ArchiMate 3.1 Tool
Orbus Software – Tool Certification Supporting Evidence

OrbusSoftware
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1. ArchiMate Elements Overview

1.1. All Concepts View
1.2 Generic Metamodel: Behavior & Structure Elements
1.3 ArchiMate 3.1 Application Layer Metamodel

None: This figure does not show all permitted relationships; every element in the language can have composition, aggregation, and specialization relationships with elements of the same type; furthermore, there are indirect relationships that can be derived.
1.4 ArchiMate 3.1 Business Layer Metamodel

None: This figure does not show all permitted relationships: every element in the language can have composition, aggregation, and specialization relationships with elements of the same type. Furthermore, there are indirect relationships that can be derived.
1.5 ArchiMate 3.1 Cross-Layer Dependencies
1.6 ArchiMate 3.1 Implementation and Migration Elements Metamodel

Note: This figure does not show all permitted relationships: every element in the language can have composition, aggregation, and specialization relationships with elements of the same type; furthermore, there are indirect relationships that can be derived.
1.7 ArchiMate 3.1 Motivation Elements Metamodel

Note: This figure does not show all permitted relationships: every non-abstract motivation element can have aggregation and specialization relationships with elements of the same type.
1.8 ArchiMate 3.1 Physical Elements Metamodel

None: This figure does not show all permitted relationships; every element in the language can have composition, aggregation, and specialization relationships with elements of the same type. Furthermore, there are indirect relationships that can be derived.
1.9 ArchiMate 3.1 Strategy Elements Metamodel

None: This figure does not show all permitted relationships; every element in the language can have composition, aggregation, and specialization relationships with elements of the same type. Furthermore, there are indirect relationships that can be derived.
1.10 ArchiMate 3.1 Technology Layer Metamodel

Note: This figure does not show all permitted relationships: every element in the language can have composition, aggregation, and specialization relationships with elements of the same type; furthermore, there are indirect relationships that can be derived.
2 Sample Models

2.1 ArchiSurence - Application Cooperation Viewpoint

![Archisurance - Application Cooperation Viewpoint](image)

2.2 ArchiSurence - Application Structure Viewpoint

![Archisurance - Application Structure Viewpoint](image)
2.3 ArchiSurance - Application Usage Viewpoint
2.4 ArchiSurance - Business Process Cooperation Viewpoint
2.5 ArchiSurance - Capability Map Viewpoint
2.6 ArchiSurance - Capability Realization Viewpoint

2.7 ArchiSurance - Goal Realization Viewpoint
2.8 ArchiSurance - Implementation and Deployment Viewpoint
2.9 ArchiSurance - Implementation and Migration Viewpoint
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2.11 ArchiSurance - Layered Viewpoint
2.12 ArchiSuRance - Migration Viewpoint
2.13 ArchiSurence - Motivation Viewpoint
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2.15 ArchiSurance - Outcome Realization Viewpoint
2.16 ArchiSurance - Physical Viewpoint
2.17 ArchiSurance - Product Viewpoint
2.18 ArchiSurance - Project Viewpoint
2.19 ArchiSurance - Requirements Realization Viewpoint
2.20 ArchiSurance - Resource Map Viewpoint
2.21 ArchiSurance - Service Realization Viewpoint
2.22 ArchiSurance - Stakeholder View
2.23 ArchiSurance - Strategy Viewpoint
2.24 ArchiSurance - Technology Usage Viewpoint
2.25 ArchiSurance - Technology Viewpoint
2.26 ArchiSurance - Value Stream Viewpoint
3 Use of nesting

iServer supports the use of nesting. For example:

This is available out-of-the-box but can be customized 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

4 Changing of size, proportion & color

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

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

<table>
<thead>
<tr>
<th>ArchiMate/UML: Access</th>
<th>The access relationship models the access of behavioral concept...</th>
</tr>
</thead>
<tbody>
<tr>
<td>ArchiMate/UML: Association</td>
<td>An association models a relationship between objects that is not o...</td>
</tr>
<tr>
<td>ArchiMate: Aggregation</td>
<td>The aggregation relationship indicates that a concept groups a nu...</td>
</tr>
<tr>
<td>ArchiMate: Assignment</td>
<td>The assignment relationship links active elements (e.g., business r...</td>
</tr>
<tr>
<td>ArchiMate: Composition</td>
<td>The composition relationship indicates that an object is composed ...</td>
</tr>
<tr>
<td>ArchiMate: Flow</td>
<td>The flow relationship describes the exchange or transfer of, for ex...</td>
</tr>
<tr>
<td>ArchiMate: Influence</td>
<td>The influence relationship models that some motivational element ...</td>
</tr>
<tr>
<td>ArchiMate: Realization</td>
<td>The realization relationship links a logical entity with a more concre...</td>
</tr>
<tr>
<td>ArchiMate: Serving</td>
<td>The used by relationship models the use of services by processes,...</td>
</tr>
<tr>
<td>ArchiMate: Specialization</td>
<td>The specialization relationship indicates that an object is a speciali...</td>
</tr>
<tr>
<td>ArchiMate: Triggering</td>
<td>The triggering relationship describes the temporal or causal relatio...</td>
</tr>
</tbody>
</table>

E.g. Assignment has all permitted relationship pairs configured, as below:

![Relationship Type](image)

iServer supports the creation of relationships as shown below using overlaps/nesting and connectors.
6 Relationship 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:

7 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 3.1 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 (as per the image on the previous page).

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:
8 Support for ArchiMate’s File Exchange Format

iServer supports the Exchange File Format and allows the import and export of models from/to the iServer Repository using ArchiMate 3.1 XML, via iServer Model Exchange. (Files are stored as Visio format while in iServer):
As an example, the image below shows the ArchiMate 3.1 interoperability test snippets being converted for import into iServer using Model Exchange:

The interoperability test diagrams following successful import into the iServer Repository:
Following export the diagrams can be imported into 3rd party tools. We tested this with Archi and Visual Paradigm

8.1 Archi:
8.2 Visual Paradigm: