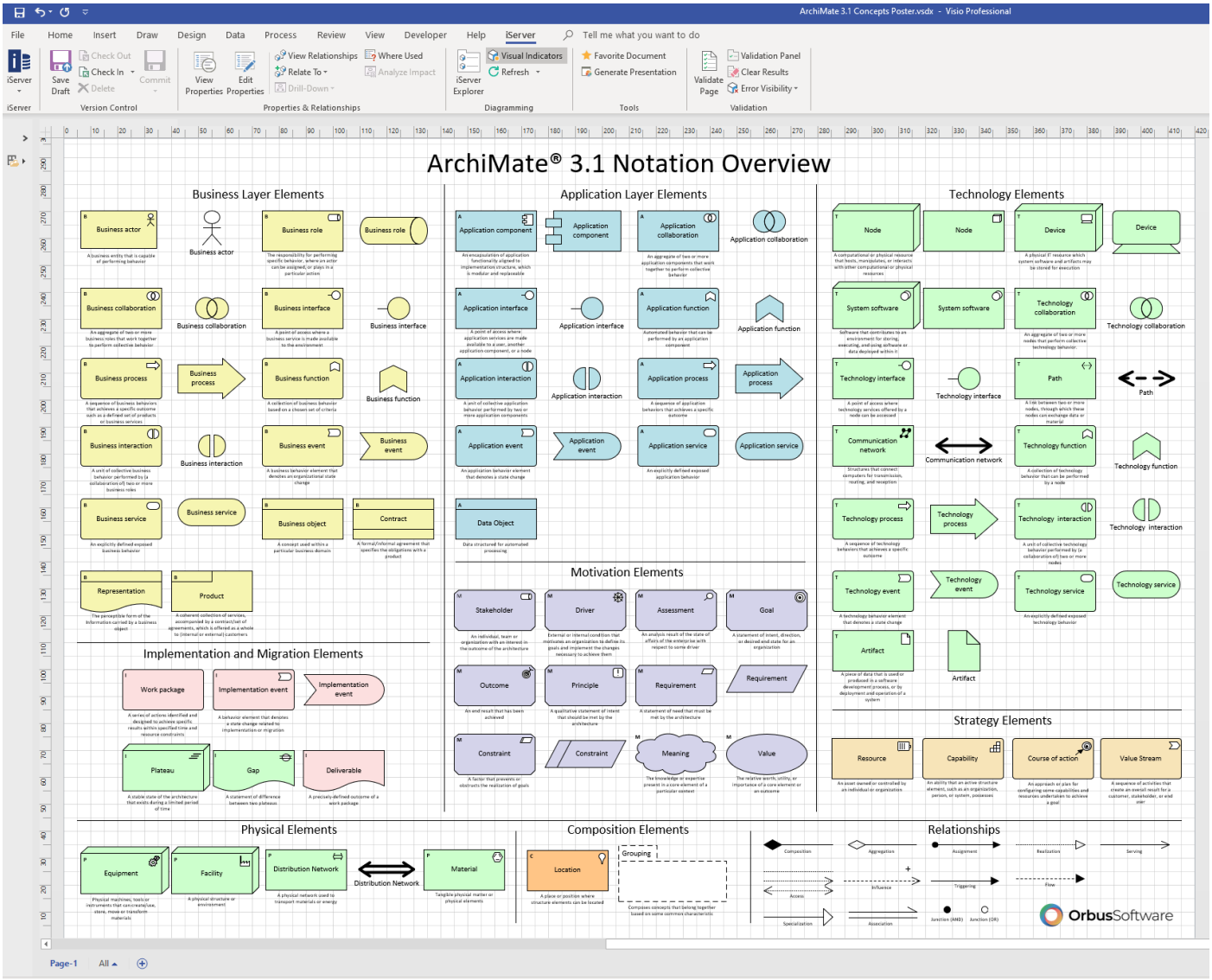
ArchiMate 3.1 Tool

Orbus Software – Tool Certification Supporting Evidence

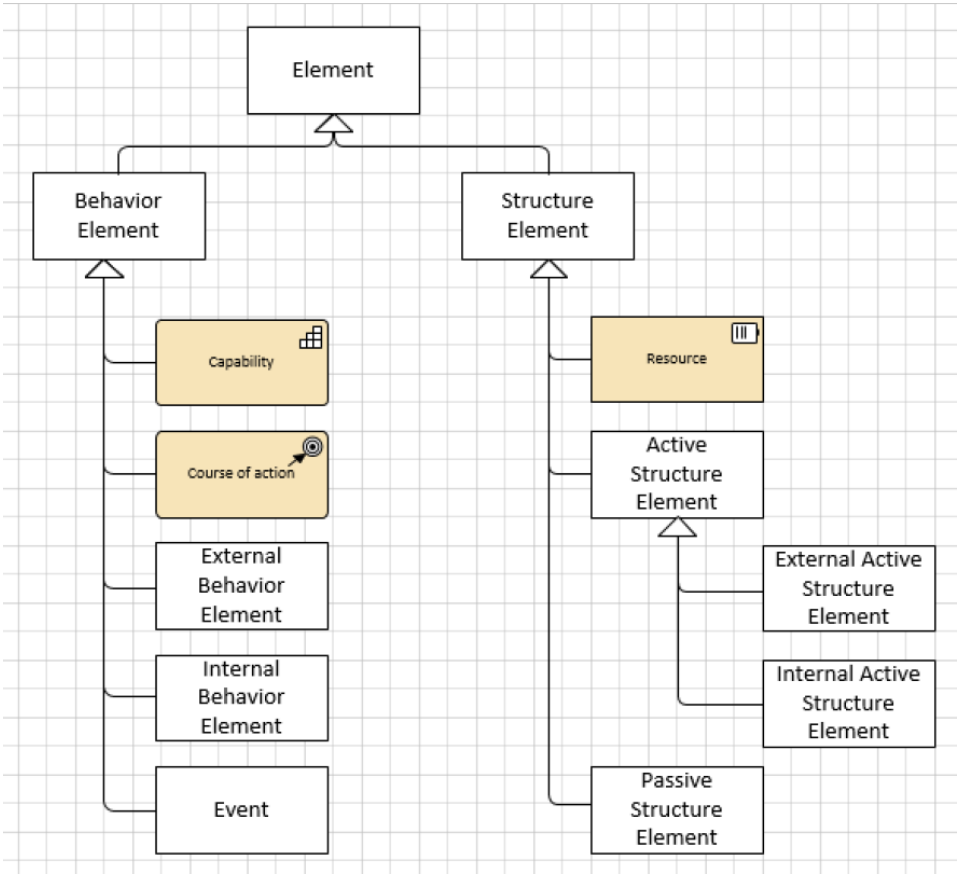
Contents

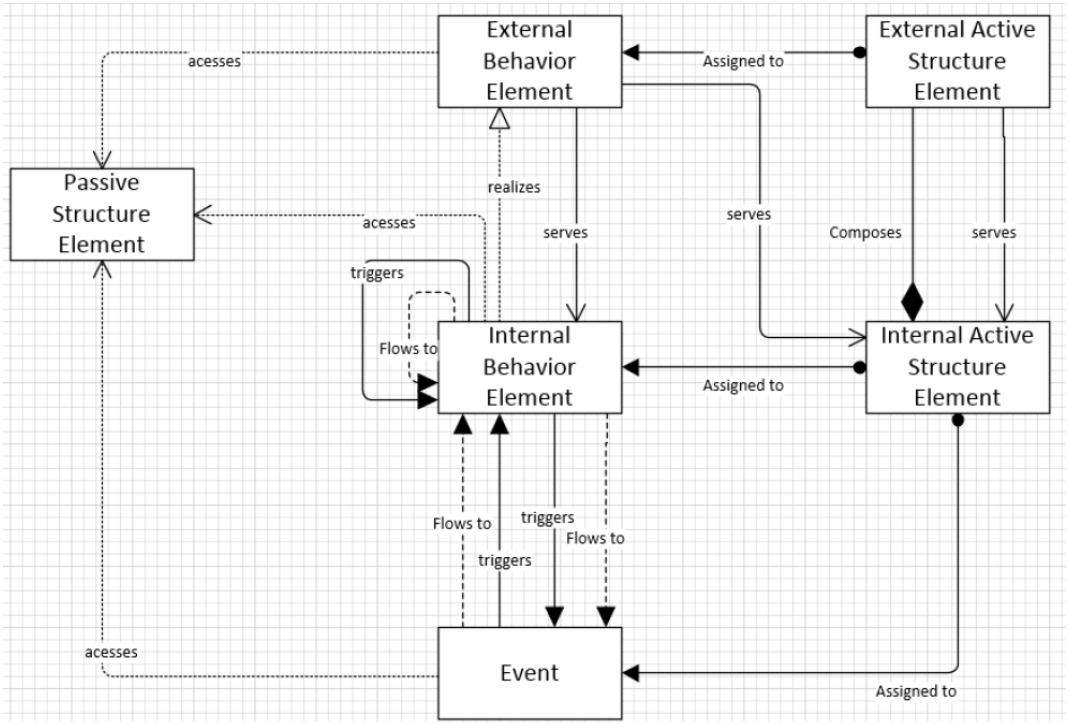
1 ArchiMate Elements Overview

1.1 All Concepts View



1.2 Generic Metamodel: Behavior & Structure Elements

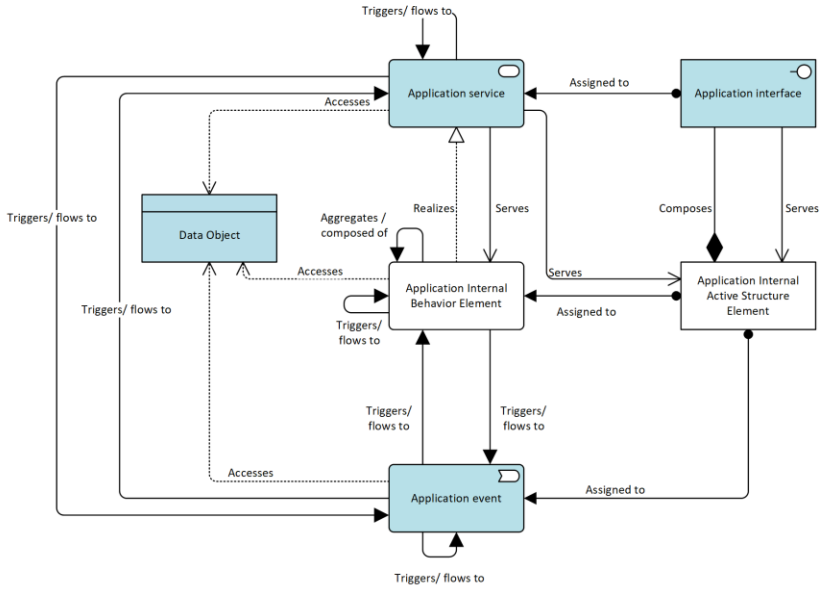




1.3 ArchiMate 3.1 Application Layer Metamodel

ArchiMate 3.1 Application Layer Metamodel

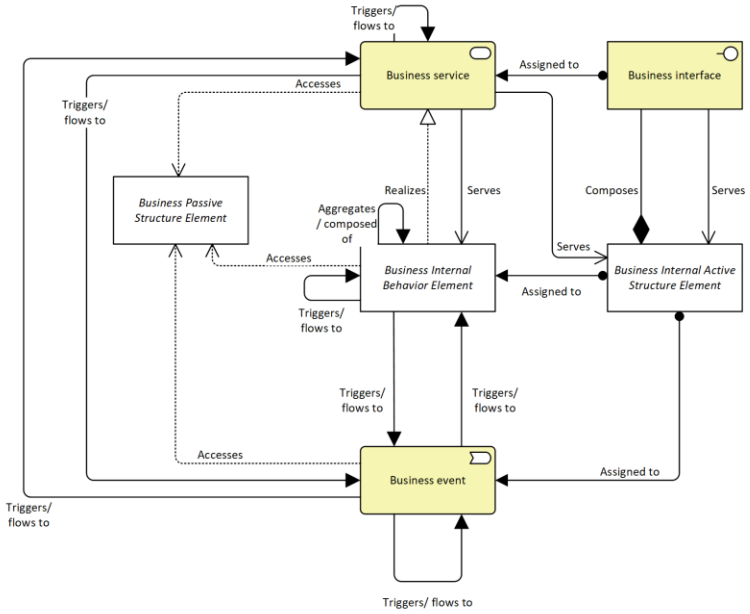
Microsoft Visio Drawing	VERSION:		AUTHOR:	5/21/2020 by System Administrator	VERSION AUTHOR:	8/3/2020 by System Administrator



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.

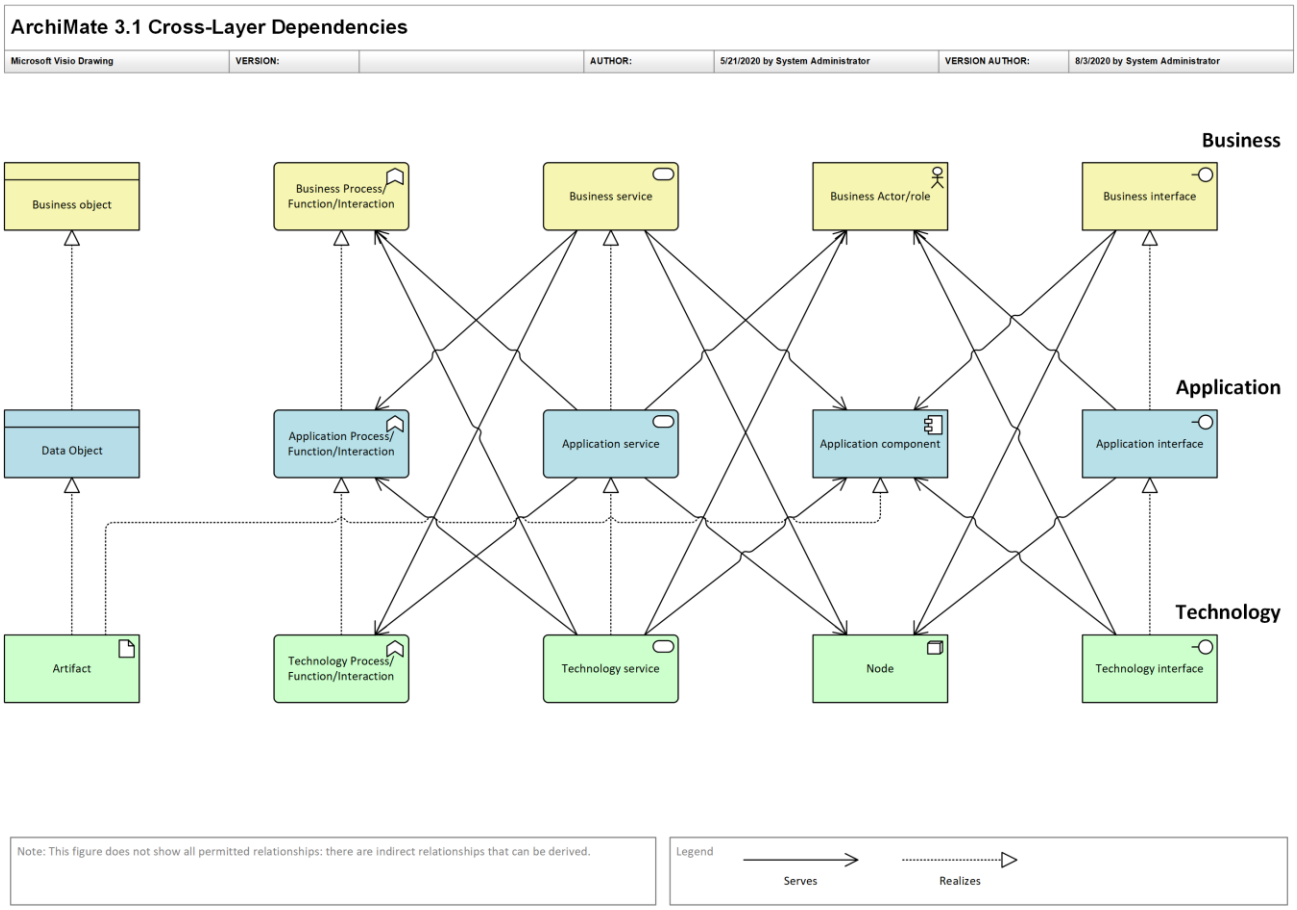
1.4 ArchiMate 3.1 Business Layer Metamodel

ArchiMate 3.1 Business Layer Metamodel						
Microsoft Visio Drawing	VERSION:		AUTHOR:	5/21/2020 by System Administrator	VERSION AUTHOR:	8/3/2020 by System Administrator



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.

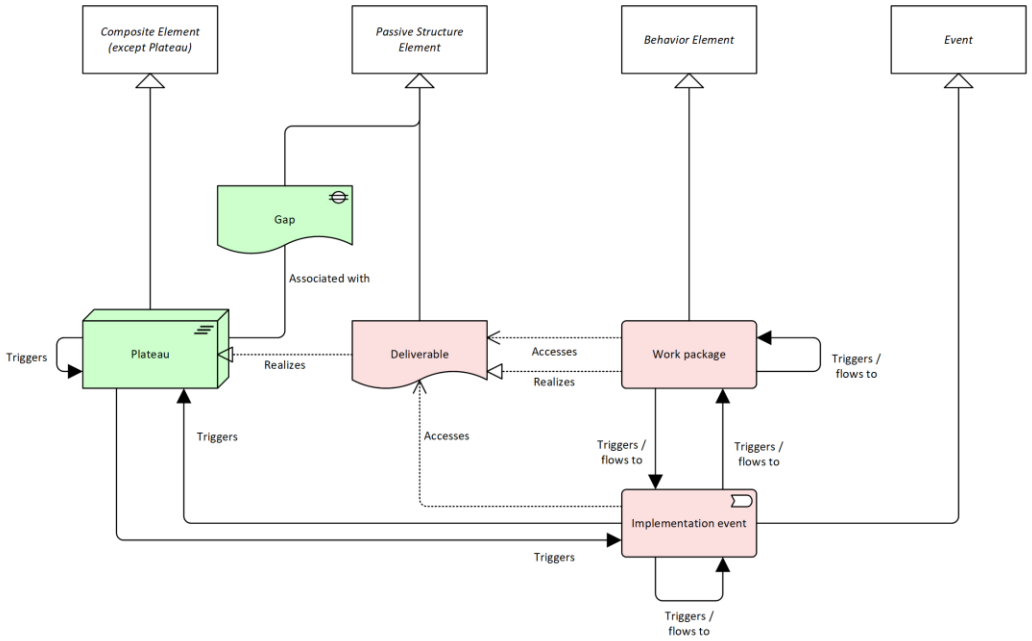
1.5 ArchiMate 3.1 Cross-Layer Dependencies



1.6 ArchiMate 3.1 Implementation and Migration Elements Metamodel

ArchiMate 3.1 Implementation and Migration Elements Metamodel

Microsoft Visio Drawing	VERSION:		AUTHOR:	5/21/2020 by System Administrator	VERSION AUTHOR:	8/3/2020 by System Administrator



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

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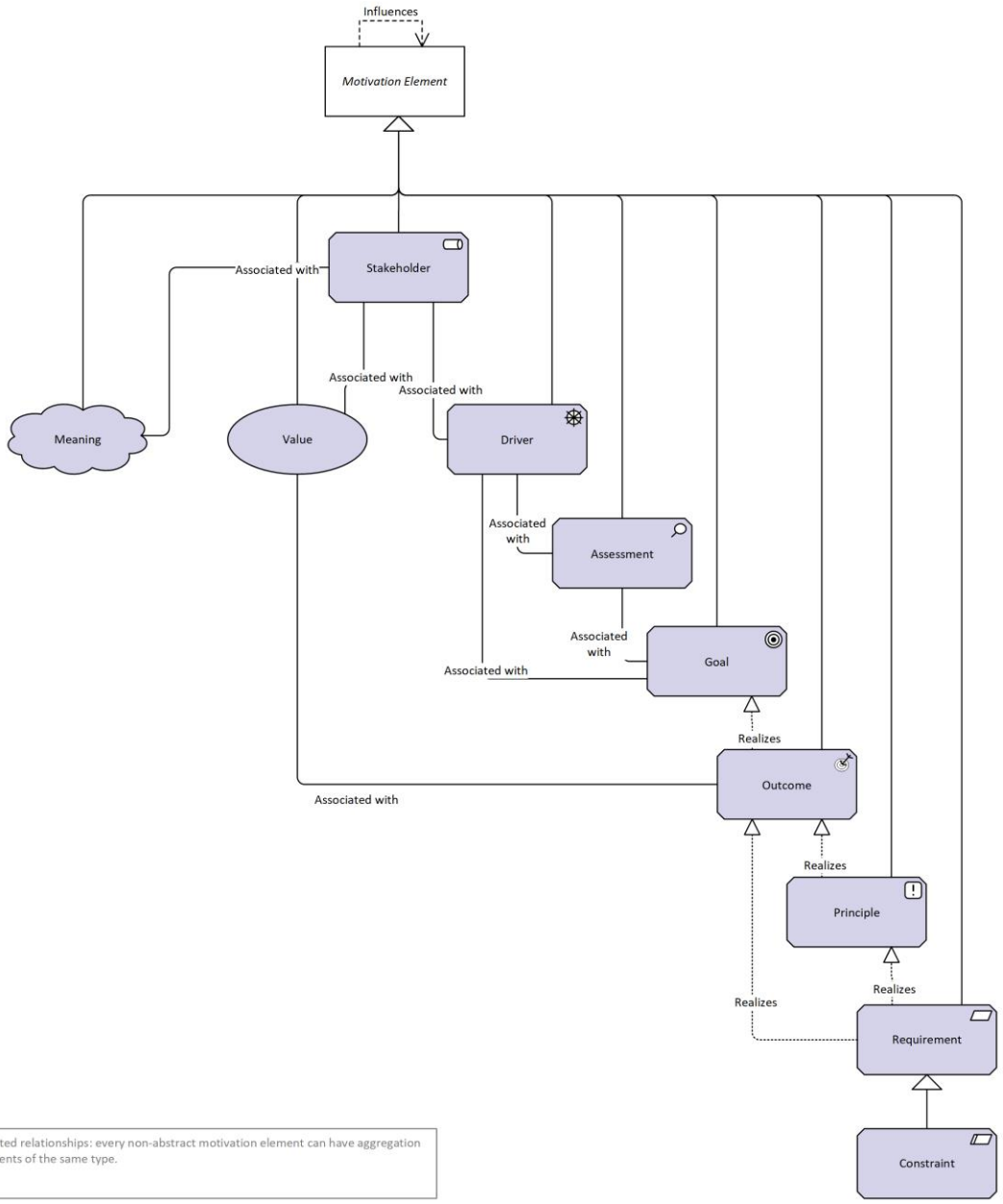
Microsoft Visio Drawing	VERSION:		AUTHOR:	5/21/2020 by System Administrator	VERSION AUTHOR:	8/3/2020 by System Administrator

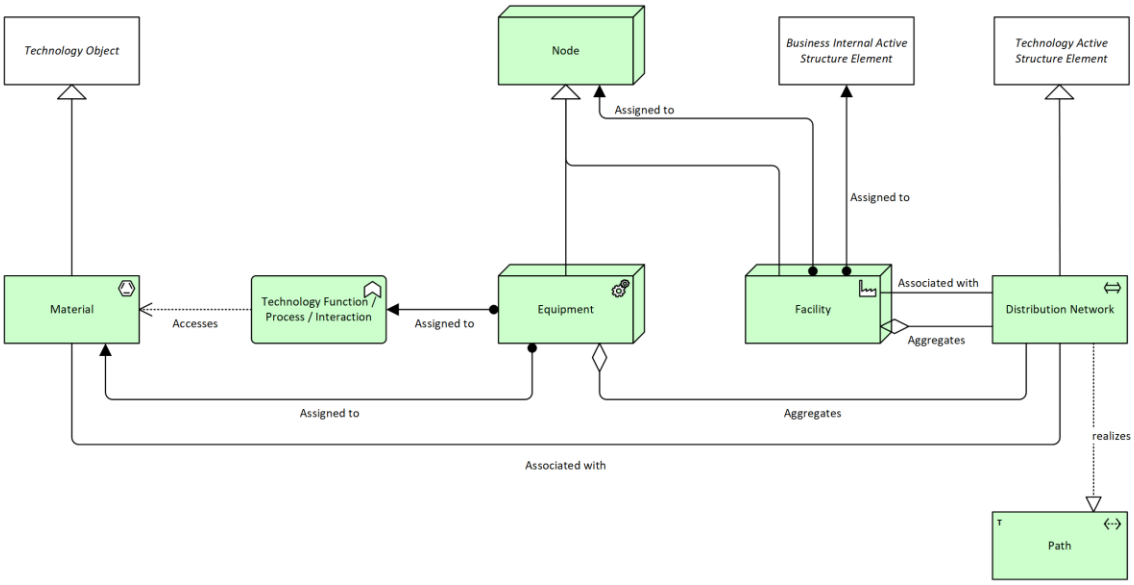


Note: This figure does not show all permitted relationships: every non-abstract motivation element can have aggregation and specialization relationships with elements of the same type.

1.8 ArchiMate 3.1 Physical Elements Metamodel

ArchiMate 3.1 Physical Elements Metamodel

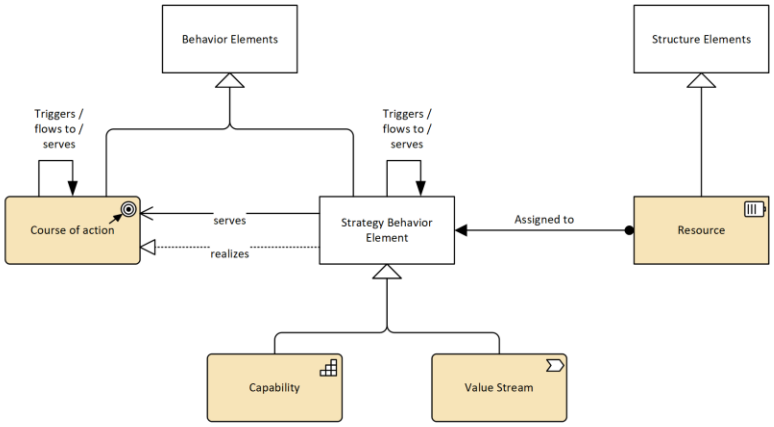
Microsoft Visio Drawing	VERSION:		AUTHOR:	5/21/2020 by System Administrator	VERSION AUTHOR:	8/3/2020 by System Administrator



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.

1.9 ArchiMate 3.1 Strategy Elements Metamodel

ArchiMate 3.1 Strategy Elements Metamodel						
Microsoft Visio Drawing	VERSION:		AUTHOR:	5/21/2020 by System Administrator	VERSION AUTHOR:	9/4/2020 by System Administrator

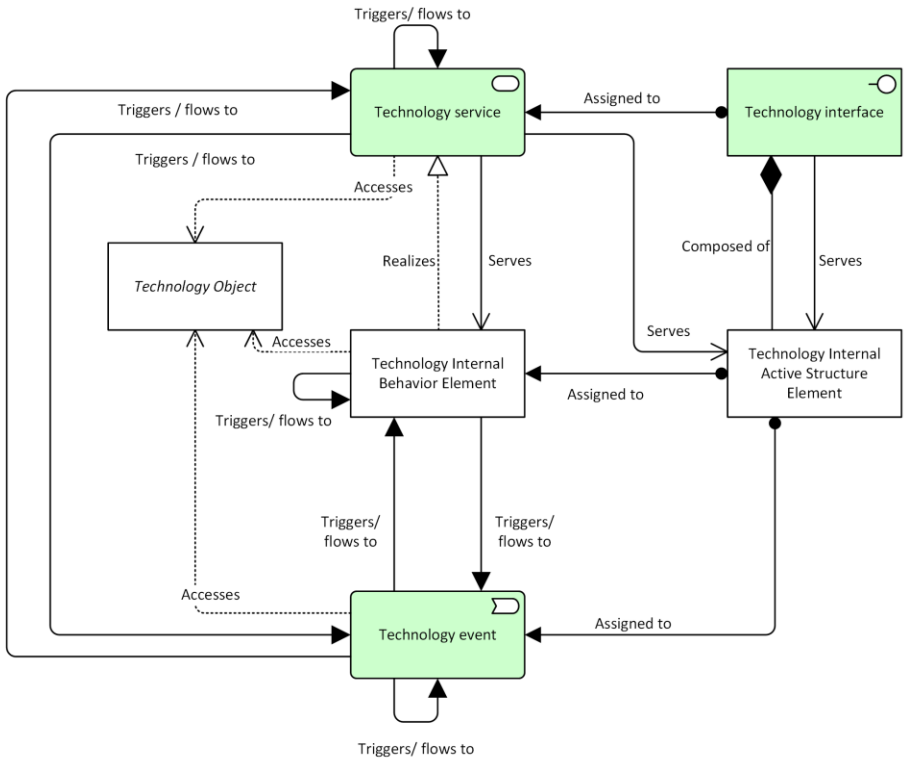


Note: This figure does not show all permitted relationships: every element in the language can have composition, aggregation, and specialization relationships with elements of the same type; furthermore, there are indirect relationships that can be derived.

1.10 ArchiMate 3.1 Technology Layer Metamodel

ArchiMate 3.1 Technology Layer Metamodel

Microsoft Visio Drawing	VERSION:		AUTHOR:	5/21/2020 by System Administrator	VERSION AUTHOR:	8/3/2020 by System Administrator

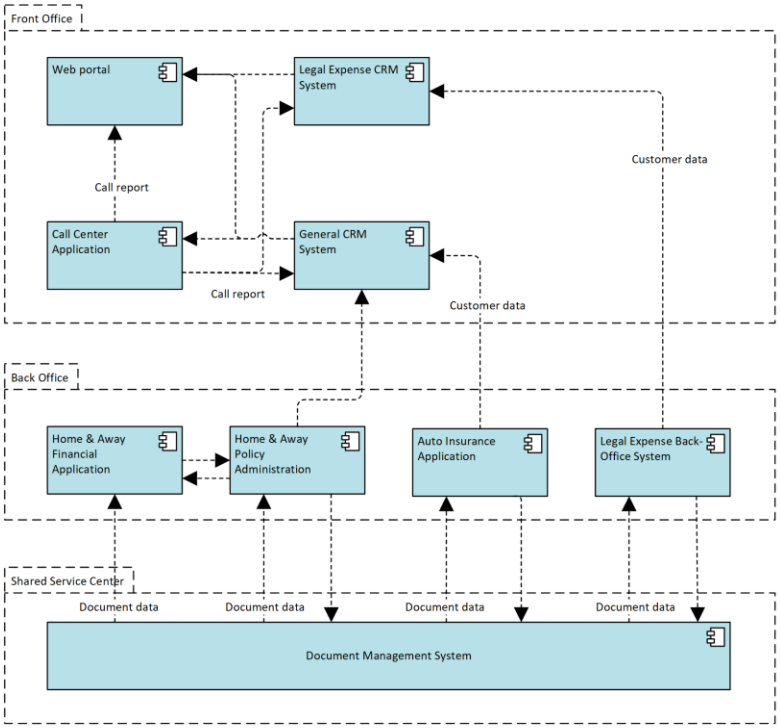


Note: This figure does not show all permitted relationships: every element in the language can have composition, aggregation, and specialization relationships with elements of the same type; furthermore, there are indirect relationships that can be derived.

2 Sample Models

2.1 ArchiSurance - Application Cooperation Viewpoint

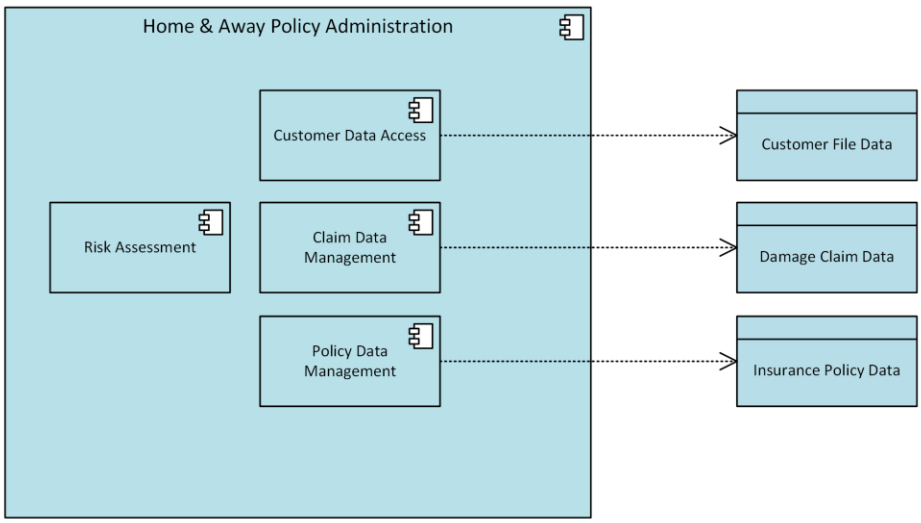
ArchiSurance - Application Cooperation Viewpoint						
AM3.1 Application Cooperation Viewpoint	VERSION:		AUTHOR:	8/11/2020 by System Administrator	VERSION AUTHOR:	8/21/2020 by System Administrator



2.2 ArchiSurance - Application Structure Viewpoint

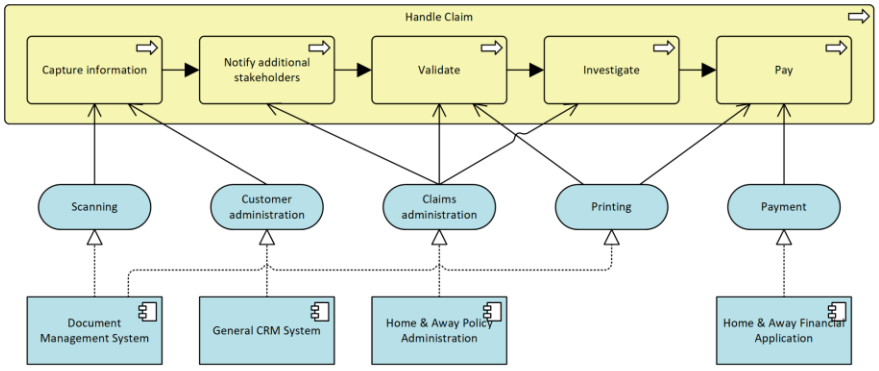
ArchiSurance - Application Structure Viewpoint

AM3.1 Application Structure Viewpoint	VERSION:	1	AUTHOR:	8/4/2020 by System Administrator	VERSION AUTHOR:	8/4/2020 by System Administrator



2.3 ArchiSurance - Application Usage Viewpoint

ArchiSurance - Application Usage Viewpoint						
AM3.1 Application Usage Viewpoint	VERSION:		AUTHOR:	8/11/2020 by System Administrator	VERSION AUTHOR:	8/21/2020 by System Administrator



2.4 ArchiSurance - Business Process Cooperation Viewpoint

ArchiSurance - Business Process Cooperation Viewpoint

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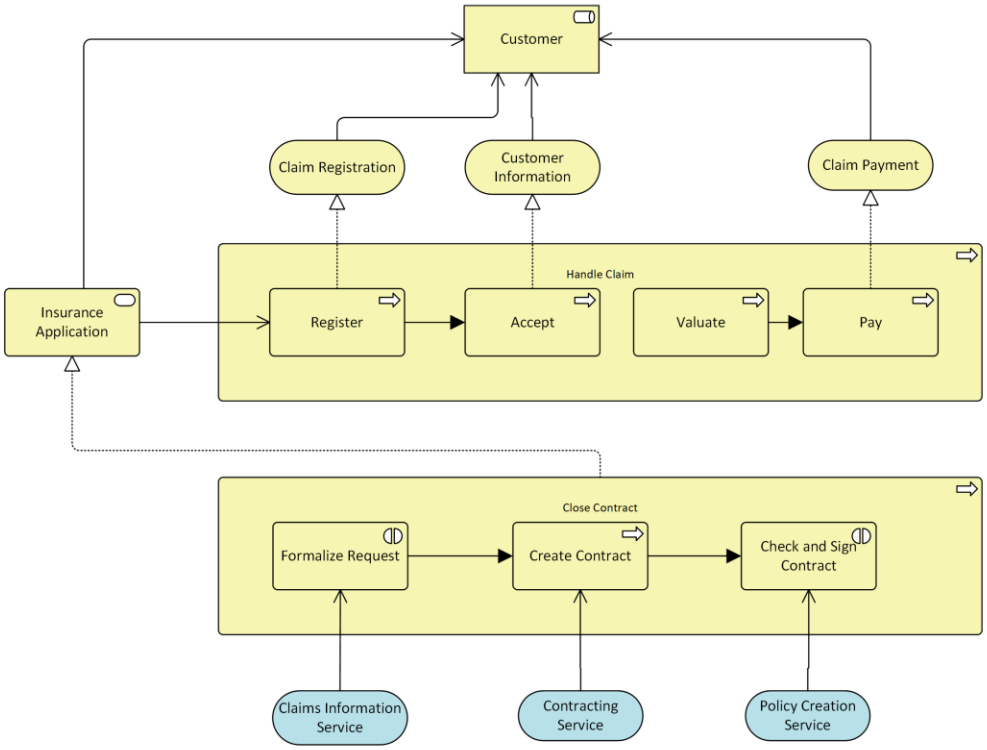
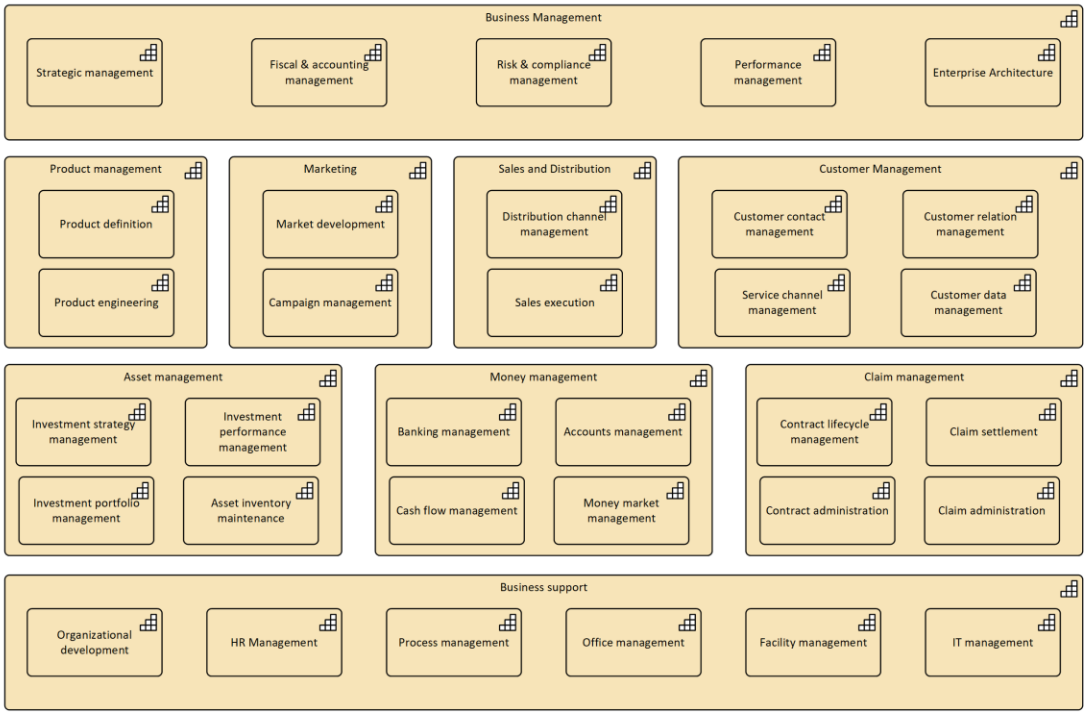


2.5 ArchiSurance - Capability Map Viewpoint

ArchiSurance - Capability Map Viewpoint

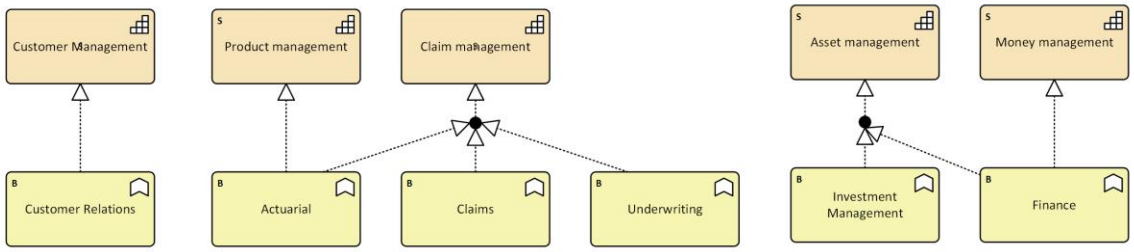
AM3.1 Capability Map Viewpoint	VERSION:		AUTHOR:	8/11/2020 by System Administrator	VERSION AUTHOR:	8/21/2020 by System Administrator



2.6 ArchiSurance - Capability Realization Viewpoint

ArchiSurance - Capability Realization Viewpoint

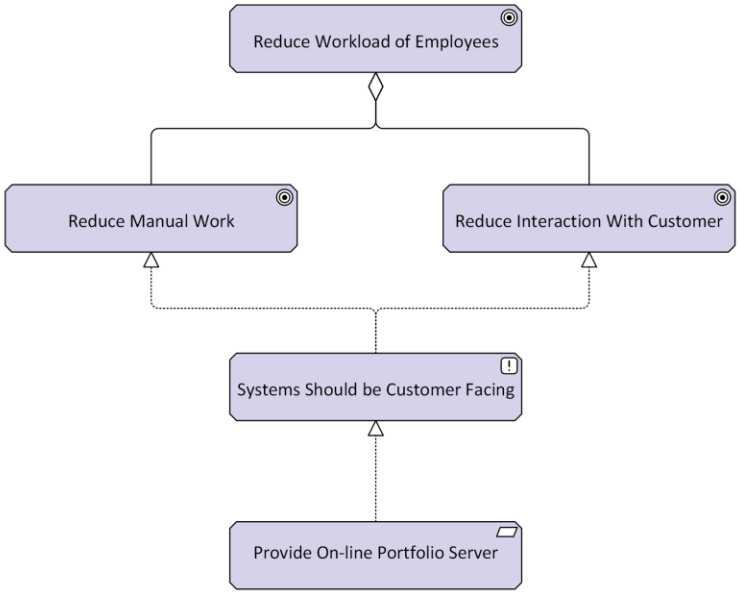
AM3.1 Outcome Realization Viewpoint	VERSION:		AUTHOR:	8/11/2020 by System Administrator	VERSION AUTHOR:	8/21/2020 by System Administrator



2.7 ArchiSurance - Goal Realization Viewpoint

ArchiSurance - Goal Realization Viewpoint

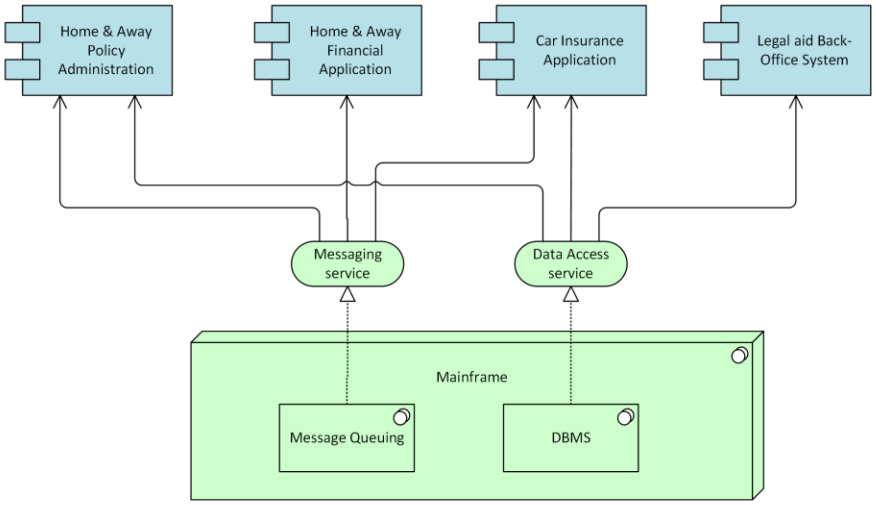
AM3.1 Goal Realization Viewpoint	VERSION:	1	AUTHOR:	8/12/2020 by System Administrator	VERSION AUTHOR:	8/12/2020 by System Administrator



2.8 ArchiSurance - Implementation and Deployment Viewpoint

ArchiSurance - Implementation and Deployment Viewpoint

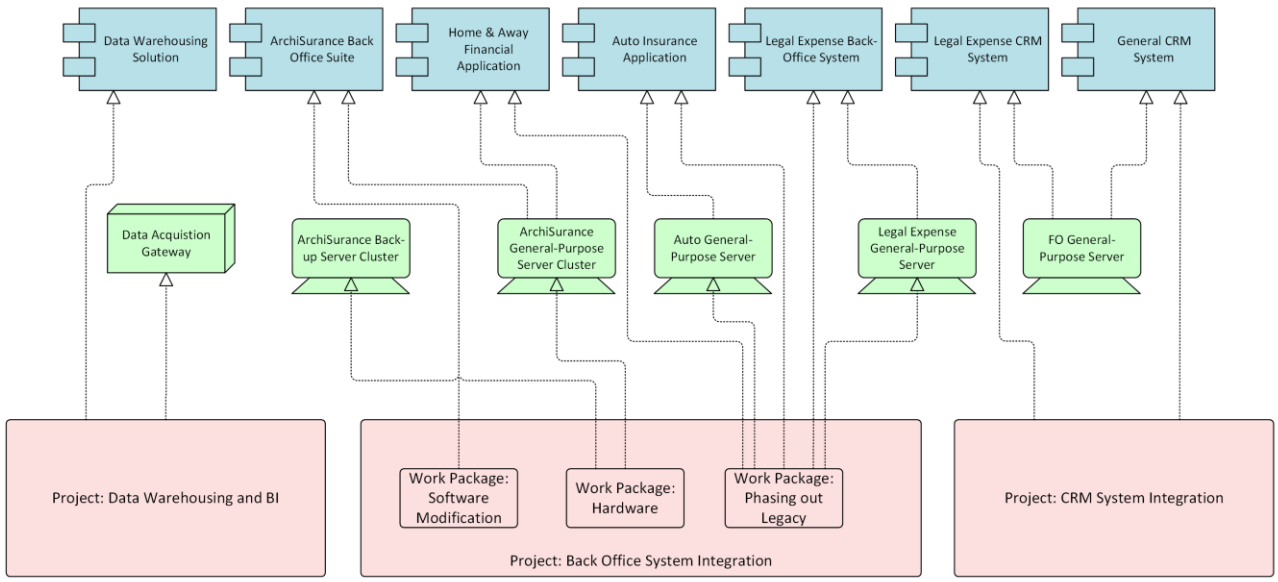
AM3.1 Implementation and Deployment Platform Viewpoint	VERSION:	2	AUTHOR:	8/12/2020 by System Administrator	VERSION AUTHOR:	8/12/2020 by System Administrator



2.9 ArchiSurance - Implementation and Migration Viewpoint

ArchiSurance - Implementation and Migration Viewpoint

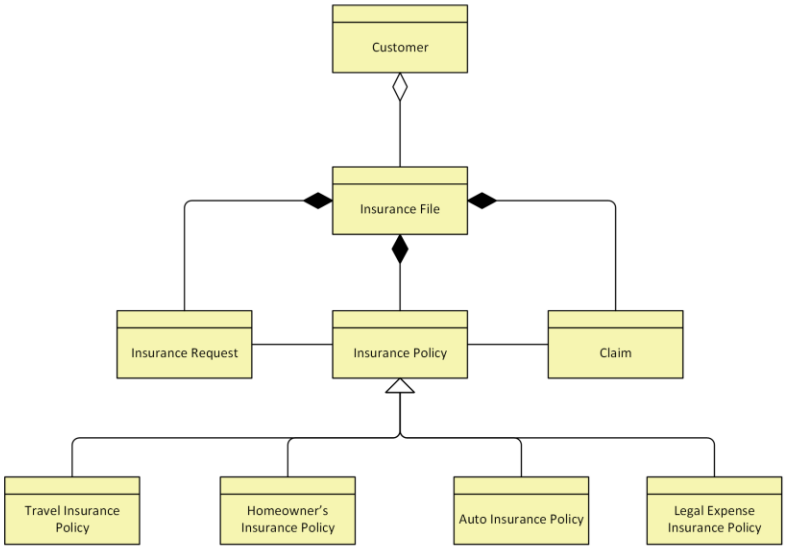
AM3.1 Implementation and Migration Viewpoint	VERSION:	1	AUTHOR:	8/12/2020 by System Administrator	VERSION AUTHOR:	8/12/2020 by System Administrator



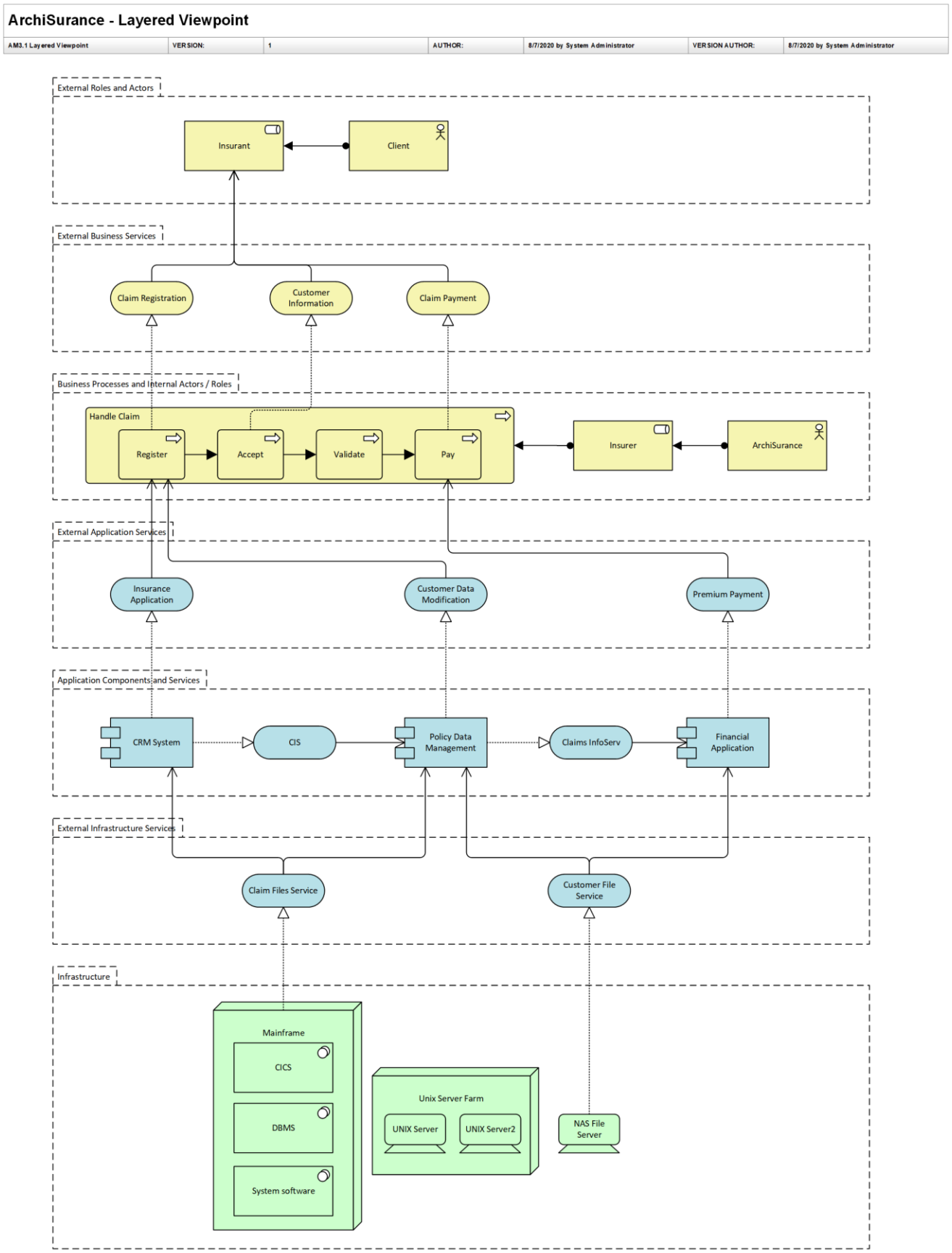
2.10 ArchiSurance - Information Structure Viewpoint

ArchiSurance - Information Structure Viewpoint

AM3.1 Information Structure Viewpoint	VERSION:		AUTHOR:	8/5/2020 by System Administrator	VERSION AUTHOR:	8/21/2020 by System Administrator



2.11 ArchiSurance - Layered Viewpoint



2.12 ArchiSurance - Migration Viewpoint

ArchiSurance - Migration Viewpoint						
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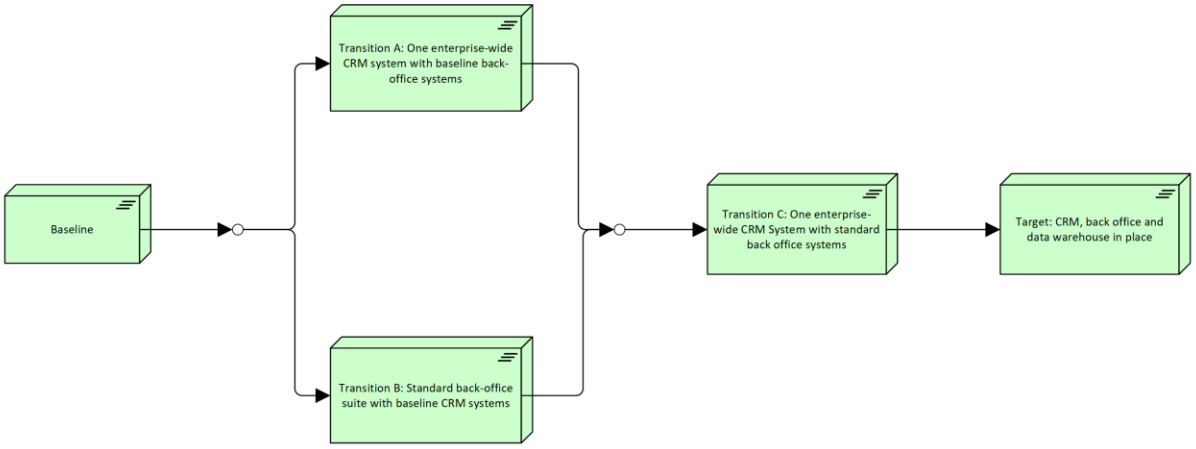
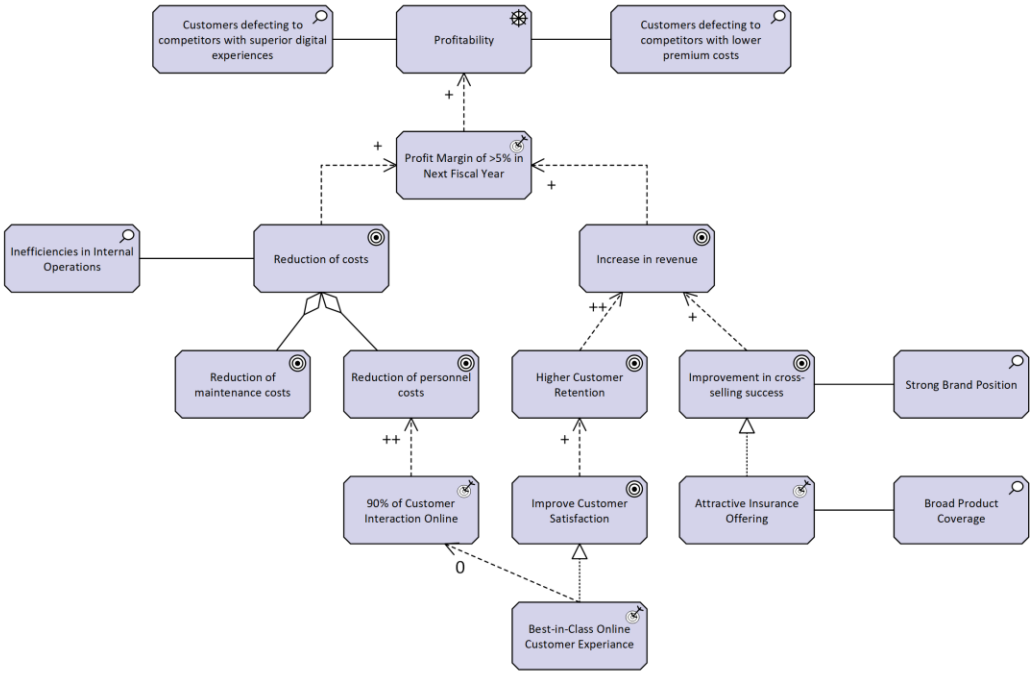


2.13 ArchiSurance - Motivation Viewpoint

ArchiSurance - Motivation Viewpoint

AM3.1 Motivation Viewpoint	VERSION:		AUTHOR:	8/11/2020 by System Administrator	VERSION AUTHOR:	8/21/2020 by System Administrator



2.14 ArchiSurance - Organization Viewpoint

ArchiSurance - Organization Viewpoint						
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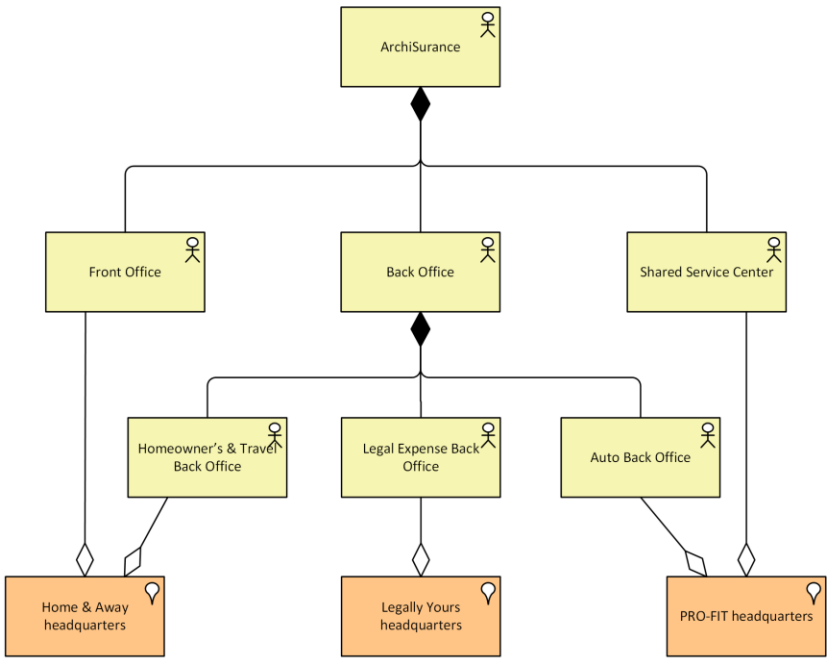
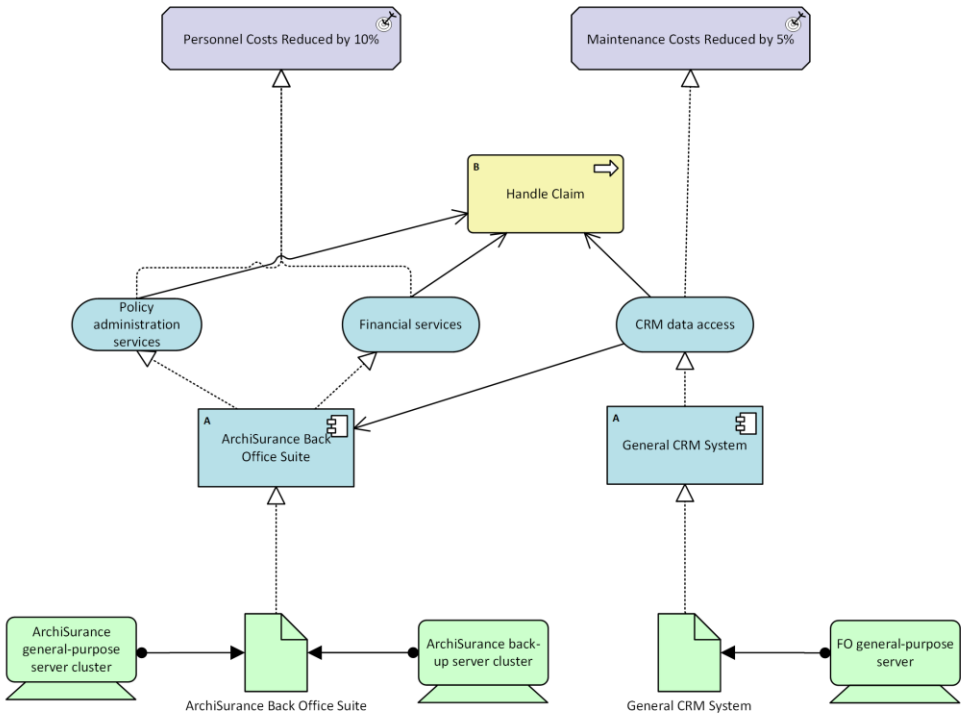


2.15 ArchiSurance - Outcome Realization Viewpoint

ArchiSurance - Outcome Realization Viewpoint						
AM3.1 Outcome Realization Viewpoint	VERSION:		AUTHOR:	9/4/2020 by System Administrator	VERSION AUTHOR:	9/4/2020 by System Administrator



2.16 ArchiSurance - Physical Viewpoint

ArchiSurance - Physical Viewpoint						
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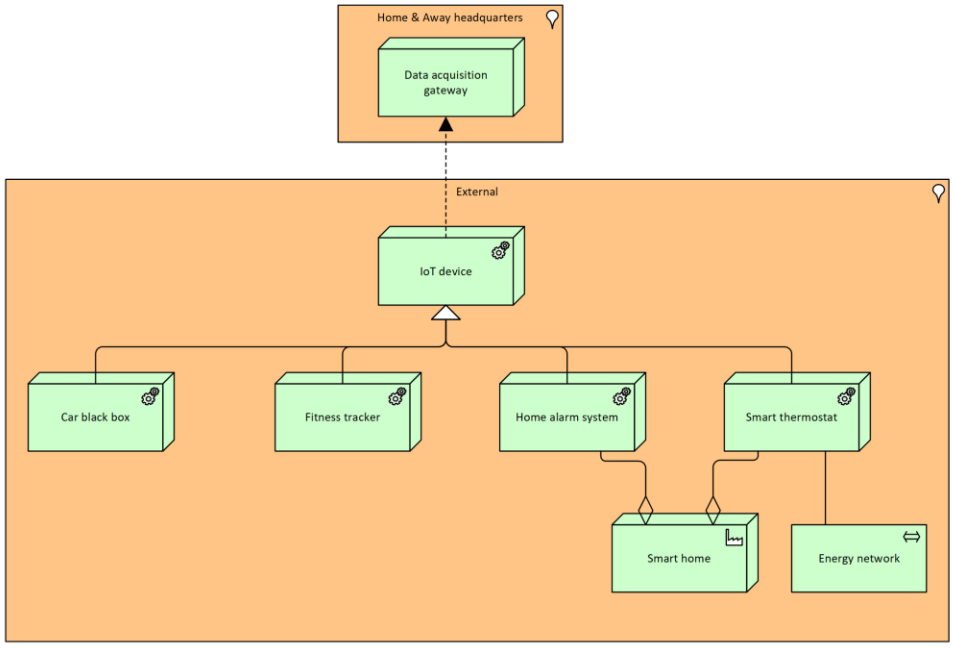

2.17 ArchiSurance - Product Viewpoint

ArchiSurance - Product Viewpoint						
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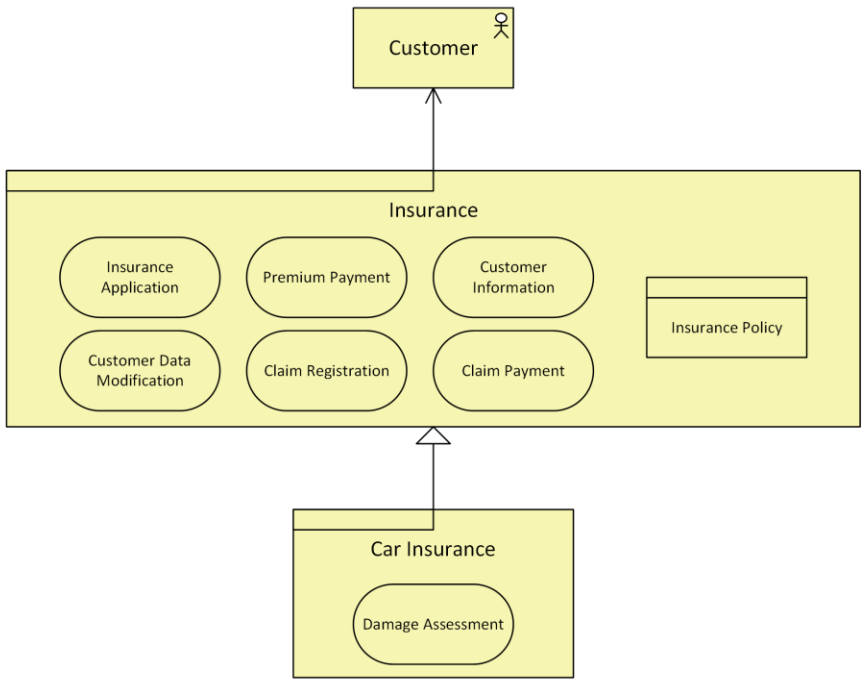
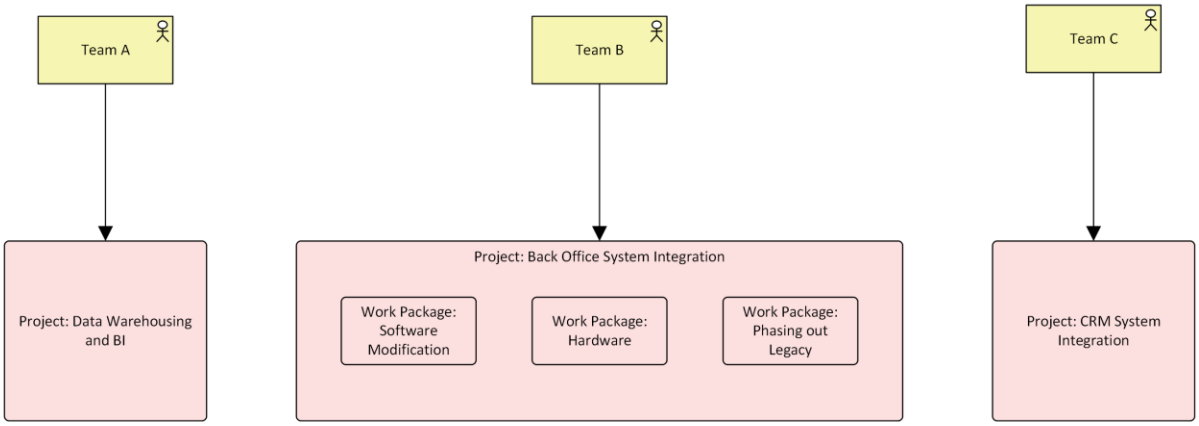


2.18 ArchiSurance - Project Viewpoint

ArchiSurance - Project Viewpoint

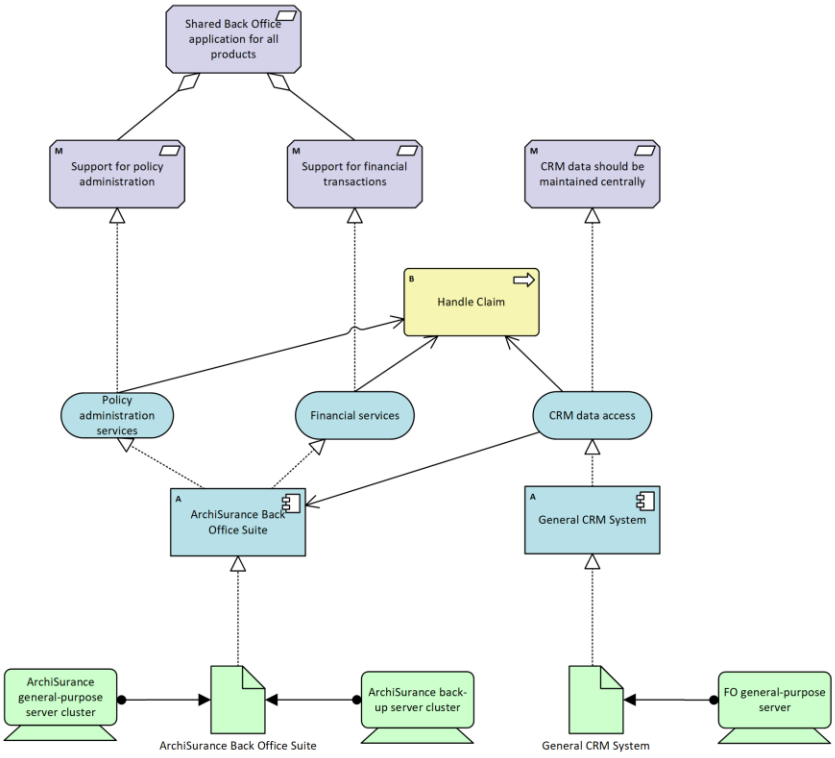
AM3.1 Project Viewpoint	VERSION:	1	AUTHOR:	8/12/2020 by System Administrator	VERSION AUTHOR:	8/12/2020 by System Administrator



2.19 ArchiSurance - Requirements Realization Viewpoint

ArchiSurance - Requirements Realization Viewpoint

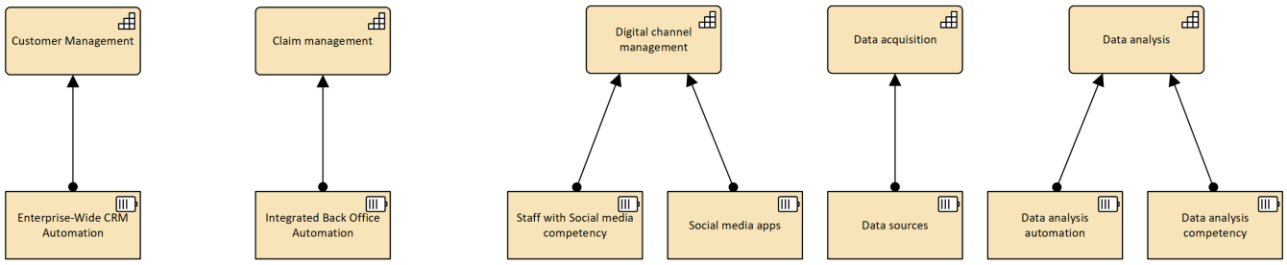
AM3.1 Requirements Realization Viewpoint	VERSION:		AUTHOR:	8/11/2020 by System Administrator	VERSION AUTHOR:	8/21/2020 by System Administrator



2.20 ArchiSurance - Resource Map Viewpoint

ArchiSurance - Resource Map Viewpoint

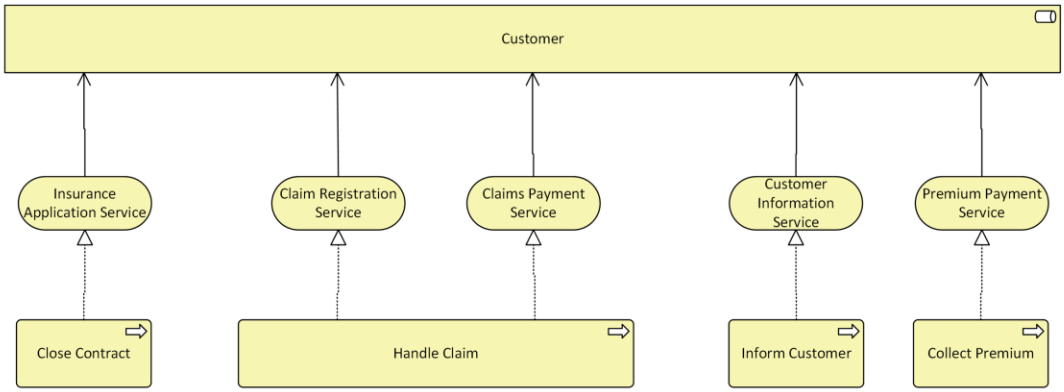
AM3.1 Resource Map Viewpoint	VERSION:		AUTHOR:	8/11/2020 by System Administrator	VERSION AUTHOR:	8/21/2020 by System Administrator



2.21 ArchiSurance - Service Realization Viewpoint

ArchiSurance - Service Realization Viewpoint

AM3.1 Service Realization Viewpoint	VERSION:	1	AUTHOR:	8/12/2020 by System Administrator	VERSION AUTHOR:	8/12/2020 by System Administrator



2.22 ArchiSurance - Stakeholder View

ArchiSurance - Stakeholder View						
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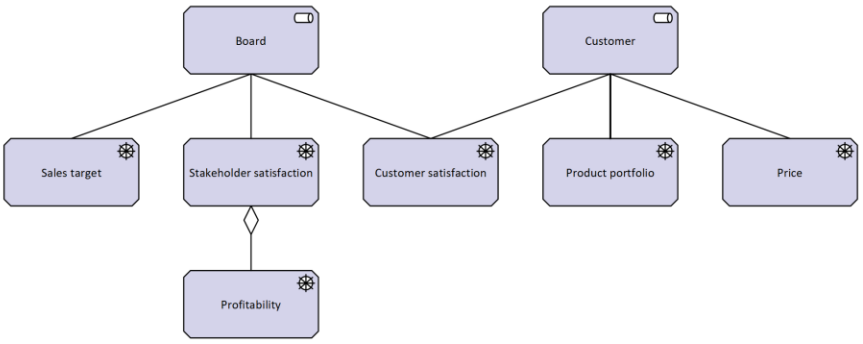
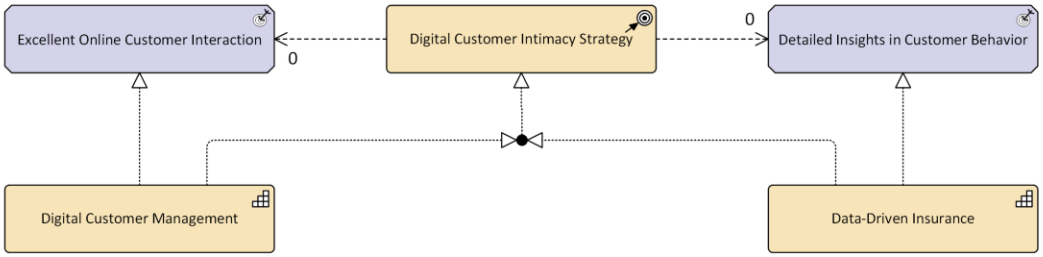


2.23 ArchiSurance - Strategy Viewpoint

ArchiSurance - Strategy Viewpoint

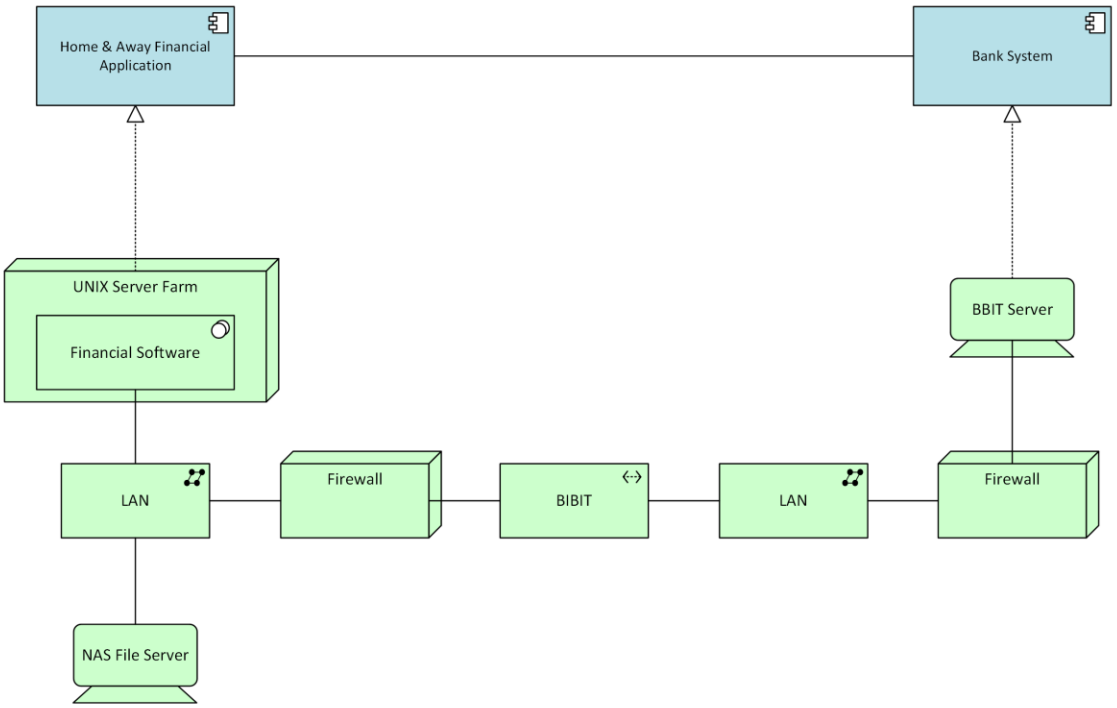
AM3.1 Strategy Viewpoint	VERSION:	1	AUTHOR:	8/12/2020 by System Administrator	VERSION AUTHOR:	8/12/2020 by System Administrator



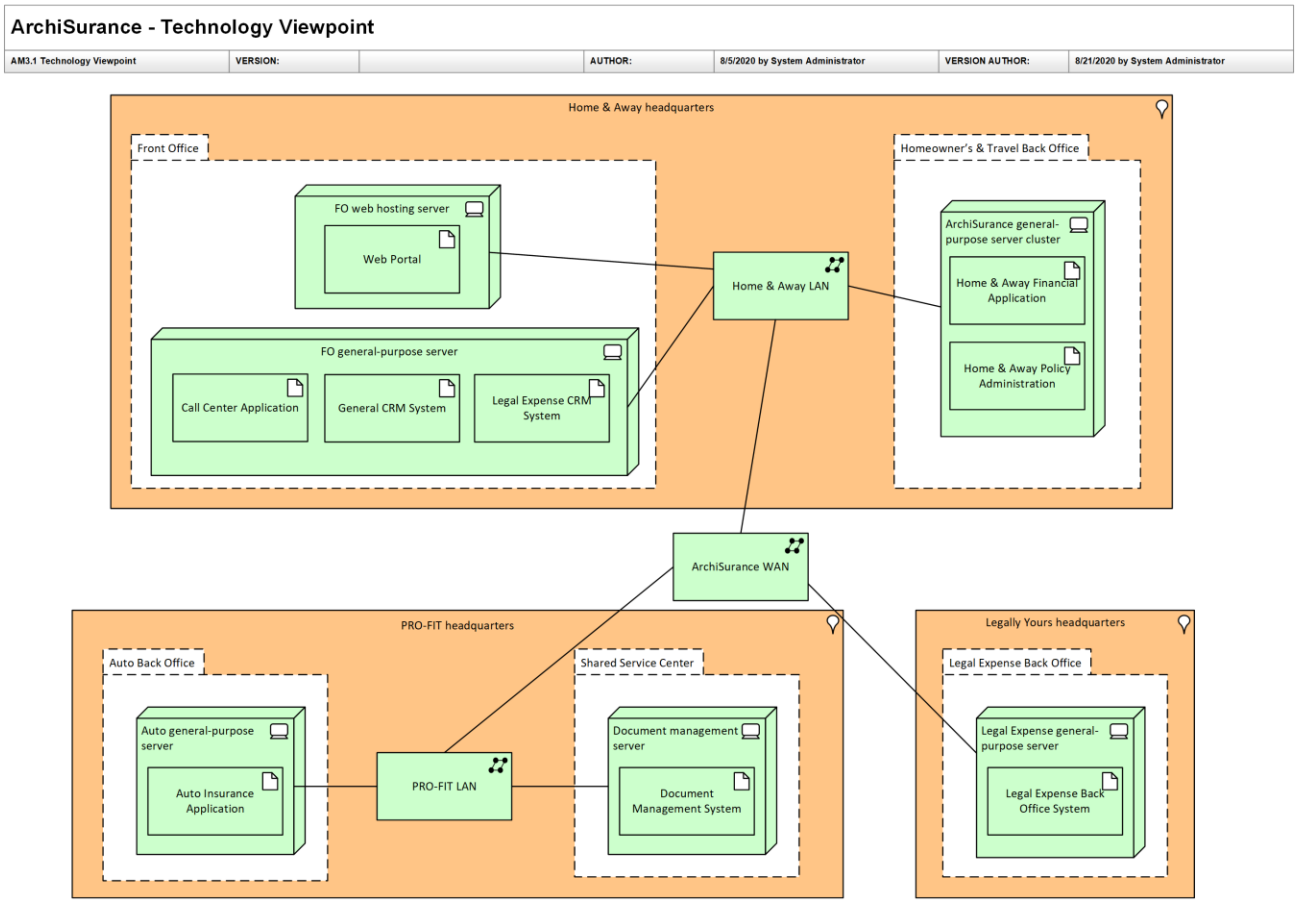
2.24 ArchiSurance - Technology Usage Viewpoint

ArchiSurance - Technology Usage Viewpoint

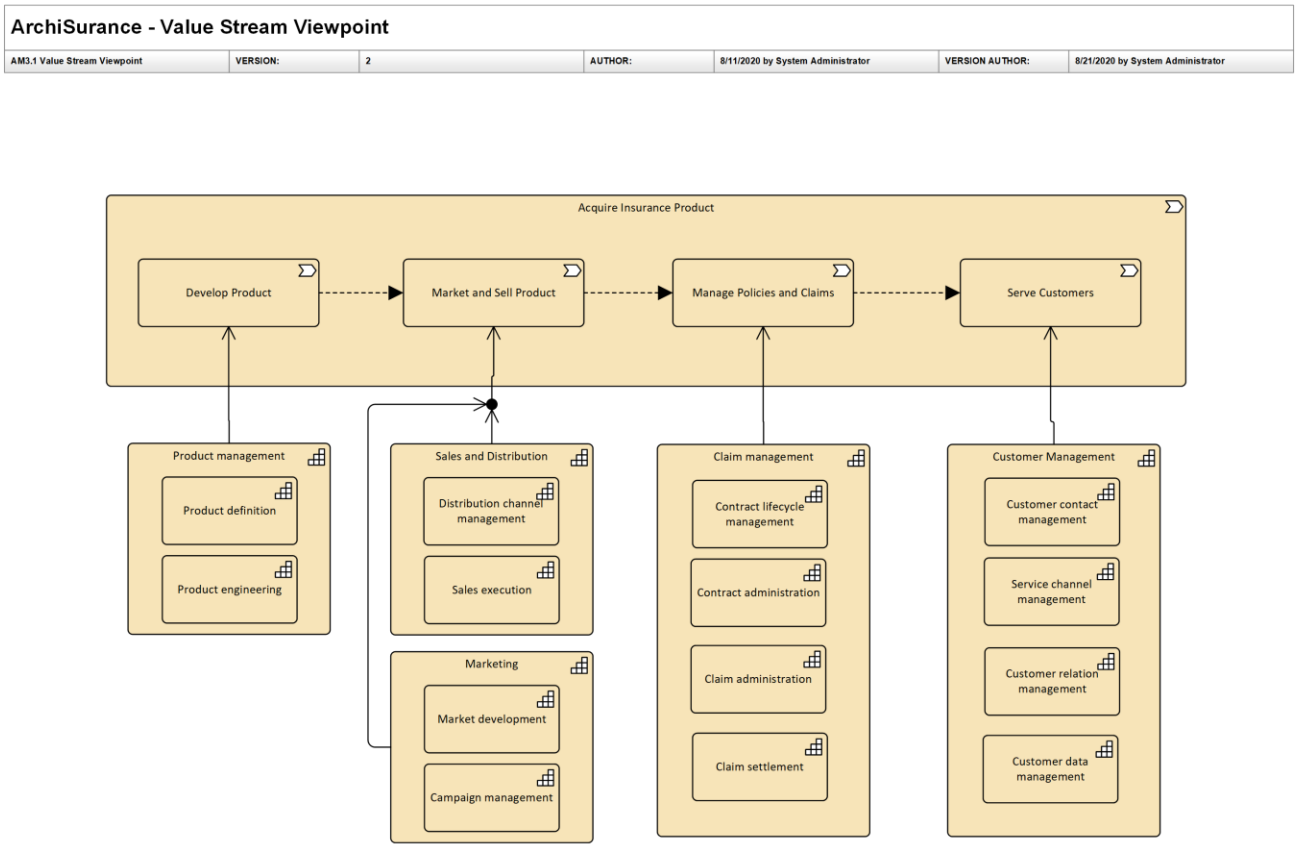
AM3.1 Technology Usage Viewpoint	VERSION:	1	AUTHOR:	8/11/2020 by System Administrator	VERSION AUTHOR:	8/11/2020 by System Administrator



2.25 ArchiSurance - Technology Viewpoint

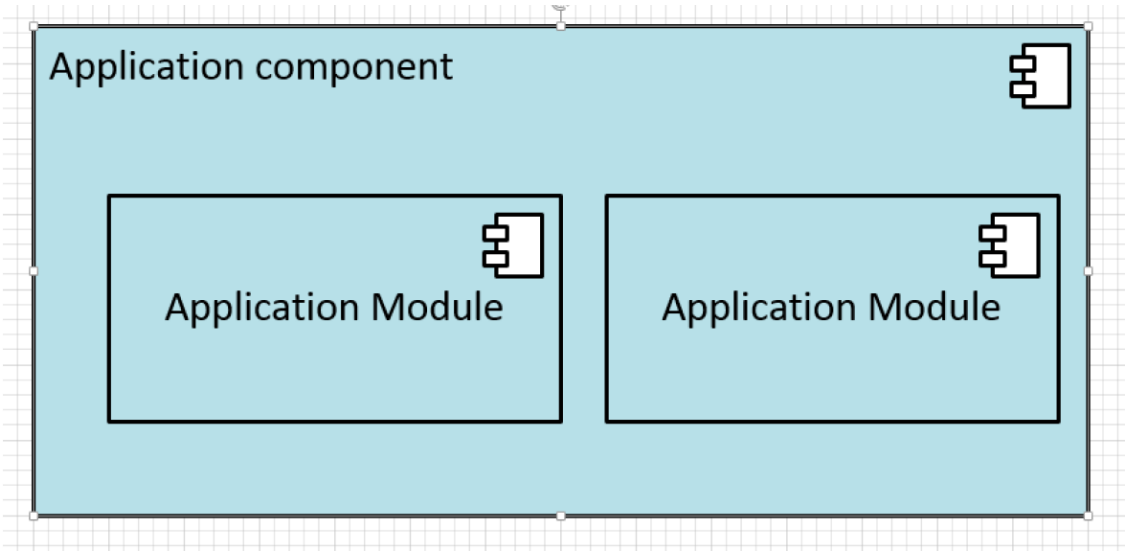


2.26 ArchiSurance - Value Stream Viewpoint

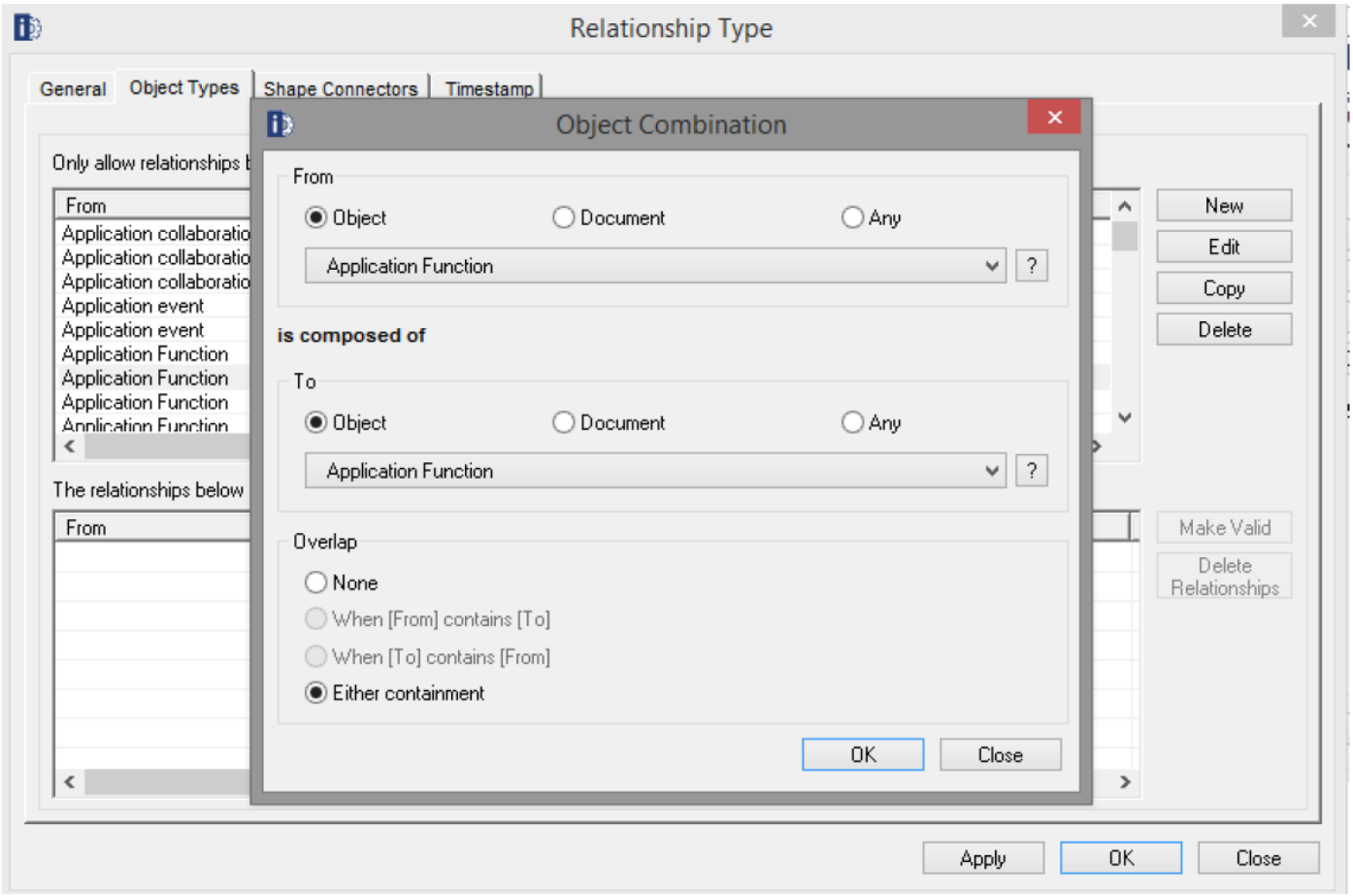


3 Use of nesting

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.

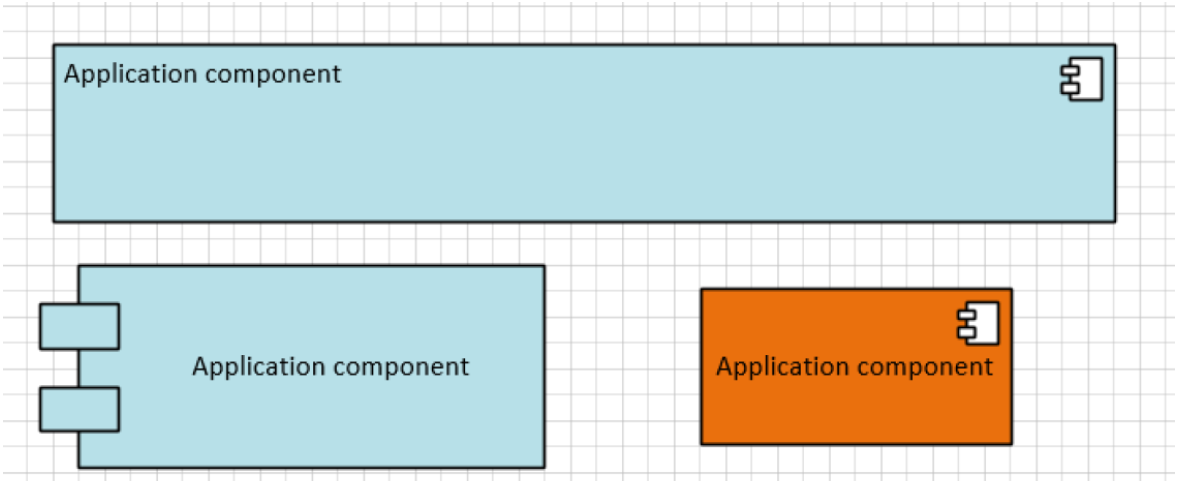


The order or strength of the nesting relationship is as follows:

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.

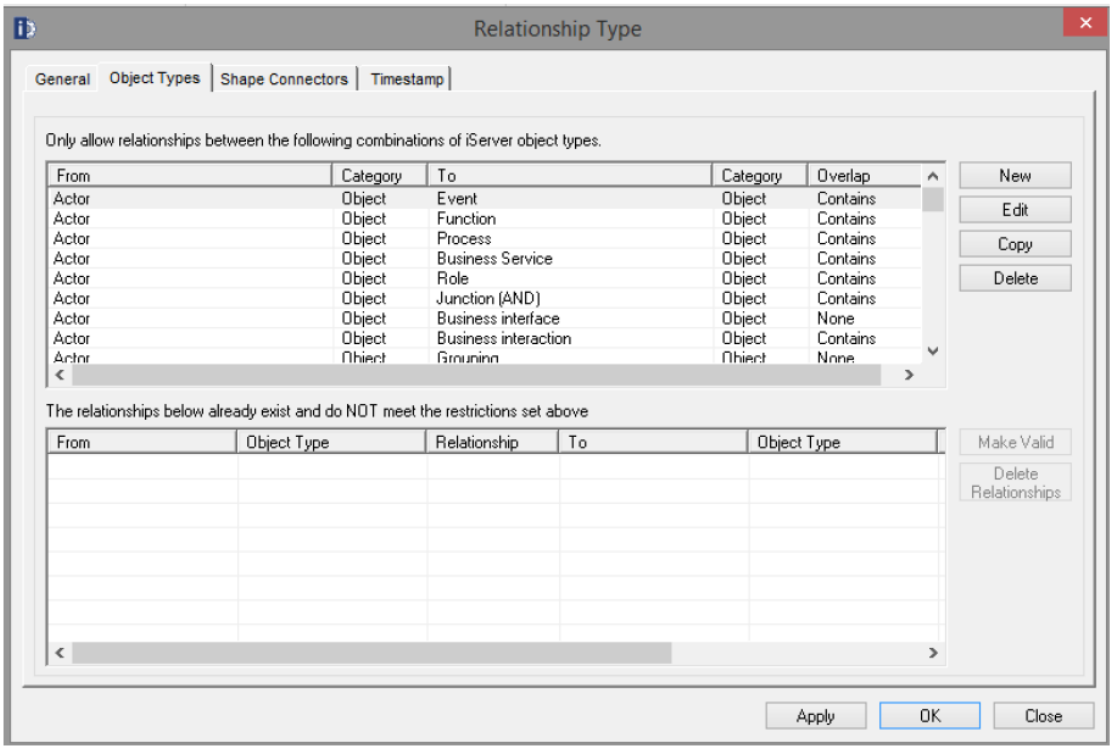


5 Relationship Notation & Coverage

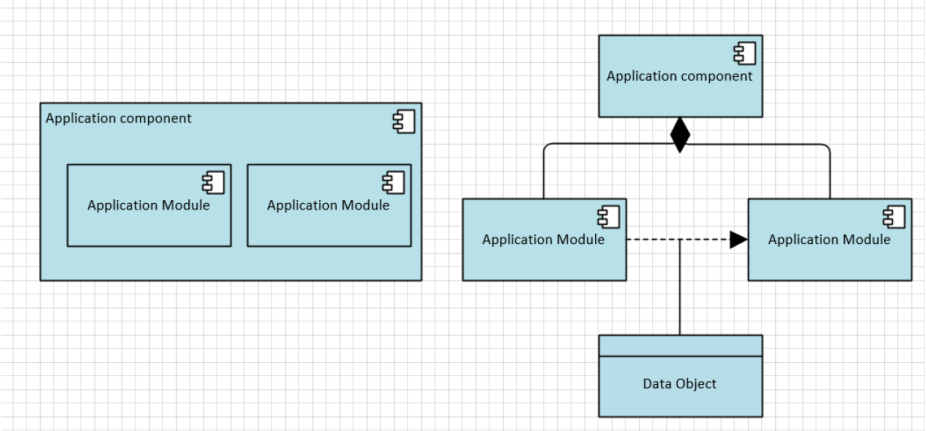
All ArchiMate relationship have been configured in the iServer repository out of the box.

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

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

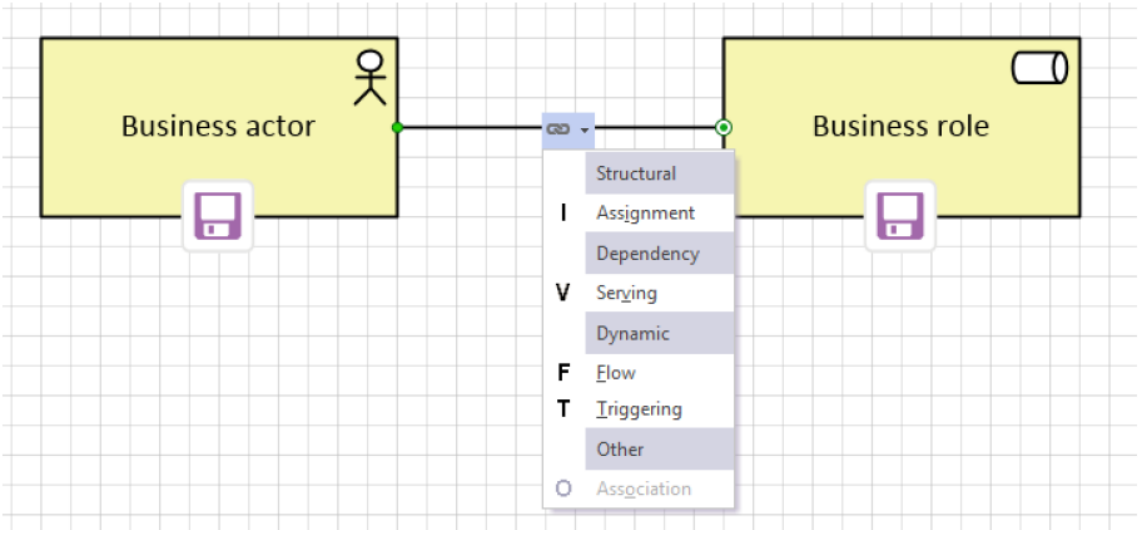


iServer supports the creation of relationships as shown below using overlaps/nesting and connectors.

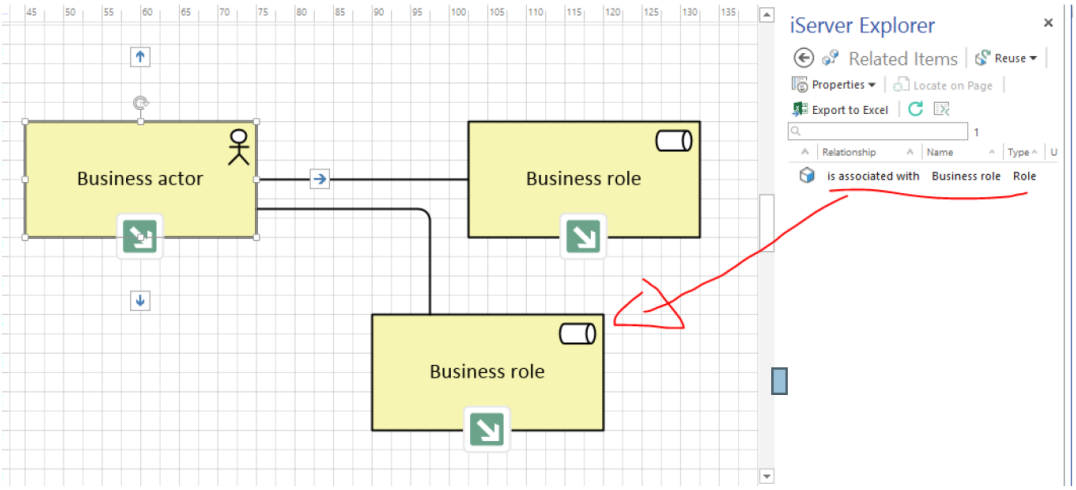


6 Relationship Symbol Reuse

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.

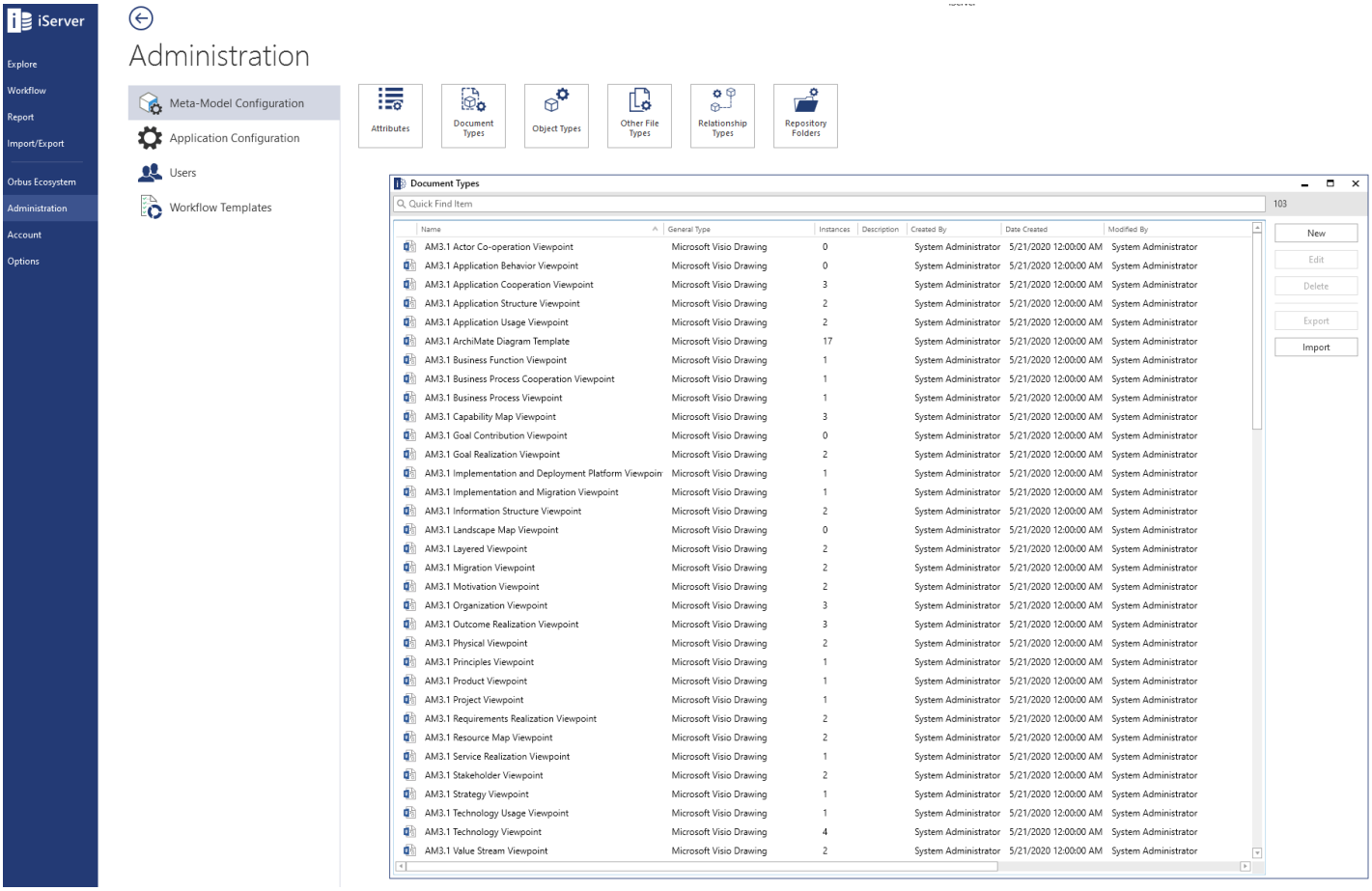


Reuse the relationship between Business Actor and Business Role using the iServer Explorer:

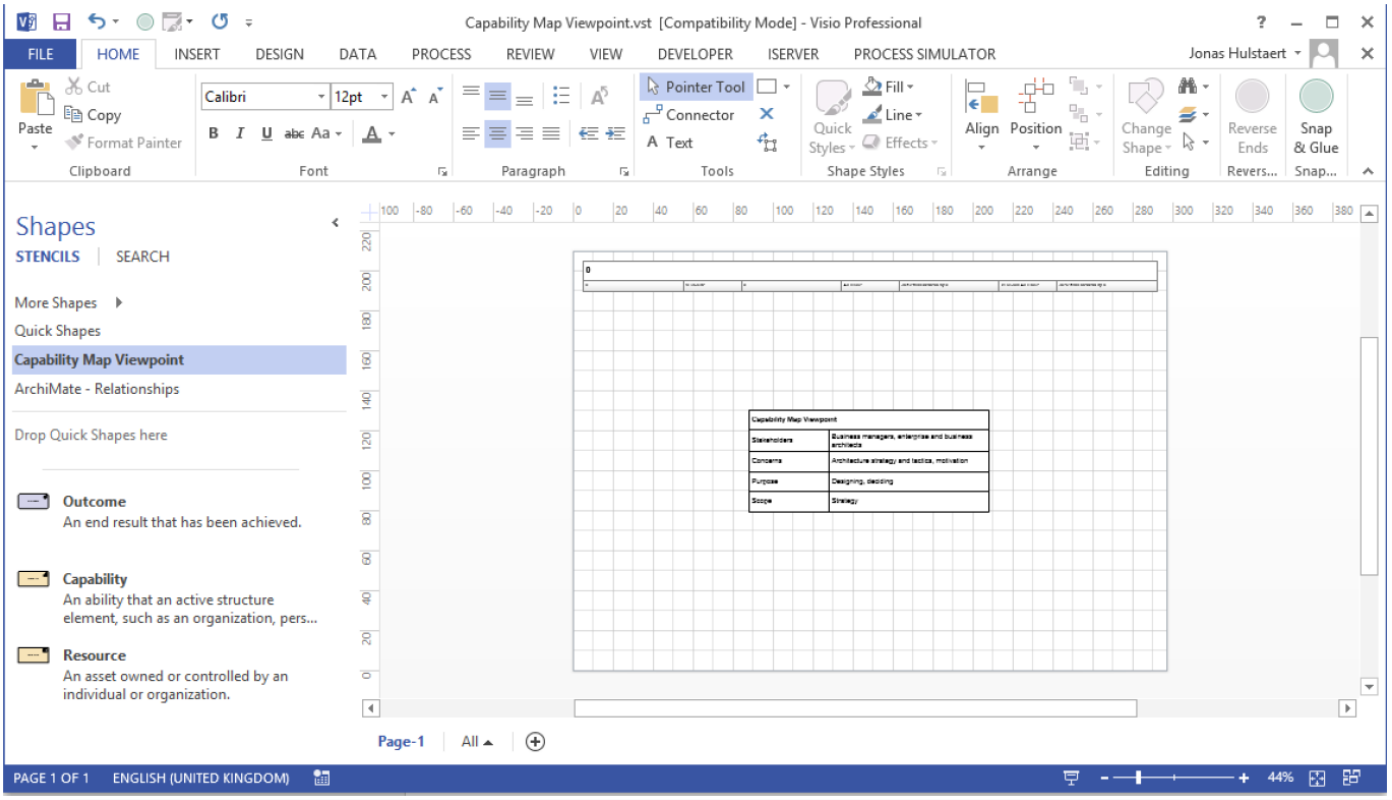


7 Viewpoint Support

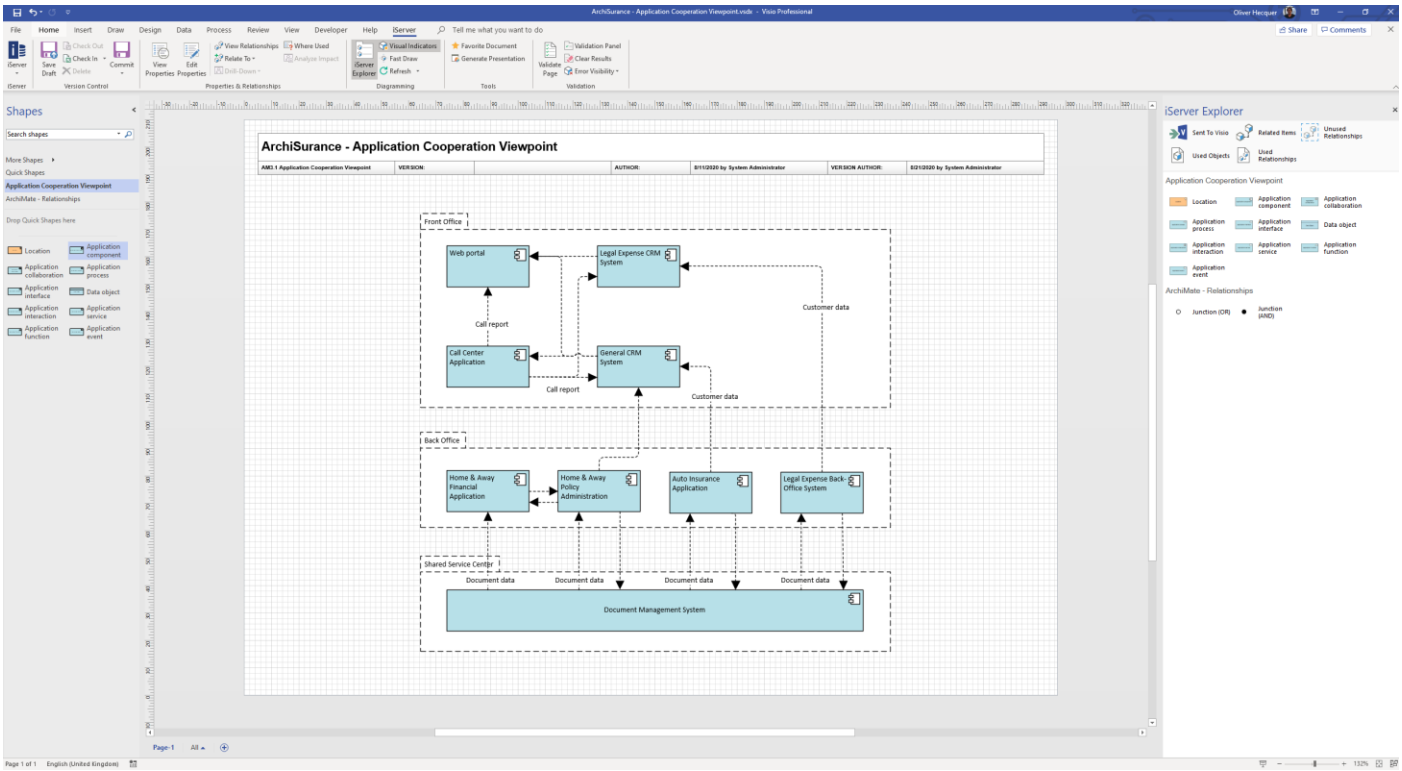
iServer supports all ArchiMate viewpoints as Visio templates and stencils in the repository:



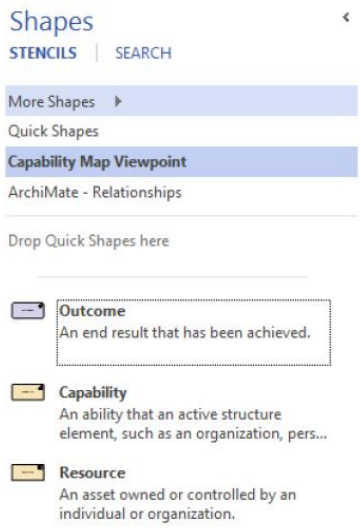
Each template looks similar to the below Capability Map Viewpoint. Each template contains the Viewpoint Description and the ArchiMate 3.1 Elements as Master Shapes. It also contains the Stakeholders, Concerns, Purpose and Scope:



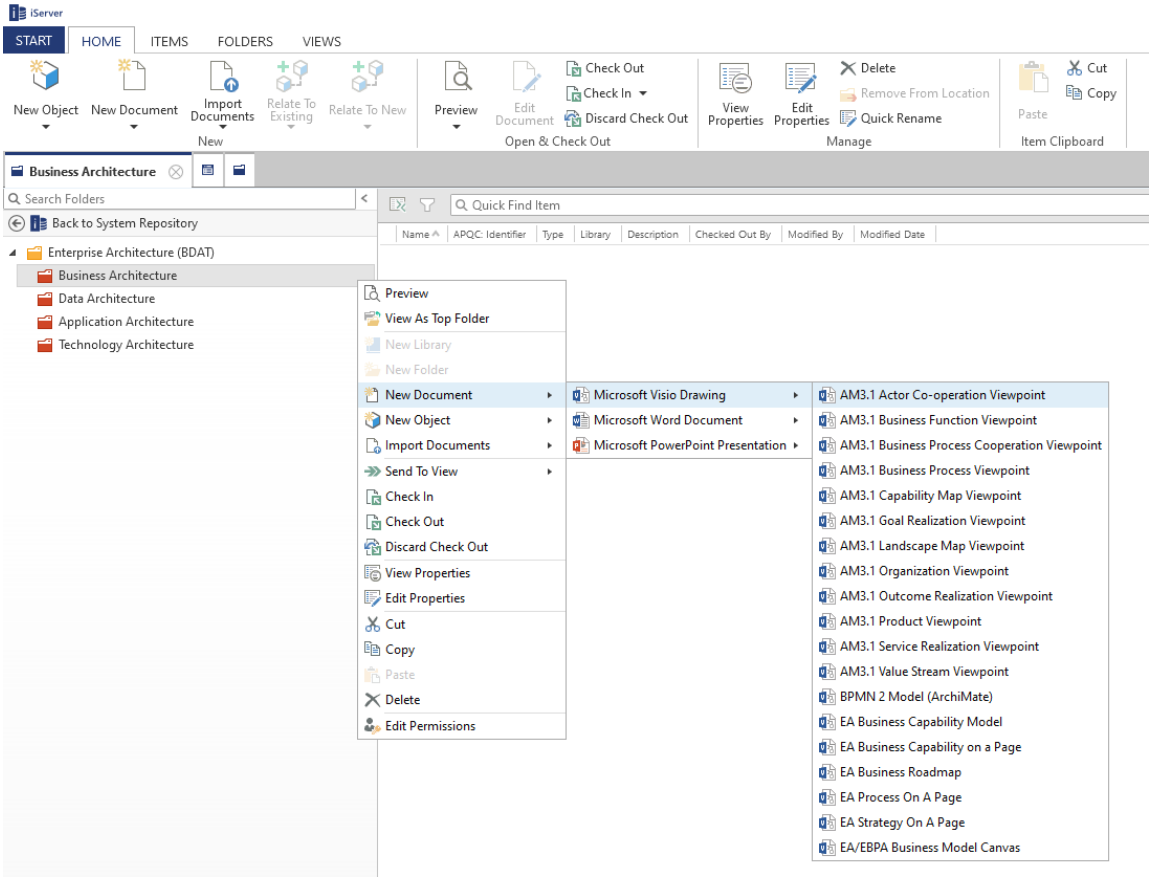
iServer enables users to create models using the elements that already exist via the iServer Explorer, and using new elements by dragging and dropping shapes and connectors from the stencils.



Each viewpoint contains a stencil with the permitted elements (object types and connectors representing the relationship types), e,g. the Capability Map Viewpoint:

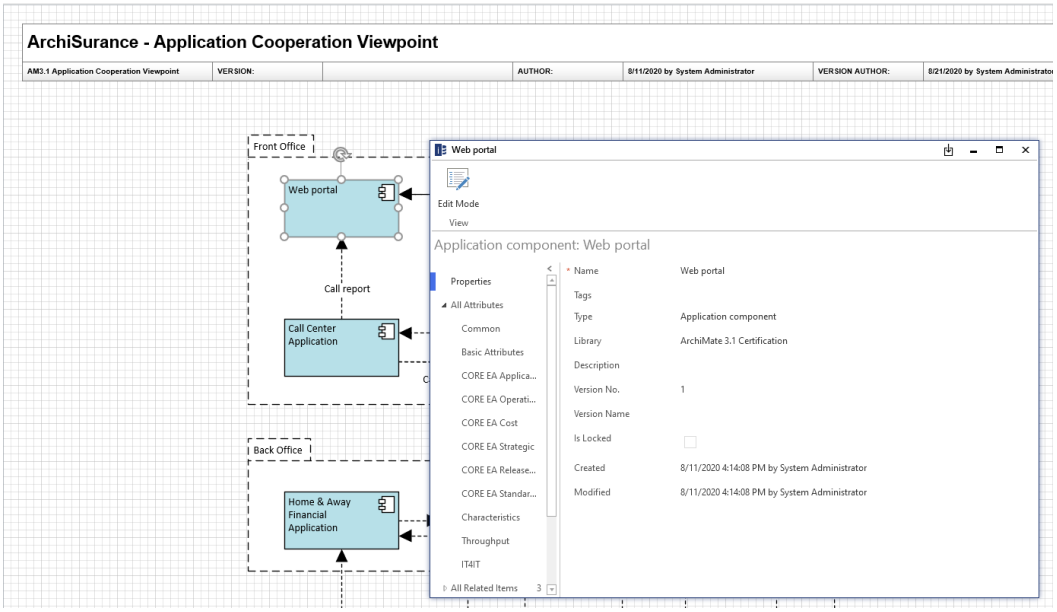


Each view or diagram that can be created in the repository is based on particular viewpoint or template:

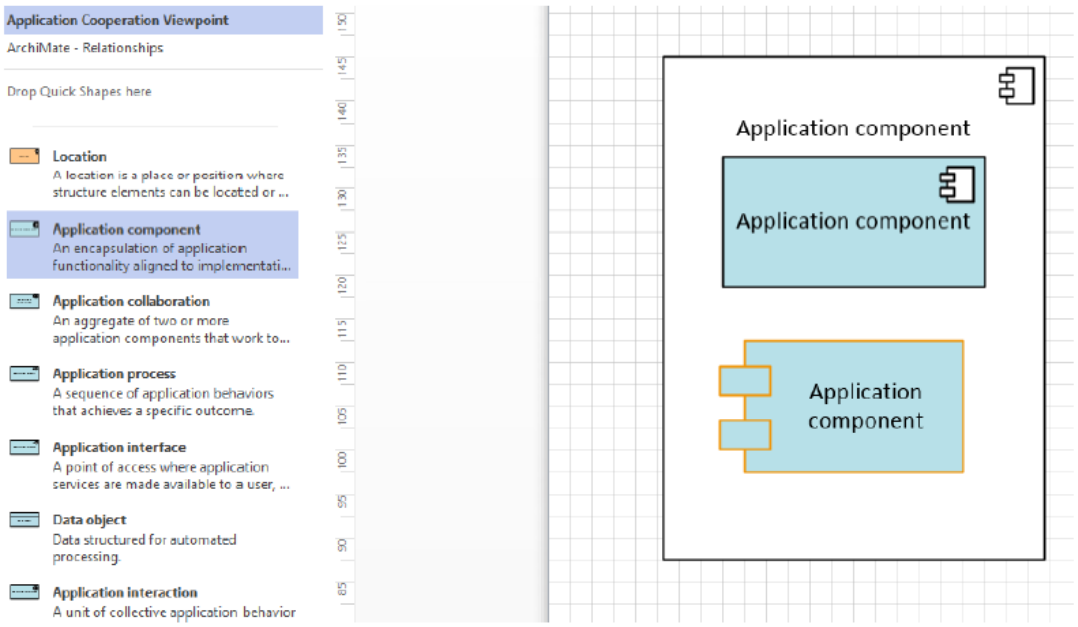


Each view contains only the elements that are defined in the definition of its viewpoint, e.g. the Capability Map Viewpoint only contains the elements: Outcome, Capability and Resource (as per the image on the previous page).

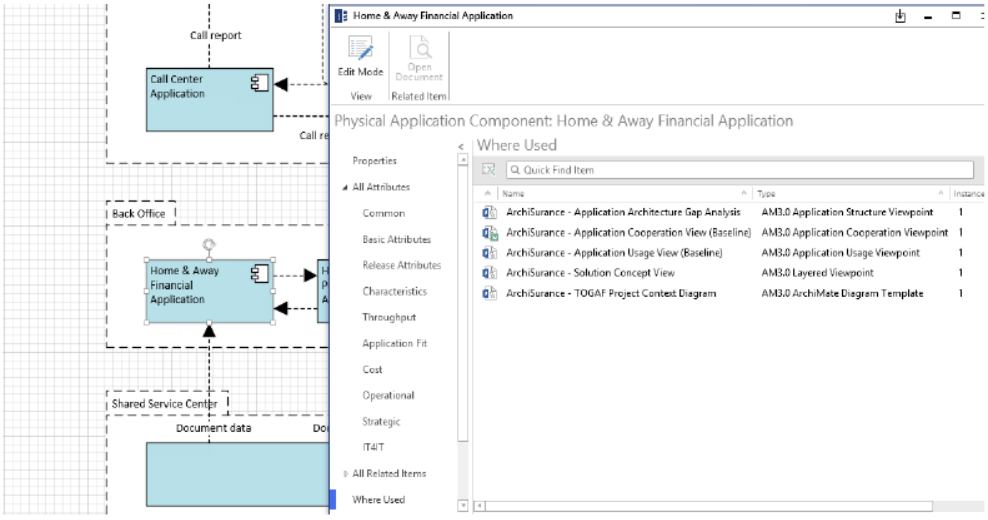
All elements in the views are centrally stored in the database. Objects have unique naming which means that changing an object in one diagram will propagate this change to all instances of this object on other diagrams. The same applies to deleting objects.



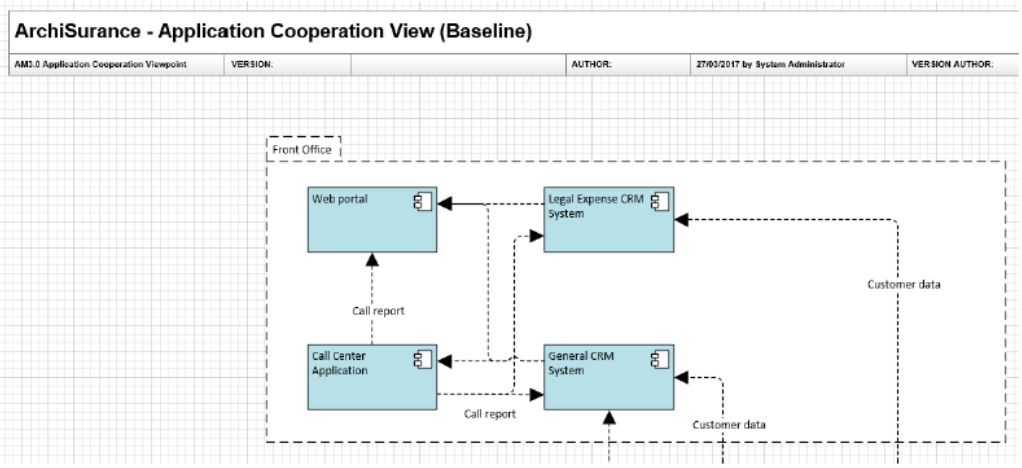
Users can use the Visio formatting functionalities to change coloration, size, line, shadow, etc. of all elements:

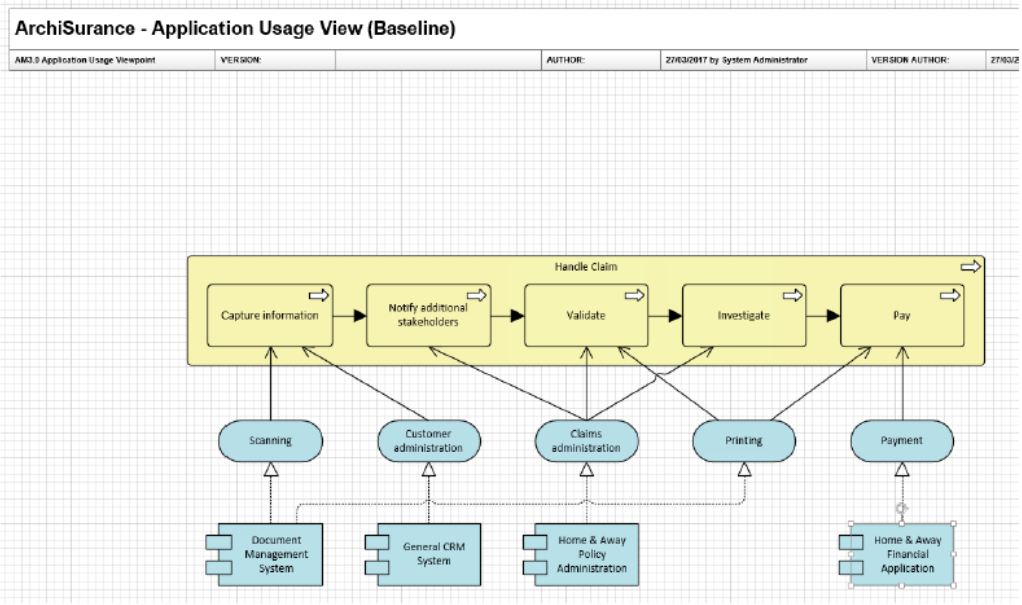


iServer Properties allow you to see the list of views in which a selected element is used, e.g. the Home & Away Financial Application:



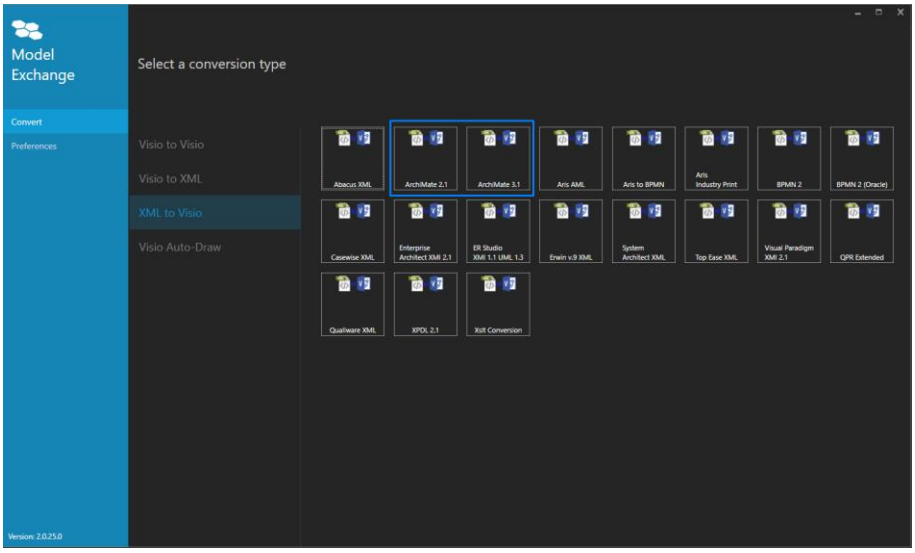
A different graphical notation can be used for an object in a different views:



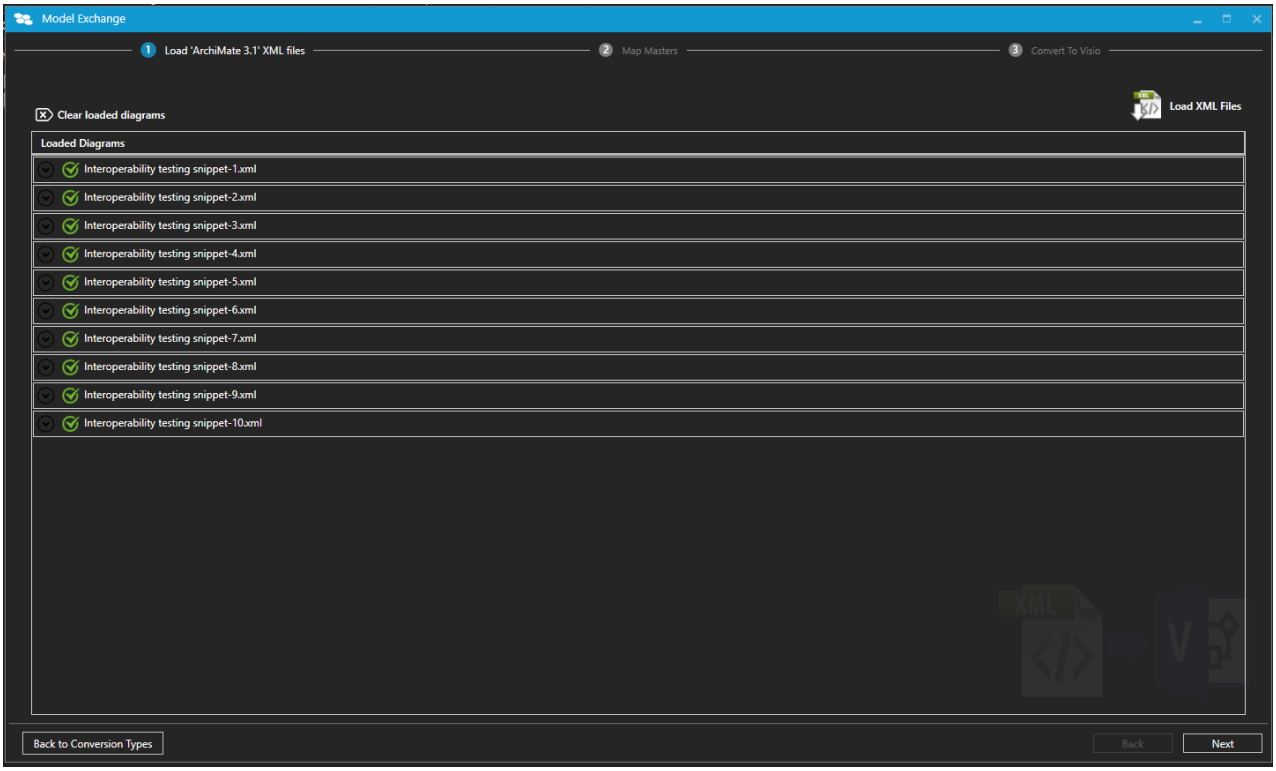


8 Support for ArchiMate's File Exchange Format

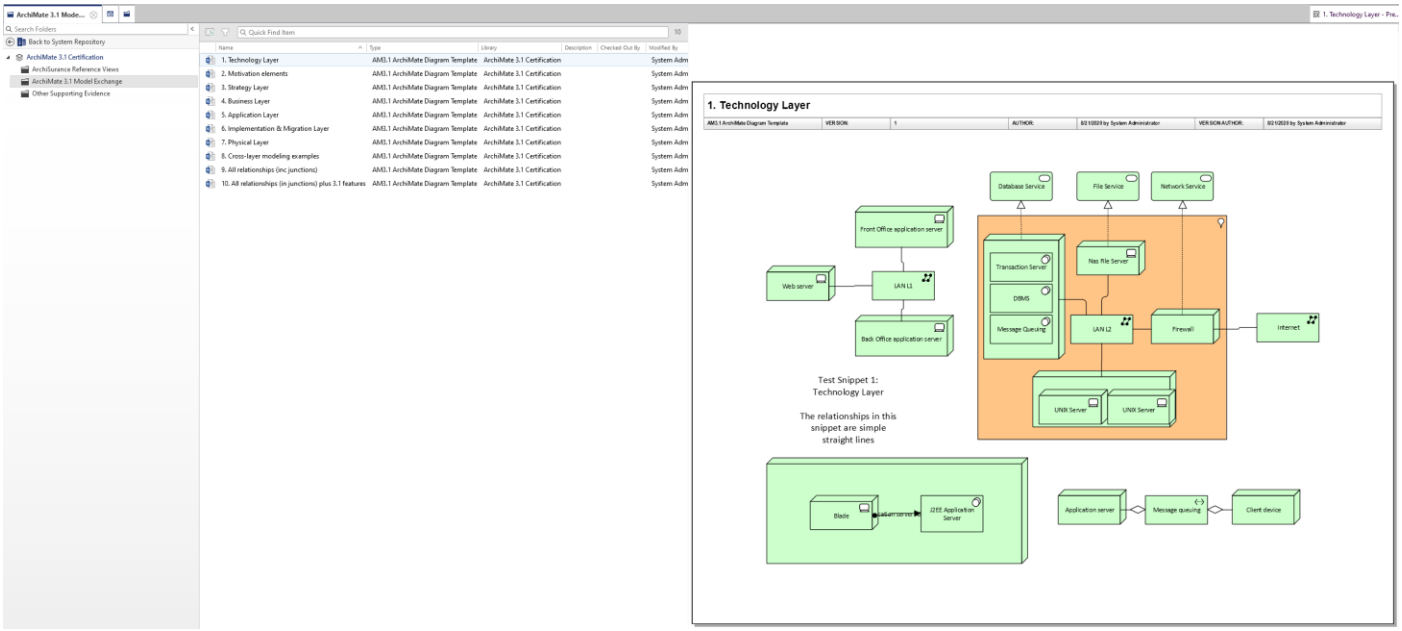
iServer supports the Exchange File Format and allows the import and export of models from/to the iServer Repository using ArchiMate 3.1 XML, via iServer Model Exchange. (Files are stored as Visio format while in iServer):



As an example, the image below shows the ArchiMate 3.1 interoperability test snippets being converted for import into iServer using Model Exchange:

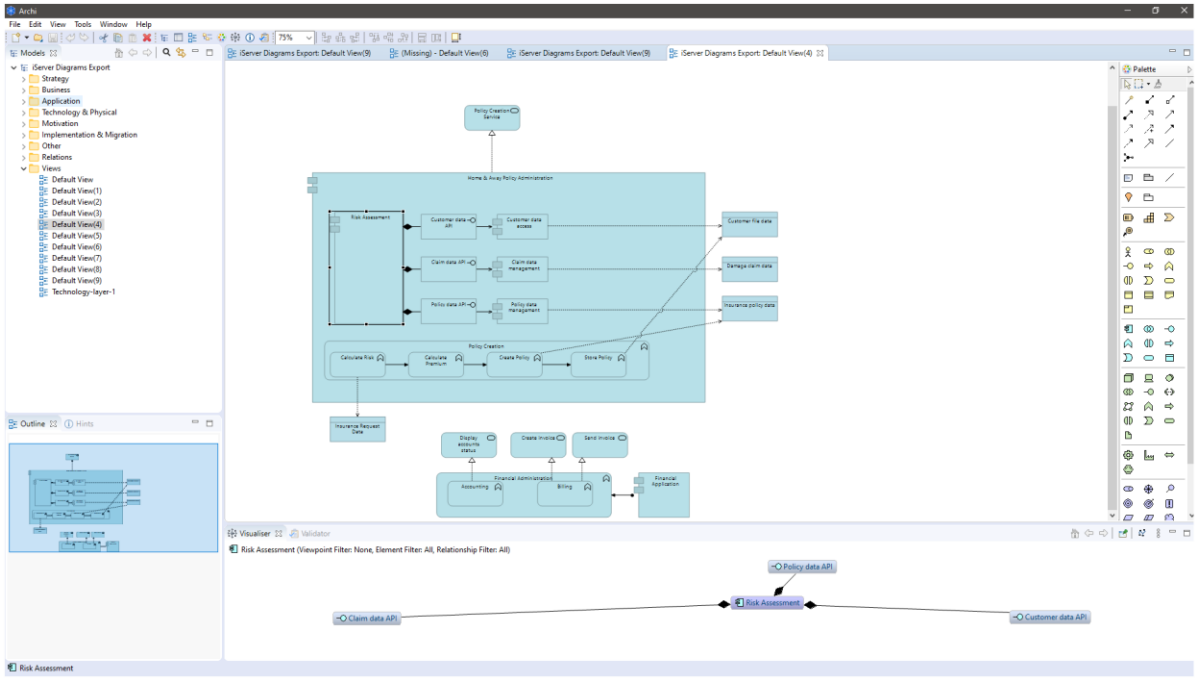


The interoperability test diagrams following successful import into the iServer Repository:



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: