer
Application Layer
Technology Layer

Core Concepts

Active Structures

Business Actor
An organizational entity that is capable of performing behavior

Business Role
The responsibility for performing specific behavior, to which an actor can be assigned

Business Interface
A point of access where a business service is made available to the environment

Business Collaboration
An aggregate of two or more business roles that work together to perform collective behavior

Location
A conceptual point or extent in space

Application Component
A modular, deployable, & replaceable part of a system that encapulates its contents & exposes its functionality through a set of interfaces

Application Interface
A point of access where an application service is made available to a user or another application component

Application Collaboration
An aggregate of two or more application components that work together to perform collective behavior

Node
A computational resource upon which artifacts may be deployed for execution

Network
A physical communication medium between two or more devices

Device
A hardware resource upon which artifacts may be stored or deployed for execution

Infrastructure Interface
A point of access where infrastructure services offered by a node can be accessed by other nodes and application components

Communication Path
A link between two or more nodes, through which these nodes can exchange information

System Software
A software environment for specific types of components & objects that are deployed on it in the form of artifacts

Behavioral

Business Event
Something that happens (internally or externally) & influences behavior

Business Interaction
Describes the behavior of a business collaboration

Business Process
A behavior element that groups behavior based on an ordering of activities. It is intended to produce a defined set of products or business services

Business Service
A service that fulfills a business need for a customer (internal or external to the organization)

Business Function
A behavior element that groups behavior based on a chosen set of criteria (typically required business resources and/or competences)

Application Function
Groups automated behavior that can be performed by an application component

Application Interaction
Describes the behavior of an application collaboration

Application Service
A service that exposes automated behavior

Infrastructure Service
An externally visible unit of functionality, provided by one or more nodes, exposed through well-defined interfaces, & meaningful to the environment

Infrastructure Function
A behavior element that groups infrastructural behavior that can be performed by a node

Passive Structures

Representation
The perceptible form of the information carried by a business object

Meaning
The knowledge or expertise present in the representation of a business object, given a particular context

Business Object
A passive element that has relevance from a business perspective

Value
Value is defined as the relative worth, utility, or importance of a business service or product

Product
A coherent collection of services, accompanied by a contract/set of agreements, which is offered as a whole to (internal or external) customers

Contract
A formal or informal specification of agreement that specifies the rights & obligations associated with a product

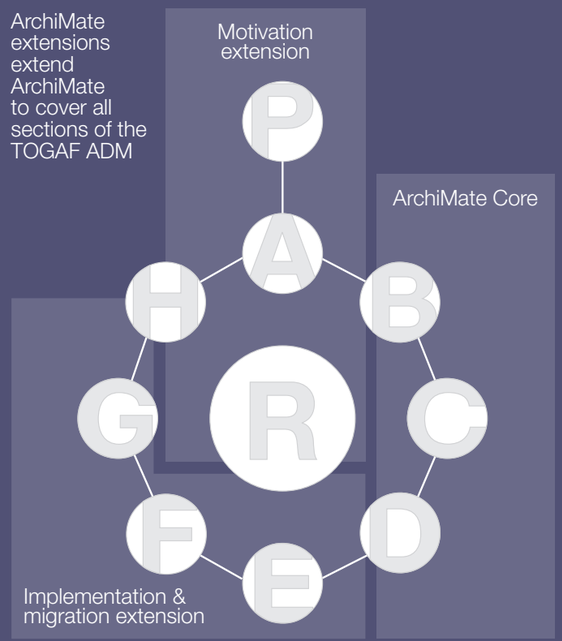
Data Object
A passive element suitable for automated processing

Artifact
A physical piece of data that is used or produced in a software development process, or by deployment and operation of a system

Extensions

TOGAF® 9 Scope of Extensions

ArchiMate extensions extend ArchiMate to cover all sections of the TOGAF ADM



Motivation Extension Object Types

Stakeholder
An individual, team or organization with an interest in the outcome of the architecture

Driver
Something that creates, motivates, & fuels the change in an organization

Requirement
A statement of need that must be realized by a system

Principle
A normative property of all systems in a given context, or the way in which they are realized

Assessment
An assessment is defined as the outcome of some analysis of some driver

Constraint
A restriction on the way in which a system is realized

Goal
An end state that a stakeholder intends to achieve

Influence
Aggregation
Realization

Implementation & Migration Extension Object Types

Work Package
A series of actions designed to accomplish a unique goal within a specified time

Gap
An outcome of a gap analysis between two plateaus

Plateau
A relatively stable state of the architecture that exists during a limited period of time

Deliverable
A precisely-defined outcome of a work package

Core Relationship Types

Structural

Composition
Assignment
Access
Aggregation
Used By
Association
Realization

Dynamic

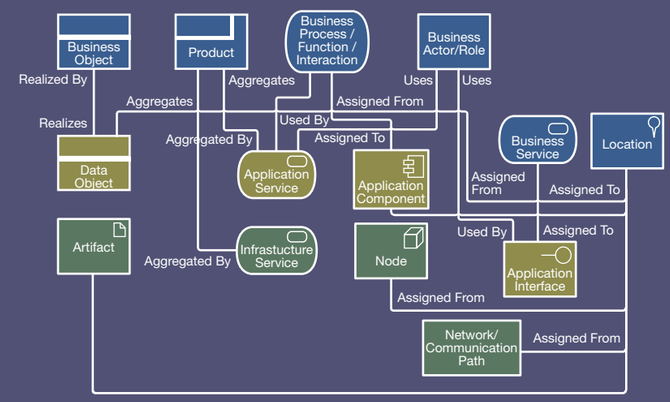
Flow
Trigger

Other

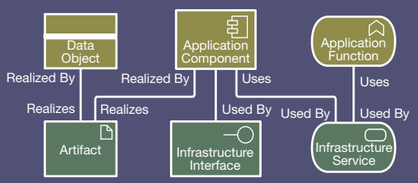
Group
Specialization
Junction

Cross-Layer Dependencies

Business Layer Alignment



Application-Technology Alignment



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