

ArchiMate symbols for relating system elements

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From source on left to target on the right

Composition 

Triggering 

Aggregation 

Flow 

Assignment 

Association 

Realisation 

Specialisation 

Serving 

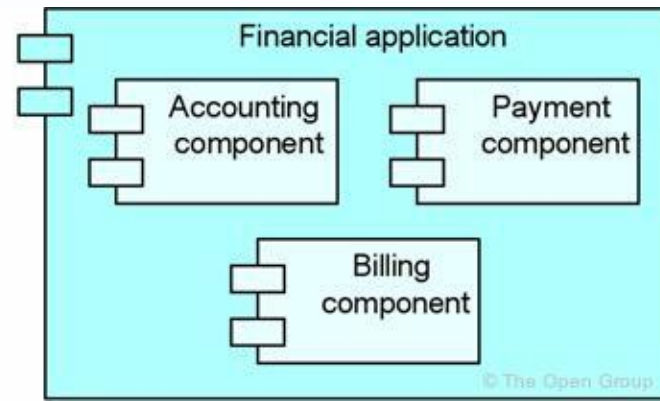
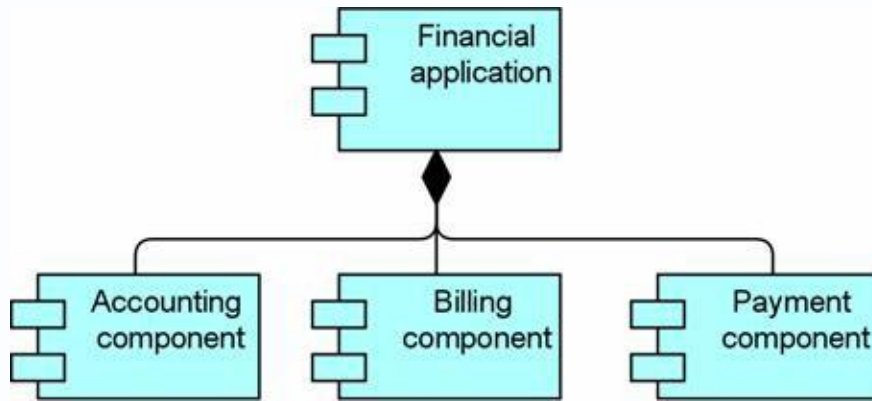
Junction 

Access 

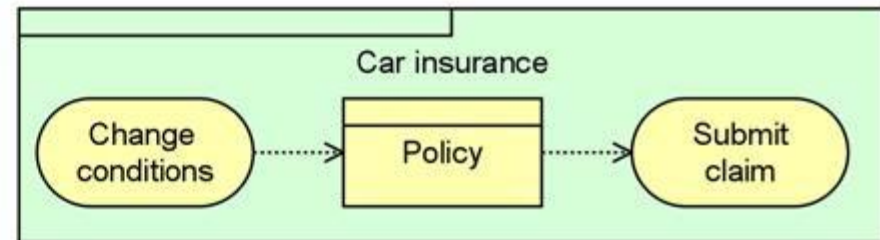
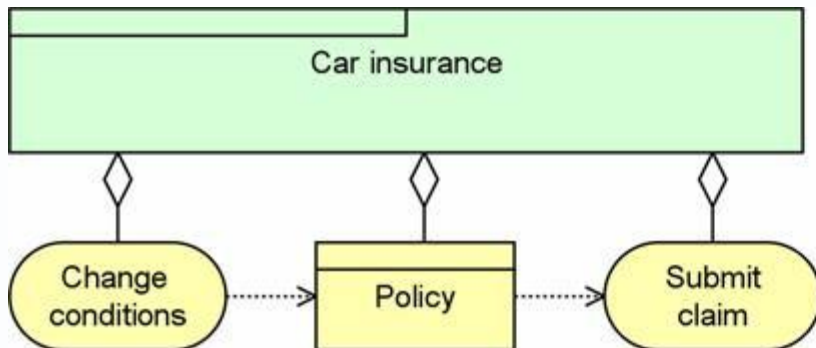
Influence 

Composition v Aggregation

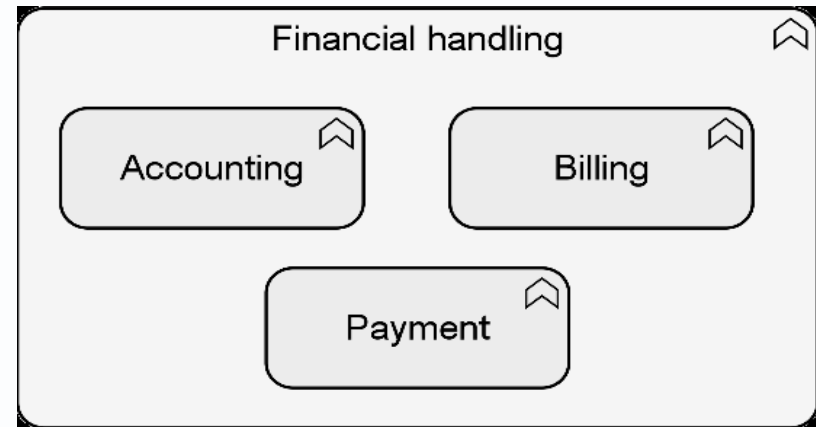
- ▶ An element **consists of** one or more other elements (part in one composite)



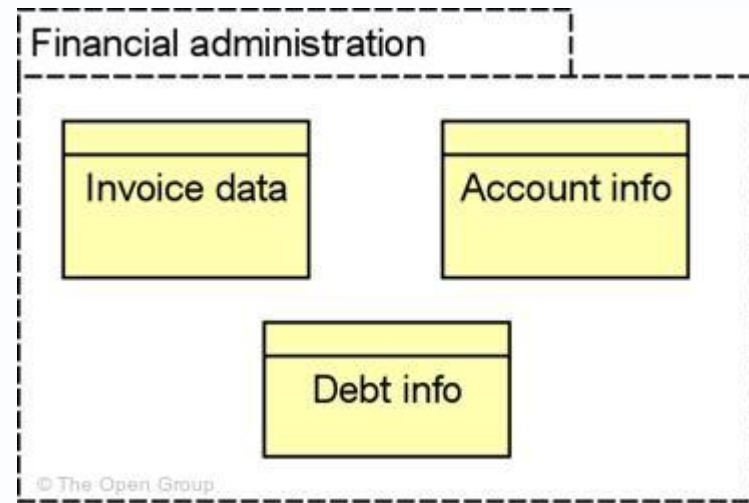
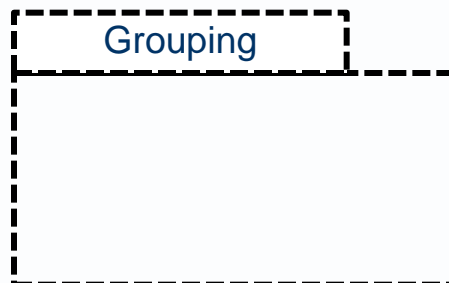
- ▶ An element **groups** a number of other elements (parts can be several groups)



- ▶ Recursive grouping of one element type

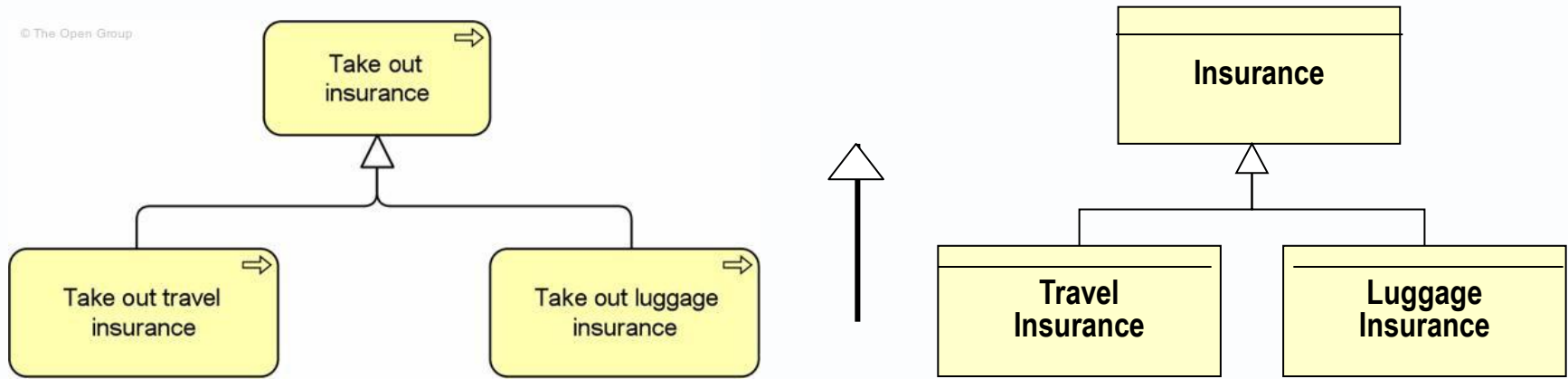


- ▶ Other grouping (of anything)



Abstraction by Generalisation

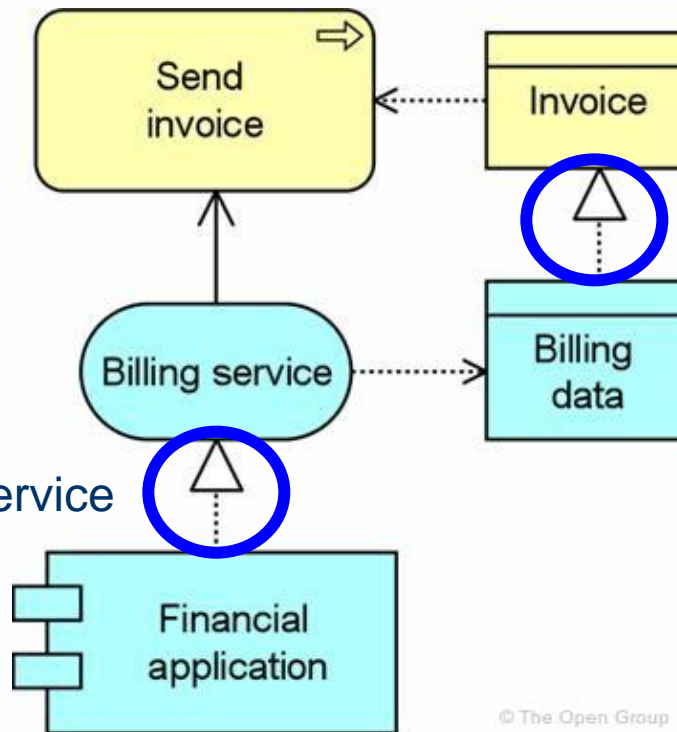
- ▶ An element specialises a more generic element
- ▶ (The super type is smaller than the sub type)



Abstraction by Idealisation

The realization relationship models that an entity plays a critical role in the creation, achievement, sustenance, or operation of a more abstract entity.

- ▶ A more concrete entity **realises** a more logical entity



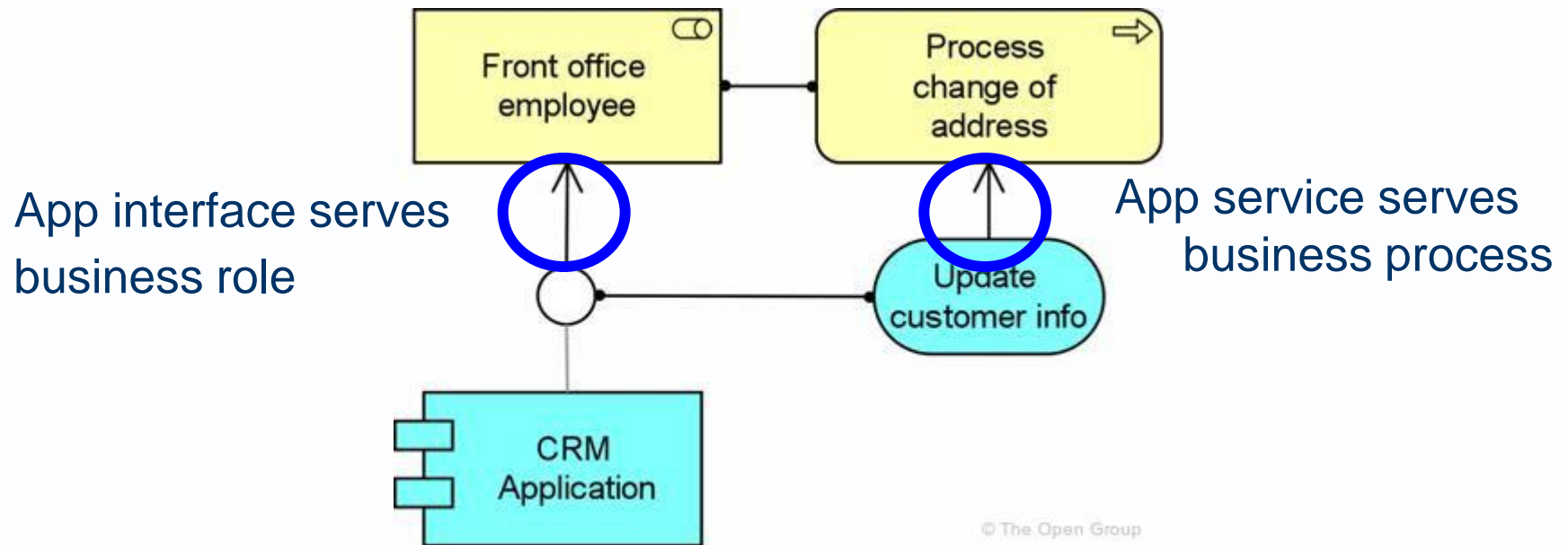
▶ Billing data realises Invoice

- ▶ Application realises Service

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Abstraction by Delegation

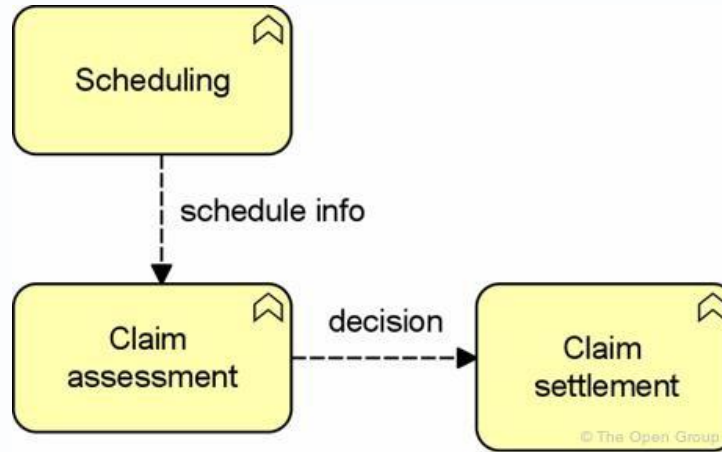
- ▶ Service used by (serves) Process, Function or Interaction
- ▶ Interface used by (accessed by) Role, Component, or Collaboration





Flow v Trigger

- ▶ Process, Function, Interaction or Event **transfers goods/data/value** to Process, Function, Interaction or Event.

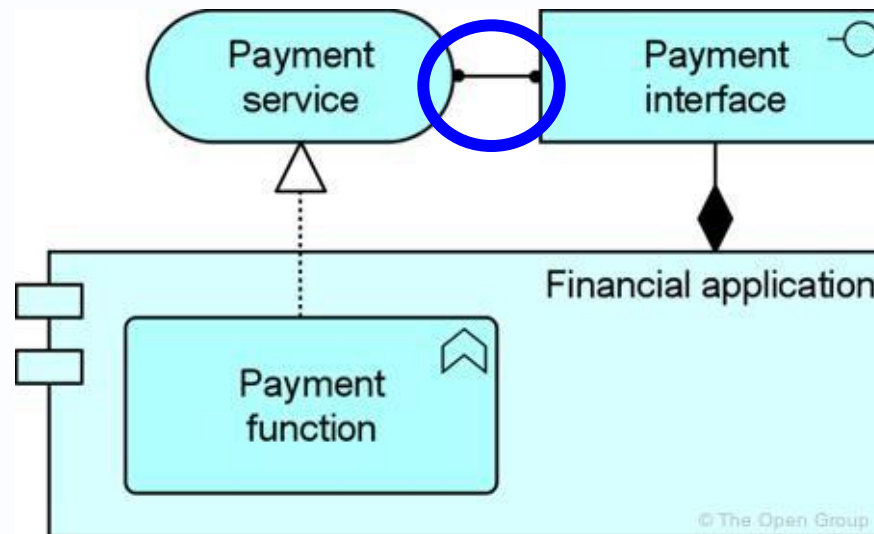


- ▶ Process, Function, Interaction or Event **triggers or causes** Process, Function, Interaction or Event



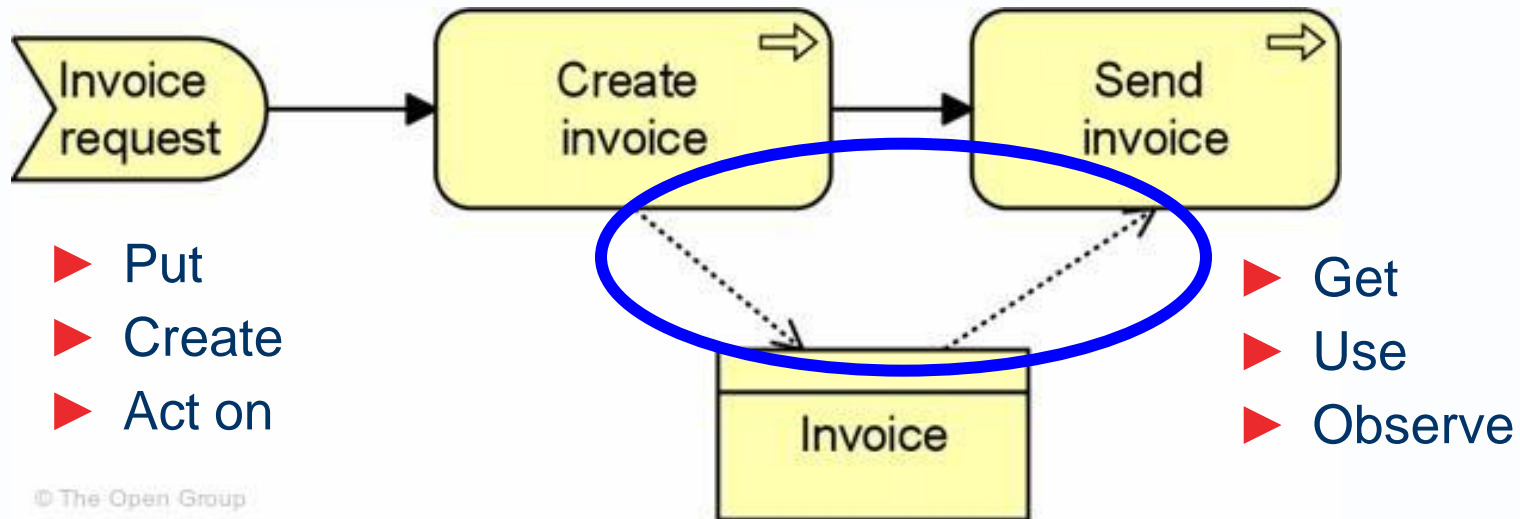
▶ Active element **assigned to** perform unit of behaviour

- Interface to Service
- Application to Function

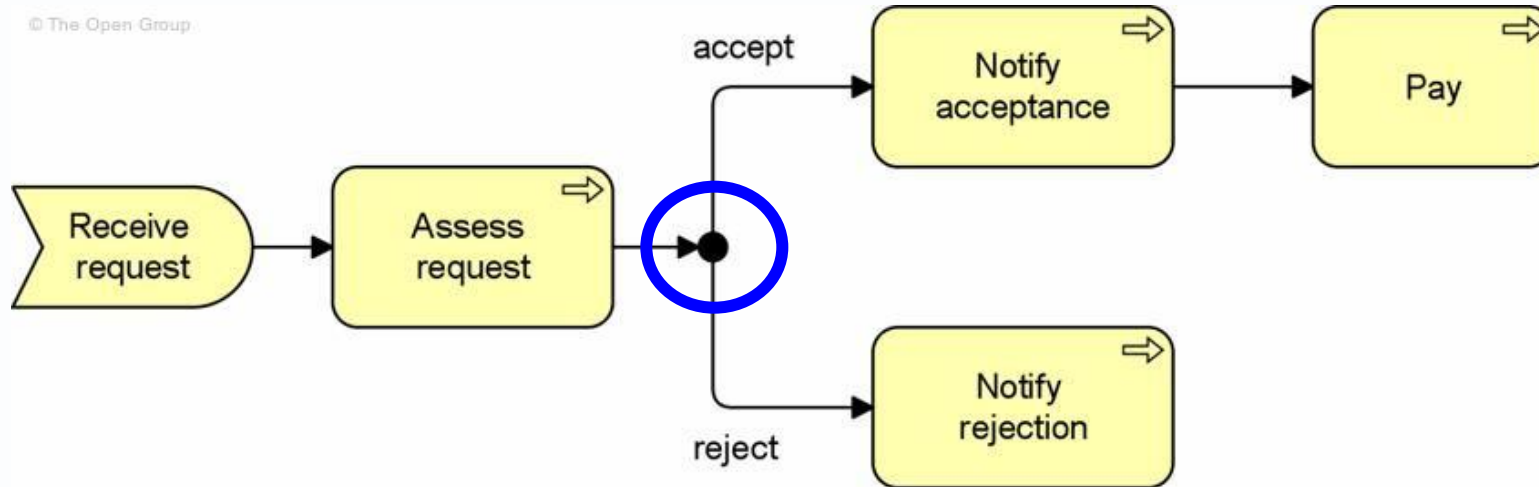


▶ Actor **assigned to** Role or Location

->
▶ Behavioural element observes or acts on business or data object
.....



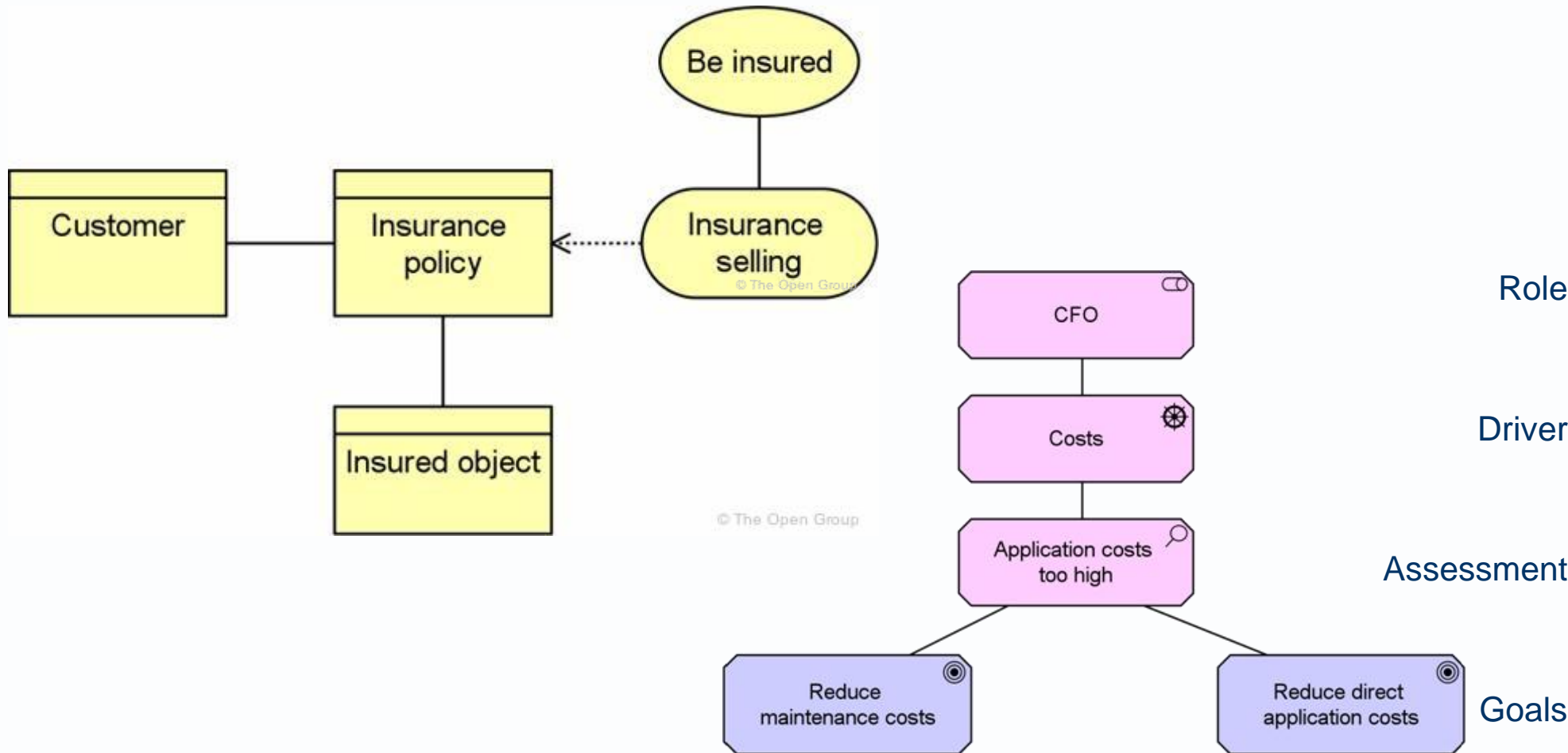
- ▶ Junctions are used to connect relationships of the same type



- ▶ To become AND or OR

Last but not least - Association

- ▶ Association - related in a way not covered by another, more specific relationship



From source on left to target on the right

Composition 

Triggering 

Aggregation 

Flow 

Assignment 

Association 

Realisation 

Specialisation 

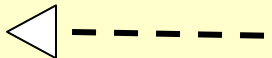
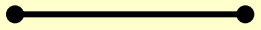
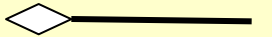
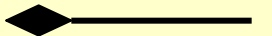
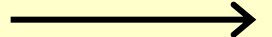

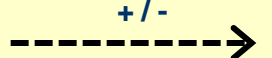
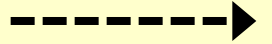
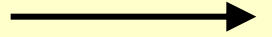
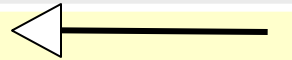
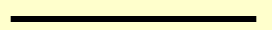
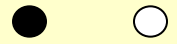
Serving 

Junction 



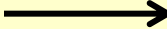

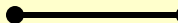



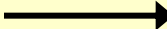



Access 

Influence 












ArchiMate Relationships

Structural	Source element	Symbol
Realization:	plays a critical role in the creation, achievement, sustenance, or operation of a more abstract entity	
Assignment:	is allocated responsibility for or performance of	
Aggregation:	groups a number of other elements	
Composition:	consists of one or more other elements	
Dependency		
Serving:	provides its functionality to another element	
Access:	observes or acts upon passive structure elements	
Influence:	affects the implementation or achievement of a motivation element (positively or negatively)	
Dynamic		
Flow:	exchanges or transfers information or value to another element	
Triggering:	triggers or causes another elements	
Other		
Specialization:	is a specialization of another element	
Association:	is related in a way not covered by another, more specific relationship.	
Junction:	Symbol used to connect relationships of the same type	

ArchiMate relationships and symbols

Source element	Relationship	Target element
Element	Association – is associated with 	Element
Behavioural element	Access – observes or acts on 	Business or data object
Service Interface	Used by – Serves accessed by 	Process, function or interaction Role, component, or collaboration
A more concrete element	Realization - realises 	A more abstract element
Active element Actor	Assignment – assigned to perform assigned to 	Unit of behaviour Role or location
An element	Aggregation - groups a number of 	Several other elements
An element	Composition - consists of 	One or more other elements (parts)
Process, function, interaction or event	Flow – transfers goods/data/value to 	Process, function, interaction or event.
Process, function, interaction or event	Triggering – triggers or causes 	Process, function, interaction or event
	Grouping - based on shared characteristic 	Objects of the same or different type
A relationship	Junction – connects 	A relationship of the same type
An element	Specialization - specialises 	A more generic element

ArchiMate and UML relationships and symbols

ArchiMate relationship		UML relationship
Association – is associated with		
Access – observes or acts on		Dependency
Used by – serves Used by – accessed by		Data flow sent (fire & forget) OR Trigger of Activity
Realization - realises		
Assignment – assigned to perform Assignment – assigned to		N/A
Aggregation - groups a number of		
Composition - consists of one or more		
Flow – transfers goods/information/value to		Data flow reply (request-reply) OR Includes (use case)
Triggering – triggers or causes		Data flow sent (request-reply)
Grouping - based on shared characteristic		Package
Junction – connects		N/A
Specialization - specialises		

A conceptual framework for Solution Architect training

