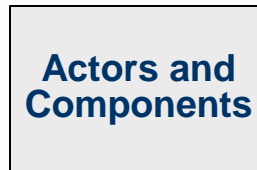


# ArchiMate Symbols for system elements

Including diagrams and definitions edited from the ArchiMate 2.1 standard.  
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▶ A business system is

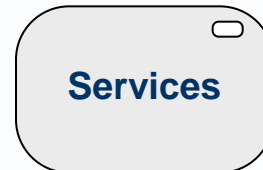
- a collection of



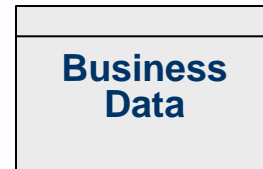
- who perform

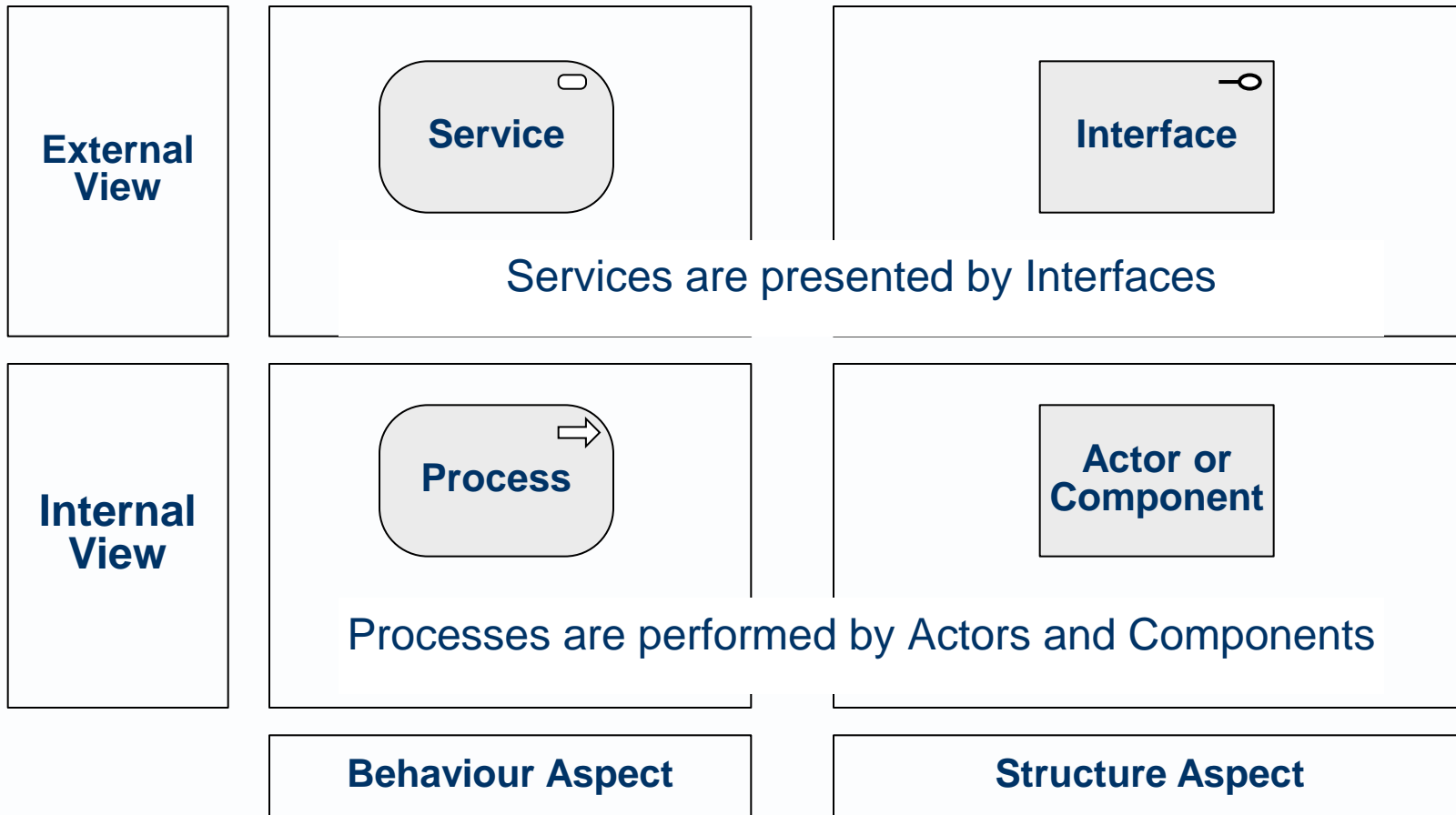


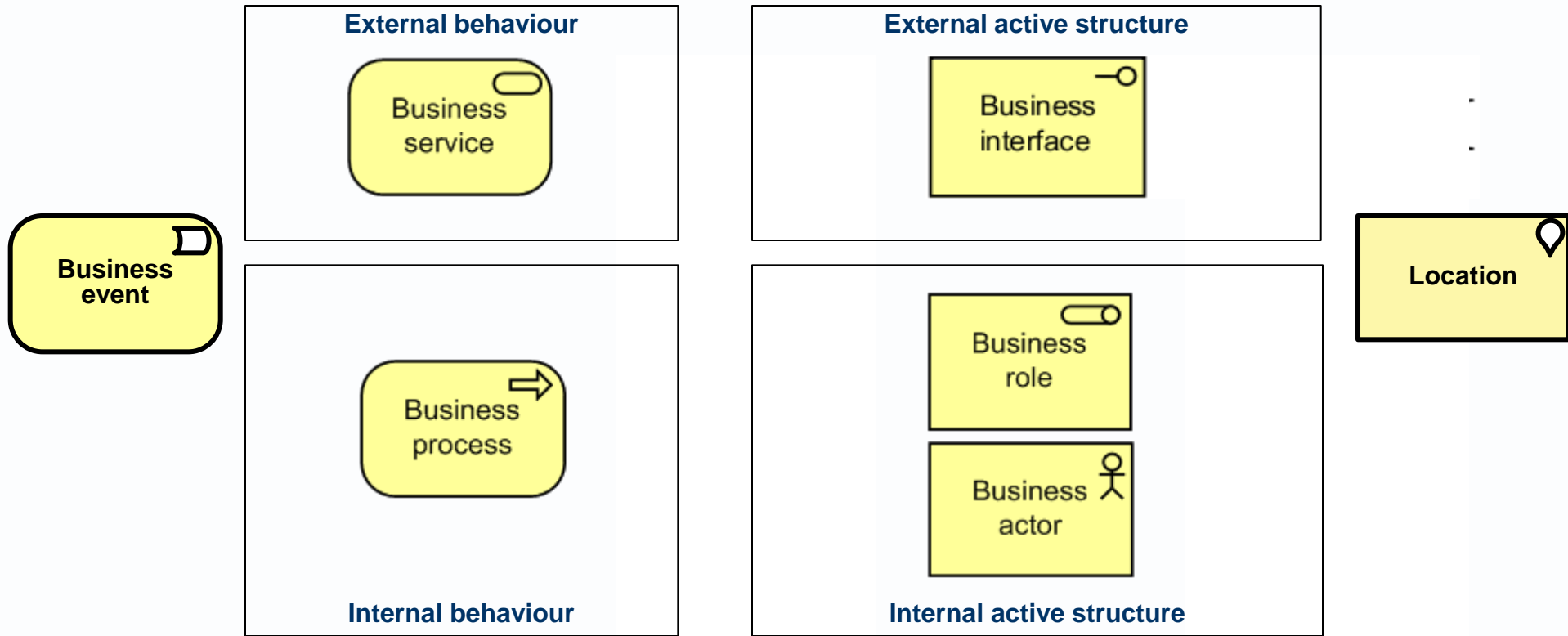
- to deliver



- and/or maintain

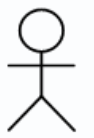
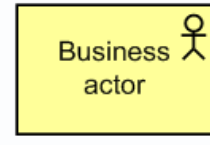
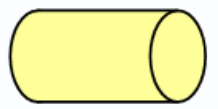
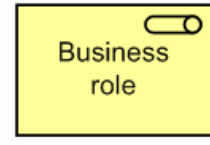
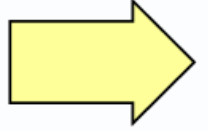
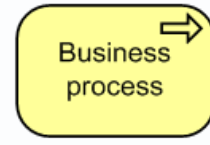
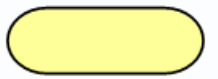
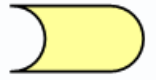






# Business domain: key elements

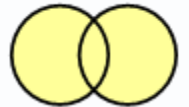
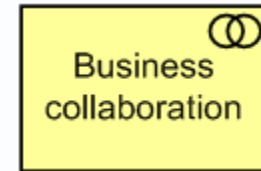
- ▶ **Business event:** Something that happens (internally or externally) and influences behavior.
- ▶ **Business service:** A service that fulfills a business need for a customer (internal or external to the organization).
- ▶ **Business interface:** A point of access where a business service is made available to the environment.
- ▶ **Business function:** A behavior element that groups behavior based on chosen criteria (typically resources or competences).
- ▶ **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 role:** The responsibility for performing specific behavior, to which an actor can be assigned.
- ▶ **Business actor:** An organizational entity that is capable of performing behavior.



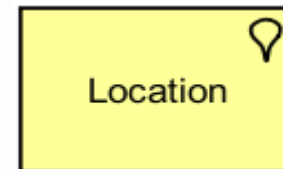
▶ **Business interaction:** A behavior element that describes the behavior of a business collaboration.



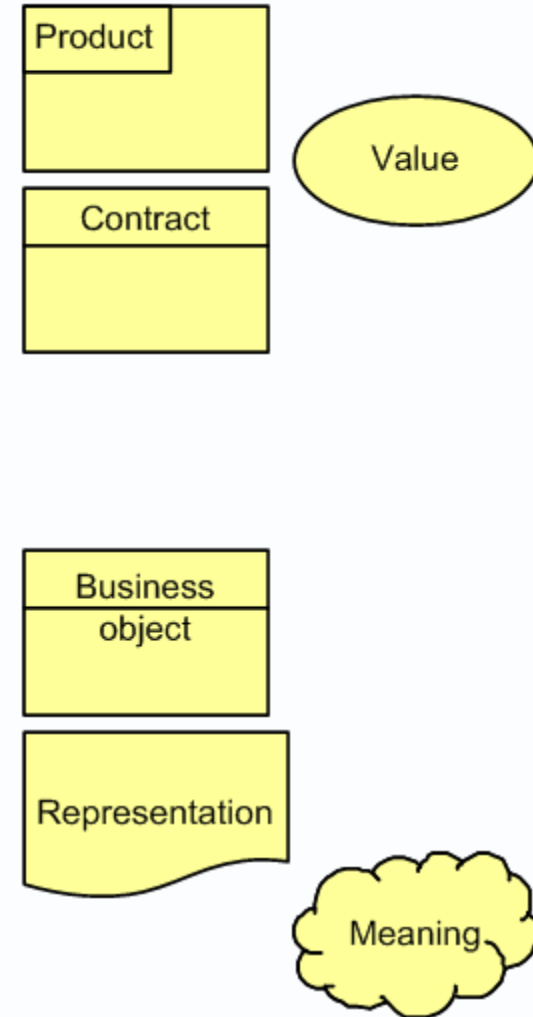
▶ **Business collaboration:** An aggregate of two or more business roles that work together to perform collective behavior.



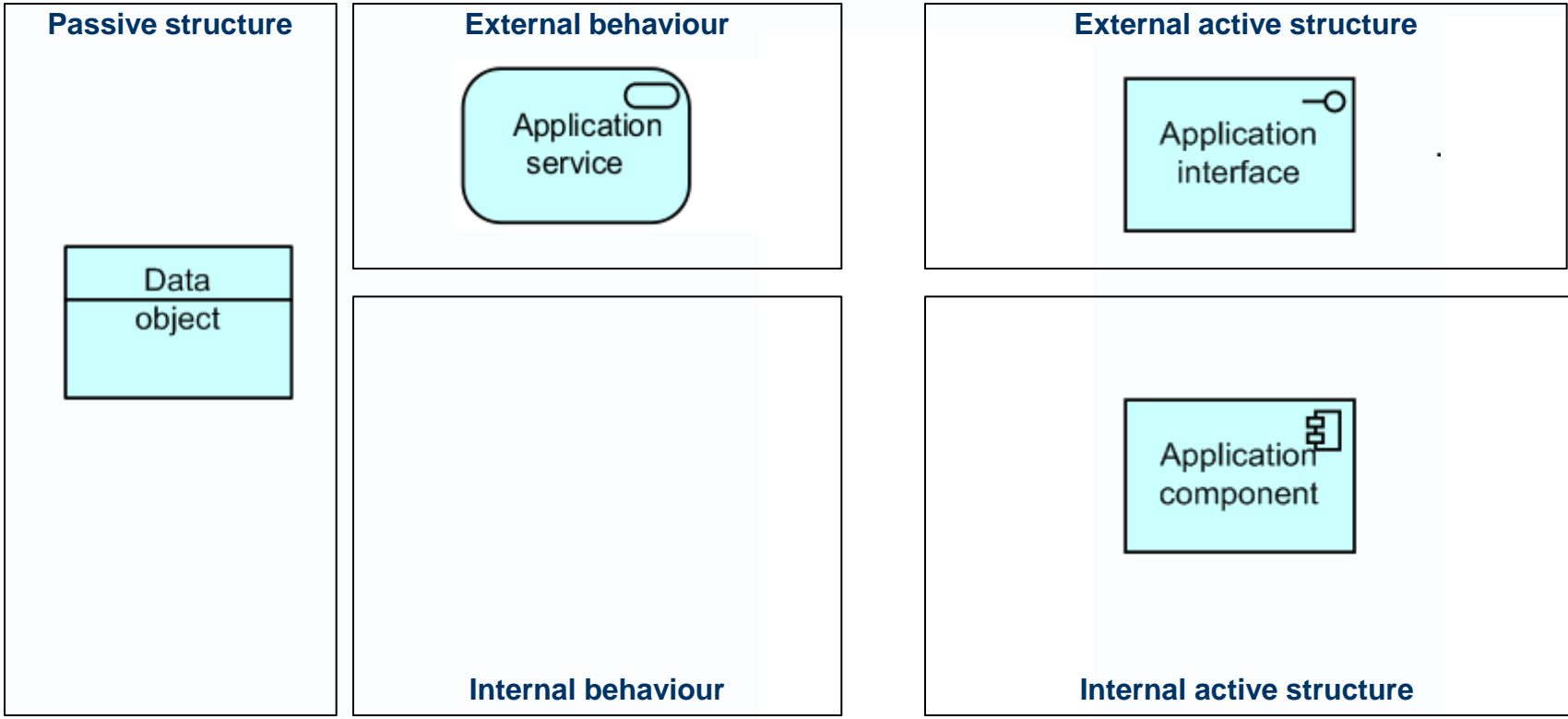
▶ **Location:** A conceptual point or extent in space.



- ▶ **Product:** A coherent collection of services, accompanied by a contract/set of agreements, which is offered as a whole to (internal or external) customers.
- ▶ **Value:** The relative worth, utility, or importance of a business service or product.
- ▶ **Contract:** A formal or informal specification of agreement that specifies the rights and obligations associated with a product.
  
- ▶ **Business object:** A passive element that has relevance from a business perspective.
- ▶ **Representation:** A perceptible form of the information carried by a business object.
- ▶ **Meaning:** The knowledge or expertise present in a business object or its representation, given a particular context.



# Applications domain – core elements





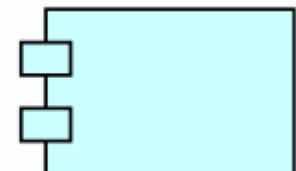
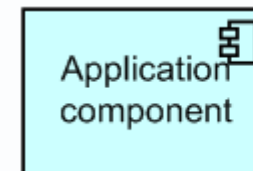
▶ **Application service:** A service that exposes automated behavior.



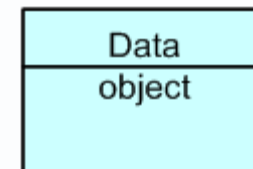
▶ **Application interface:** A point of access where an application service is made available to a user or another application component.



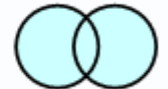
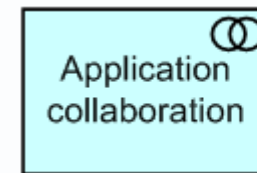
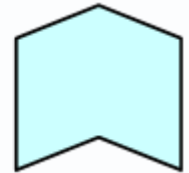
▶ **Application component:** A modular, deployable, and replaceable part of a software system that encapsulates its behavior and data and exposes these through a set of interfaces.



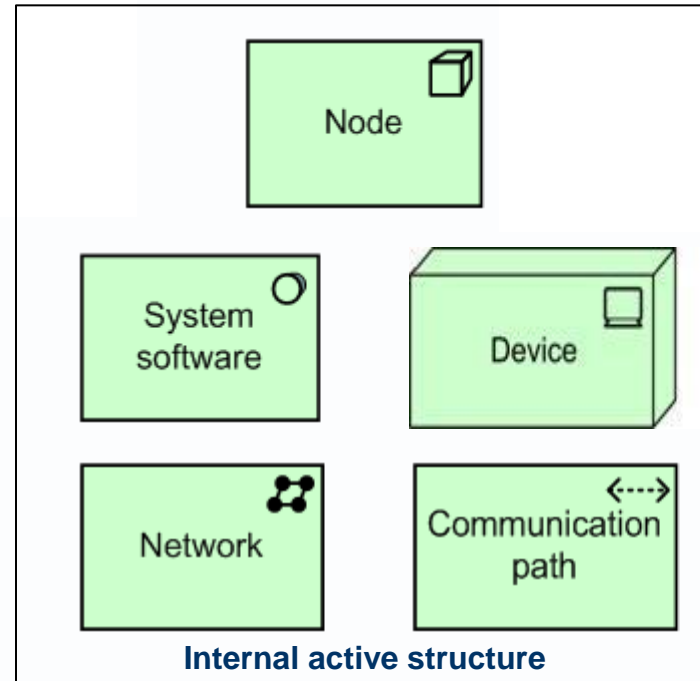
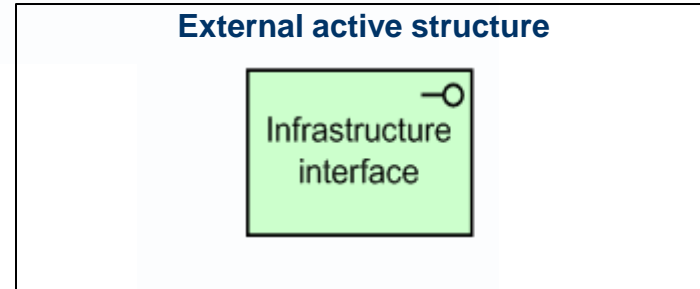
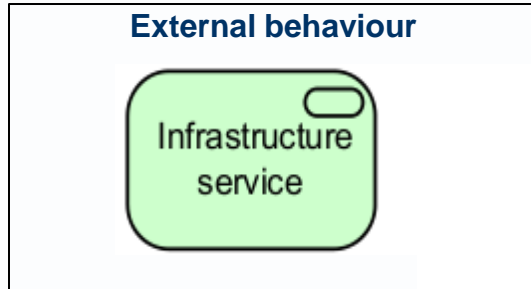
▶ **Data object:** A passive element suitable for automated processing.



- ▶ **Application function:** A behavior element that groups automated behavior that can be performed by an application component.
- ▶ **Application interaction:** A behavior element that describes the behavior of an application collaboration.
- ▶ **Application collaboration:** An aggregate of two or more application components that work together to perform collective behavior.

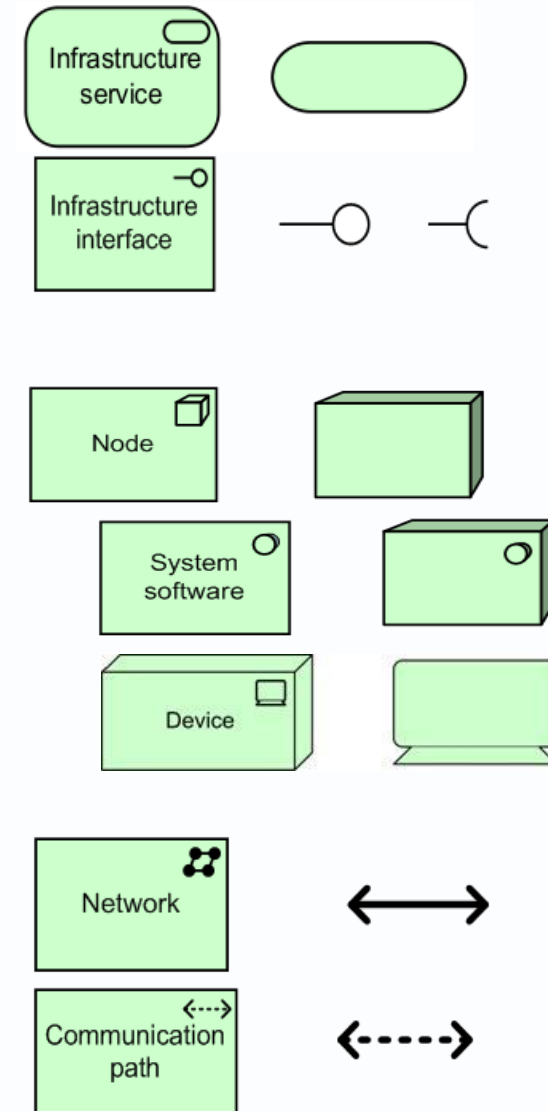


# Infrastructure technology domain – core elements



# Infrastructure technology domain: key elements

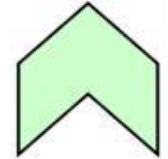
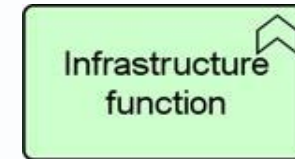
- ▶ **Infrastructure service:** An externally visible unit of functionality, provided by one or more nodes, exposed through well-defined interfaces, and meaningful to the environment.
- ▶ **Infrastructure interface:** A point of access where infrastructure services offered by a node can be accessed by other nodes and application components.
- ▶ **Node:** A computational resource upon which artifacts may be stored or deployed for execution.
  - **System software:** A software environment for specific types of components and objects that are deployed on it in the form of artifacts.
  - **Device:** A hardware resource upon which artifacts may be stored or deployed for execution.
- ▶ **Network:** A communication medium between two or more devices.
- ▶ **Communication path:** A link between two or more nodes, through which these nodes can exchange data.



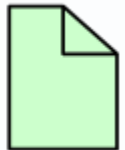
- ▶ This shows MQ as the technology used in communication path



- ▶ **Infrastructure function:** A behavior element that groups infrastructural behavior that can be performed by a node.



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



# Motivation extension

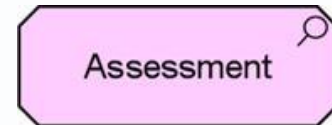
**Stakeholder:** The role of an individual, team, or organization (or classes thereof) that represents their interests in, or concerns relative to, the outcome of the architecture.



**Driver:** Something that creates, motivates, and fuels the change in an organization.



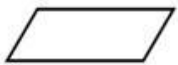
**Assessment:** The outcome of some analysis of some driver.



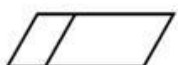
**Goal:** An end state that a stakeholder intends to achieve.



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

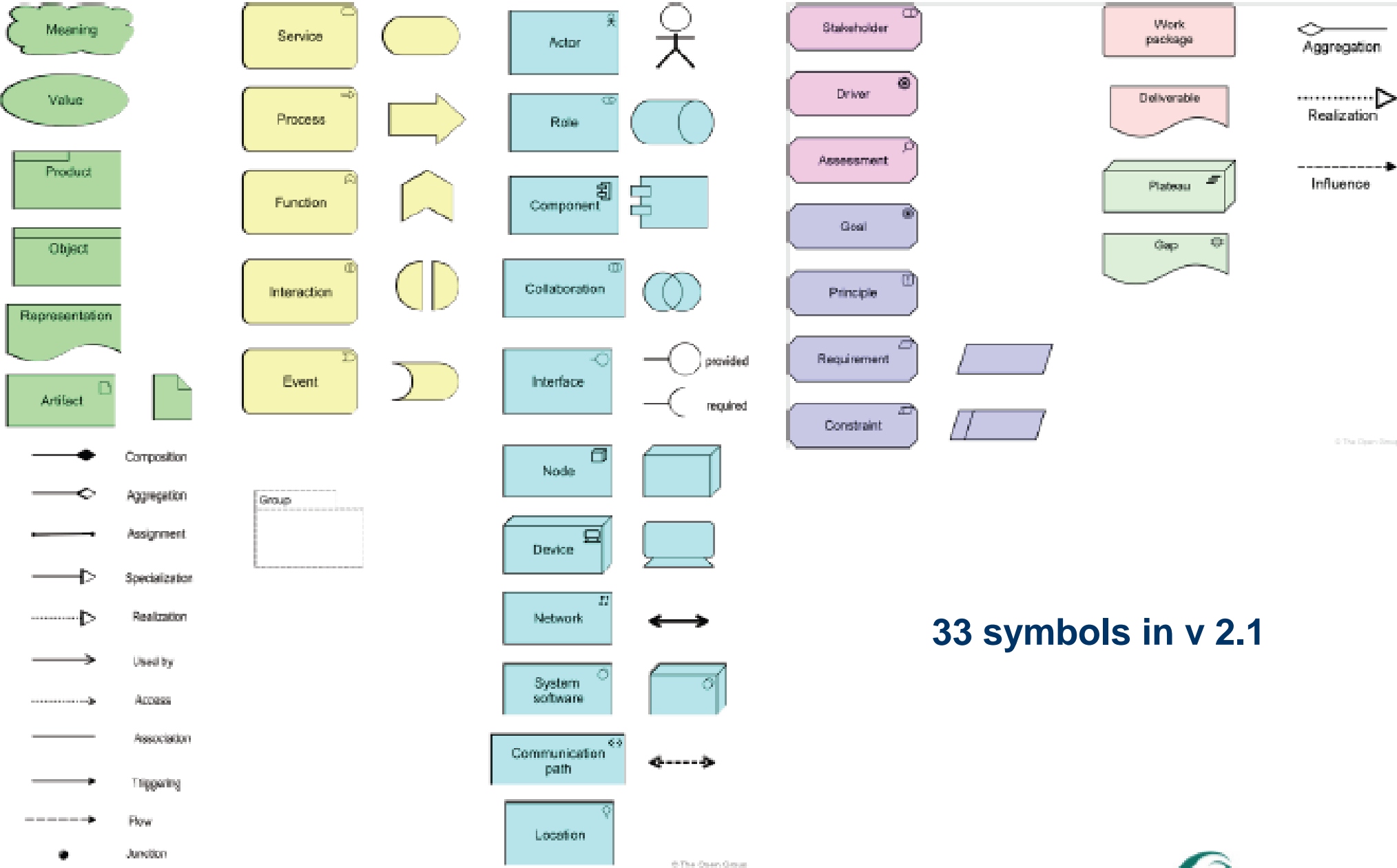


**Constraint:** A restriction on the way in which a system is realized.



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





33 symbols in v 2.1



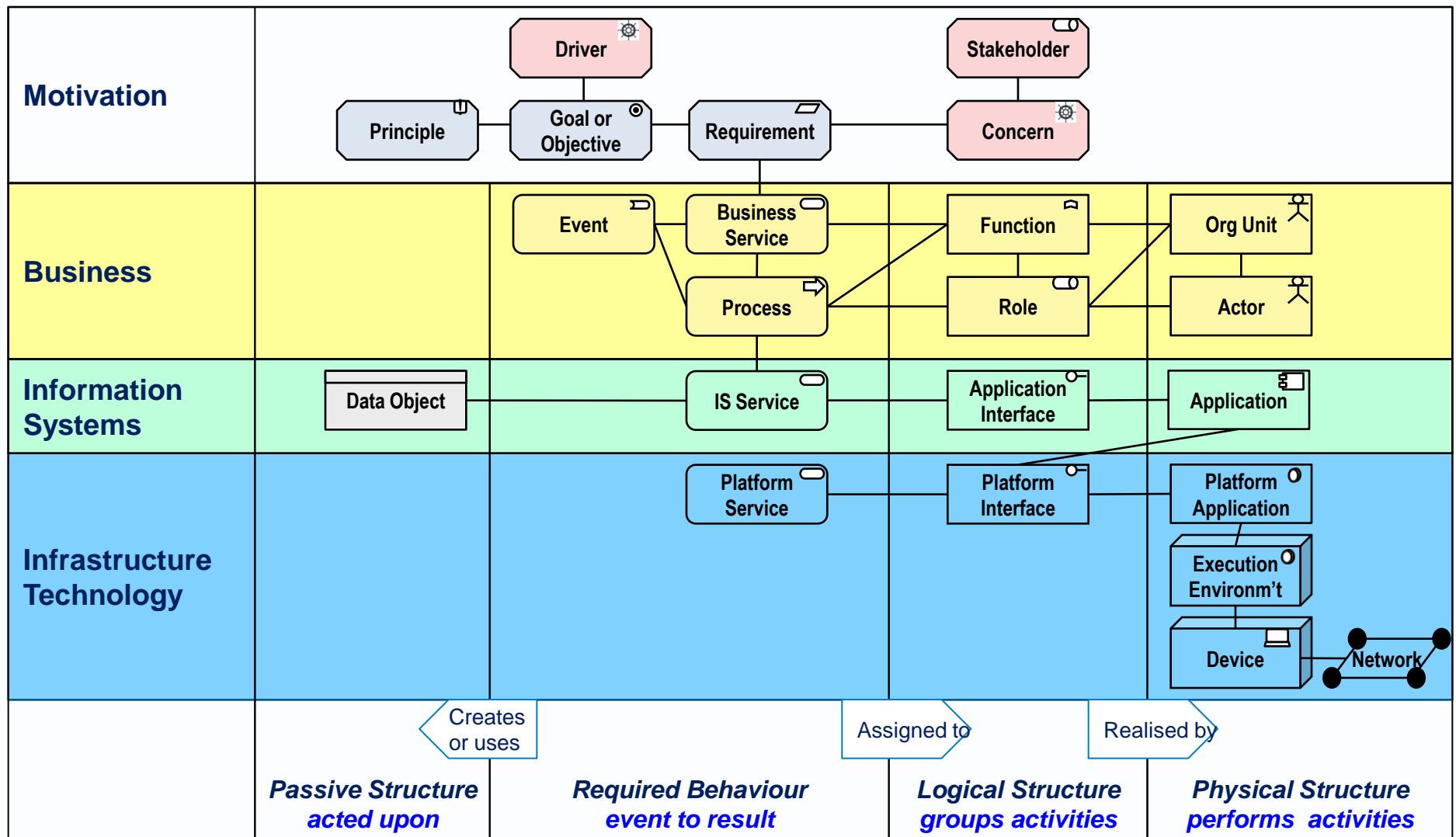
# 39 symbols in v3

▶ Draft

Business actor		Application component		Path	
Business role		Application collaboration		Communication Network	
Business collaboration		Application interface		Technology process	
Business interface		Application process		Technology function	
Business process		Application function		Technology service	
Business function		Application interaction		Technology event	
Business interaction		Application service		Technology object	
Business service		Application event		Artifact	
Business event		Data object		Facility	
Business object		Node		Equipment	
Contract		Device		Distribution network	
Representation		System software		Material	
Product		Technology interface		Location	



# 23 symbols used in architect training courses



# 16 of the symbols used today

