Represents that an element consists of one or more other concepts The composition relationship has been inspired by the composition relationship in UML class diagrams. Composition is a whole/part relationship that expresses an existence dependency: if a composite is deleted, its parts are ( normally) deleted as well. A composition relationship is always allowed between tow instances of the same element type. In addition, the metamodel explicitly defines other source and target elements that may be connected by a composition relationship Composition 组成 **Composition Notation** The intepretation of a composition relationship is that the whole or part of the source element is composed of the whole of the target element. The entity at the end with the diamond is the parent of the entity on the other end (the child) In contrast to the aggregation relationship, the composite concept can be part of only one composition Represents that an element combines one or more other concepts The aggregation relationship have been inspired by the aggregation relationship in UML class diagrams. Unlike composition, aggregation does not imply an existence dependency **Structural Relationships** Aggregation 聚合 **Aggregation Notation** The entity at the end with a blank diamond is considered to be the parent of the entity at the end without a diamond In contrast to the composition relationship, Expresses the allocation of responsibility, performance of behavior, or execution Assignment 分配 It always points from active structure to behavior, and from behavior to passive structure Indicates that an entity plays a critical role in the creation, achievement, sustenance, or operation of a more abstract entity Indicates that more abstract entities ("what" or "logical") are realized by means of more tangible entities (e.g., "how", or "physical", Realization 实现 The entity at the end without the arrow head realizes the entity at the end with an arrow head Models that an element affects the implementation or achievement of some motivation element Influence 影响 This is the weakest type of dependency, and is used to model how motivation elements are influenced by other elements Models the ability or behavior and active structure elements to observe or act upon passive structure elements Access 访问 AchiMate-05-Represents a data dependency, denoted by a dashed line Relationships **Dependency Relationships** Models that an element provides its functionality to another element Represents a control dependency, denoted by a solid line The serving relationship describers how the services or interfaces offered by a behavior or active structure element serve entities in their environment. This relationship is applied for both the behavior and active Serving 服务 structure aspects. The entity at the end without the arrow head serves the entity at the end with the arrow head. The Serving Relationship replaces the Used By Relationship Describes a temporal or causal relationship between elements in a process The usual interpretation of a triggering Triggering 触发 relationship is that the source element should be completed before the target element can start, although weaker interpretations are also premitted. **Dynamic Relationships** Transfer from one element to another Used to model the flow of, e.g., information, Flow 流程 goods, or money between behavior elements A flow relationship does not imply a causal relationship Specialization relationship has been inspired by the generalization relationship in UML class diagrams, but it applicable to specialize a wider range of concepts. Specialization 细分 The specialization relationship can relate any instance of a concept with another instance of the same concept **Ohter Relationships** The association relationship can be used when drawing a first highlevel model where relationships are initially denoted in a generic way, and later refined to show more specific relationship types Association 组合