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ArchiMate Elements Overview

All Concepts

ArchiMate® 3.0 Notation Overview

Generic Metamodel

Behavior and Structure Elements
Application Layer Metamodel
Business Layer Metamodel

Implementation and Migration Elements Metamodel
Motivation Elements Metamodel

Physical Elements Metamodel
Strategy Elements Metamodel

Technology Layer Metamodel
Cross-Layer Dependencies
Sample Models

Actor Co-operation View

Application Cooperation View
Application Behavior View

Application Structure View
Application Usage View

Business Function View
Business Process Cooperation View

Business Process View
Capability Map View

Goal Contribution View
Goal Realization View

Implementation and Deployment View
Implementation and Migration View

Information Structure View
Organization View

Outcome Realization View
Physical View

Principles View
Product View

[Diagram showing the Product View of ArchiSurance with various components related to insurance services, customer interactions, and claims management.

Project View

[Diagram showing the Project View of ArchiSurance with components related to project phases such as Research, Implementation, Test, and Introduction, along with the Program SIA and its interactions with other components.]
Requirements Realization View

Resource Map View
Service Realization View

Stakeholder View
Strategy View

Technology Usage View
Use of nesting

iServer supports the use of nesting to create relationships.

This is available out-of-the-box but can be customised by the Admin. As an example, for the Composition relationship between 2 Application Functions, nesting or "overlap" has been configured.
The order or strength of the nesting relationship is as follows:

1. ArchiMate: Composition
2. ArchiMate: Aggregation
3. ArchiMate: Assignment

Changing of size, proportion, colour

Changing the size, proportion or colour of the shape keeps the compliance. Shapes in iServer can also be locked from formatting or resizing if required
Relationship Notation and Coverage

All ArchiMate relationship have been configured in the iServer repository out of the box.

<table>
<thead>
<tr>
<th>Relationship</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Access</td>
<td>The access relationship models the access of behavioral concepts.</td>
</tr>
<tr>
<td>Association</td>
<td>An association models a relationship between objects that is not concrete.</td>
</tr>
<tr>
<td>Aggregation</td>
<td>The aggregation relationship indicates that a concept groups a number of concepts.</td>
</tr>
<tr>
<td>Assignment</td>
<td>The assignment relationship links active elements (e.g., business roles) with passive elements (e.g., IT resources).</td>
</tr>
<tr>
<td>Composition</td>
<td>The composition relationship indicates that an object is composed of other objects.</td>
</tr>
<tr>
<td>Flow</td>
<td>The flow relationship describes the exchange or transfer of, for example, information.</td>
</tr>
<tr>
<td>Influence</td>
<td>The influence relationship models that one motivational element influences another.</td>
</tr>
<tr>
<td>Realization</td>
<td>The realization relationship links a logical entity with a more concrete entity.</td>
</tr>
<tr>
<td>Serving</td>
<td>The used by relationship models the use of services by processes.</td>
</tr>
<tr>
<td>Specialization</td>
<td>The specialization relationship indicates that one object is a specialization of another.</td>
</tr>
<tr>
<td>Triggering</td>
<td>The triggering relationship describes the temporal or causal relationship.</td>
</tr>
</tbody>
</table>

E.g. Assignment has all permitted relationship pairs configured.

iServer supports the creation of relationships as shown below using overlaps/nesting and connectors.
Relationships Symbol Reuse

For each supported ArchiMate relationship, the user is able to reuse the same relationship symbol to connect each supported combination of concepts as denoted by their concept symbols.

Reuse the relationship between Business Actor and Business Role using the iServer Explorer:
Viewpoint Support

iServer supports all ArchiMate viewpoints as Visio templates and stencils in the repository.

Each template looks similar to the below Capability Map Viewpoint. Each template contains the Viewpoint Description and the ArchiMate 3 Elements as Master Shapes. It also contains the Stakeholders, Concerns, Purpose and Scope.
iServer enables users to create models using the elements that already exist via the iServer Explorer, and using new elements by dragging and dropping shapes and connectors from the stencils.

Each viewpoint contains a stencil with the permitted elements (object types and connectors representing the relationship types), e.g. the Capability Map Viewpoint:
Each view or diagram that can be created in the repository is based on particular viewpoint or template.

Each view contains only the elements that are defined in the definition of its viewpoint, e.g. the Capability Map Viewpoint only contains the elements: Outcome, Capability and Resource.
All elements in the views are centrally stored in the database. Objects have unique naming which means that changing an object in one diagram will propagate this change to all instances of this object on other diagrams. The same applies to deleting objects.

Users can use the Visio formatting functionalities to change coloration, size, line, shadow, etc. of all elements.

iServer Properties allow you to see the list of views in which a selected element is used, e.g. the Home & Away Financial Application.
A different graphical notation can be used for an object in a different views.
ArchiMate Exchange File Format Support

iServer supports the Exchange File Format and allows the import and export of models via the iServer Model Exchange.

As an example we export all ArchiSurance diagrams stored as Visio Files in the iServer repository.

The tool maps the source and target elements and converts into XML.

Importing this into a third party tool (Archi):
For a conversion from XML to Visio, users select the XML file to be converted into Visio Diagrams.

Once converted the diagrams are imported into iServer: