ArchiMate Based Enterprise Architecture Asset Development Tool

Conformance Evidence

June, 2020

Index

1. Instruction

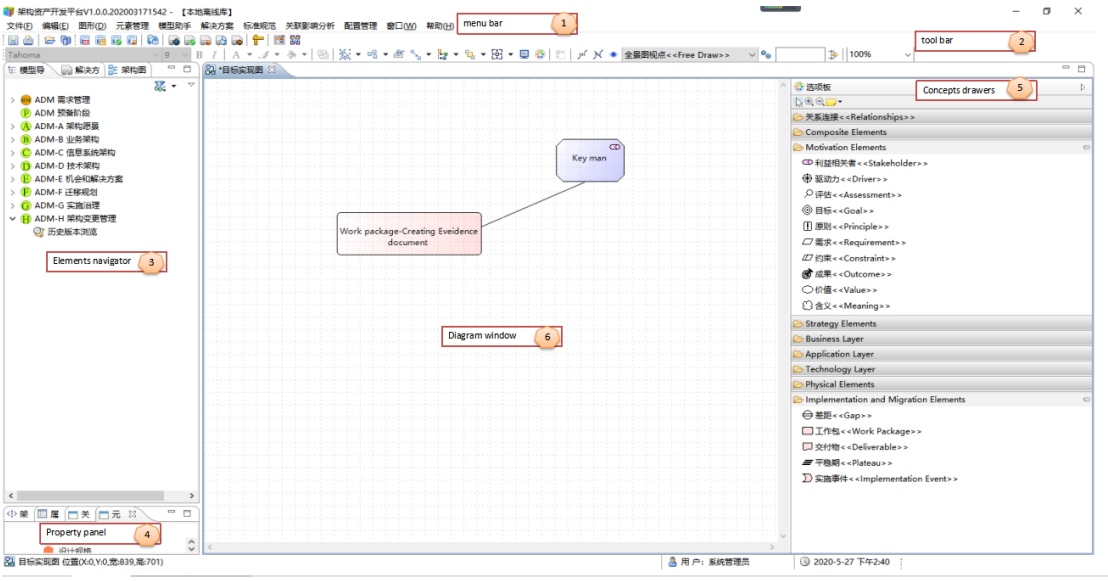
This document is used for the “ArchiMate_3_Tool_Certification” of[**ArchiMate Based Enterprise Architecture Asset Development Tool Ver 1.0** (*1). In which all the evidence references are involved.

*1: which is called **Tecsoon Tool** below.

Tecsoon Tool is a J2EE&C/S application working with Oracle/Mysql database via JDBC. Users can develop their EA in a graphical interface and also they can manage their EA diagrams on which there are elements and relationships as their enterprise assets.

1.1. Default layout

The main layout of **Tecsoon Tool** is showed below(by default). User can move a function panel to an other place by dragging it.



- **1 Menu bar**

  User can choose different functions here. Mainly include,

  “文件”/File: save options, import/export exchange files,etc.

  “编辑”/Edit: do,undo,cut,copy, paste,etc.

  “图形”/Diagram: color panel, font, line style,etc.

  “元素管理”/Element Management:batch import elements,manage elements, request confirming, confirm elements,etc.

  “模型助手”/Model Assistant: create a new model category.

  “解决方案”/Solution: create a new solution,manage solutions,request confirming, confirm solutions,etc.

  “标准规范”/Standard: Standard management.

  “关联影响分析”/Relation Analysis: element usage, relations with other elements,etc.

“配置”/Configuration: Tool configurations.

,etc.

- **2 Tool bar**

  User can find some shortcuts of funcitons.

- **3 Elements navigator**

  There are several views where user can select objects with different structures. Models navigation view, elements are grouped by model category created by user. Solution View, user can explore solutions and those elements involved. ADM view, all the elements are grouped by ADM phases including solutions.

- **4 Property panel**

When user selected any object(element, relationship) on the diagram window, where the attributes of the object will be showed.

- **5 Concept drawers**

Elements of different area are showed by the mean of drawers. Relationships also putted in relationships drawer.

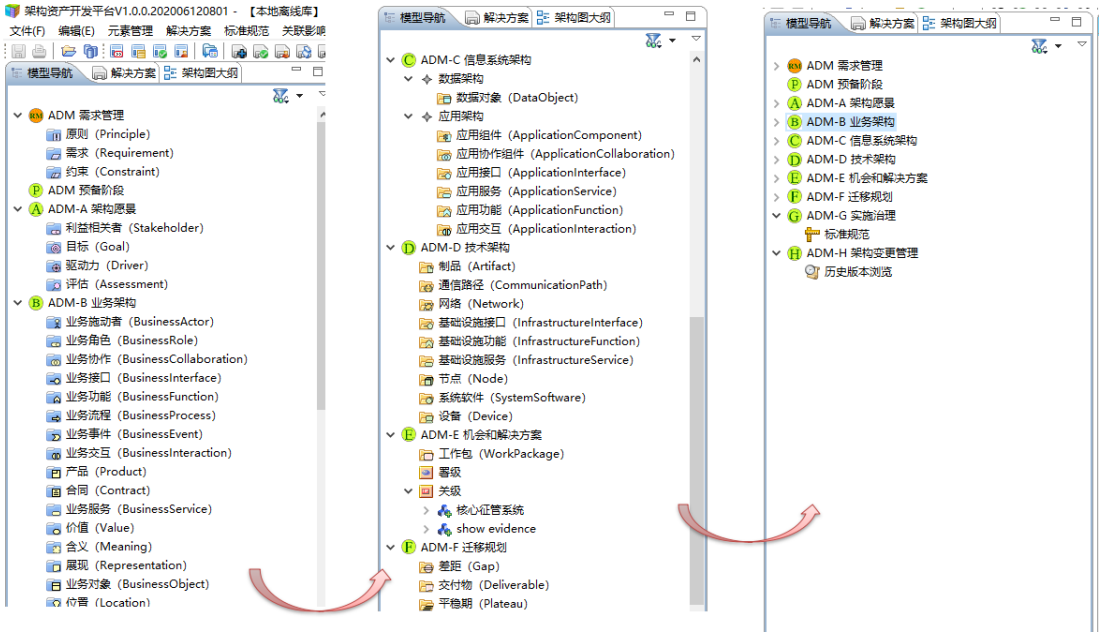
- **6 Diagram window**

User can create or modify a EA diagram here with specified viewpoint(free mode is included). By specifying a viewpoint of the diagram, elements are filtered with viewpoint reference. Drawers on the right side will be filtered too. Drawing easily. User can drag either an element or a relationship from the drawer onto a diagram to create the object.In order to reuse the elements created, user can drag a element from the AE panel beside the property panel on the left bottom of the main window.

1.2. Tool Features

- Multiple view modes

  There are several views where user can select objects with different structures. Models navigation view, elements are grouped by model category created by user. Solution View, user can explore solutions and those elements involved. ADM view, all the elements are grouped by ADM phases including solutions.



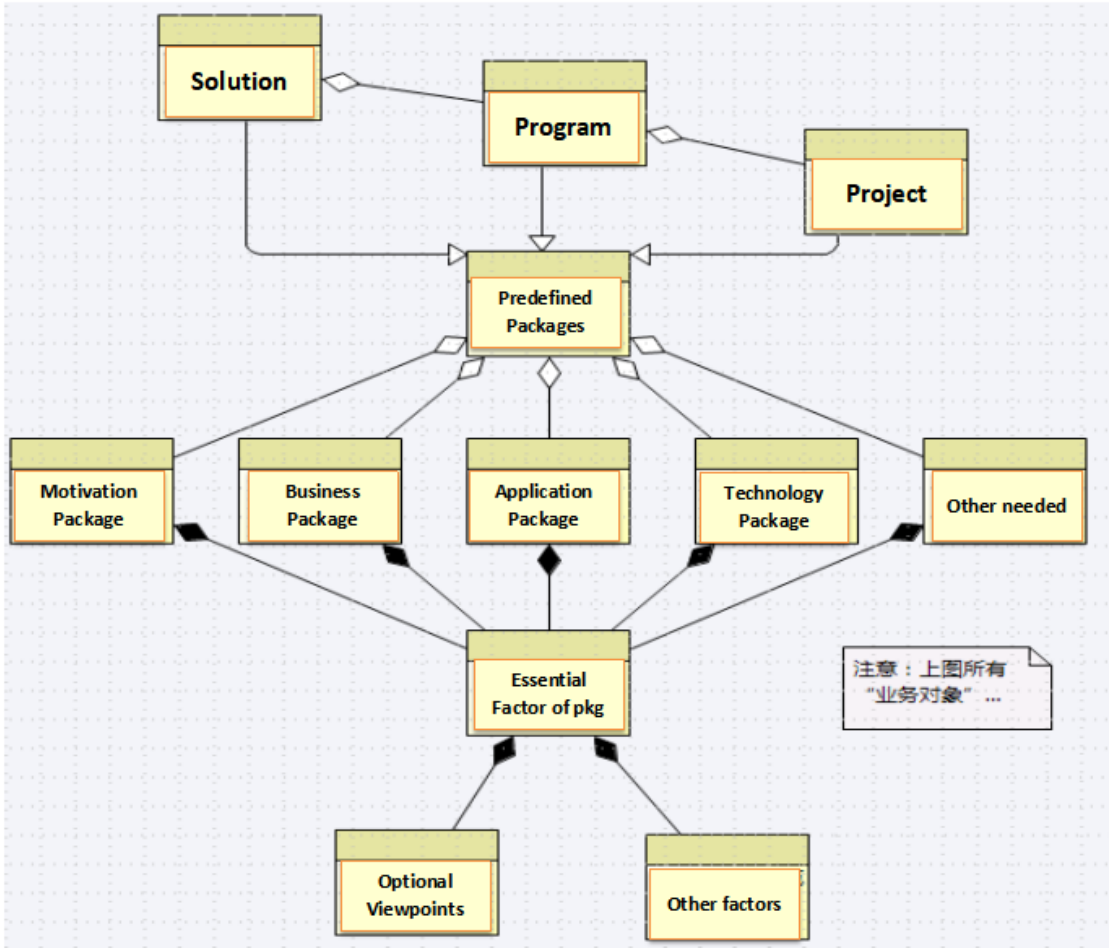
ADM view

- Elements reference

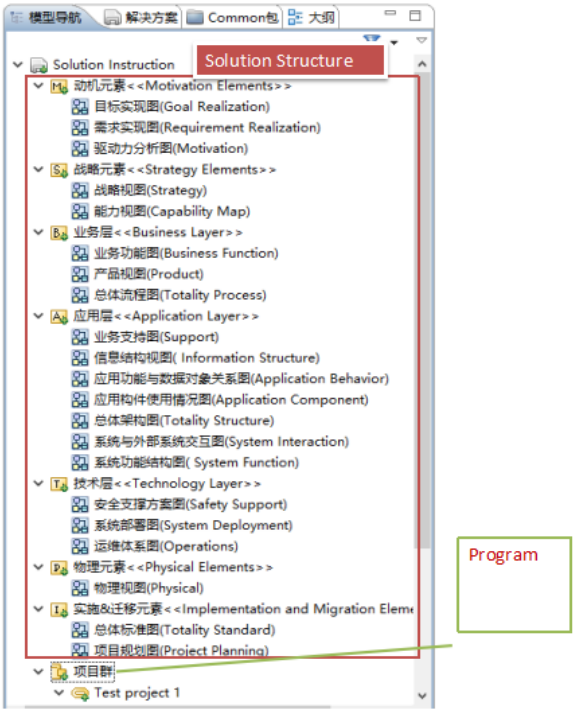
When user developing a new EA diagram, he(she) can reuse an existing elements by reference which means no new element is created, just reusing an element.

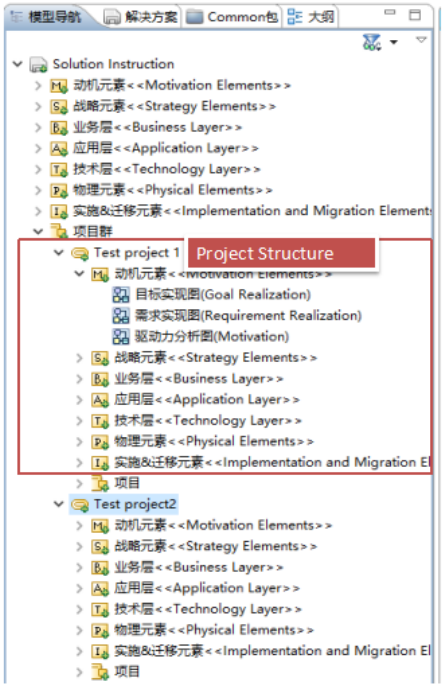
- Predefined solution structure

In **Tecsoon Tool,** the default structure when user creating a new solution can be predefined.Logical structure of solution is shown below.



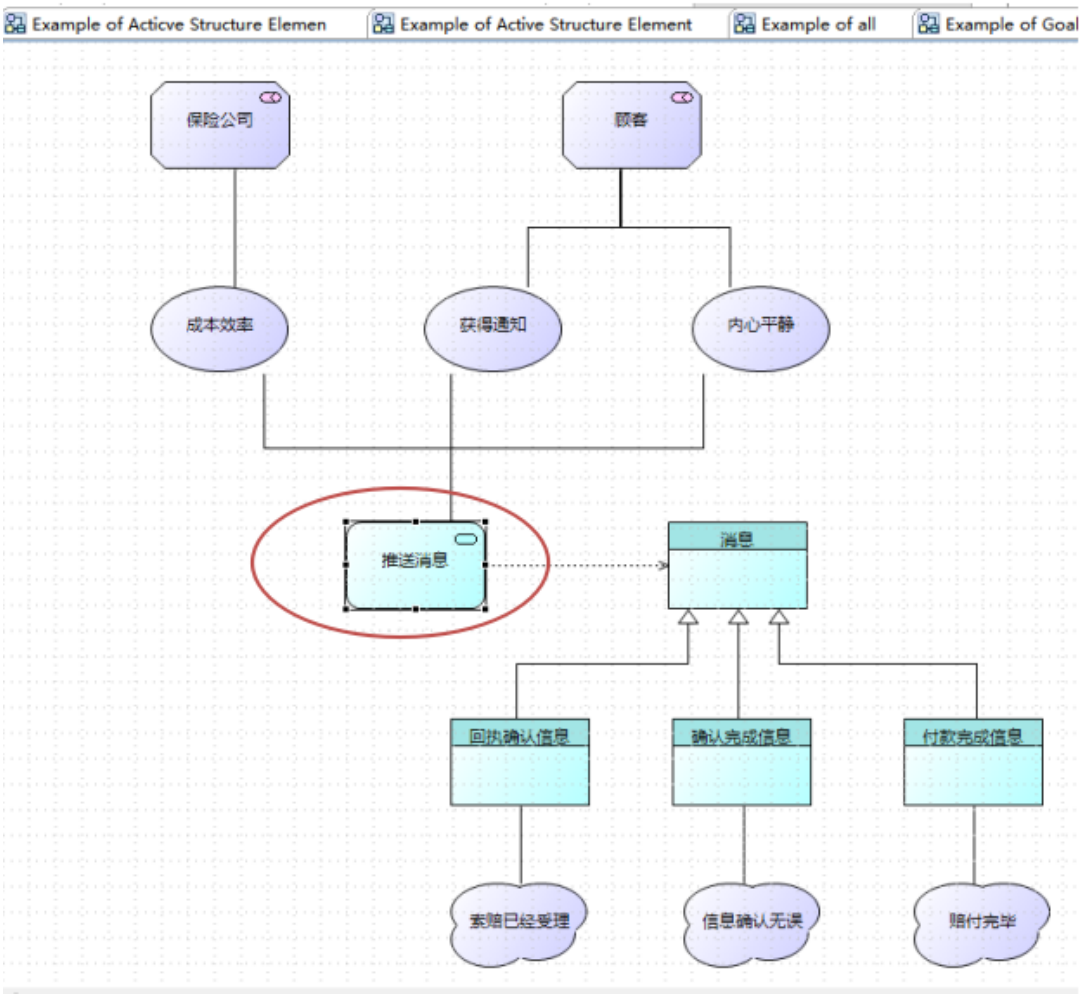
When user create a new solution, predefined structures will be created.



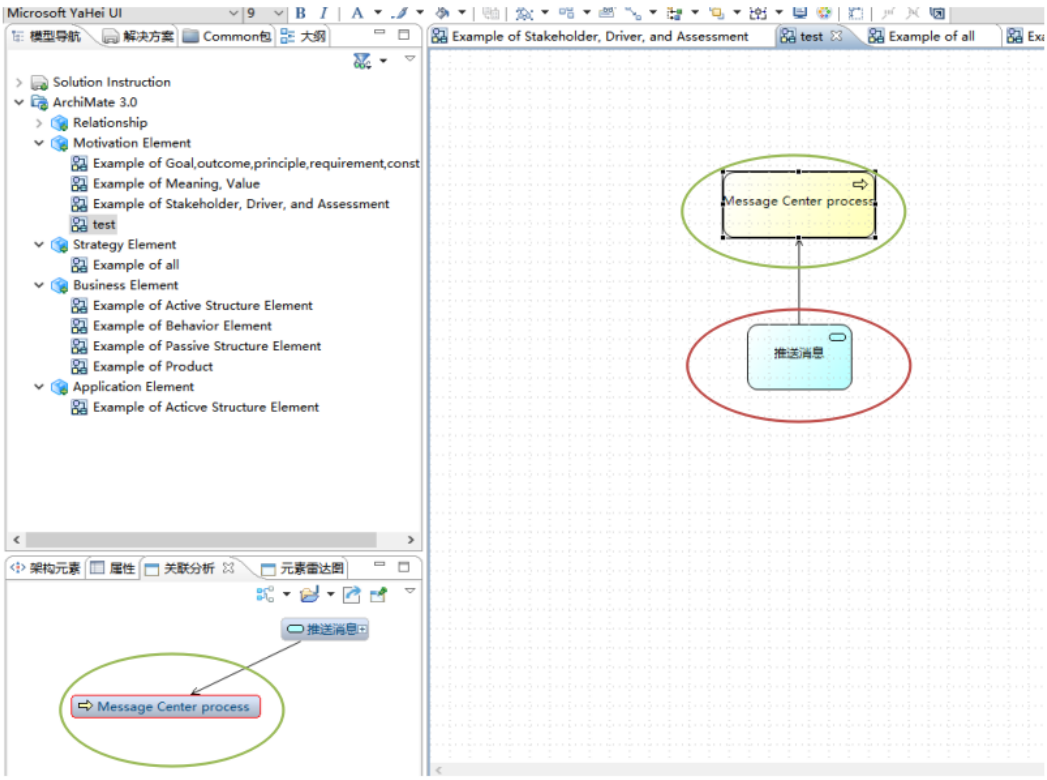


- Relation Analysis

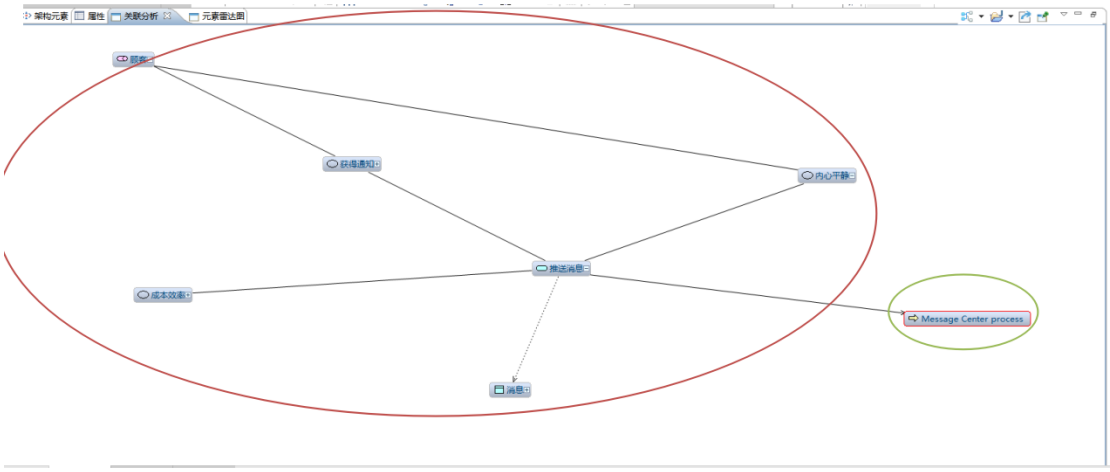
When we create a new element or quote an existing element on a EA diagram, relations between this element and other relating elements will be extracted, and we can look up their relationships on the relation analysis panel beside the property panel.



On the first diagram we build relations between application service “推送消息” and other elements.



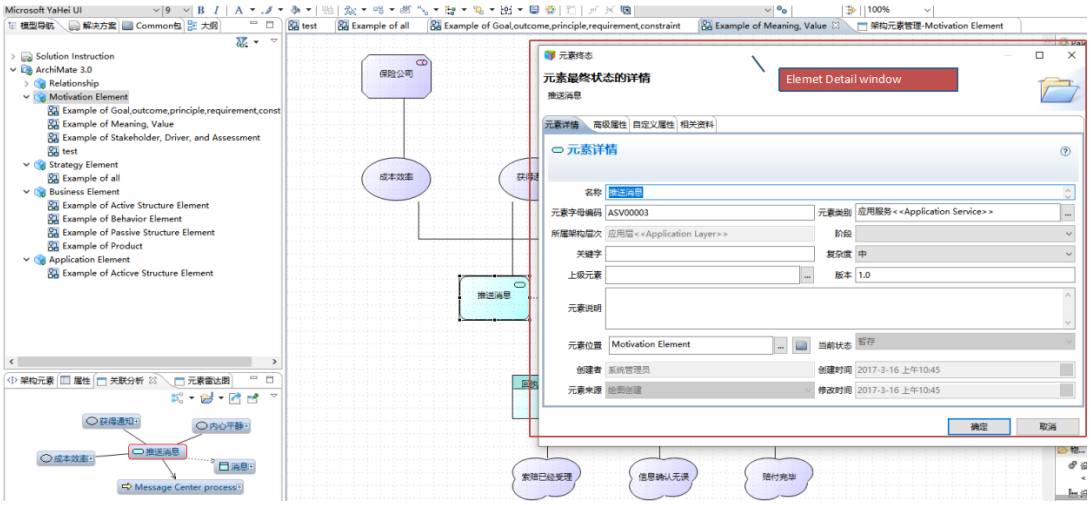
Then we create a new business process element Message Center process, and relate to “推送消息” application service which we have created on the first diagram. Then we can see the relations between the new-created elements and relating elements via application service “推送消息”.



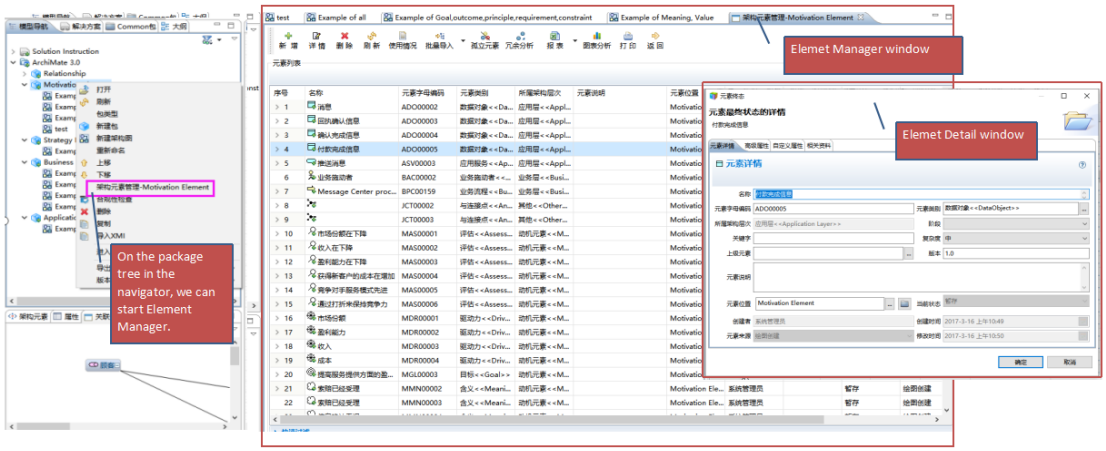
- Two ways to manage elements

There a two ways for user to manage EA elements.One is on the diagram the other is on the equivalent window which is called Element Manager.

User can open Element Detail window to edit attributes of en element shown on the diagram.

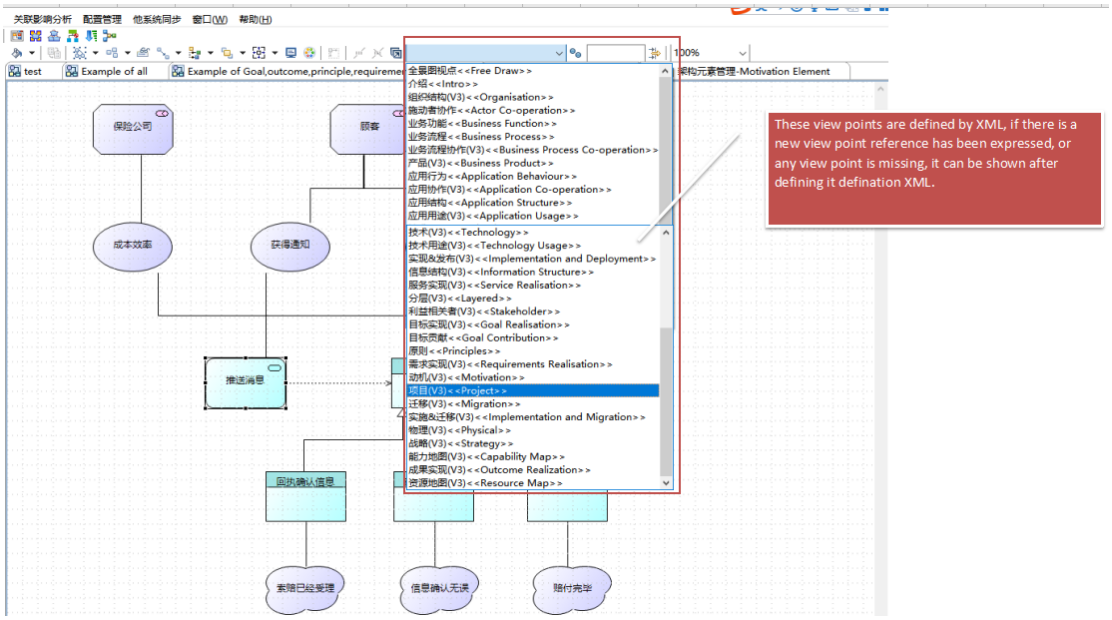


User can manage their elements in the package their had selected on the package tree in the navigator.

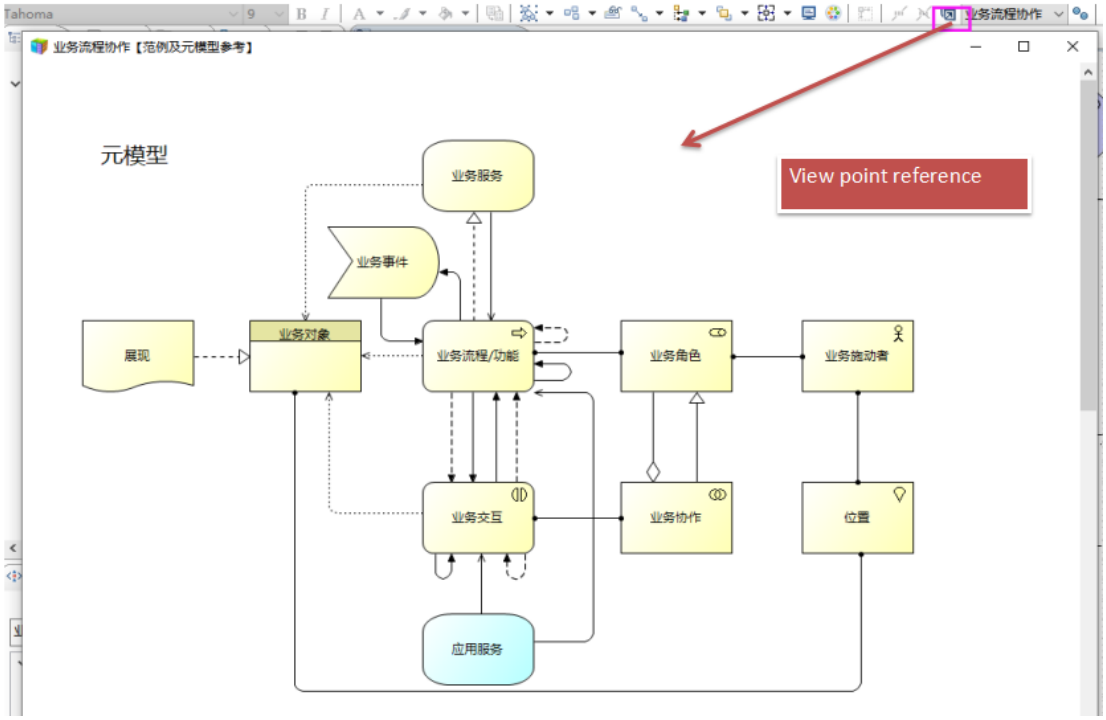


- All view points supporting

When user create an EA diagram, all view points are available and also the references of those view points.



These view points are defined by XML, if there is a new view point reference has been expressed, or any view point is missing, it can be shown after defining it definition XML.



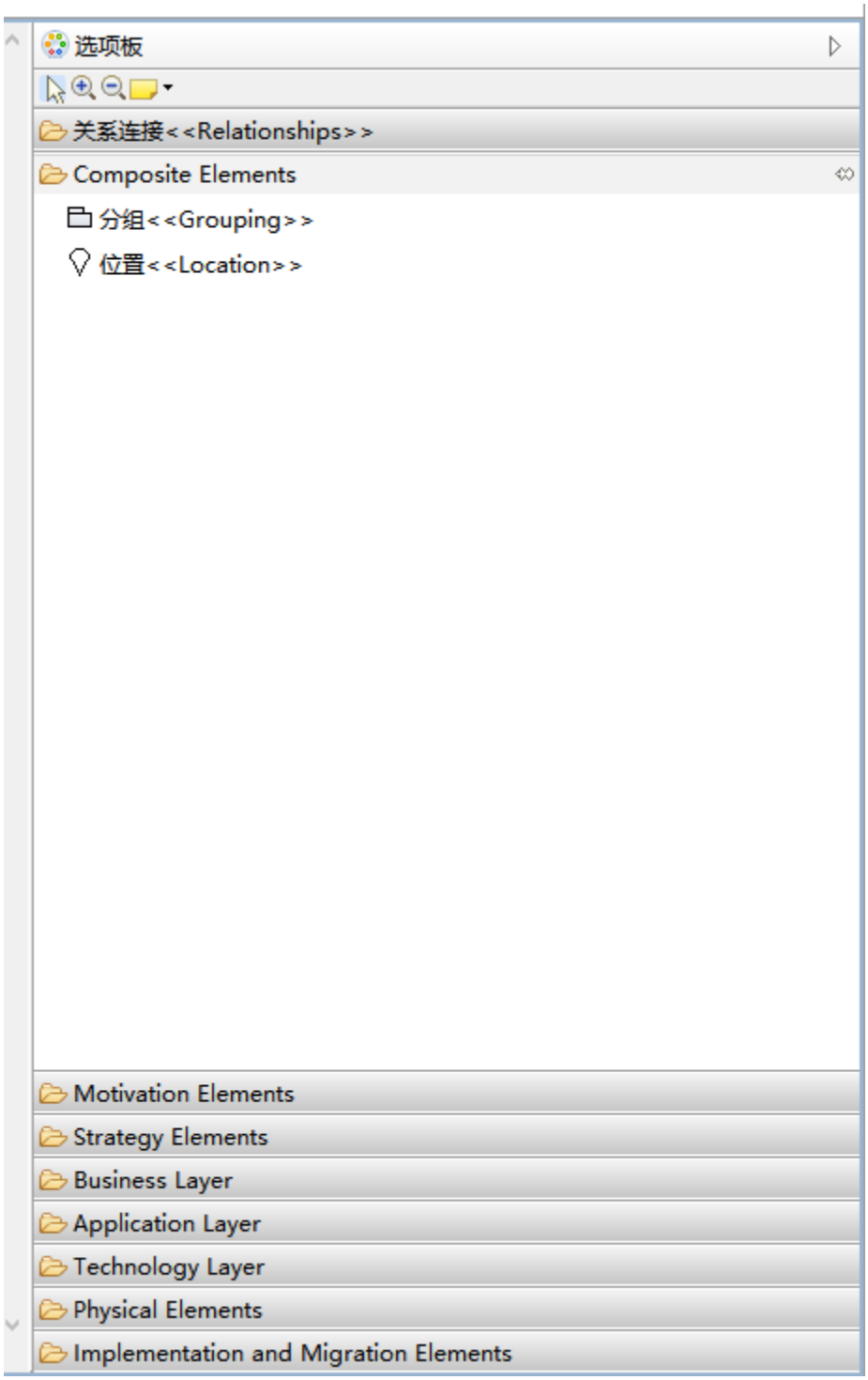
2. Evidences of Conformance Requirements

2.1. Concept Coverage

[*A conforming product shall support all of the concepts defined in Chapters 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, and 14 of the ArchiMate 3.1 Specification.*]

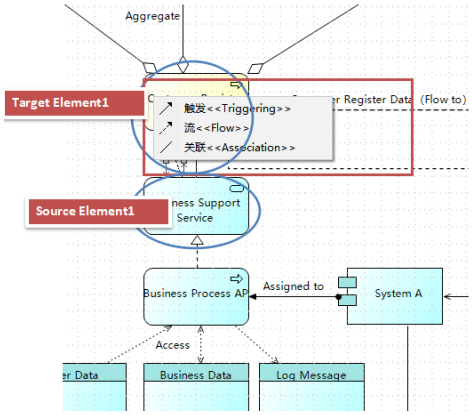
When developing an EA diagram, drawers full with elements and relationships will show on the right side of the interface of **Tecsoon Tool**(by default). All the ArchiMate 3.1 concepts are supported.

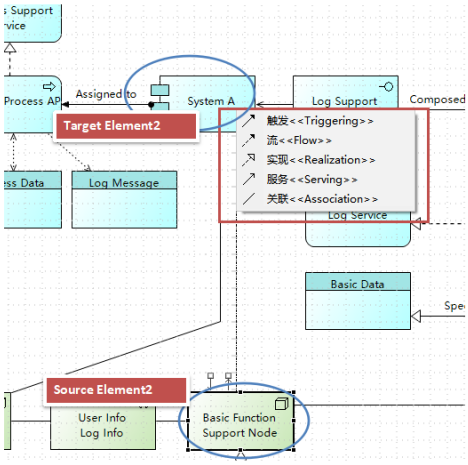
2.1.1. All the relationships



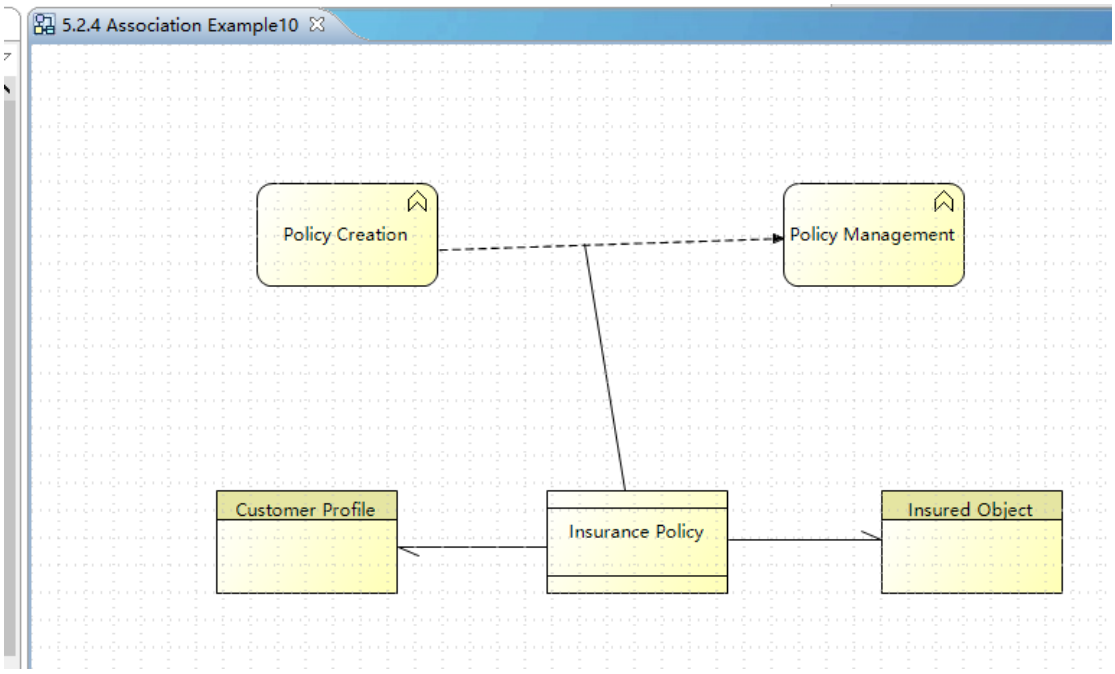
- About Cross-Layer Dependencies

As the flowing, when user set the relationship form a source element to a target element, Tecsoon Tool will show the optional relationships automatically as those defined.

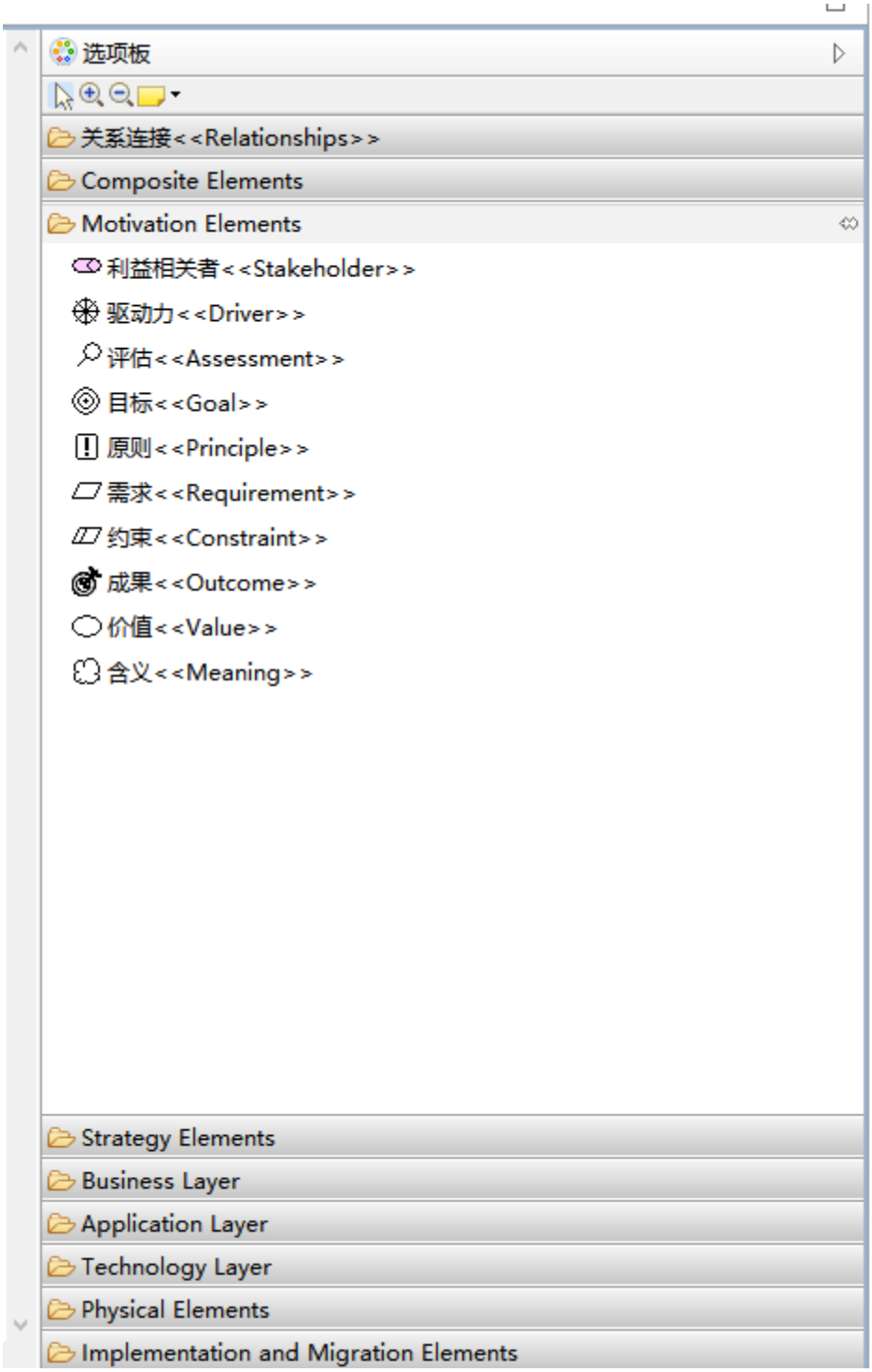


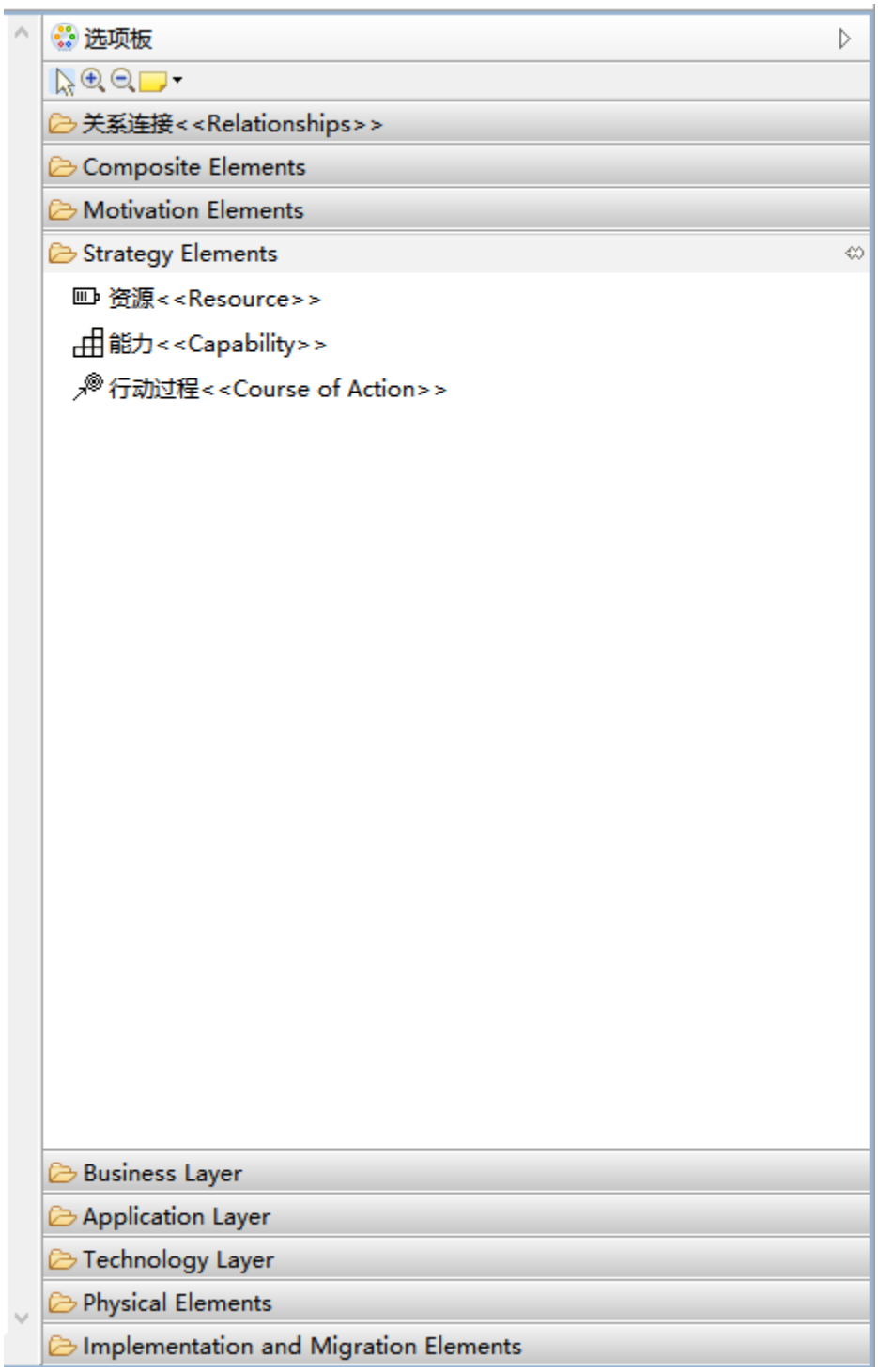


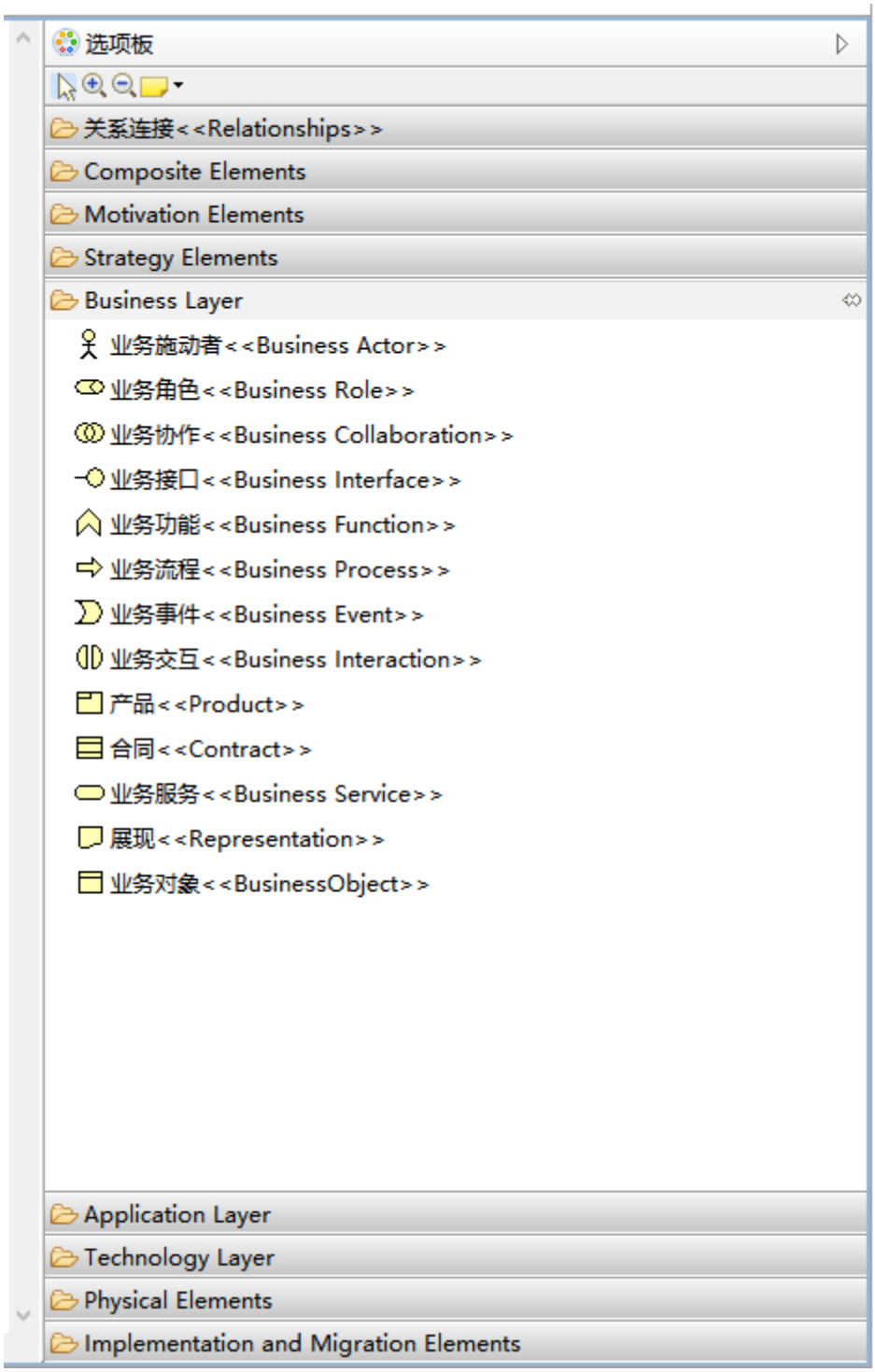
- About [WWW:5.2.4 Association Relationship,Example10]

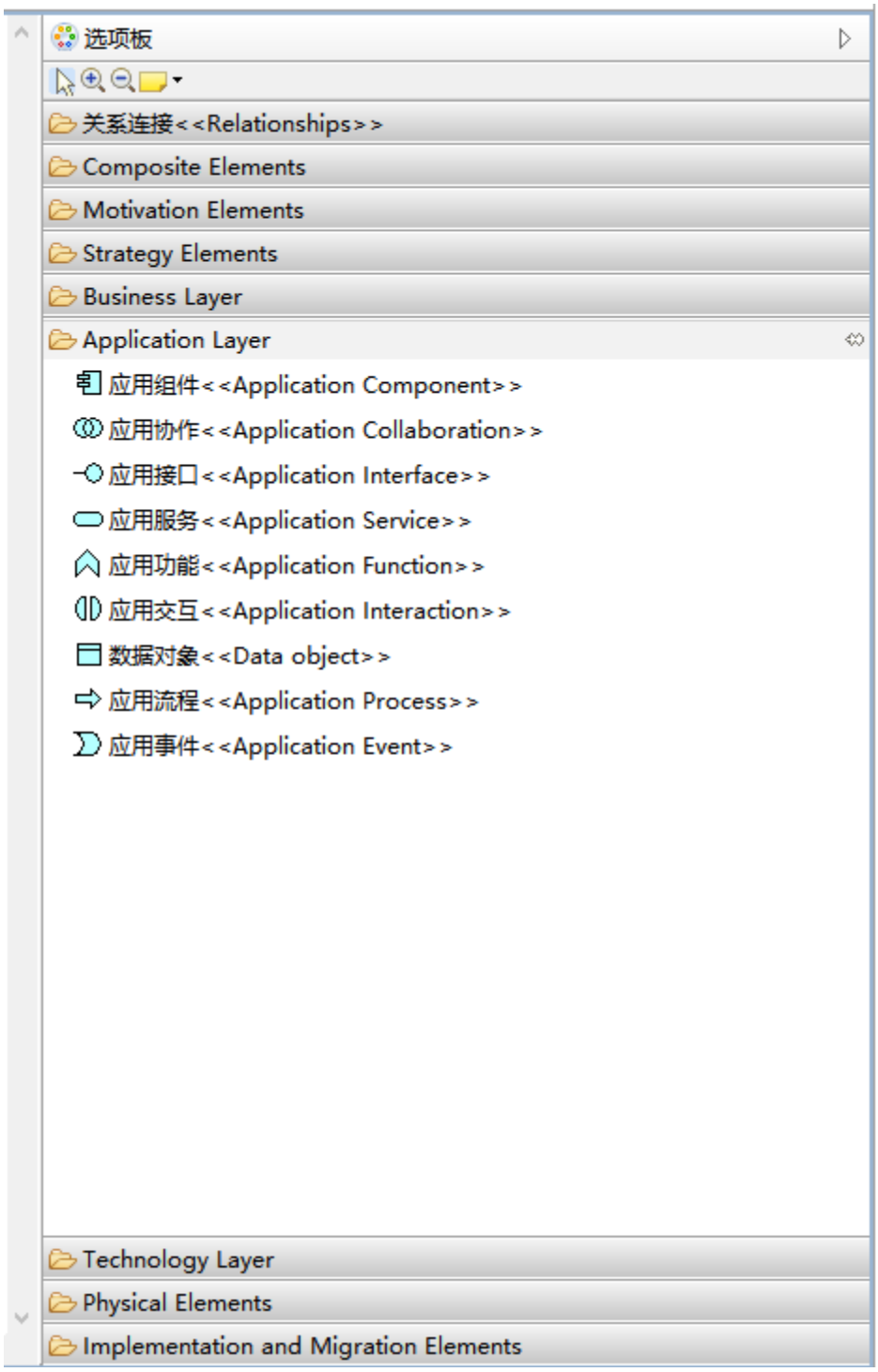


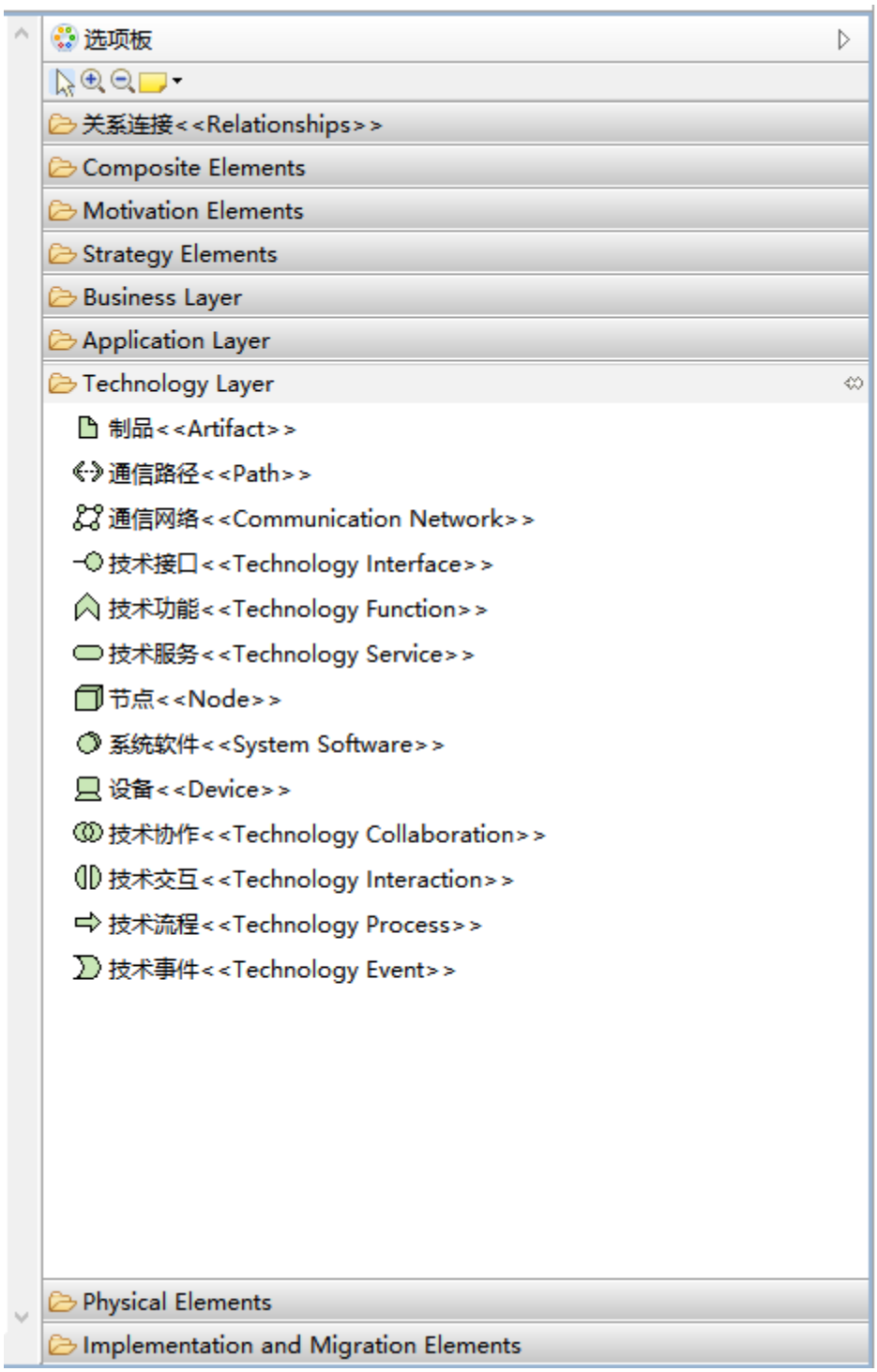
2.1.2. All the elements

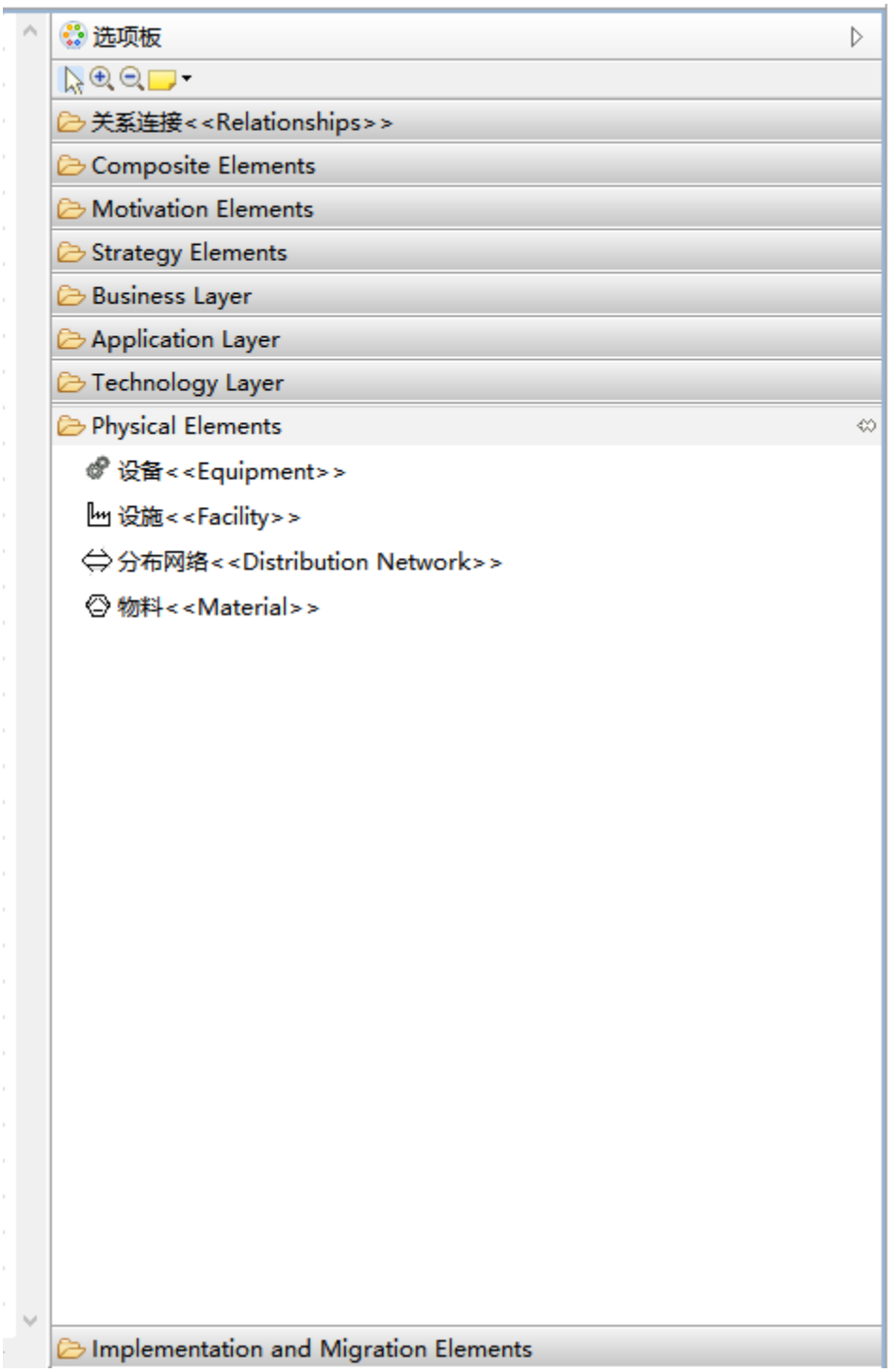


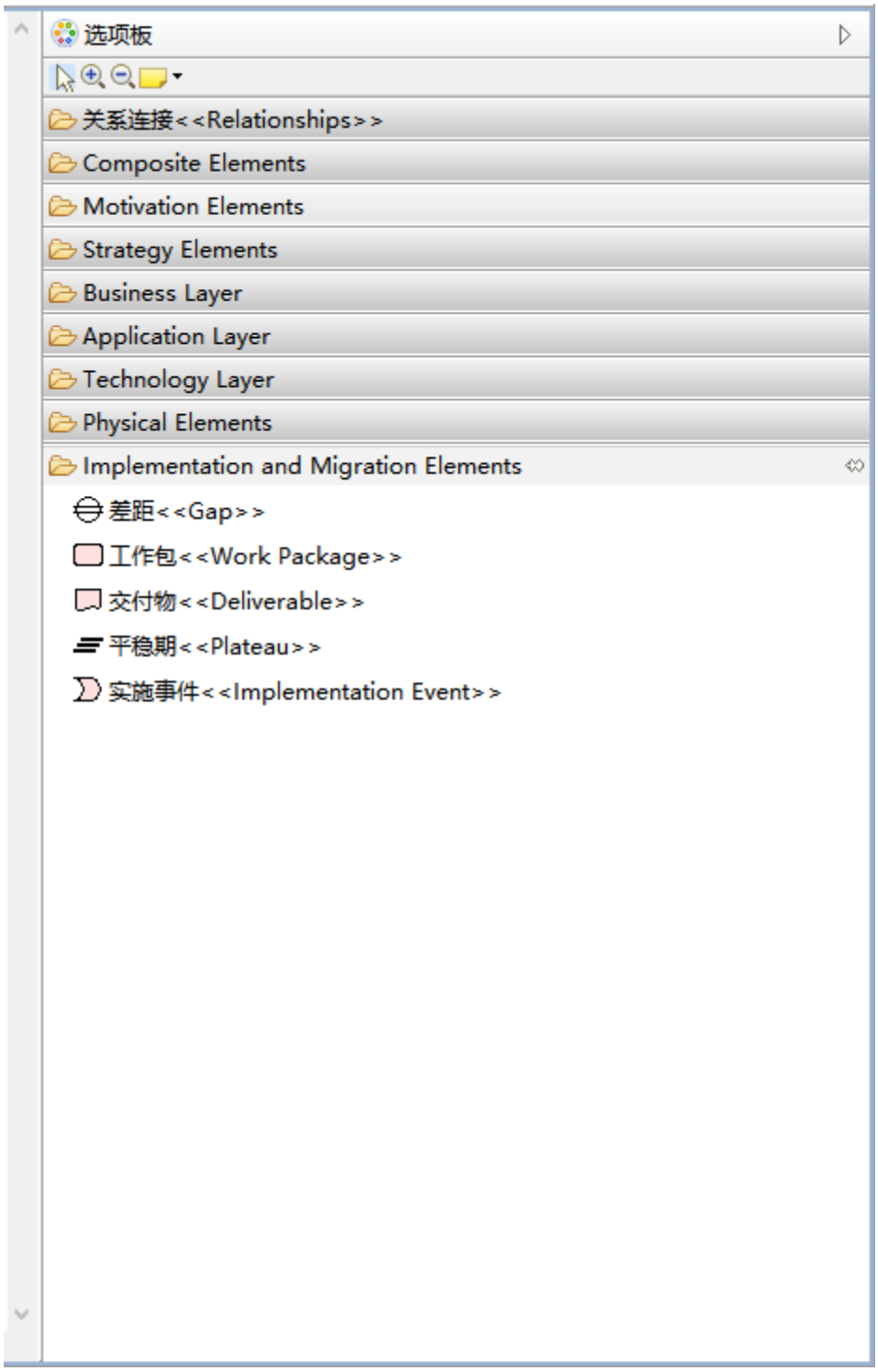

选项板
关系连接<<Relationships>>
Composite Elements
Motivation Elements
Strategy Elements
资源<<Resource>>
能力<<Capability>>
行动过程<<Course of Action>>
Business Layer
Application Layer
Technology Layer
Physical Elements
Implementation and Migration Elements


选项板
关系连接<<Relationships>>
Composite Elements
Motivation Elements
Strategy Elements
Business Layer
业务施动者<<Business Actor>>
业务角色<<Business Role>>
业务协作<<Business Collaboration>>
业务接口<<Business Interface>>
业务功能<<Business Function>>
业务流程<<Business Process>>
业务事件<<Business Event>>
业务交互<<Business Interaction>>
产品<<Product>>
合同<<Contract>>
业务服务<<Business Service>>
展现<<Representation>>
业务对象<<BusinessObject>>
Application Layer
Technology Layer
Physical Elements
Implementation and Migration Elements

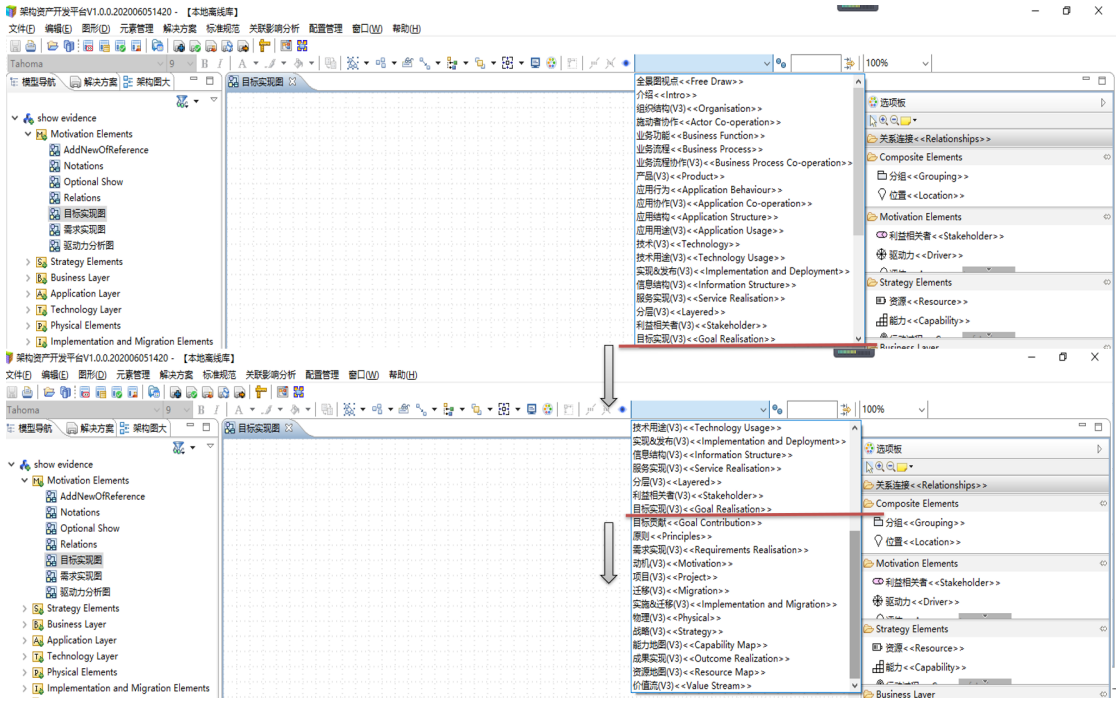

选项板
关系连接<<Relationships>>
Composite Elements
Motivation Elements
Strategy Elements
Business Layer
Application Layer
应用组件<<Application Component>>
应用协作<<Application Collaboration>>
应用接口<<Application Interface>>
应用服务<<Application Service>>
应用功能<<Application Function>>
应用交互<<Application Interaction>>
数据对象<<Data object>>
应用流程<<Application Process>>
应用事件<<Application Event>>
Technology Layer
Physical Elements
Implementation and Migration Elements


选项板
关系连接<<Relationships>>
Composite Elements
Motivation Elements
Strategy Elements
Business Layer
Application Layer
Technology Layer
制品<<Artifact>>
通信路径<<Path>>
通信网络<<Communication Network>>
技术接口<<Technology Interface>>
技术功能<<Technology Function>>
技术服务<<Technology Service>>
节点<<Node>>
系统软件<<System Software>>
设备<<Device>>
技术协作<<Technology Collaboration>>
技术交互<<Technology Interaction>>
技术流程<<Technology Process>>
技术事件<<Technology Event>>
Physical Elements
Implementation and Migration Elements


选项板
关系连接<<Relationships>>
Composite Elements
Motivation Elements
Strategy Elements
Business Layer
Application Layer
Technology Layer
Physical Elements
设备<<Equipment>>
设施<<Facility>>
分布网络<<Distribution Network>>
物料<<Material>>
Implementation and Migration Elements


选项板
关系连接<<Relationships>>
Composite Elements
Motivation Elements
Strategy Elements
Business Layer
Application Layer
Technology Layer
Physical Elements
Implementation and Migration Elements
差距<<Gap>>
工作包<<Work Package>>
交付物<<Deliverable>>
平稳期<<Plateau>>
实施事件<<Implementation Event>>

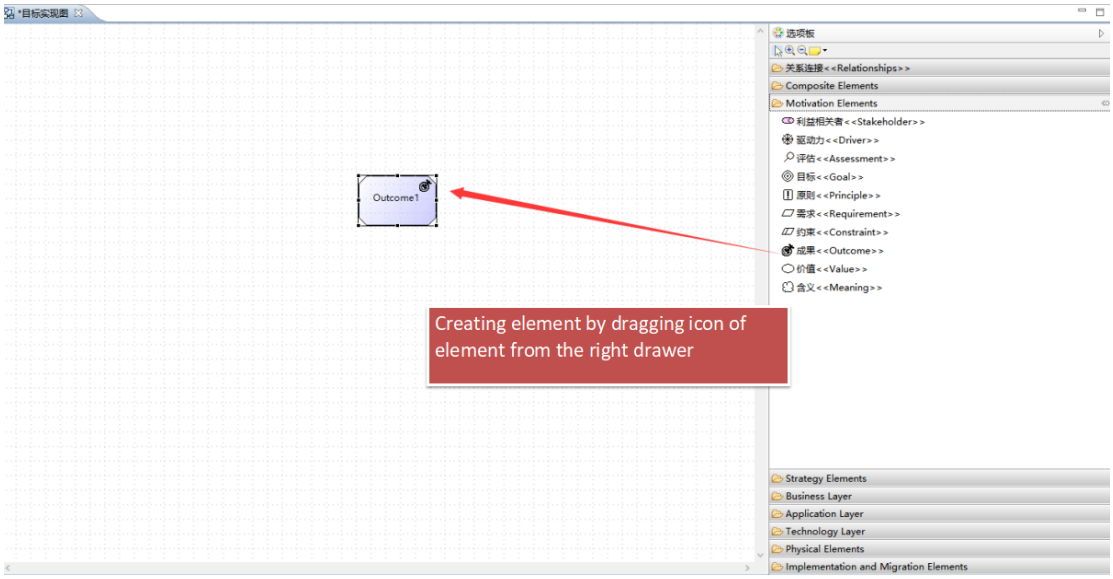
2.1.3. All the view points

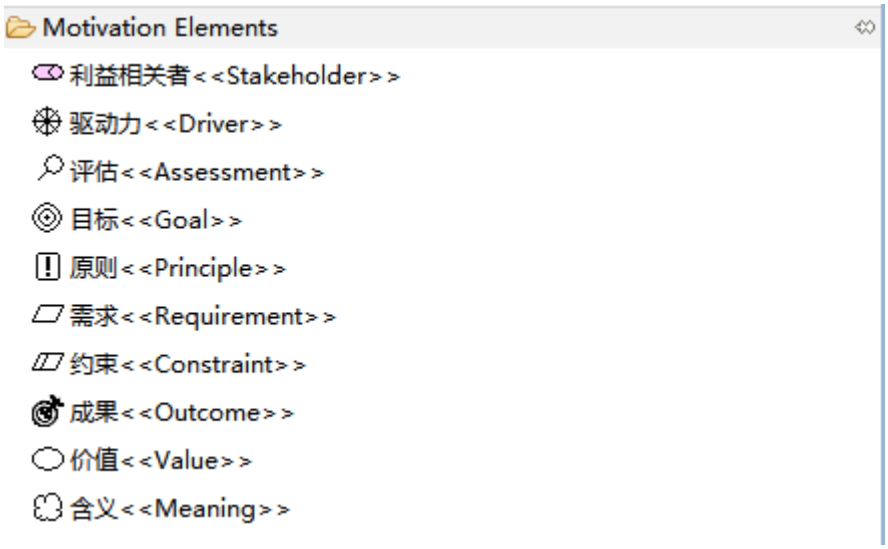


2.2. Language Element Support

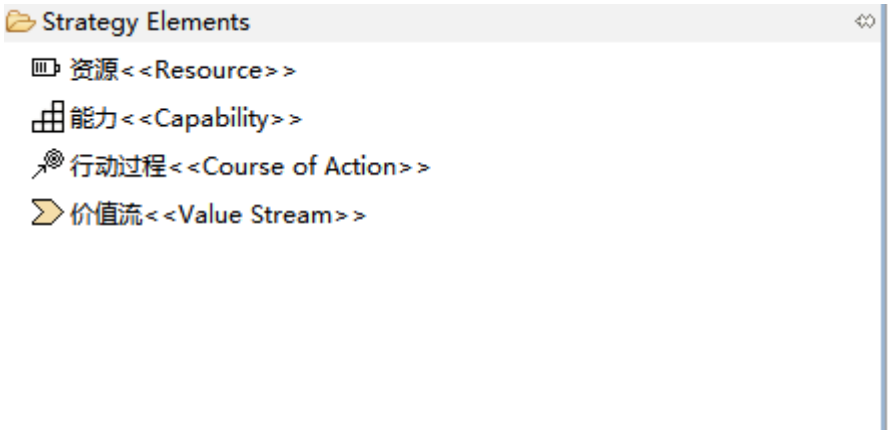
2.2.1. Language Element Coverage

- Motivation Elements supported(10)

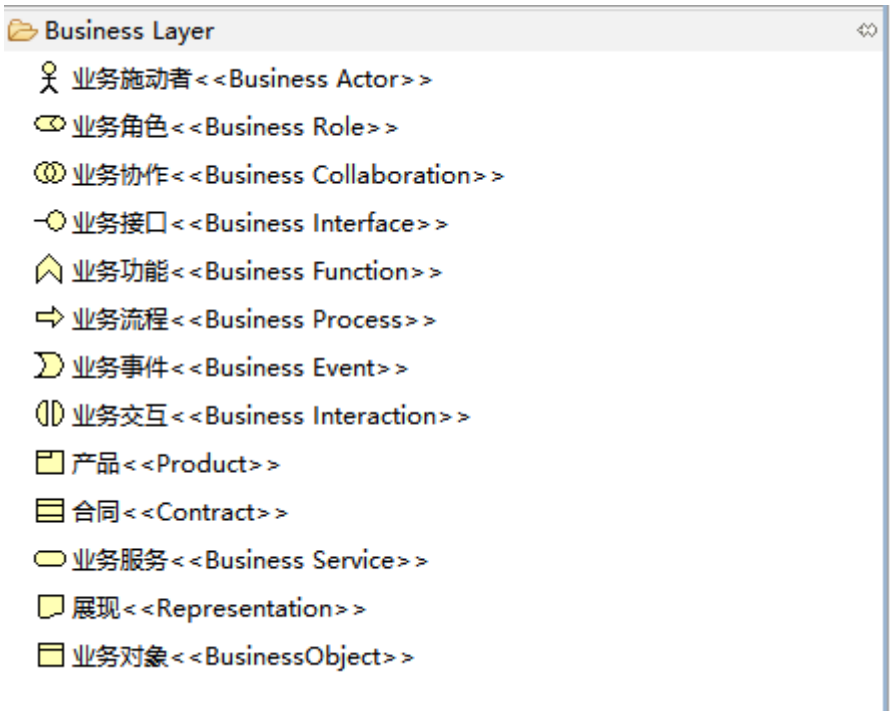




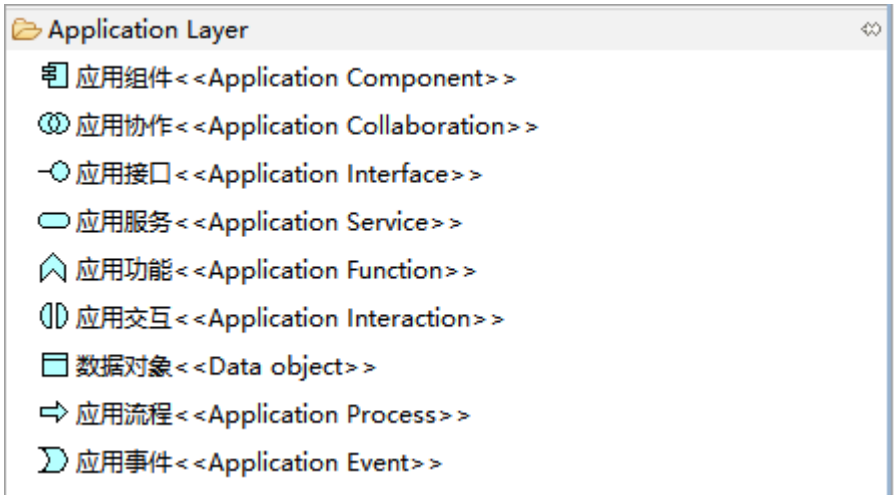
- Strategy Elements supported(4)



- Business layer elements supported(13)

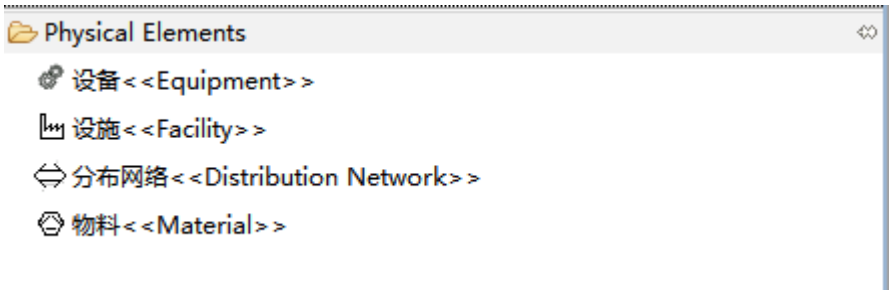


- Application layer elements supported(9)

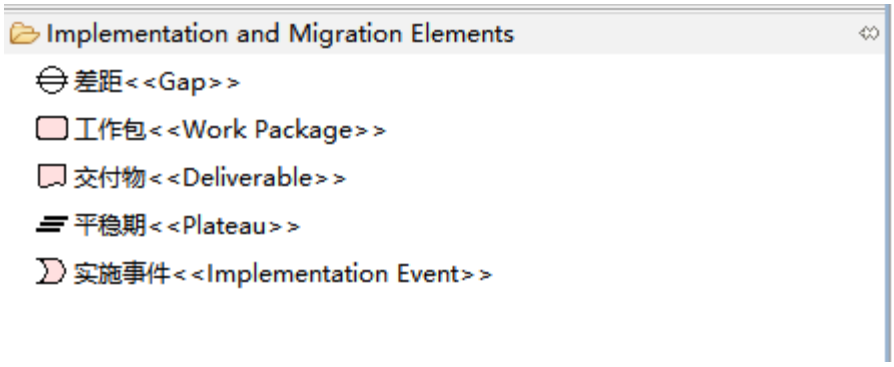


- Technology layer elements supported(13)

- Physical elements supported(4)



- Implementation and Migration elements supported(5)



- Composite Elements supported(2)

Tecsoon Tool supports all the ArchiMate 3.1 elements, but we do not provide a view in which user can select elements by the category of behavior or structure. We only provide one way to

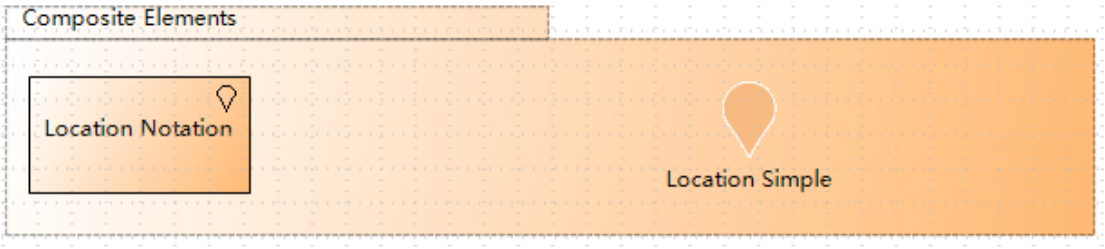
select elements that is dragging an element from the opened drawer to the diagram window. The drawers are named as “Composite Elements”, “Motivation Elements”, ”Strategy Elements”, ”Business Layer”, ”Applicaiton Layer”, ”Technology Layer”, ”Physical Elements”, ”Implementation and Migration Elements” and the elements are grouped as the way as those images above.

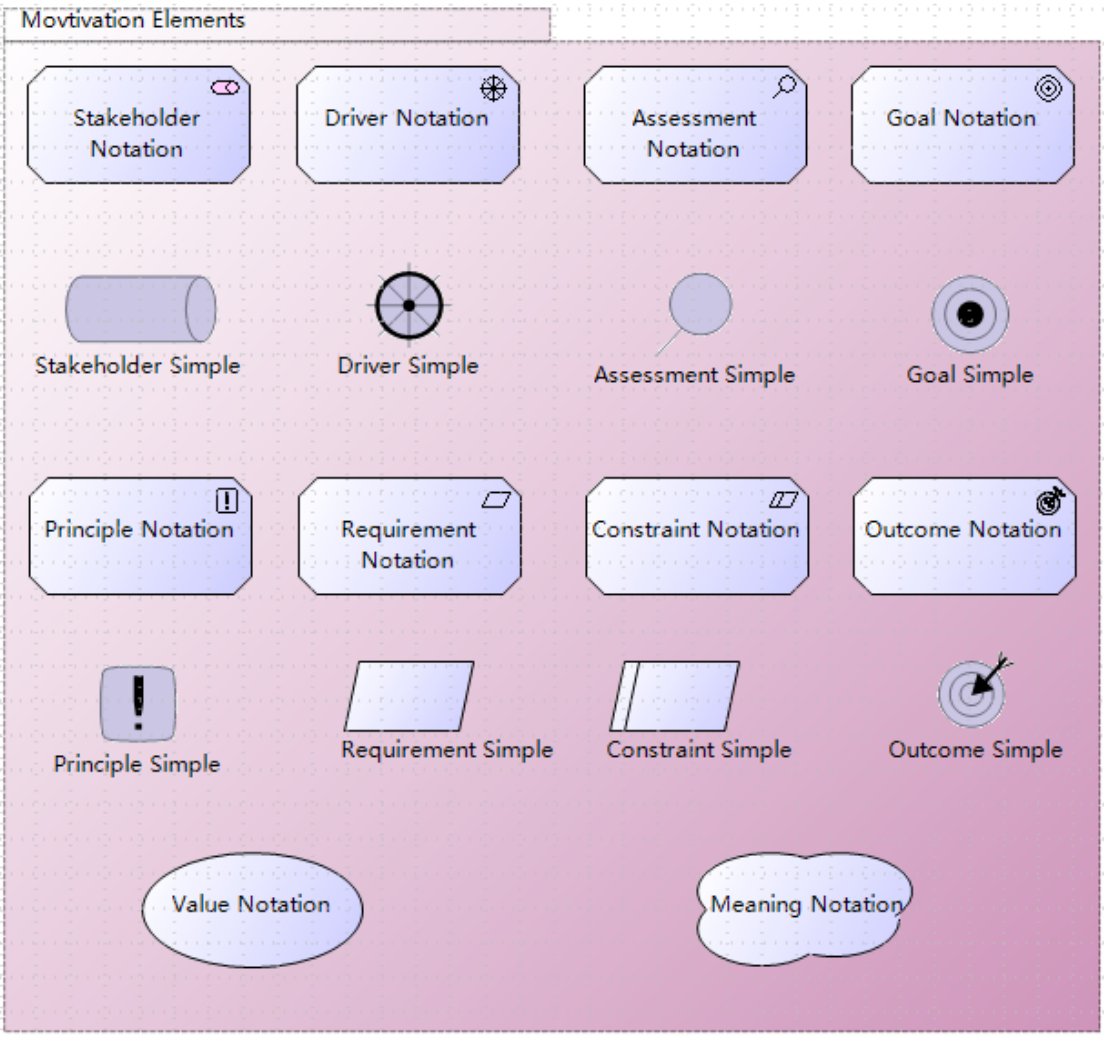
2.2.2. Language Element Notation

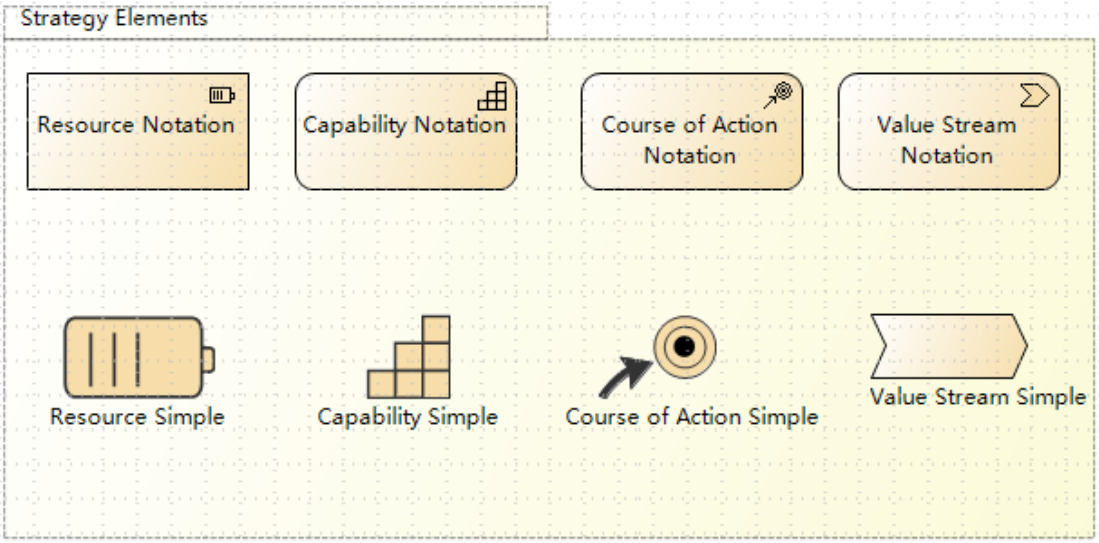
- Element Notations

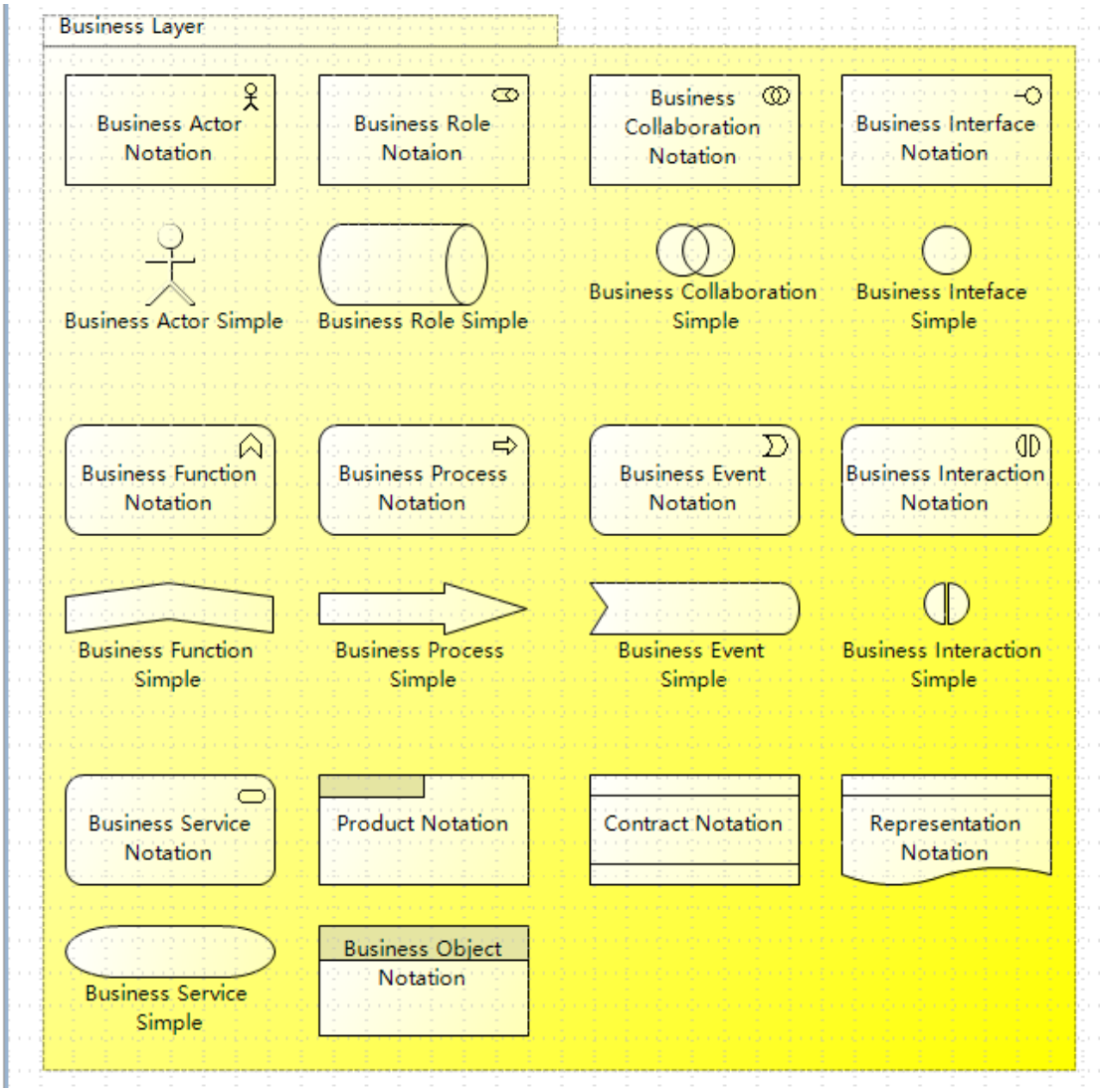
A conforming product shall implement the vocabulary, notation, syntax, and semantics of the visual modeling language for all ArchiMate language elements using the symbols defined in Section A.1 (Core Elements) and Section A.2 (Motivation, Strategy, Implementation and Migration Elements) of the ArchiMate 3.1 Specification.

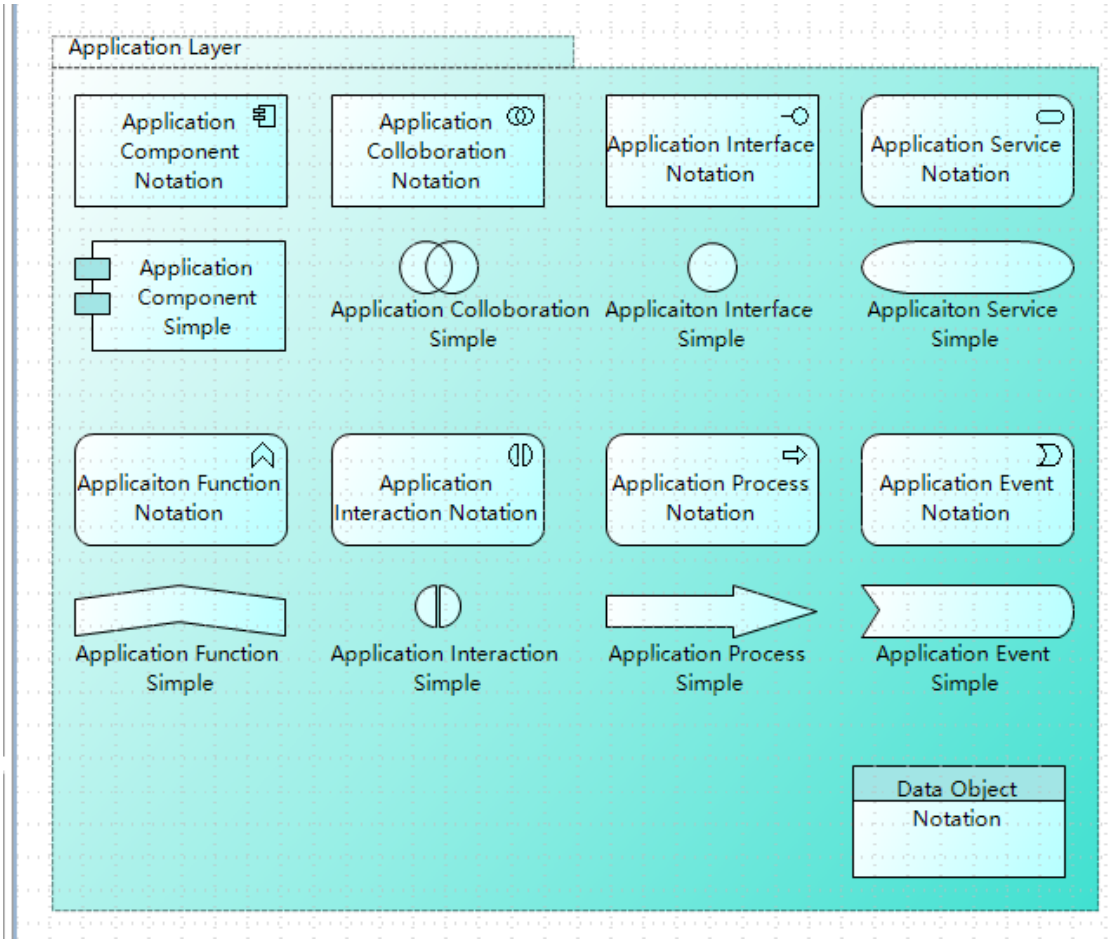
Support

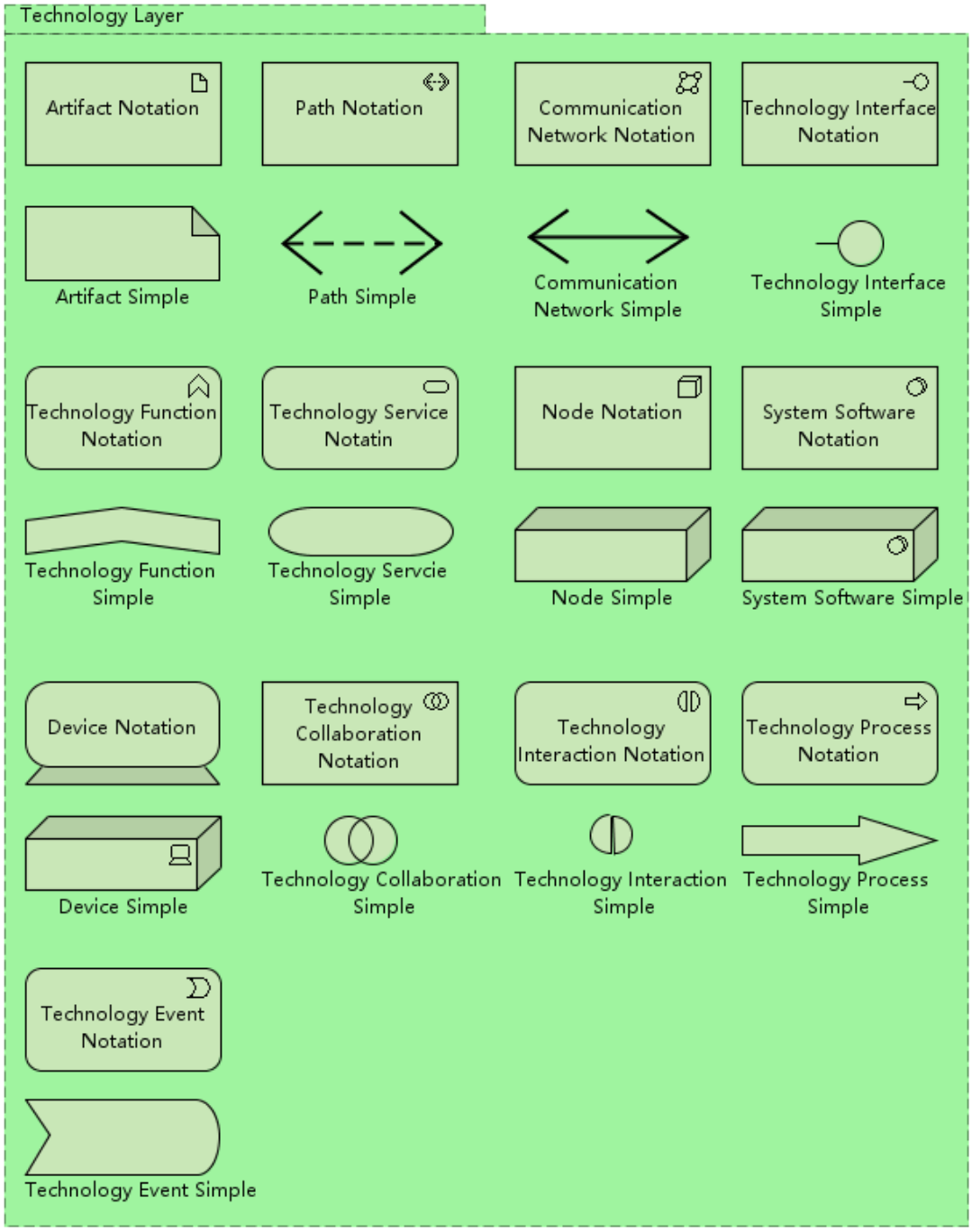


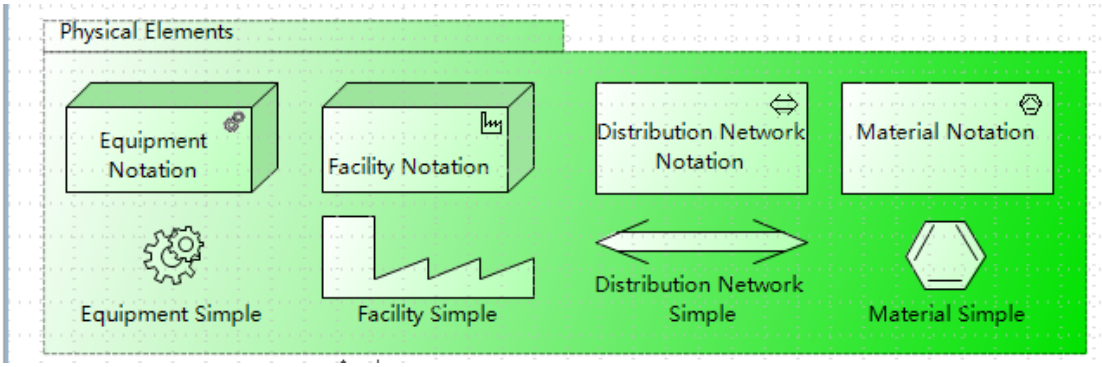

Movtivation Elements
Stakeholder Notation
Driver Notation
Assessment Notation
Goal Notation
Stakeholder Simple
Driver Simple
Assessment Simple
Goal Simple
Principle Notation
Requirement Notation
Constraint Notation
Outcome Notation
Principle Simple
Requirement Simple
Constraint Simple
Outcome Simple
Value Notation
Meaning Notation

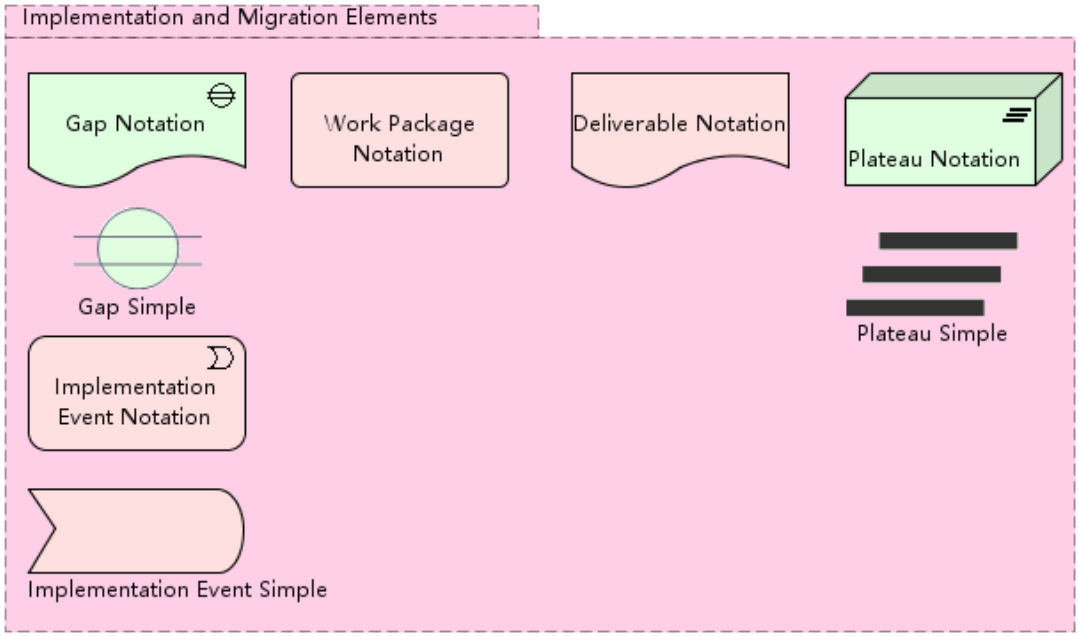

Strategy Elements
Resource Notation
Capability Notation
Course of Action Notation
Value Stream Notation
Resource Simple
Capability Simple
Course of Action Simple
Value Stream Simple


Business Layer
Business Actor Notation
Business Role Notaion
Business Collaboration Notation
Business Interface Notation
Business Actor Simple
Business Role Simple
Business Collaboration Simple
Business Inteface Simple
Business Function Notation
Business Process Notation
Business Event Notation
Business Interaction Notation
Business Function Simple
Business Process Simple
Business Event Simple
Business Interaction Simple
Business Service Notation
Product Notation
Contract Notation
Representation Notation
Business Service Simple
Business Object Notation


Application Layer
Application Component Notation
Application Colloboration Notation
Application Interface Notation
Application Service Notation
Application Component Simple
Application Colloboration Simple
Applicaiton Interface Simple
Applicaiton Service Simple
Applicaiton Function Notation
Application Interaction Notation
Application Process Notation
Application Event Notation
Application Function Simple
Application Interaction Simple
Application Process Simple
Application Event Simple
Data Object
Notation


Technology Layer
Artifact Notation
Path Notation
Communication Network Notation
Technology Interface Notation
Artifact Simple
Path Simple
Communication Network Simple
Technology Interface Simple
Technology Function Notation
Technology Service Notatin
Node Notation
System Software Notation
Technology Function Simple
Technology Servcie Simple
Node Simple
System Software Simple
Device Notation
Technology Collaboration Notation
Technology Interaction Notation
Technology Process Notation
Device Simple
Technology Collaboration Simple
Technology Interaction Simple
Technology Process Simple
Technology Event Notation
Technology Event Simple


Physical Elements
Equipment Notation
Facility Notation
Distribution Network Notation
Material Notation
Equipment Simple
Facility Simple
Distribution Network Simple
Material Simple

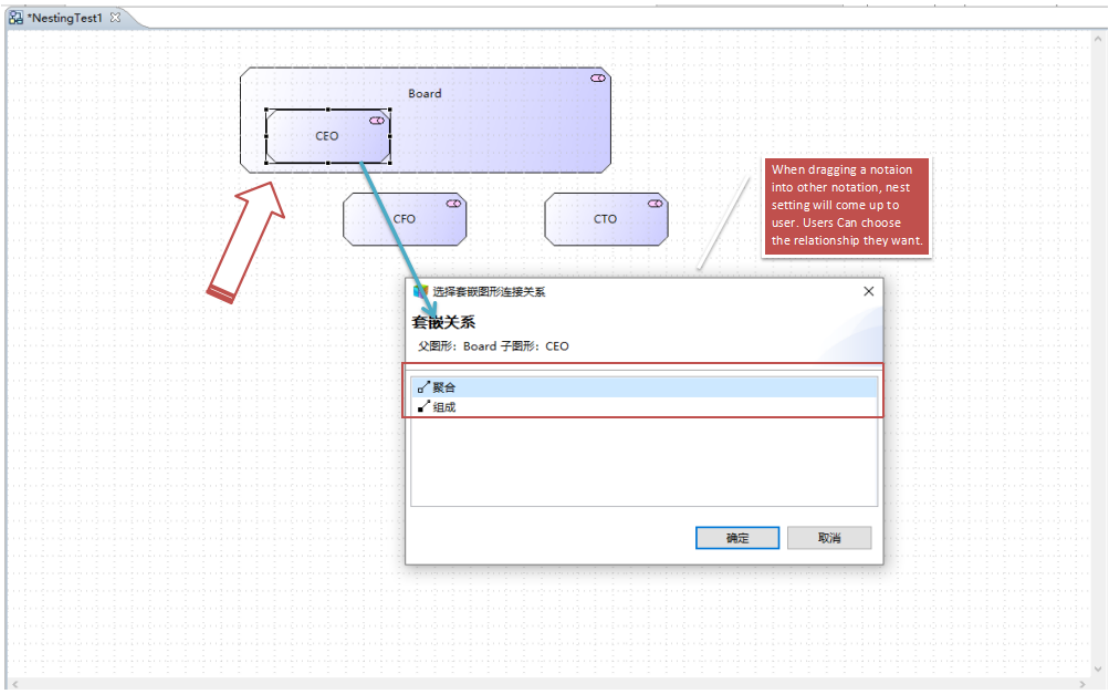


- Nesting

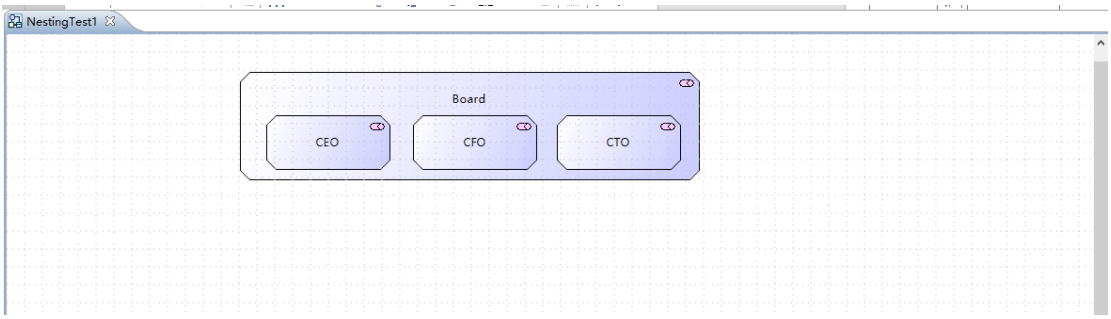
A conforming product shall support nesting as an alternative representation of relationship types as described in Section 3.8 (Use of Nesting) of the ArchiMate 3.1 Specification. The conforming product shall clearly indicate which relationships are defined by each nesting instance and, in updatable views, shall enable user control of relationships to be created, modified, or deleted.

Support

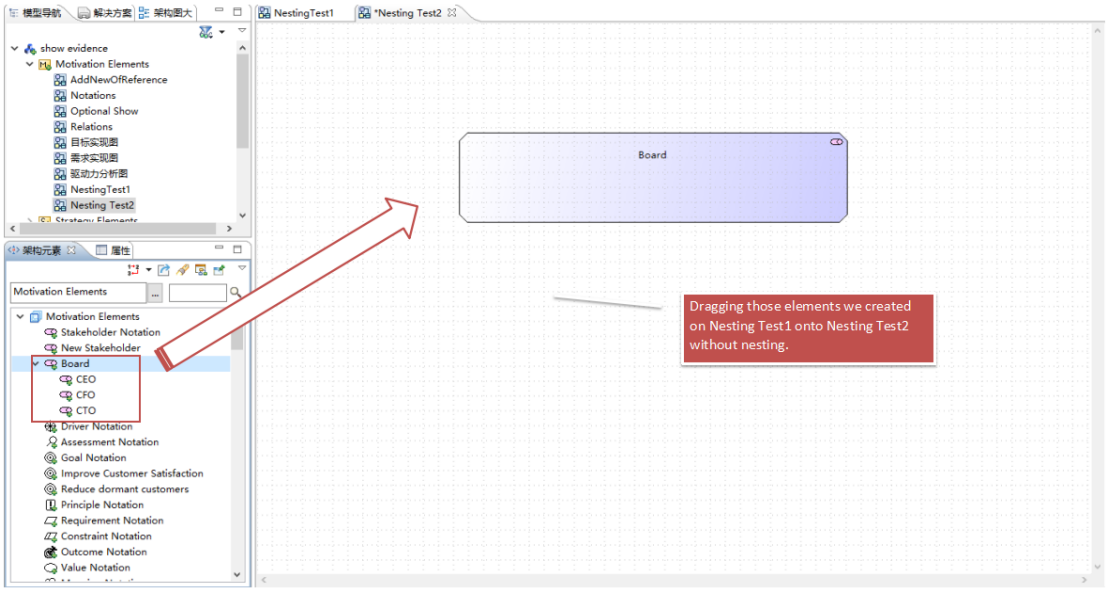
Setting nest.



Save the current diagram.

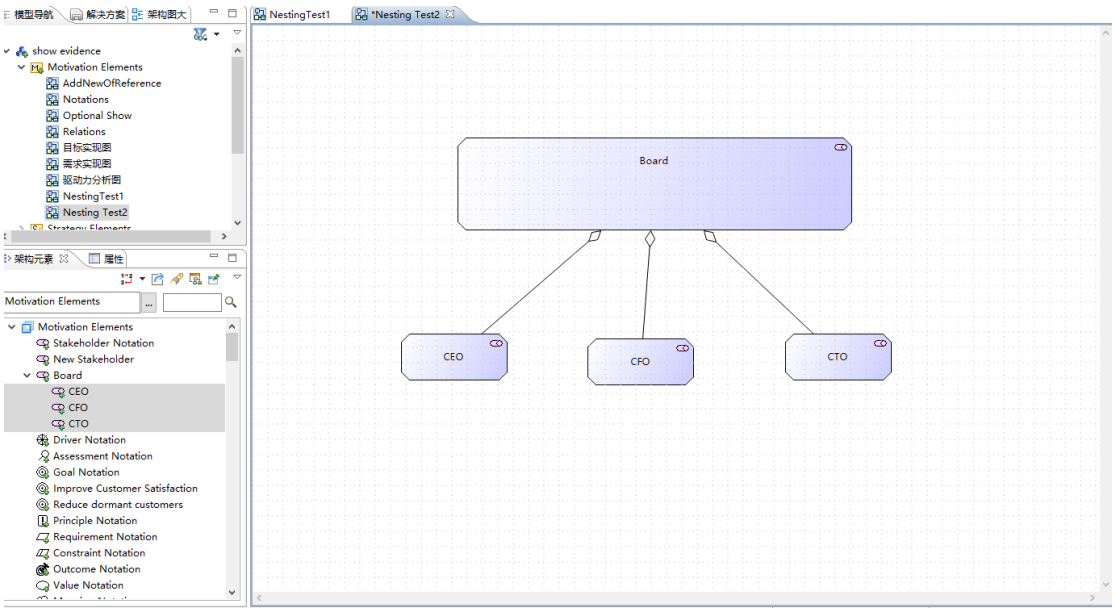


Dragging those elements we created on Nesting Test1 onto Nesting Test2 without nesting.

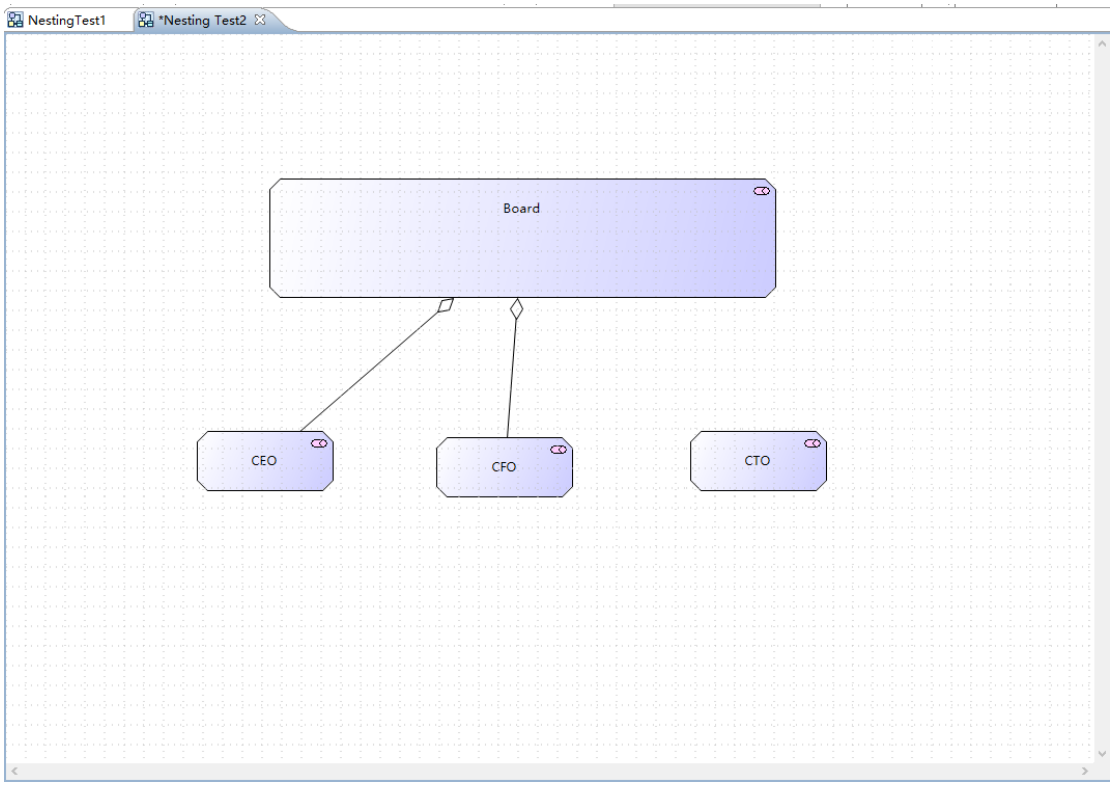


When dragging the elements in a nest, a exsiting relationships dialog will prompt for user to choose weather to show those relationships which had been created on other diagram.

Those relationships are shown.



If user deletes one of them, it will be deleted.

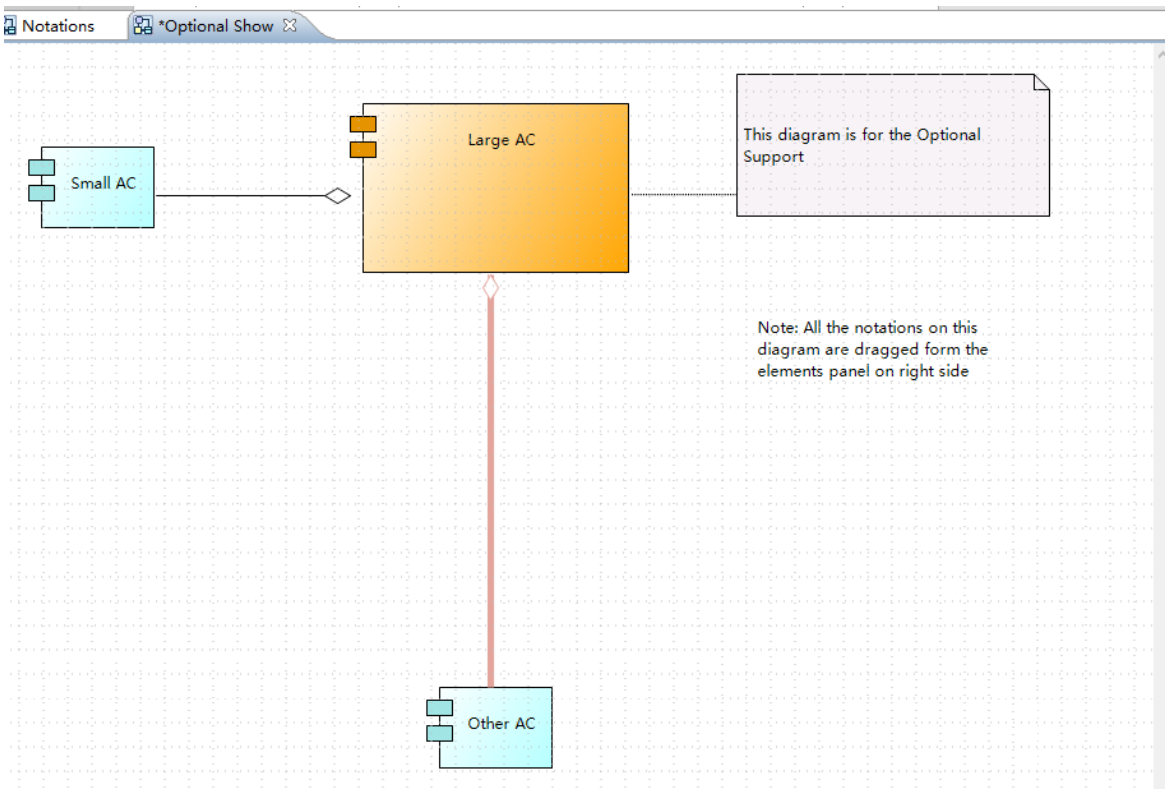


- Change size, color...

A conforming product shall ensure that the graphical notation used for ArchiMate concepts and relationships remains unambiguously compliant with the ArchiMate 3.1 Specification even after changes to the size, proportion, or color of modeling symbols.

Support

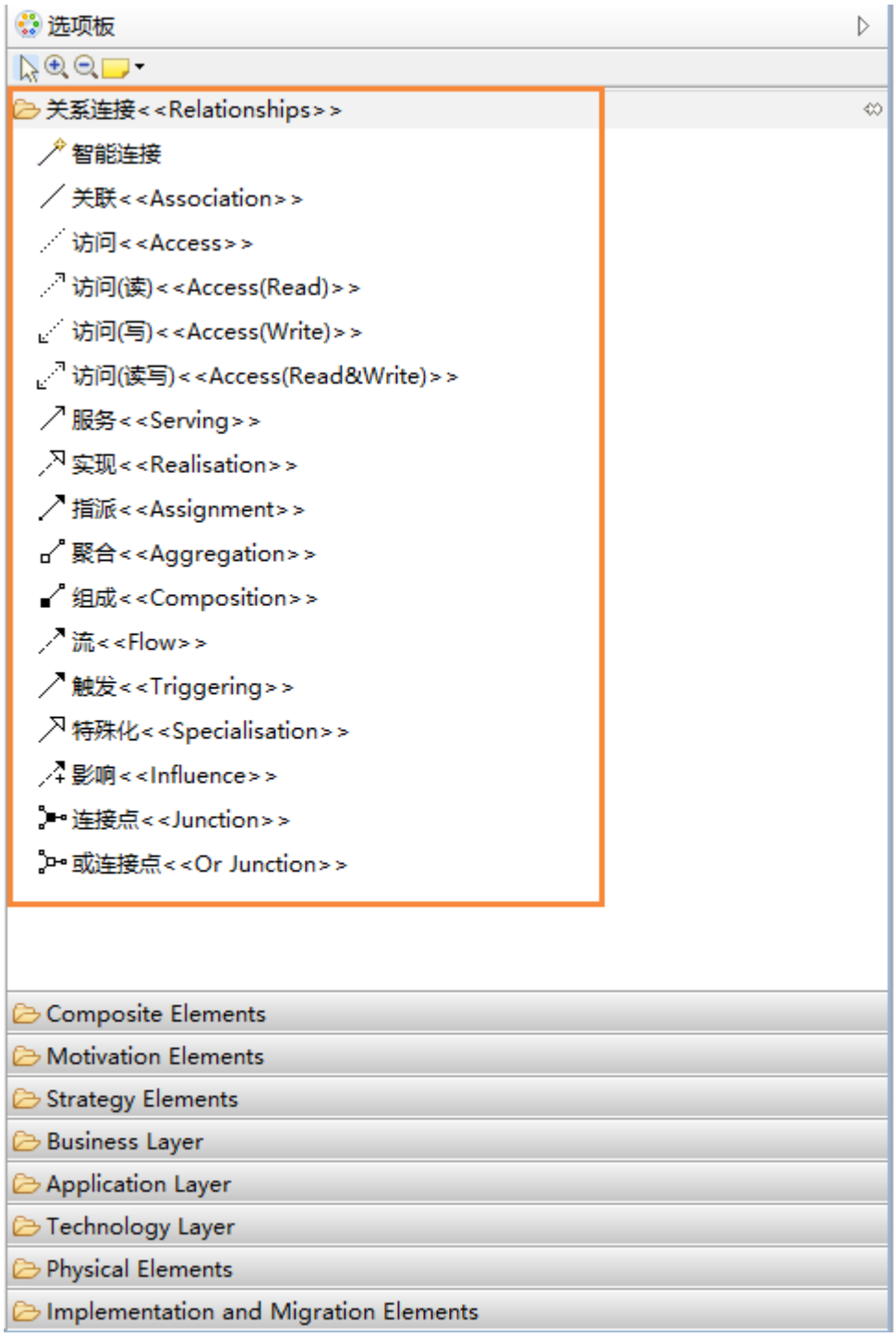
Different size, different color, both Applications and relationships.



2.3. Relationship Support

2.3.1. Relationship Coverage

All the relationships supported.



- All the relationships and Appendix B

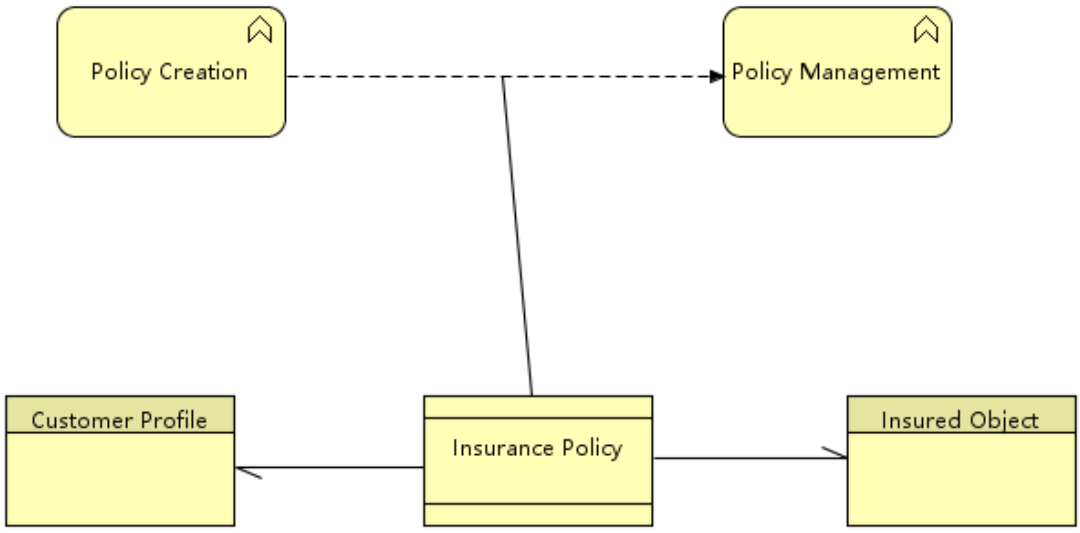
A conforming product shall support all ArchiMate language relationships, as defined in Chapter 5 (Relationships) and Appendix B (Relationship Tables) of the ArchiMate 3.1 Specification. This includes relationships between two language elements, and in some cases relationships to other relationships.

Support

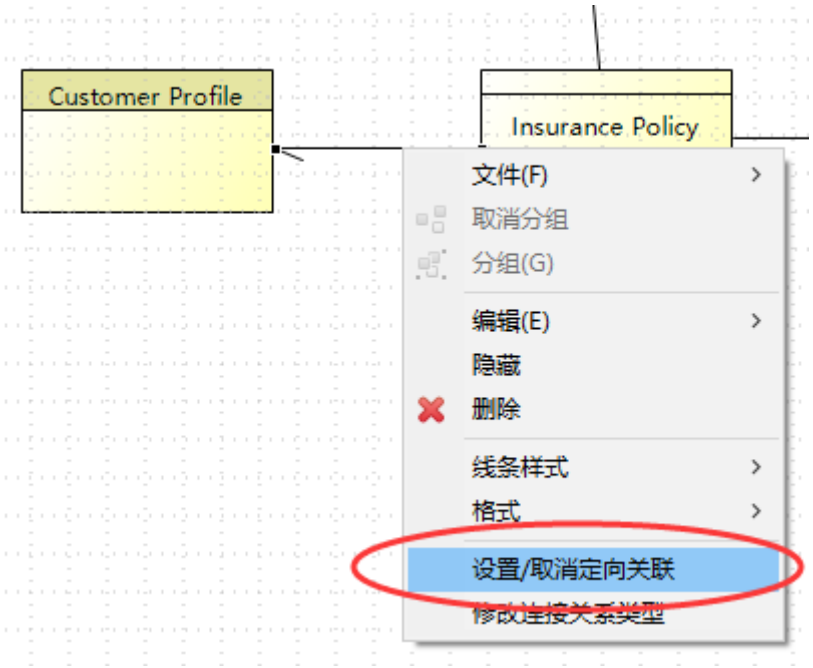
In Tecsoon Tool, we provide all the relationships' notation. And it will show the permitted relationships defined by *Appendix B* when user want connect one element to the other. We use a definition XML file to realize the *Appendix B*. The definition XML is shown below.

E.g. Permitted relationships between Assessment and other elements are defined.

- Semi Arrow Assosication relationship and r2r

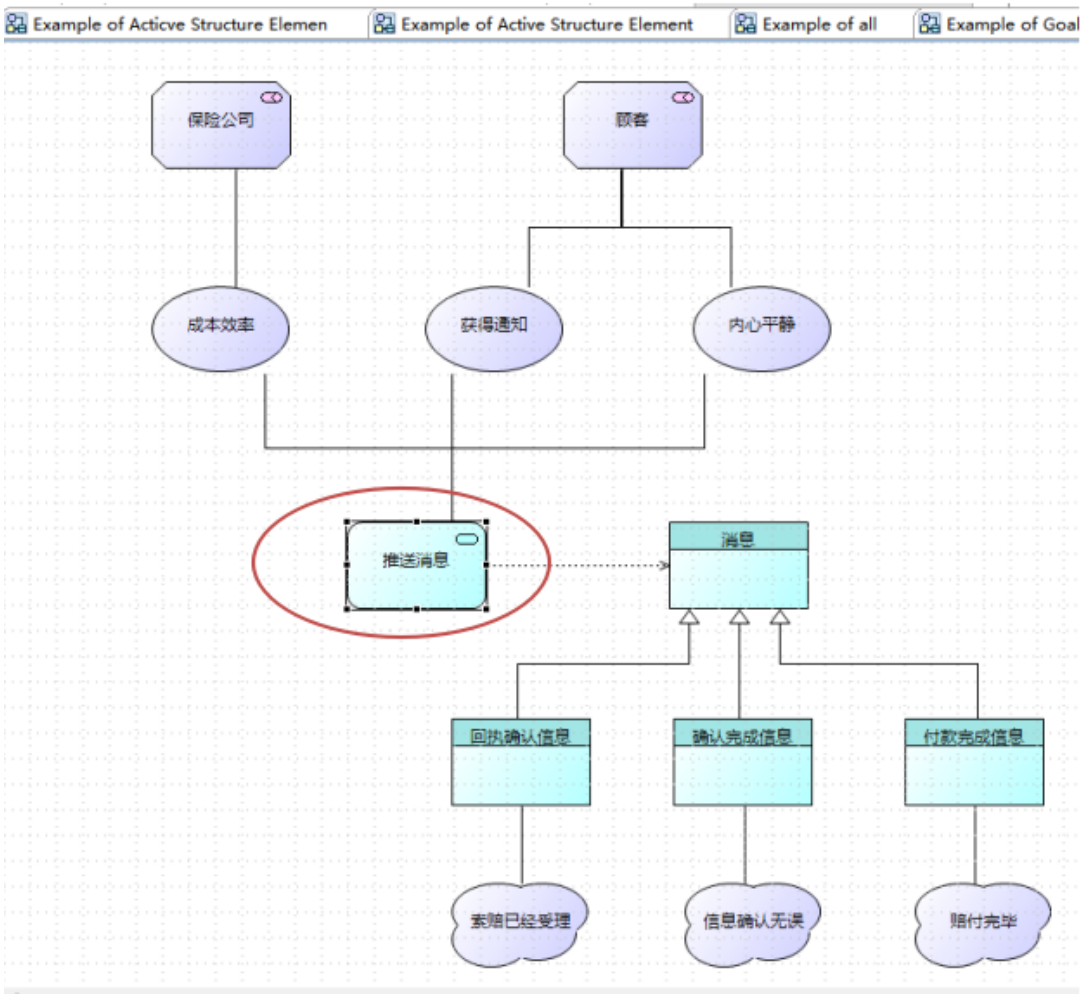


After we drag an association relationship form one element to another, we can set/cancel the semi arrow by the menu(right click on the line) shown below.

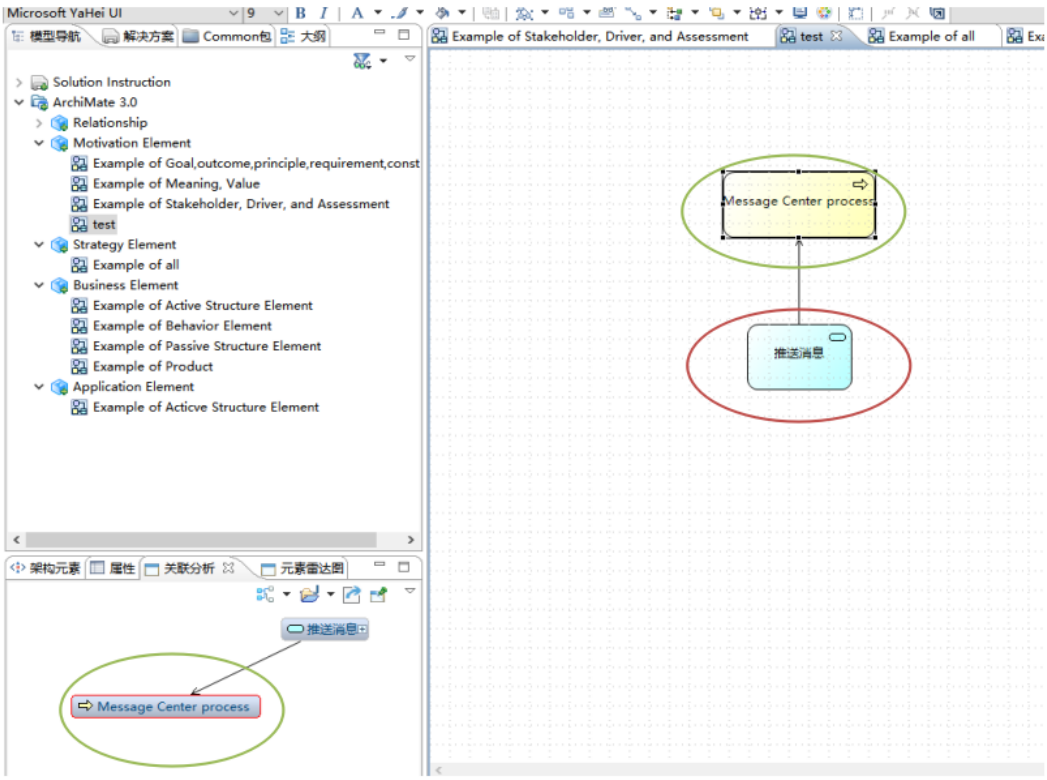


- Derived Relationship exmaple

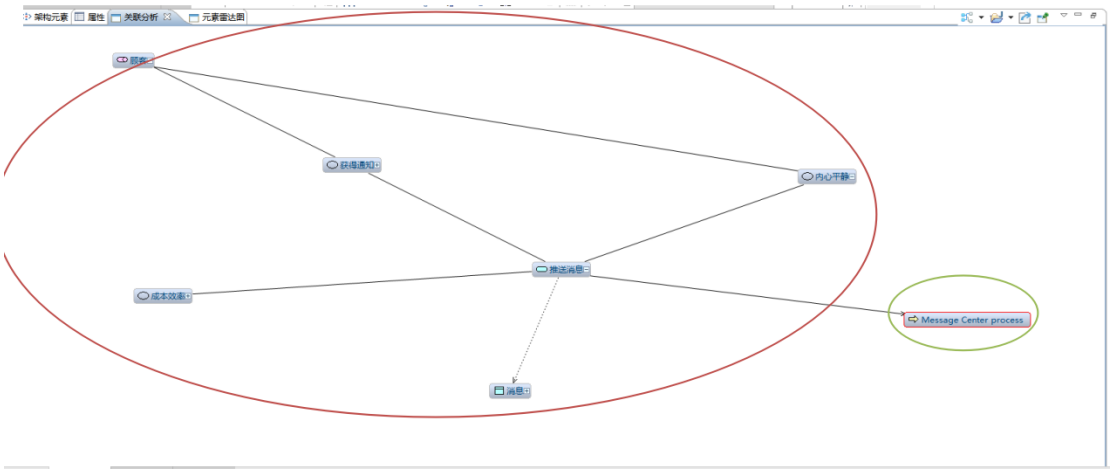
When we create a new element or quote an existing element on a EA diagram, relations between this element and other relating elements will be extracted, and we can look up their relationships on the relation analysis panel beside the property panel.



On the first diagram we build relations between application service “推送消息” and other elements.



Then we create a new business process element Message Center process, and relate to “推送消息” application service which we have created on the first diagram. Then we can see the relations between the new-created elements and relating elements via application service “推送消息”. By this means we can also do the relation analysis.

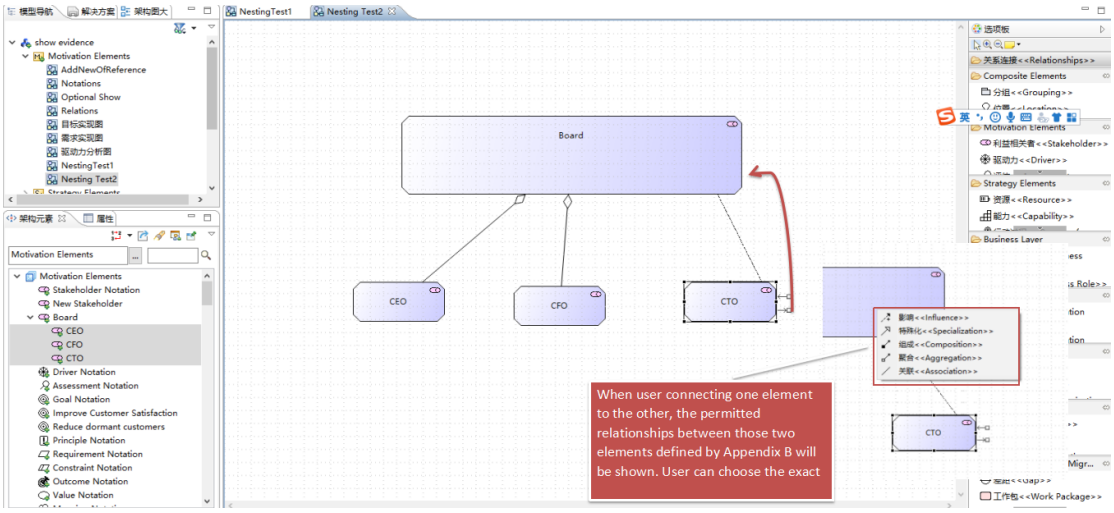


- Connecting elements

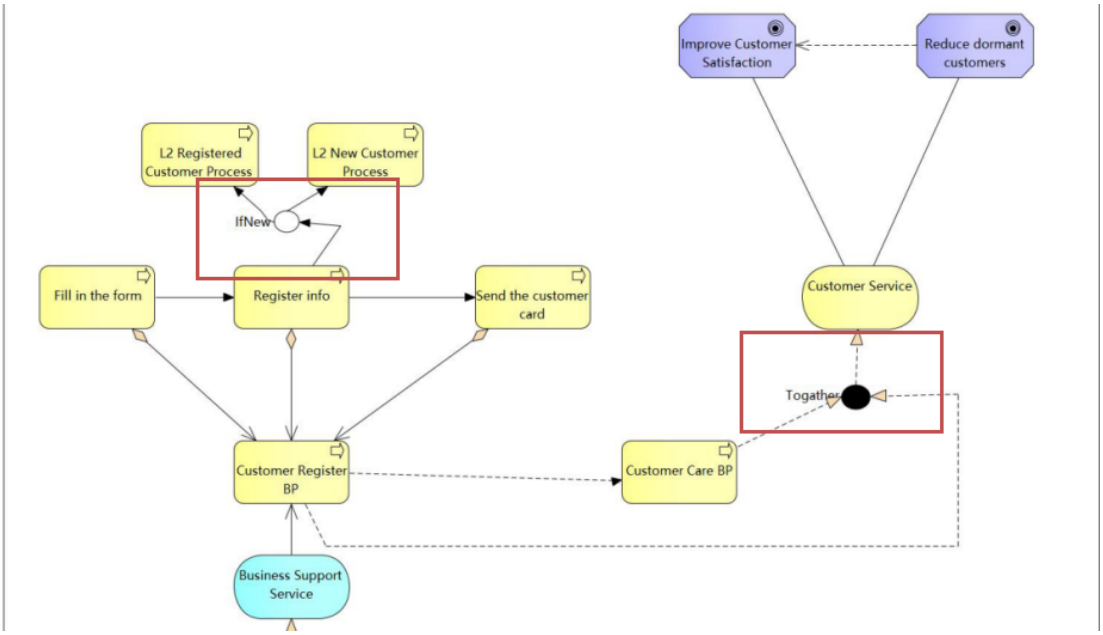
A conforming product shall support relationships between two language elements, and in some cases relationships to other relationships.

Support

When user connecting one element to the other, the permitted relationships between those two elements defined by Appendix B will be shown. User can choose the exact one.



Relationships to relationships



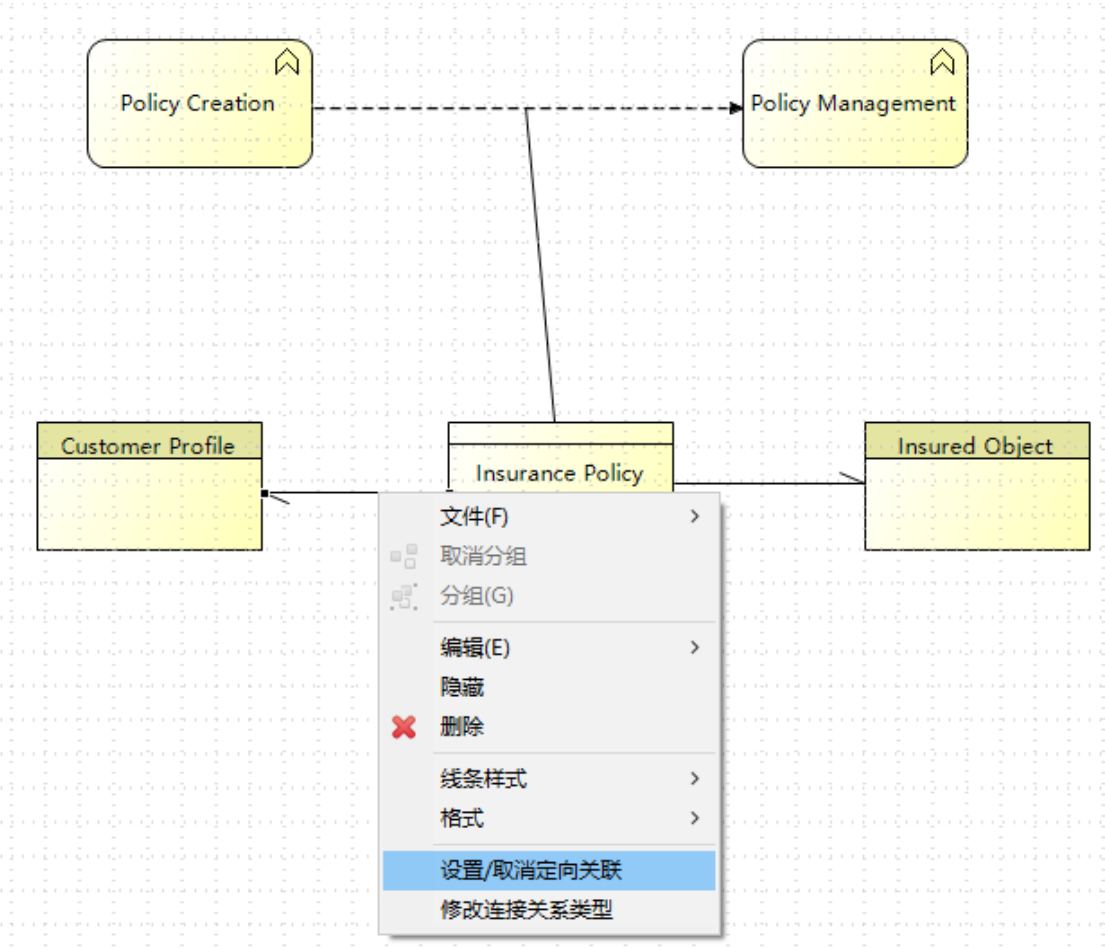
2.3.2. Relationship Notation

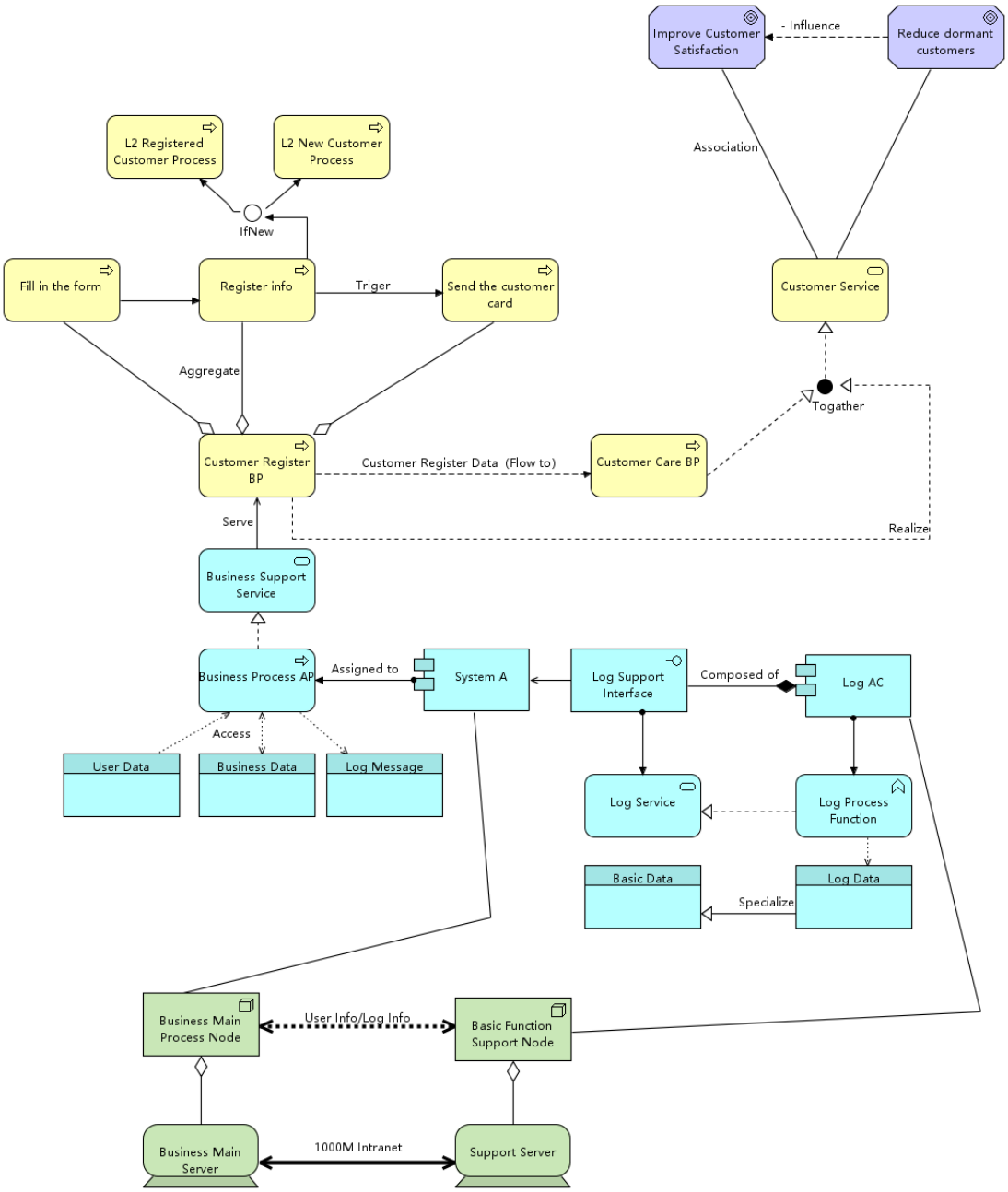
A conforming product shall enable notation of all ArchiMate relationships using the symbols defined in Chapter 5 (Relationships) of the ArchiMate 3.1 Specification.

Support

Note:About Semi Arrow

After we drag an association relationship form one element to another, we can set/cancel the semi arrow by the menu(right click on the line) shown below

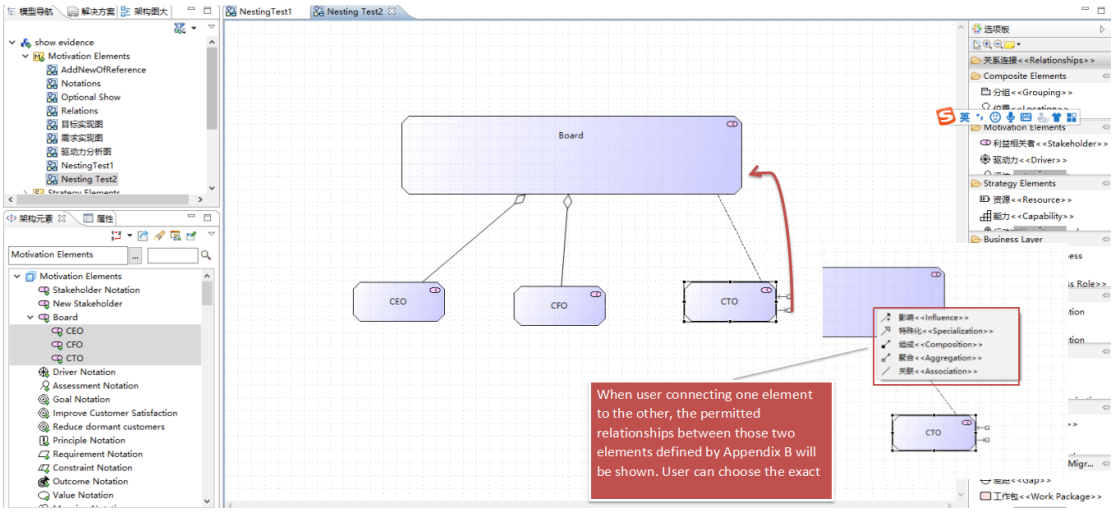

Policy Creation
Policy Management
Customer Profile
Insurance Policy
Insured Object
文件(F)
取消分组
分组(G)
编辑(E)
隐藏
删除
线条样式
格式
设置/取消定向关联
修改连接关系类型



A conforming product shall enable notation of all ArchiMate structural relationships via nesting as defined in Section 5.1 (Structural Relationships) of the ArchiMate 3.1 Specification.

Support

When user use a nesting, the permitted relationships between those be shown.



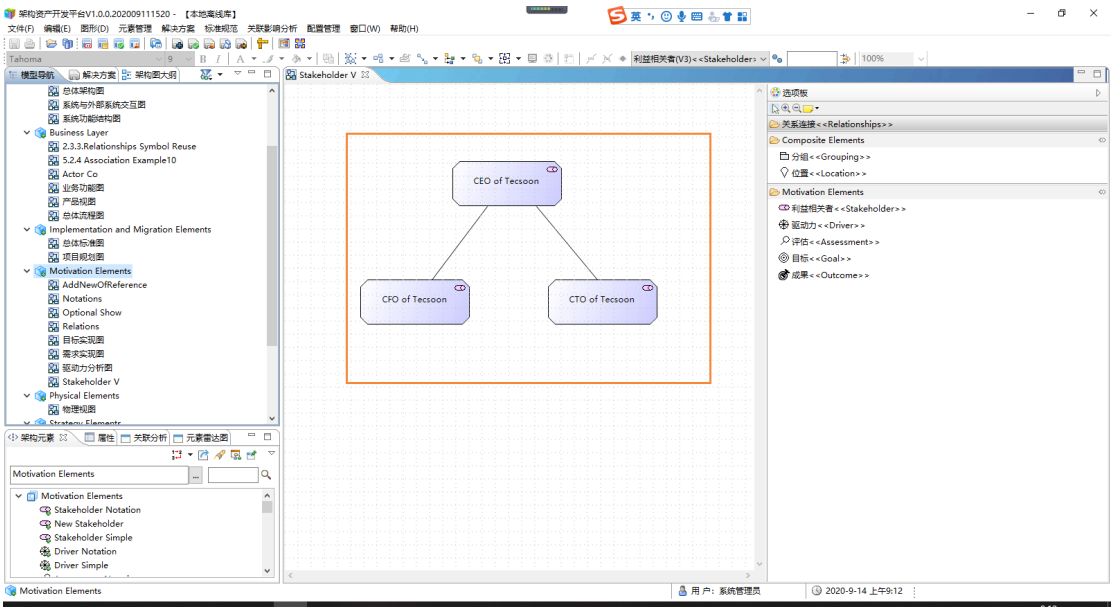
2.3.3. Relationships Symbol Reuse

For each supported ArchiMate relationship, if the relationship applies to multiple combinations of ArchiMate language elements, the user of each conforming product shall be able to reuse the same relationship symbol to connect each supported combination of concepts as denoted by their concept symbols. For example, the ArchiMate language allows the association relationship between all pairs of elements. However, the user of each conforming product shall be able to use a single symbol, in this case a plain line, to connect all pairs of ArchiMate language elements that share an association relationship.

Support

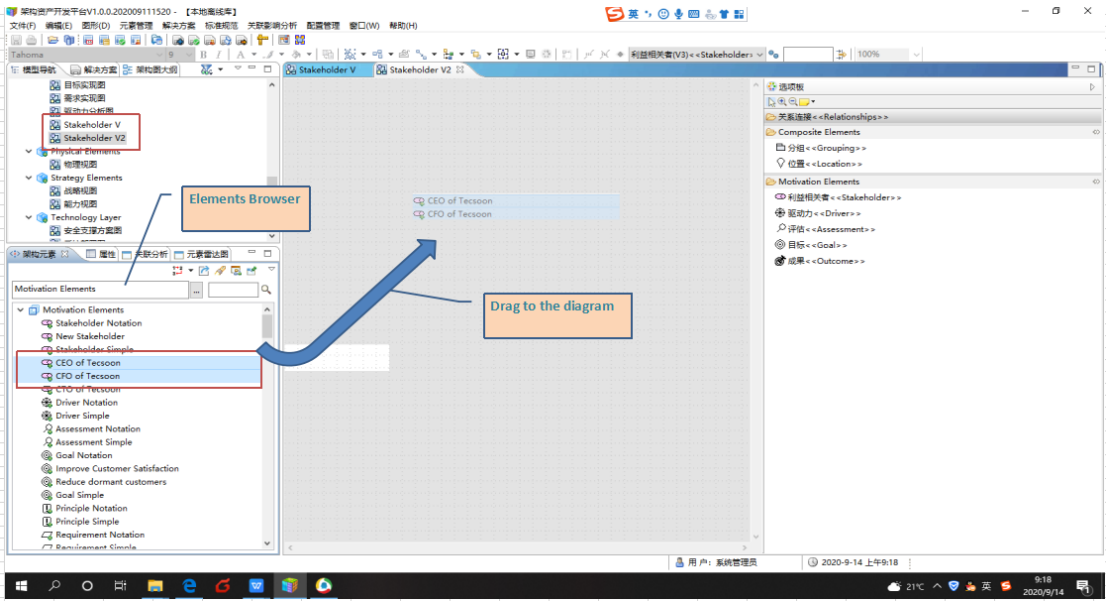
Eg1:

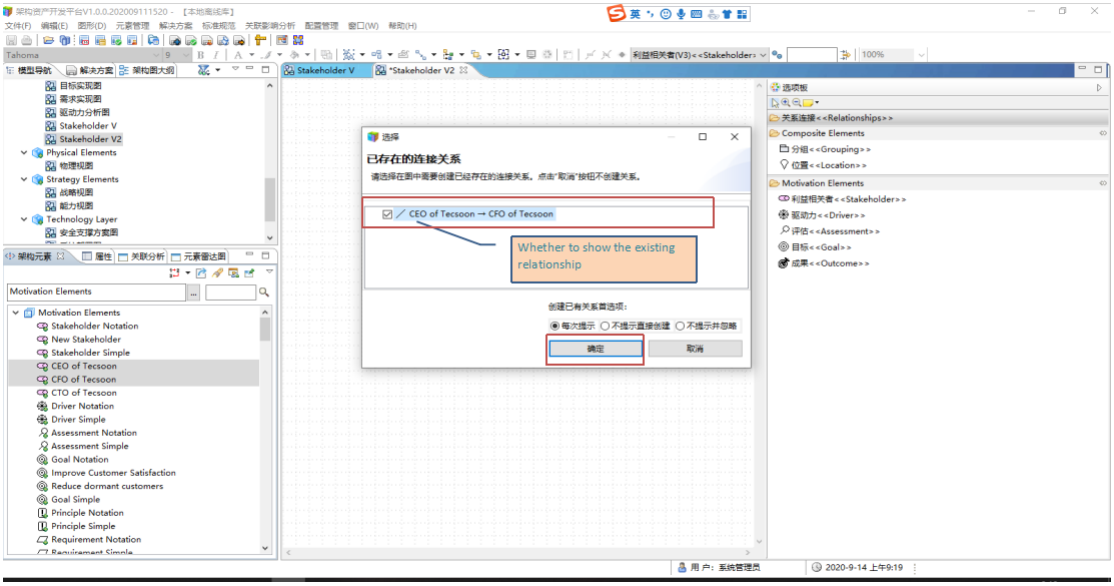
Step1: We create 3 related elements like they are shown belown on diagram "Stakeholder V". Without specific properties.



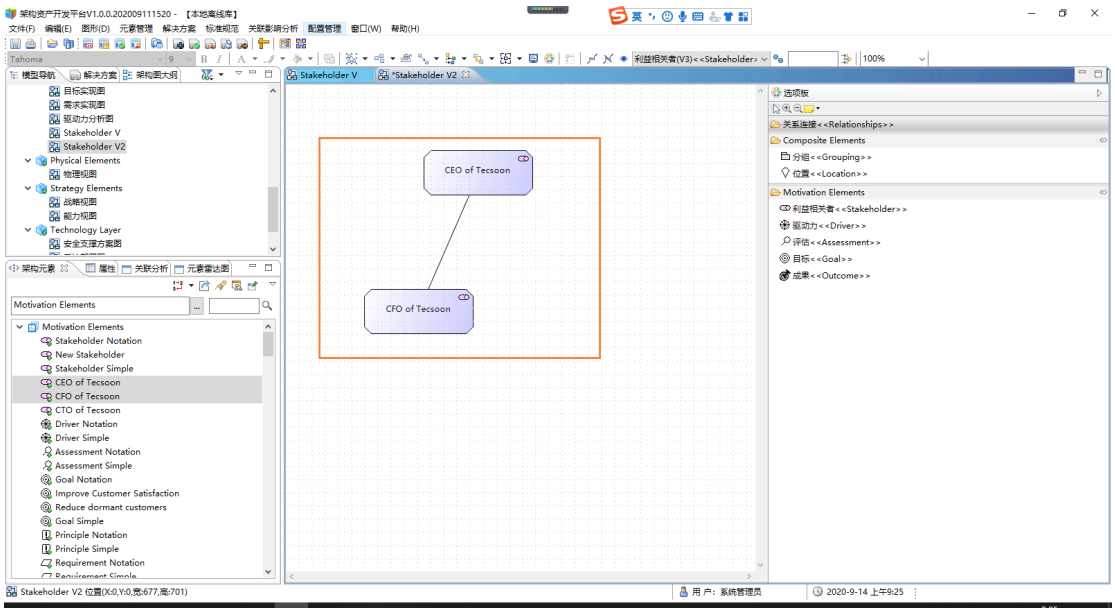
Step 2: We create another diagram "Stakeholder V2". Drag two of the elements that created on diagram "Stakeholder V" for reference(not copy). There will be a prompting about whether to

show the existing relationship that is the association relationship created previously..

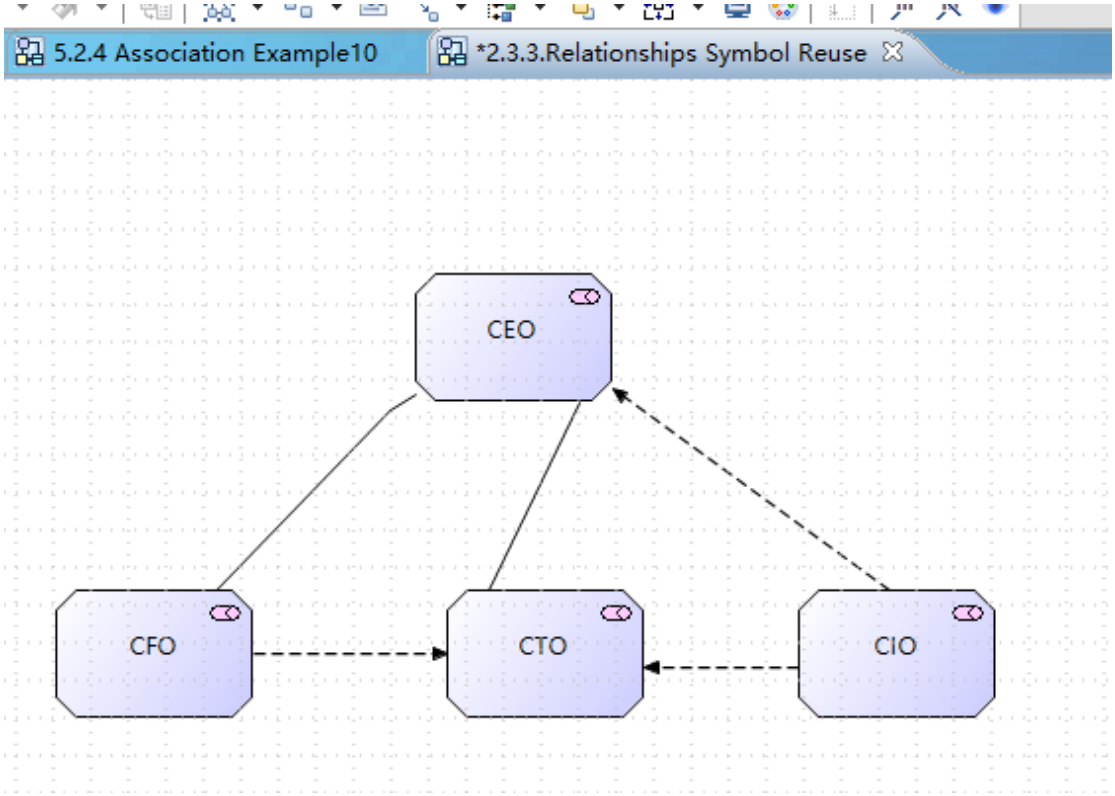




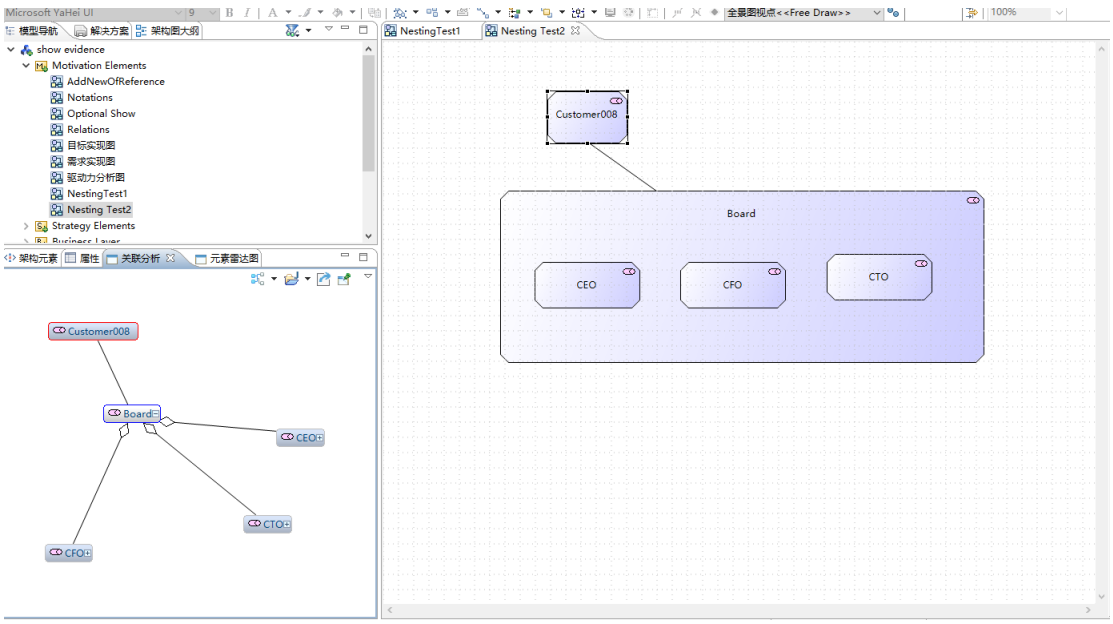
Relationship which has been created on “Stakeholder V” is shown.


CEO of Tecsoon
CFO of Tecsoon

Eg2:

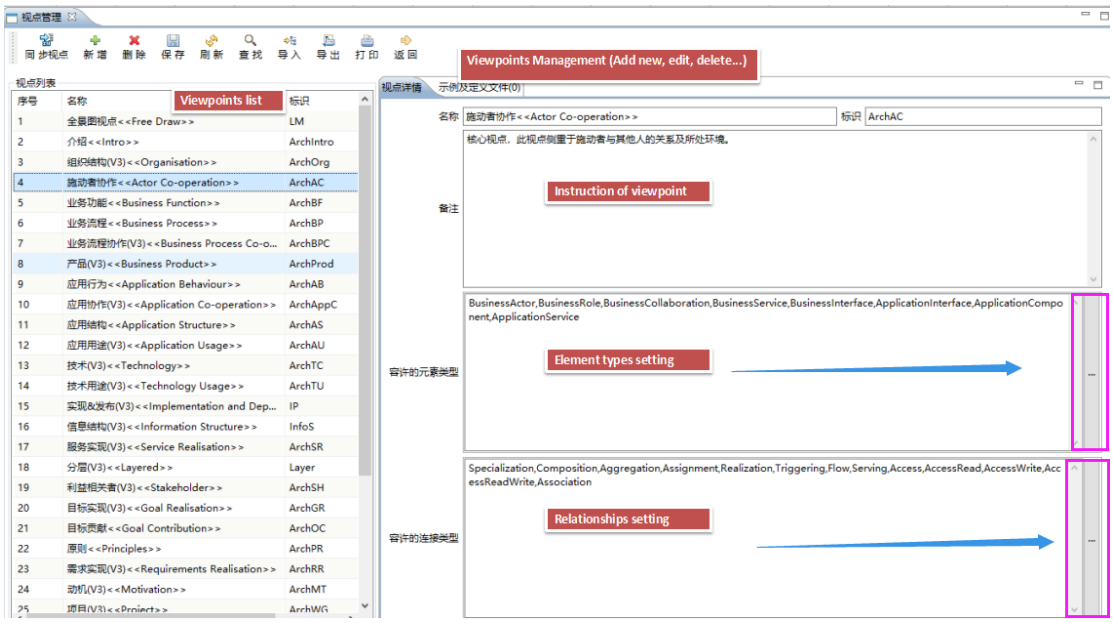

5.2.4 Association Example10
*2.3.3.Relationships Symbol Reuse
CEO
CFO
CTO
CIO

Eg3:



2.4. ViewPoint Support

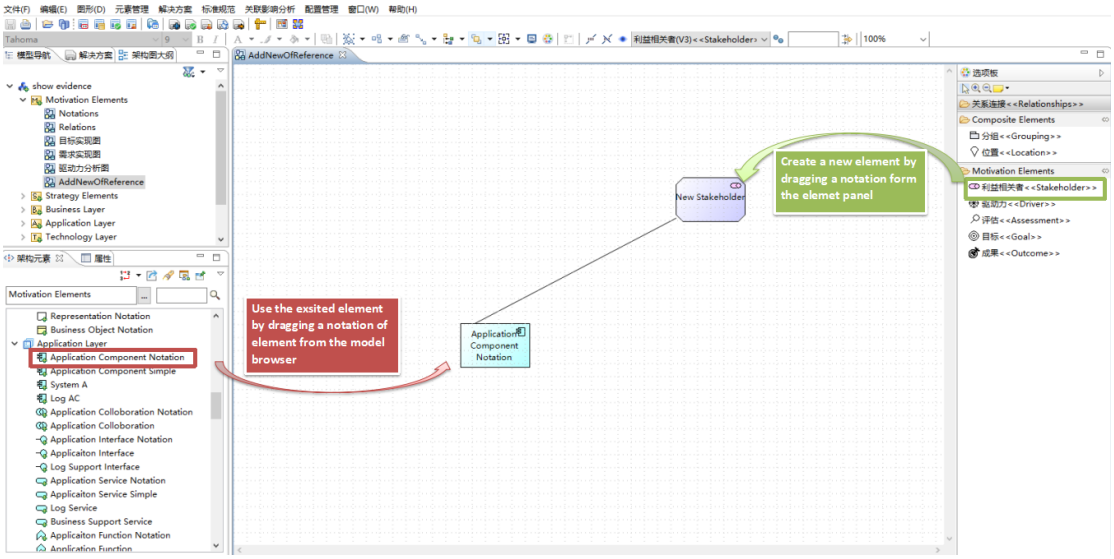
Tecsoon Tool supports the Viewpoint Mechanism. For each viewpoint, there is a definition structure of 2 dimensions for permitted element types and permitted relationships that predefined in the Viewpoint Mechanism. Also user can modify the definition of a viewpoint as what he needs in **Tecsoon Tool.**



In **Tecsoon Tool** user can add a new viewpoint by customizing the elements permitted and the relationships permitted.

- *Req1: Each conforming product shall enable users to create model views using any combination of new elements and relationships and those that may already exist within the model.*

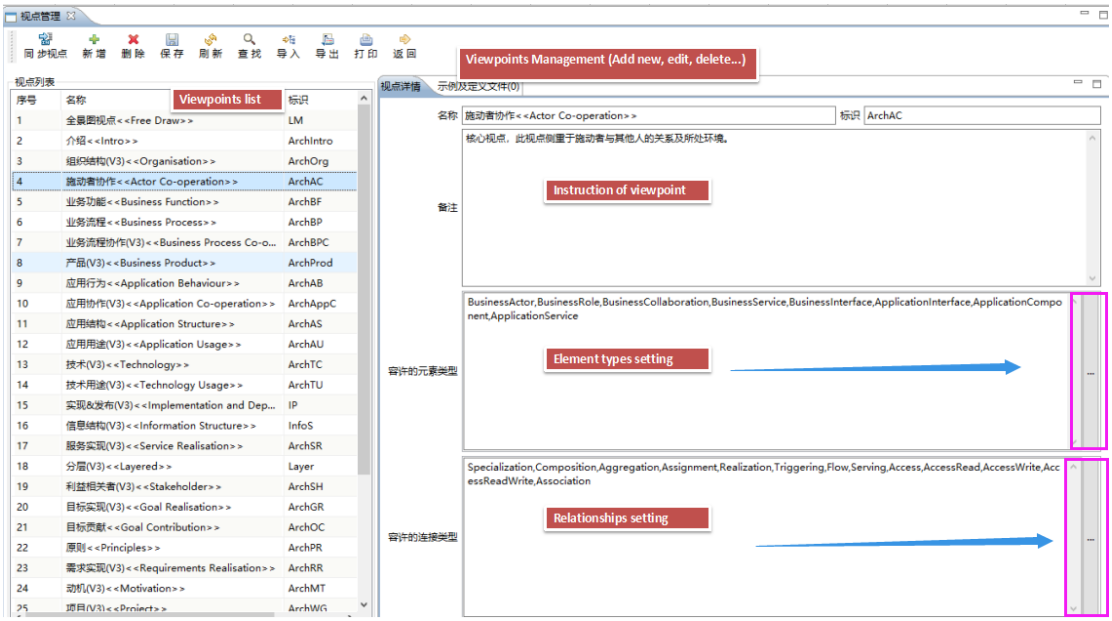
Supported



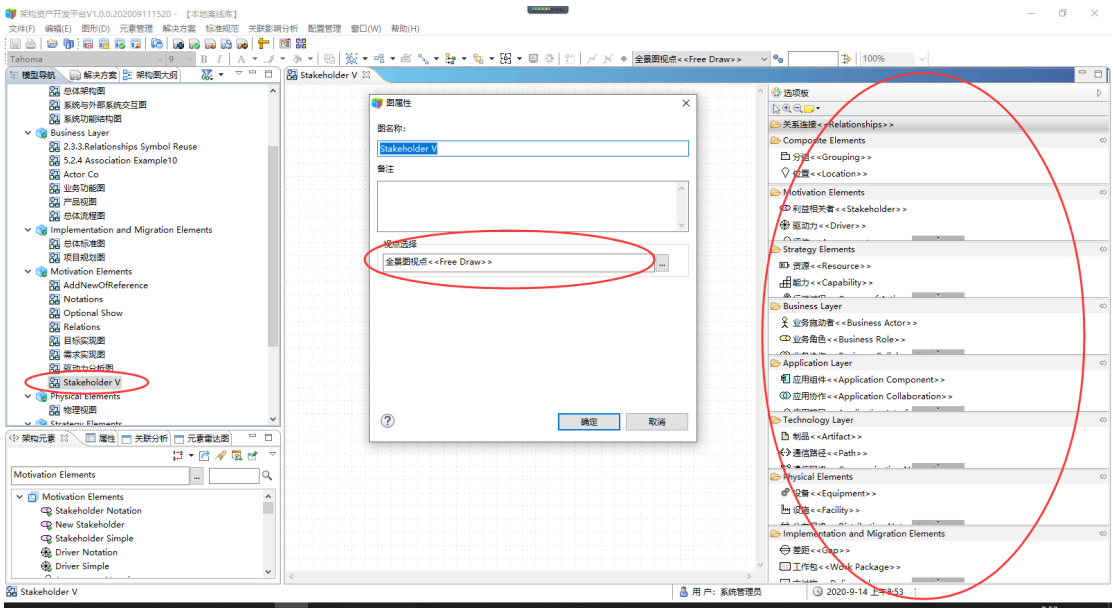
- *Req2: Each conforming product shall provide a comprehensive viewpoint with all standard language elements and relationship types.*

  Supported

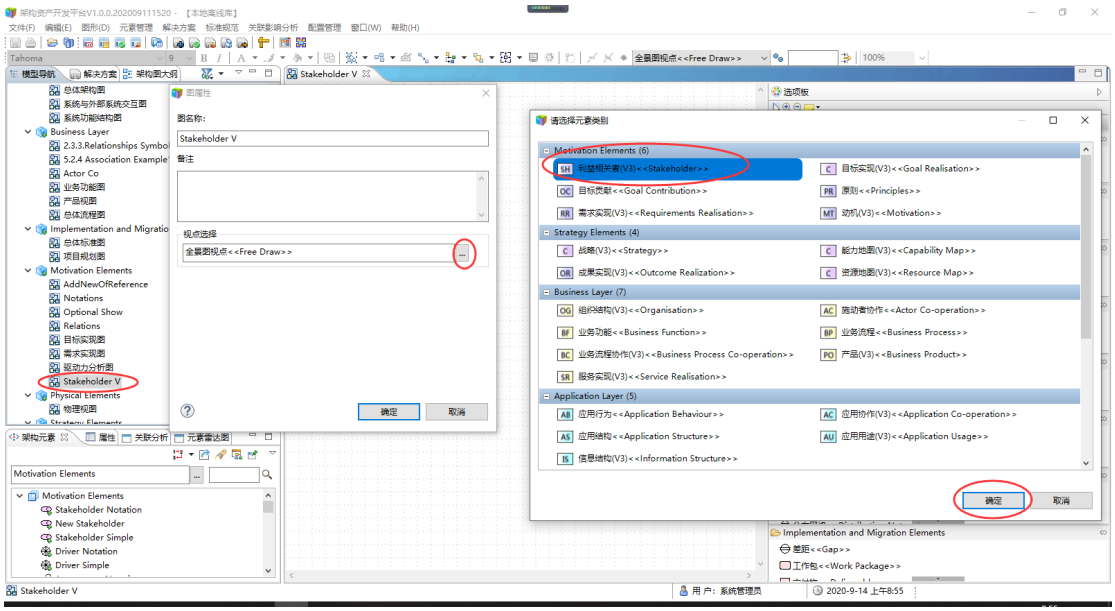
  As shown above. And in Tecsoon Tool user can customize his owner viewpoint either by the viewpoint definition window.



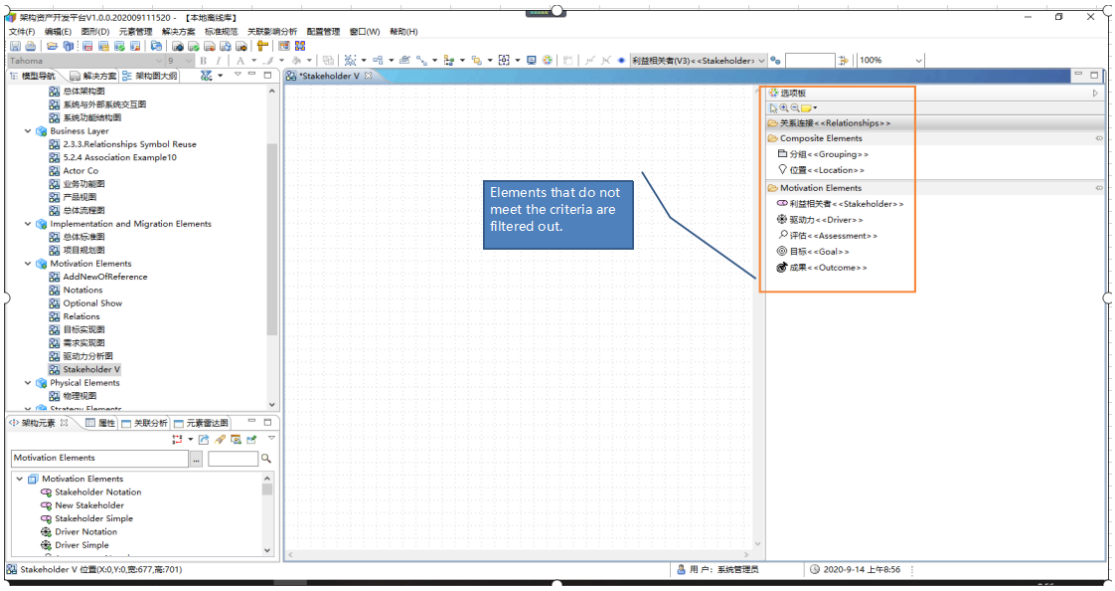
For example, we create a new diagram Stakeholder V with [Free draw], all the layer and elements are show on the right to be selected.



Then we change the viewpoint of [Actor Co] to the “Stakeholder Viewpoint”. The allowed layers and elements are align to the standard of “Stakeholder Viewpoint”.



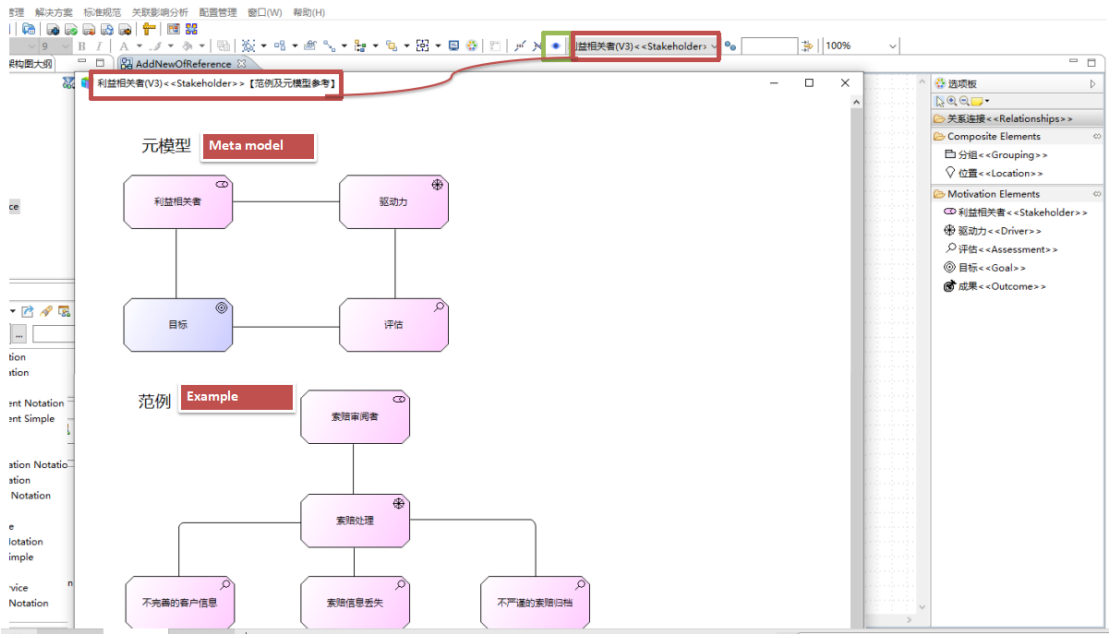
Elements that do not meet the “Stakeholder Viewpoint” standard are filtered out.



- *Req3: Each view shall be based on a particular viewpoint that serves as a template for the view.*

Supported

For each viewpoint there is a reference view on which there is a meta model of the viewpoint and an example of the viewpoint.



- *Req4: Each view may contain only the language element and relationship types specified in the definition of its viewpoint.*

Supported

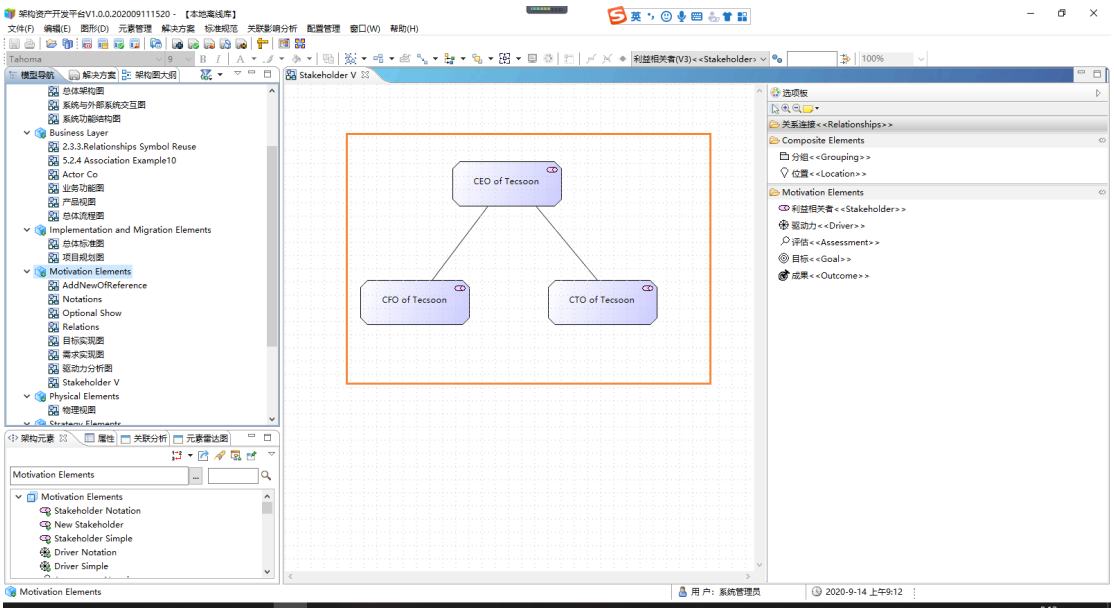
In Tecsoon Tool we defined the viewpoint rule as it is in the ArchiMate standard. So that *each view may contain only the language element and relationship types specified in the definition of its viewpoint.*

- *Req5: Each conforming product shall enable users to present ArchiMate elements and relationships from a single underlying model in multiple views, or in multiple instances in the same view. Therefore, any changes to the content of one view shall be reflected throughout all views of the same model that share any added, changed, or deleted ArchiMate elements and relationships. This means that any changes to objects, object properties, or relationships in one view shall be reflected in all views that present the changed objects, object properties, or relationships.*

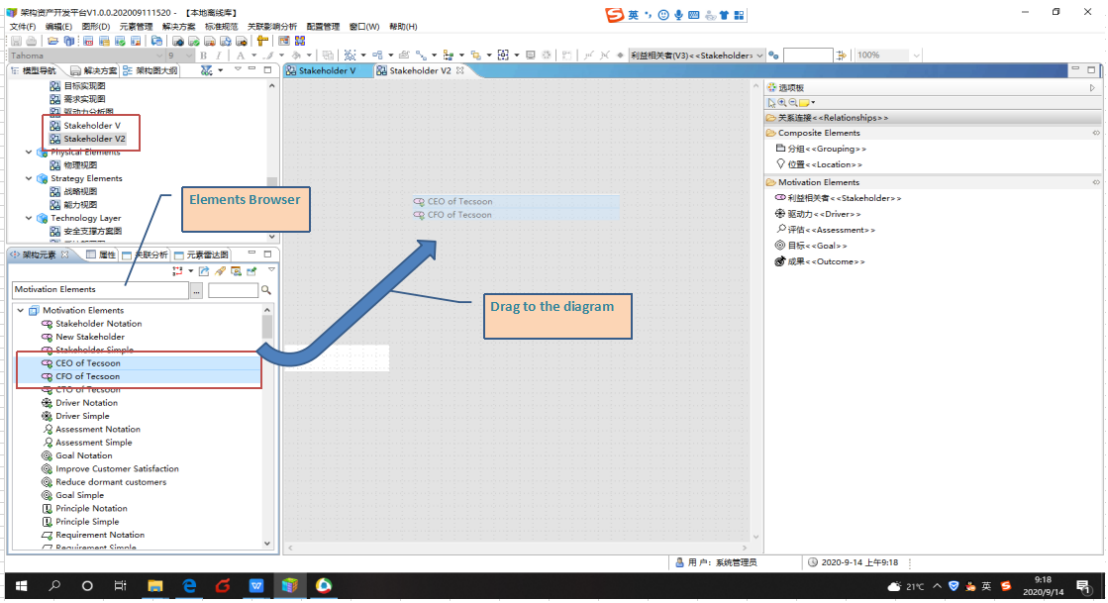
Supported

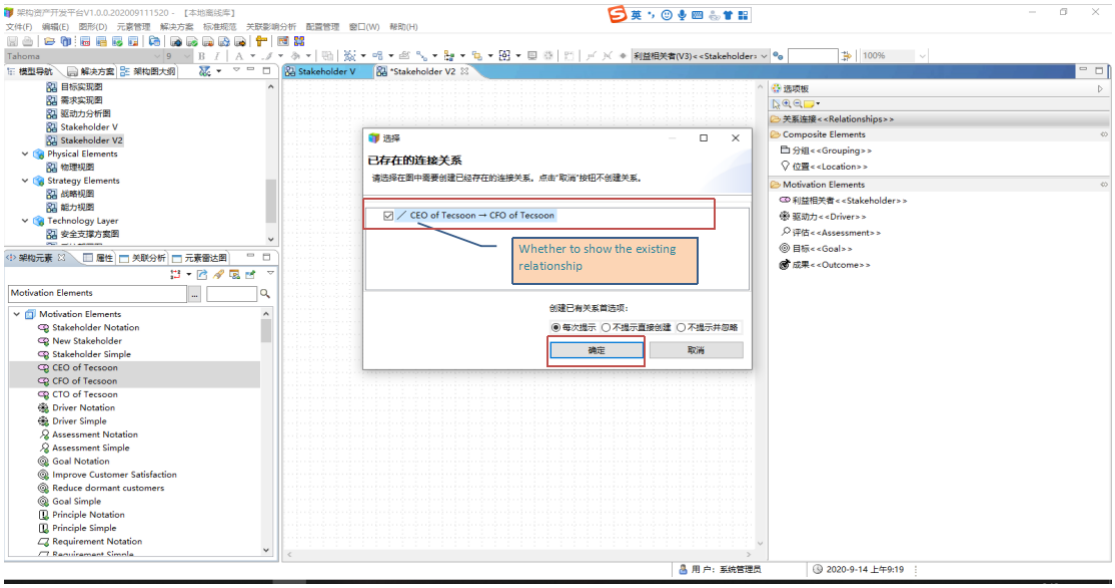
In Tecsoon Tool, once an element has been created, it is unique, instances of its are like shadows. Therefore, *any changes to objects, object properties, or relationships in one view shall be reflected in all views that present the changed objects, object properties, or relationships.*

Step1: We create 3 related elements like they are shown belown on diagram "Stakeholder V". Without specific properties.

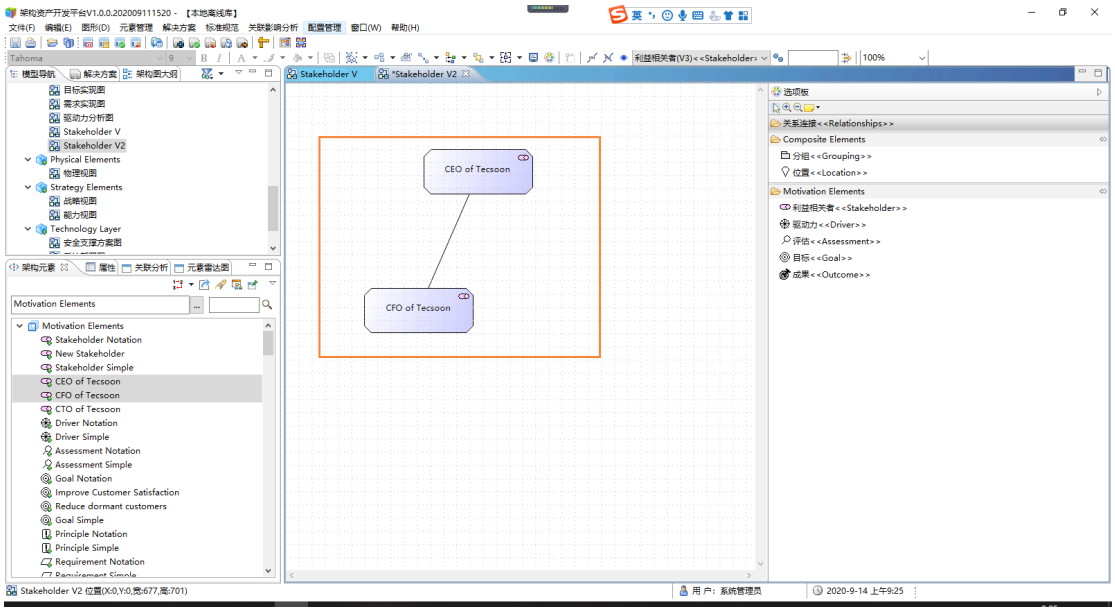


Step 2: We create another diagram "Stakeholder V2". Drag two of the elements that created on diagram "Stakeholder V" for reference(not copy).

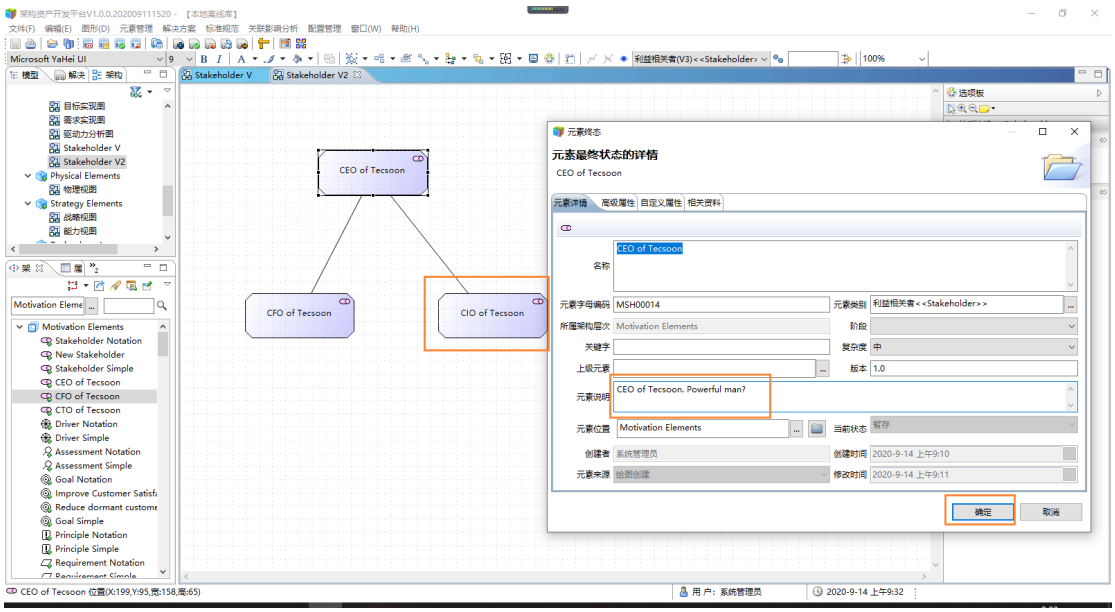




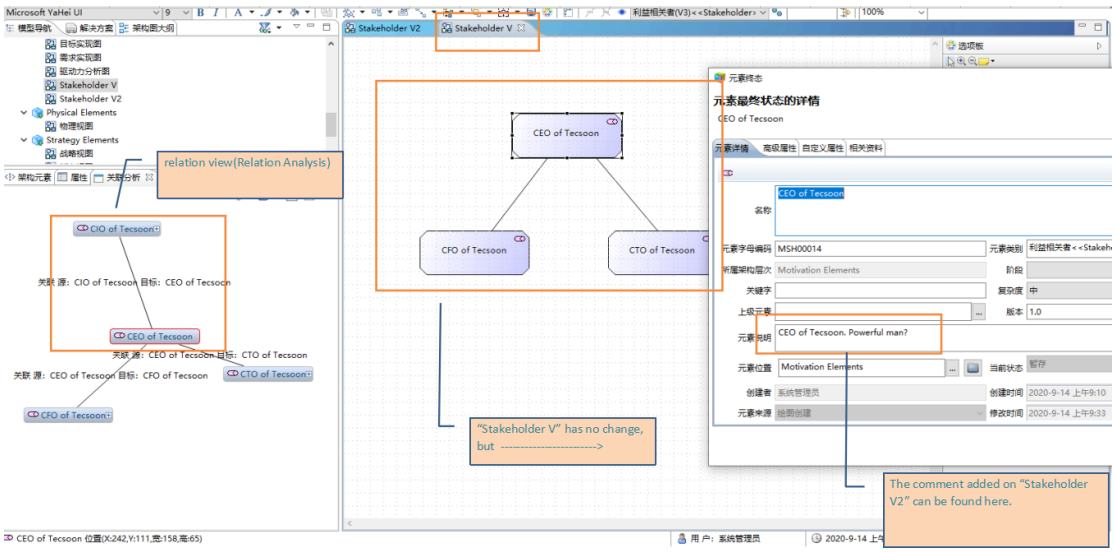
Relationship which has been created on “Stakeholder V” is shown.



Step3: Then we create an element “CIO” on “Stakeholder V2”. And add the comments to element “CEO”.



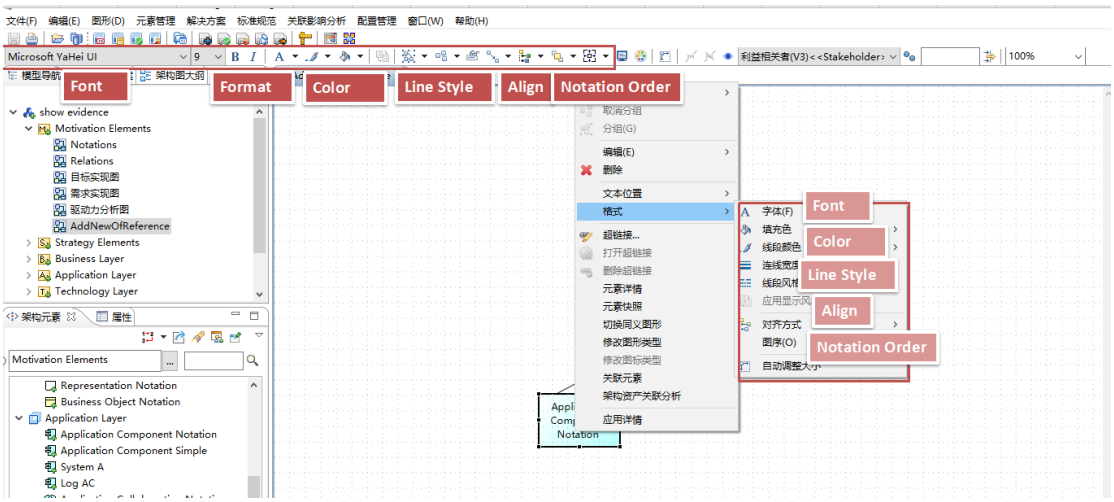
Step4: Open “Stakeholder V”. In the relation view we’ll see the relationship between “CEO” and other roles including the newly created “CIO”. And also the comment of “CEO” added on “Stakeholder V2” can be found when we open the property view of “CEO”.



- *Req6: Each conforming product shall enable users to use different scaling or coloration for multiple representations of any single element or relationship in a single view or in multiple views.*

Supported

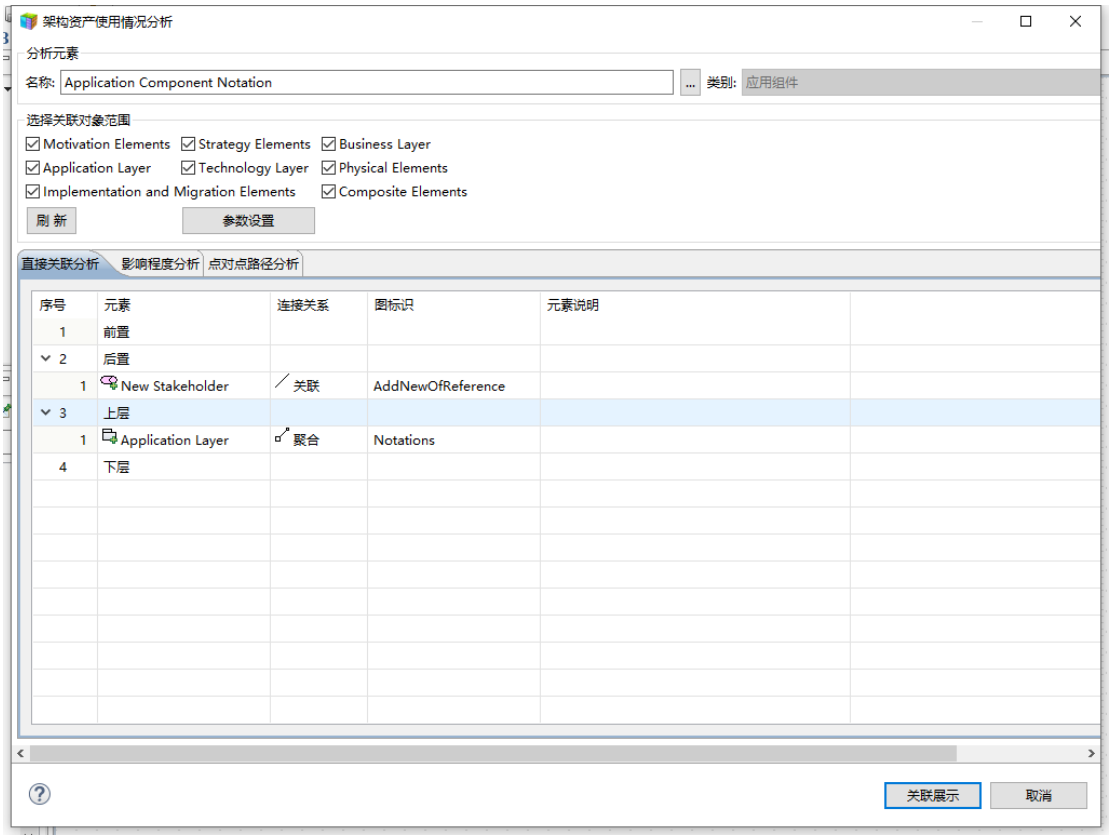
User can resize a notation on the diagram and set font,format,color,line style,align,notation order ...

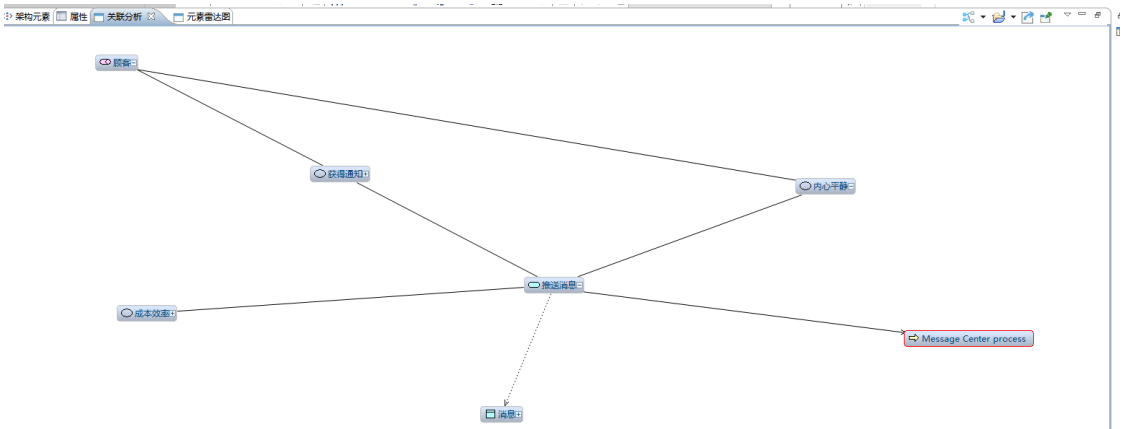


- *Req7: A conforming product shall track the occurrences of objects in different views.*

Supported

In Tecsoon Tool, user can track an object by several means. Such as element usage, that shows in which scenarios the element are connecting with others. Aslo in the relation analysis window, when user selected an element on a diagram, then elements those relating with will be shown.



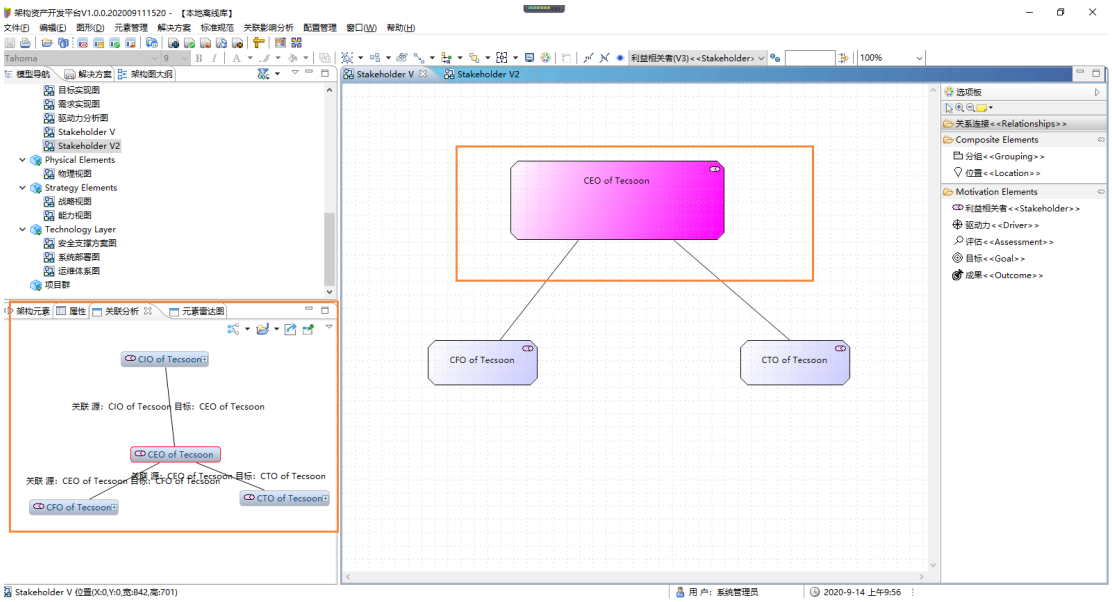


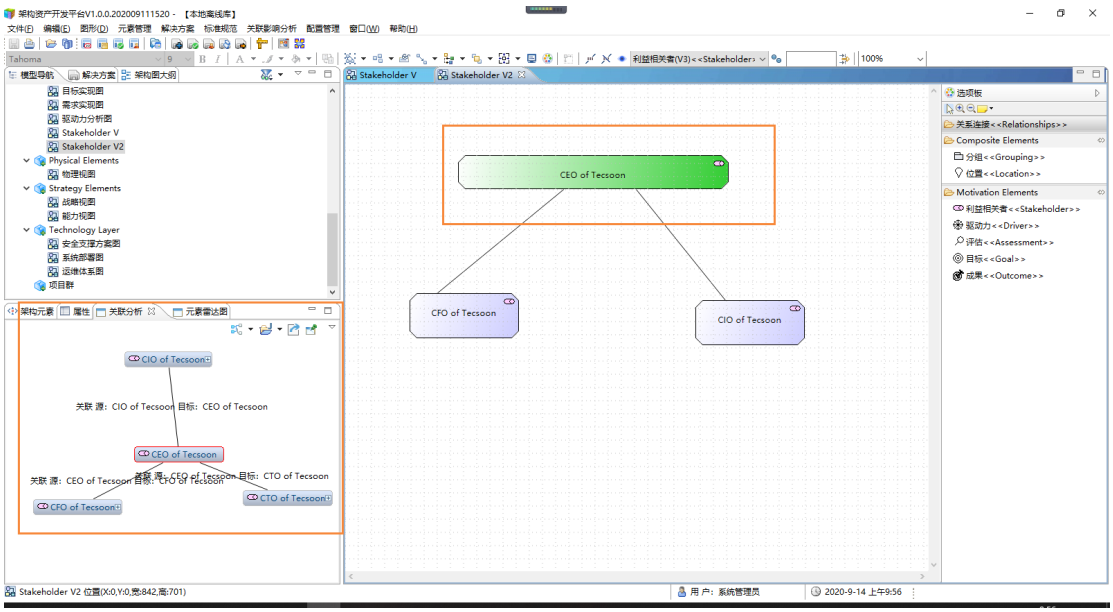
- *Req8: A conforming product shall allow for different graphical notations for an object in different views.*

Supported

We identify an object by its name and type, that when user creates a notation using an existed name Tecsoon Tool will show the prompt including name and type. User can use the existed one or create a new one.

Again we use the two diagrams created on Req5, “Stakeholder V” and “Stakeholder V2”. We set different colors and shapes of “CEO of tecsoon”. In fact in our tool the are two instances of one element.





From the relation views of this two diagram, we can see that two instances of “CEO” object having *different graphical notations.*

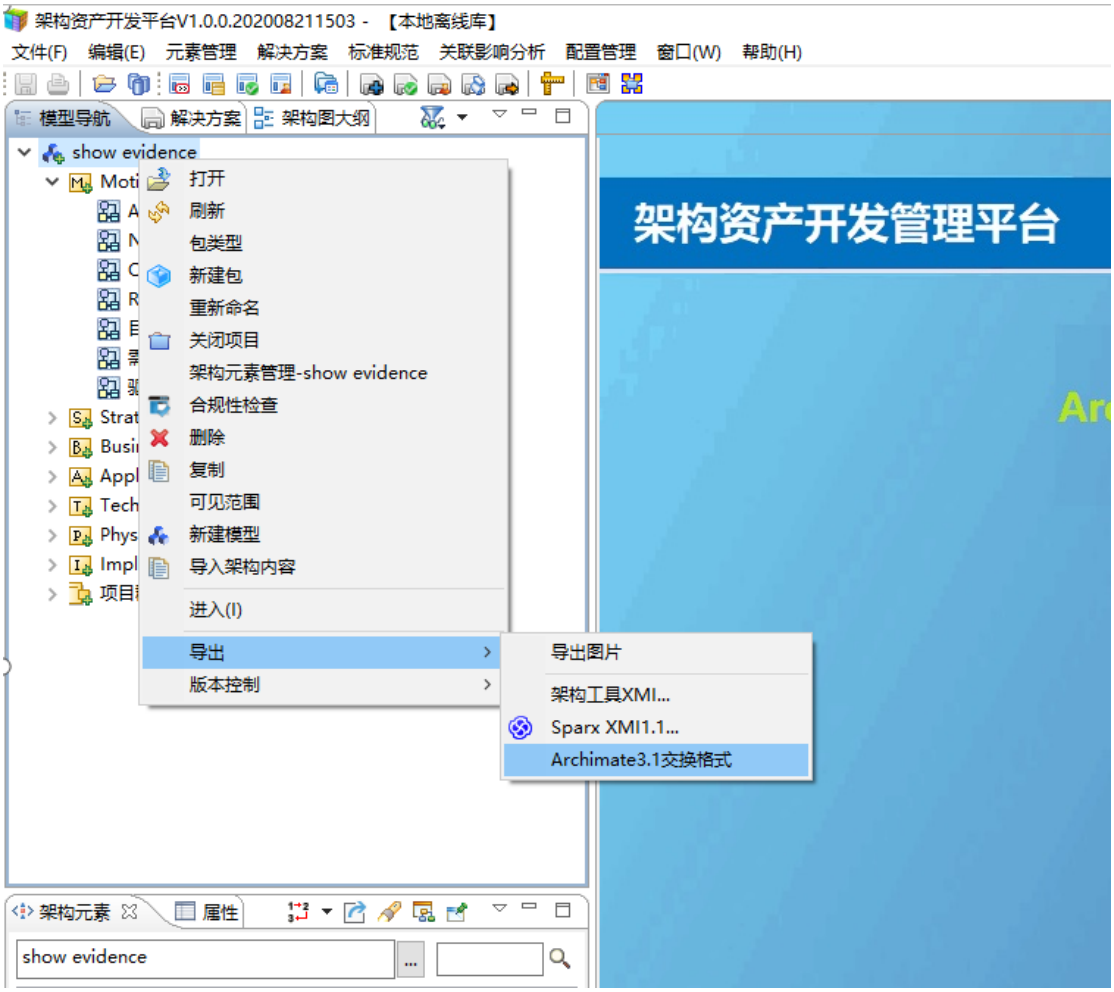
2.5. Exchange File Format Support

Tecsoon Tool has supported the ArchiMate 3.1 Model Exchange File Format standard.
On the navigator tree, right-click an model, then the tool will show the options of export. There is one option named “ArchiMate3.1 交换格式” which means export the selected model data by the ArchiMate 3.1 Exchange File Format standard.

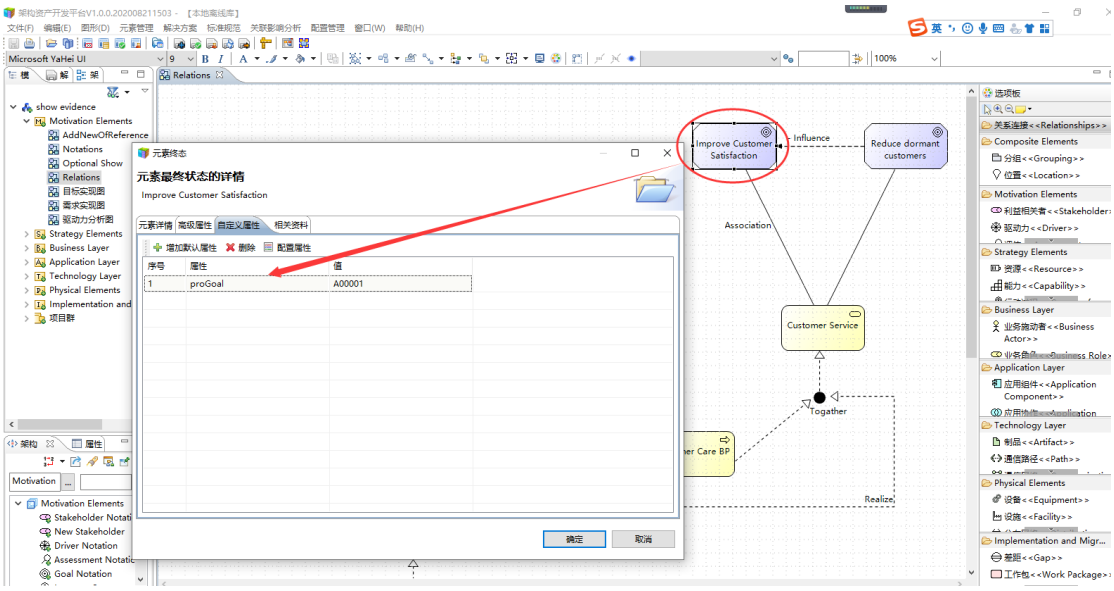
Example： Export “show evidence” model from Tecsoon Tool by the ArchiMate 3.1 Exchange File Format. The exported XML file is named as “ArchiMate3.1ExchangeFile.xml”.
Then open the Sparx EA(V.14) and import the exchange file. Model created in Tecsoon Tool will be imported into the Sparx EA. The steps are shown below.

2.5.1. Export an ArchiMate Exchange File

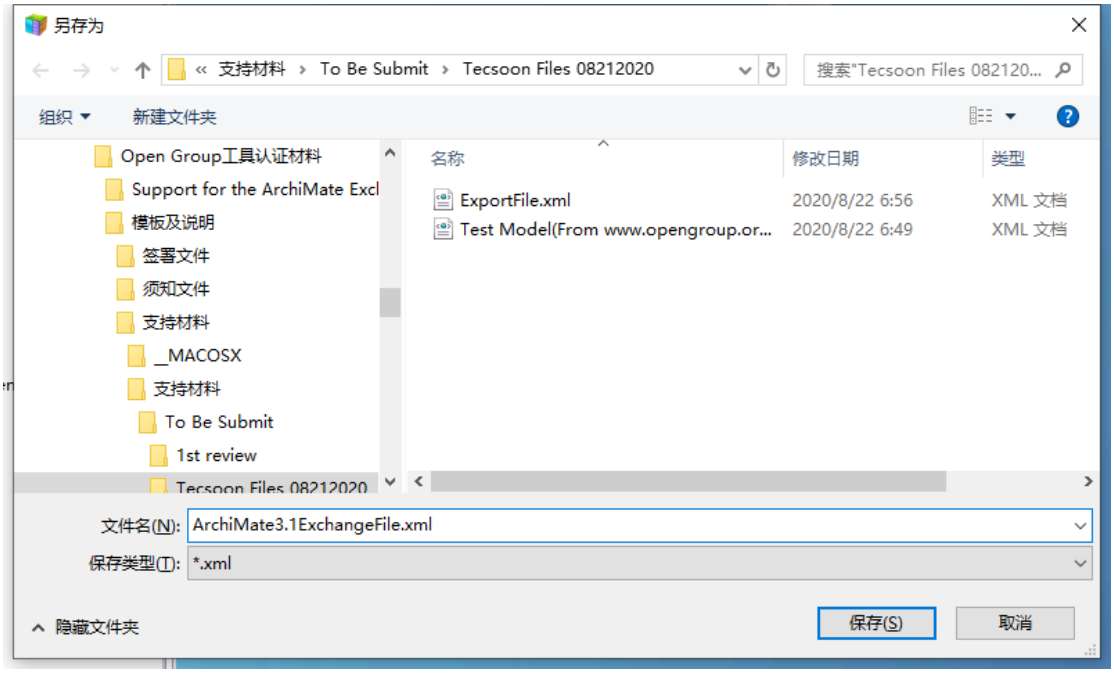
Export “show evidence” model From Tecsoon Tool



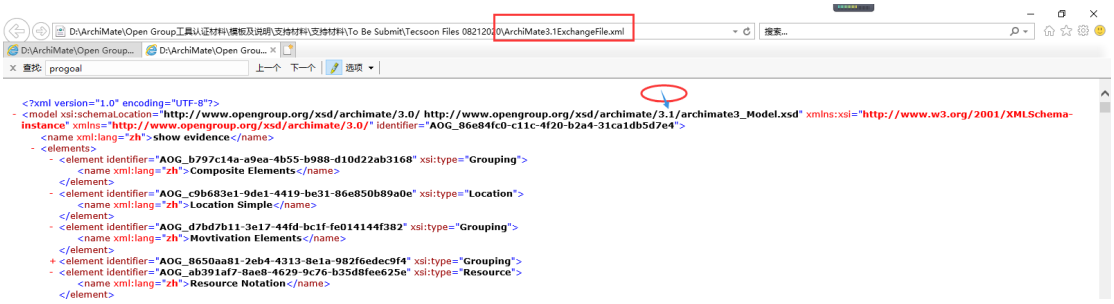
There is a customized property which is named as “proGoal”.



The exported file is like this. Named as “ArchiMate3.1ExchangeFile.xml”.

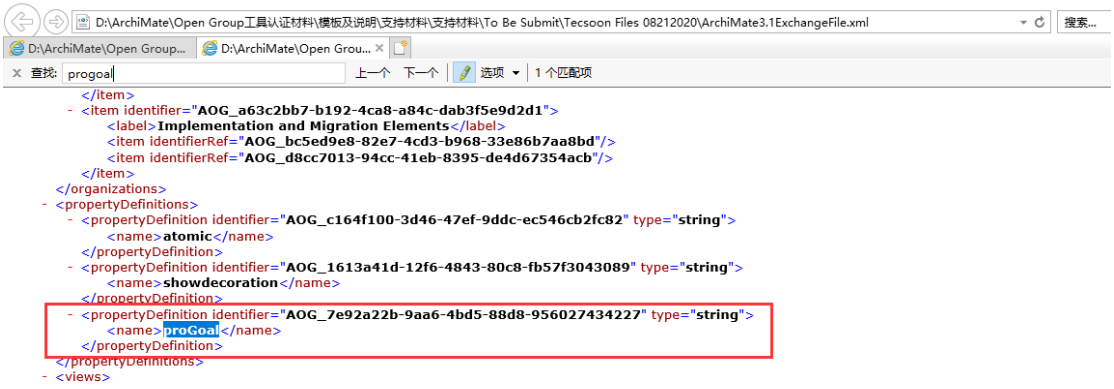


Parts of the exported file are listed below.



[http://www.opengroup.org/xsd/archimate/3.1/archimate3_Diagram.xsd]

[A valueStream element]

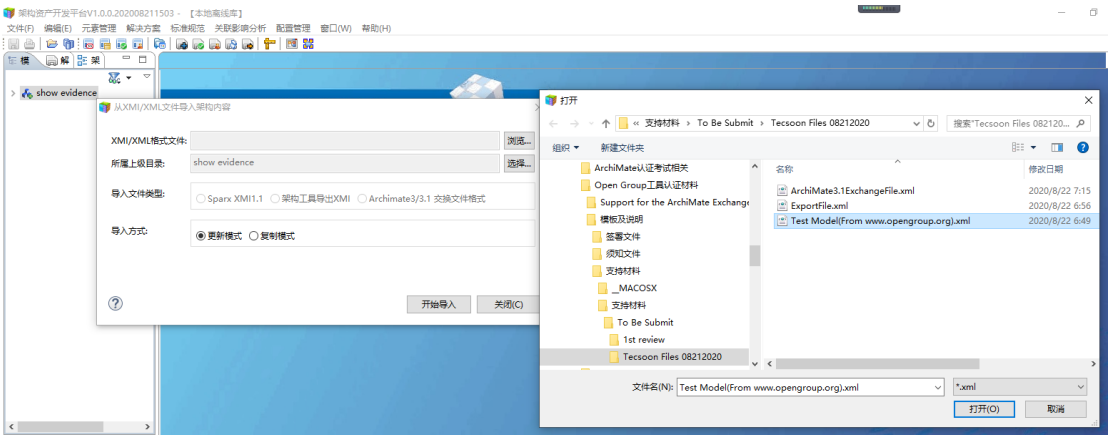


[Customized Property:proGoal]

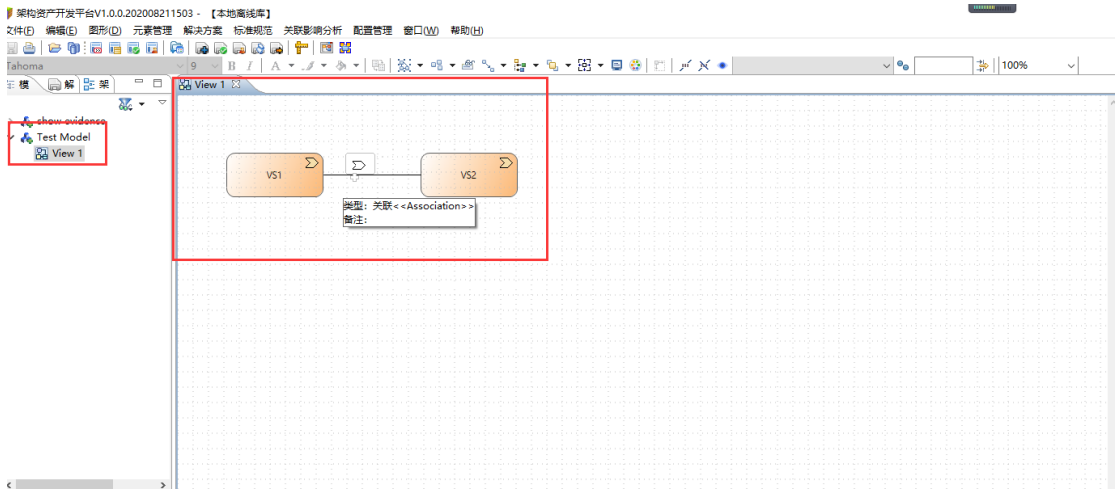
2.5.2. Import the exchange file into Tecsoon Tool

Import an ArchiMate 3.1 Model Exchange File Format XML.

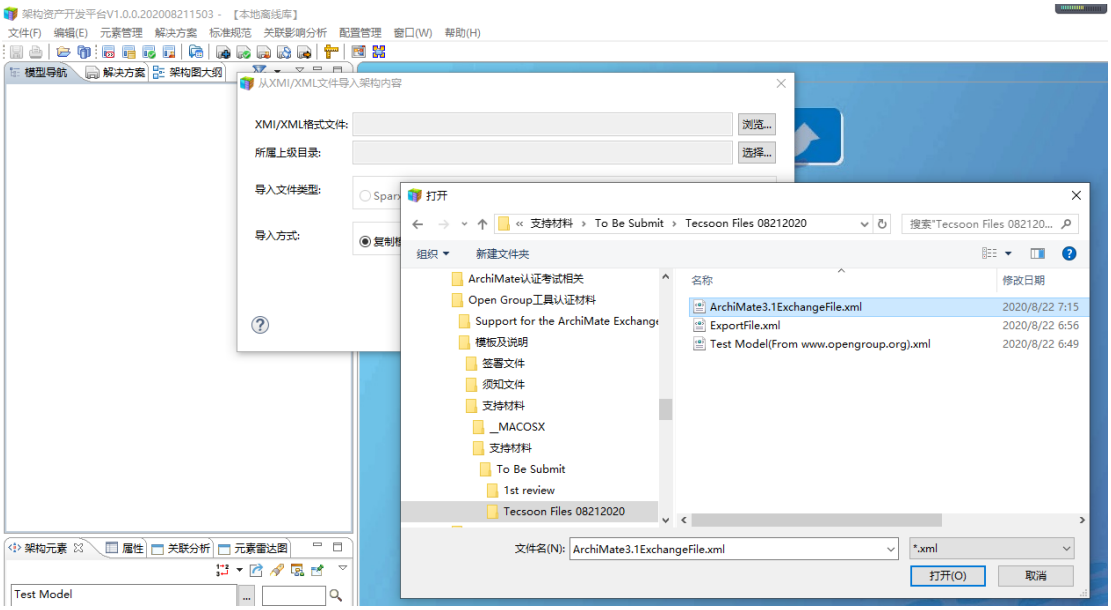
A.*File[**Test Mode**l] is from [**www.opengroup.org/xsd/archimate/3.1**]*



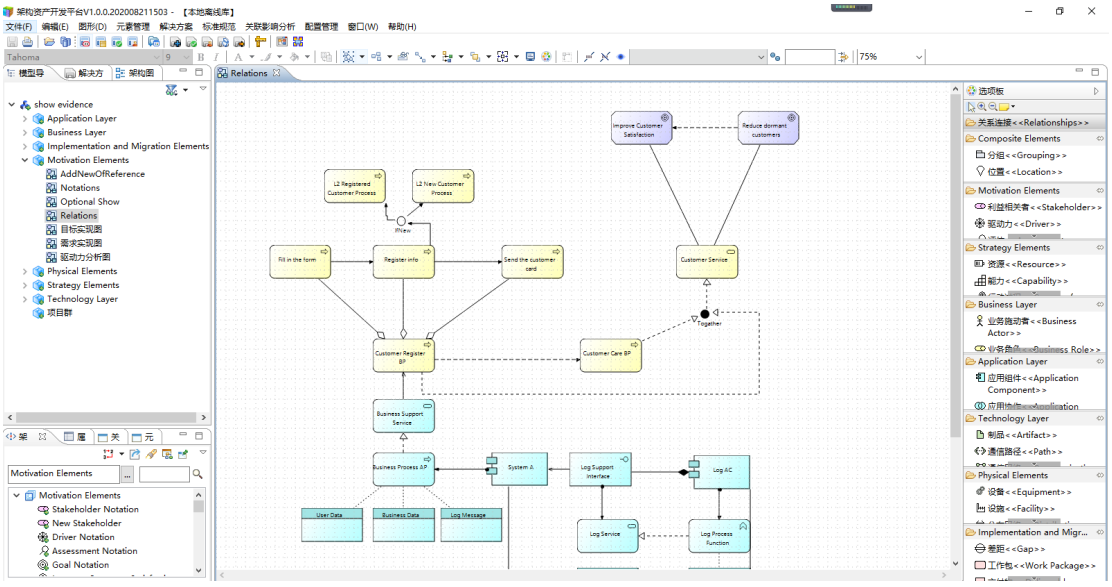
After a successful import, all the models are imported.



B.*Import an exported ArchiMate3.1 exchange format file from Tecsoon tool.*

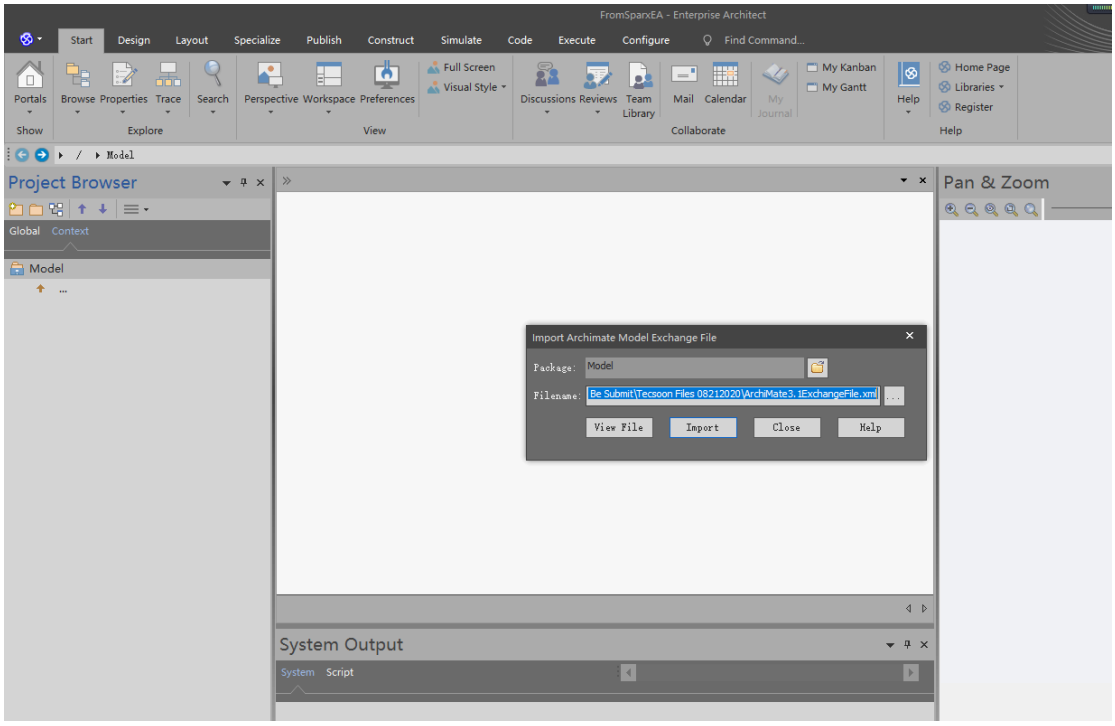


After a successful import, all the models are imported.

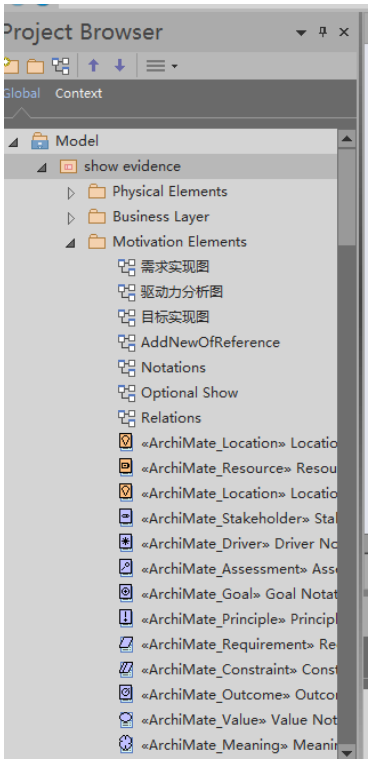


2.5.3. Export to Sparx EA

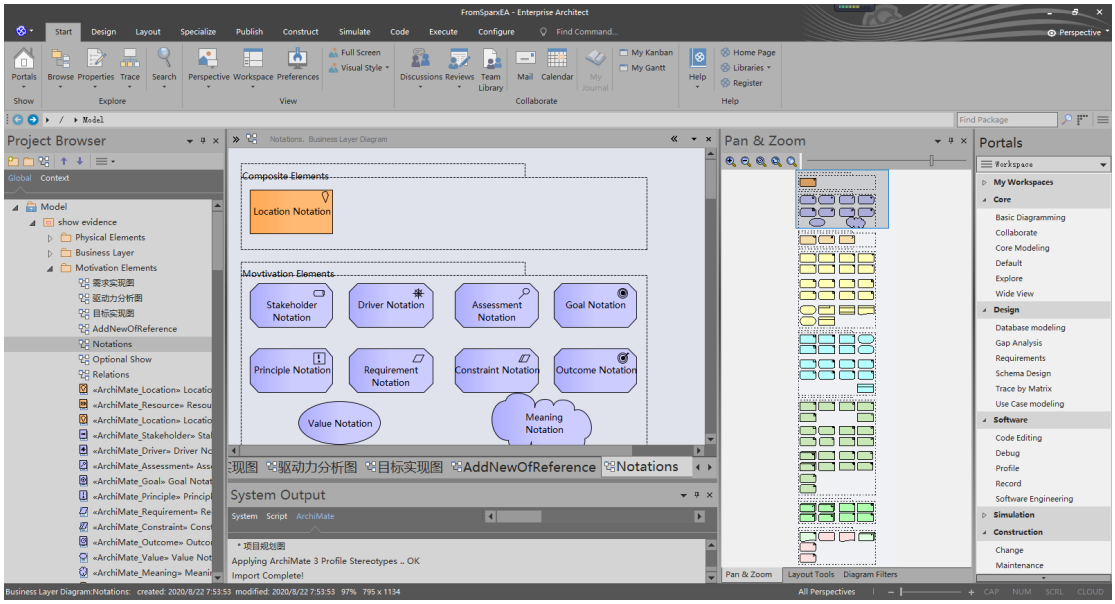
Import the exchange file from Tecsoon Tool[ArchiMate3.1ExchangeFile.xml]



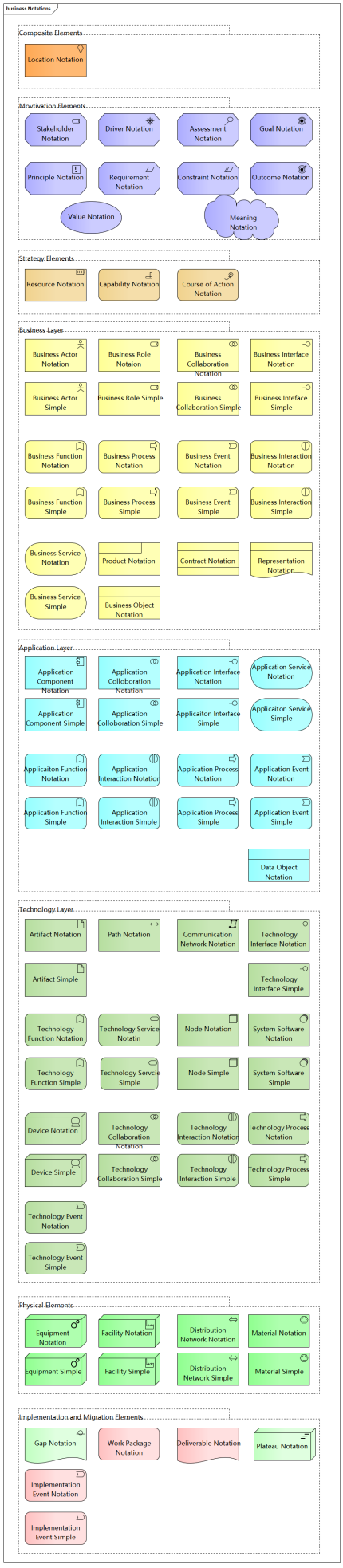
Model structure is loaded successfully.

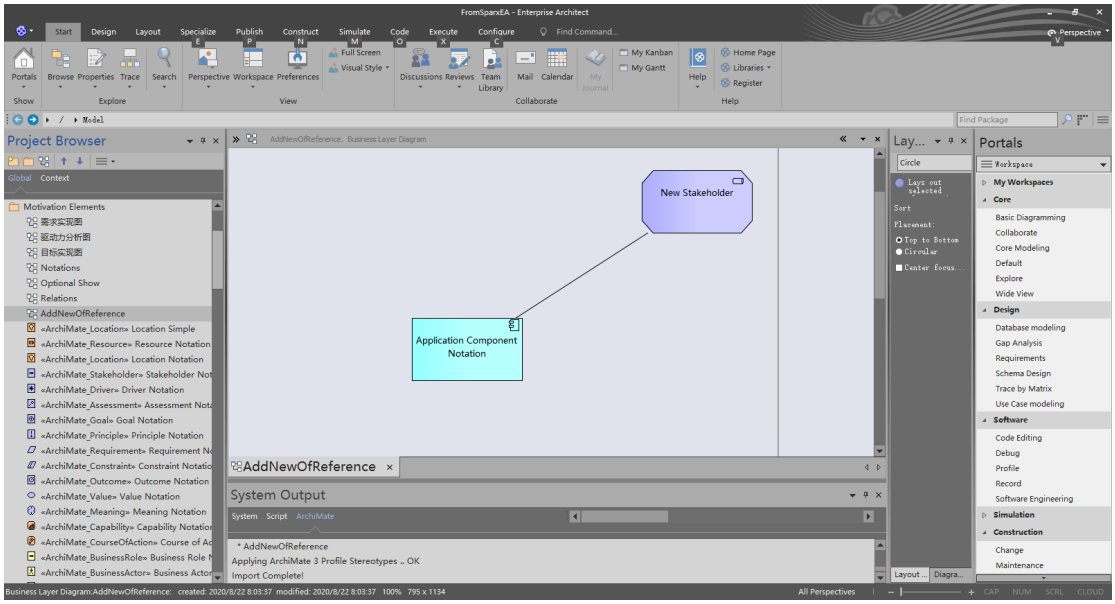


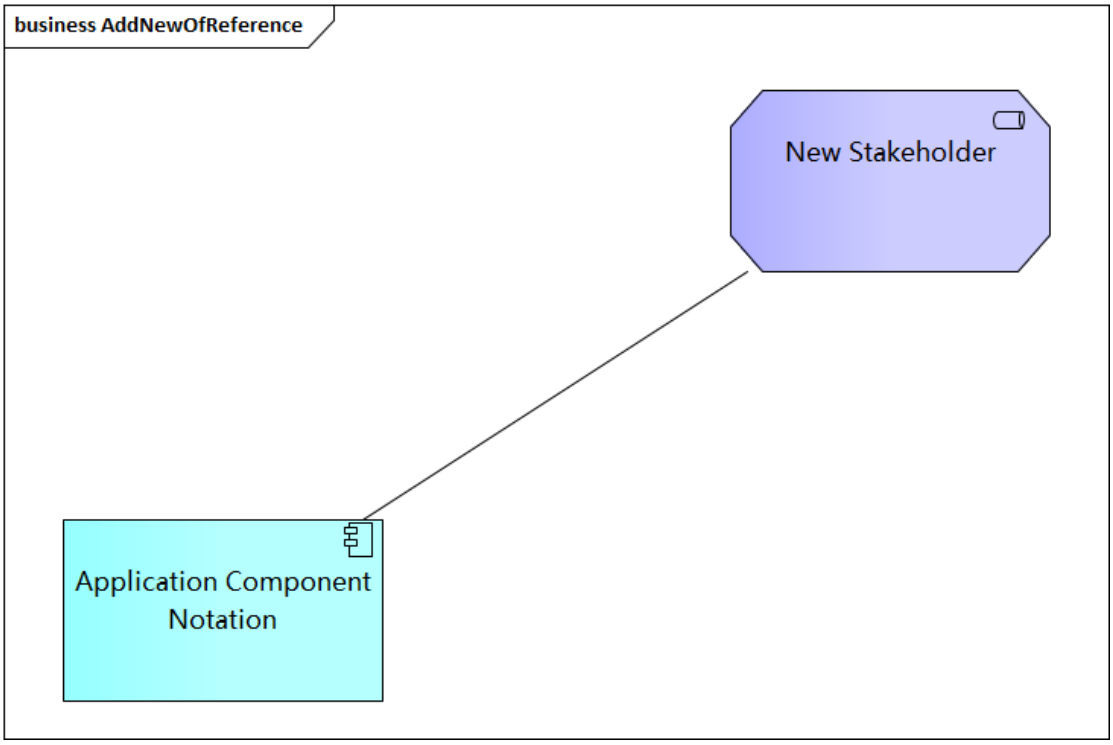
Main diagrams: **Notations,AddNewOfReference, Relations**.

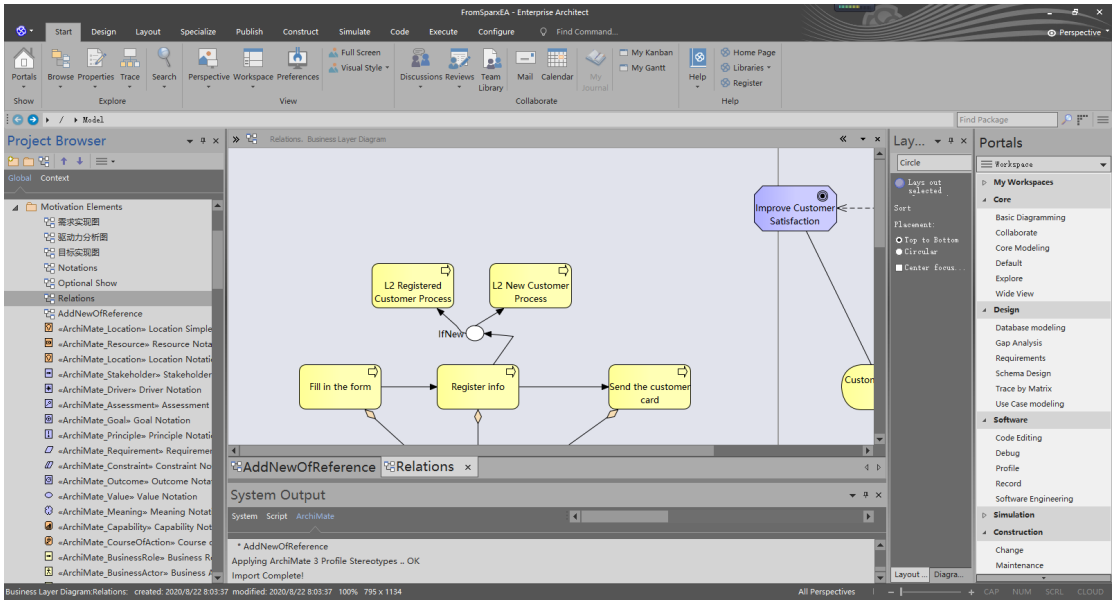


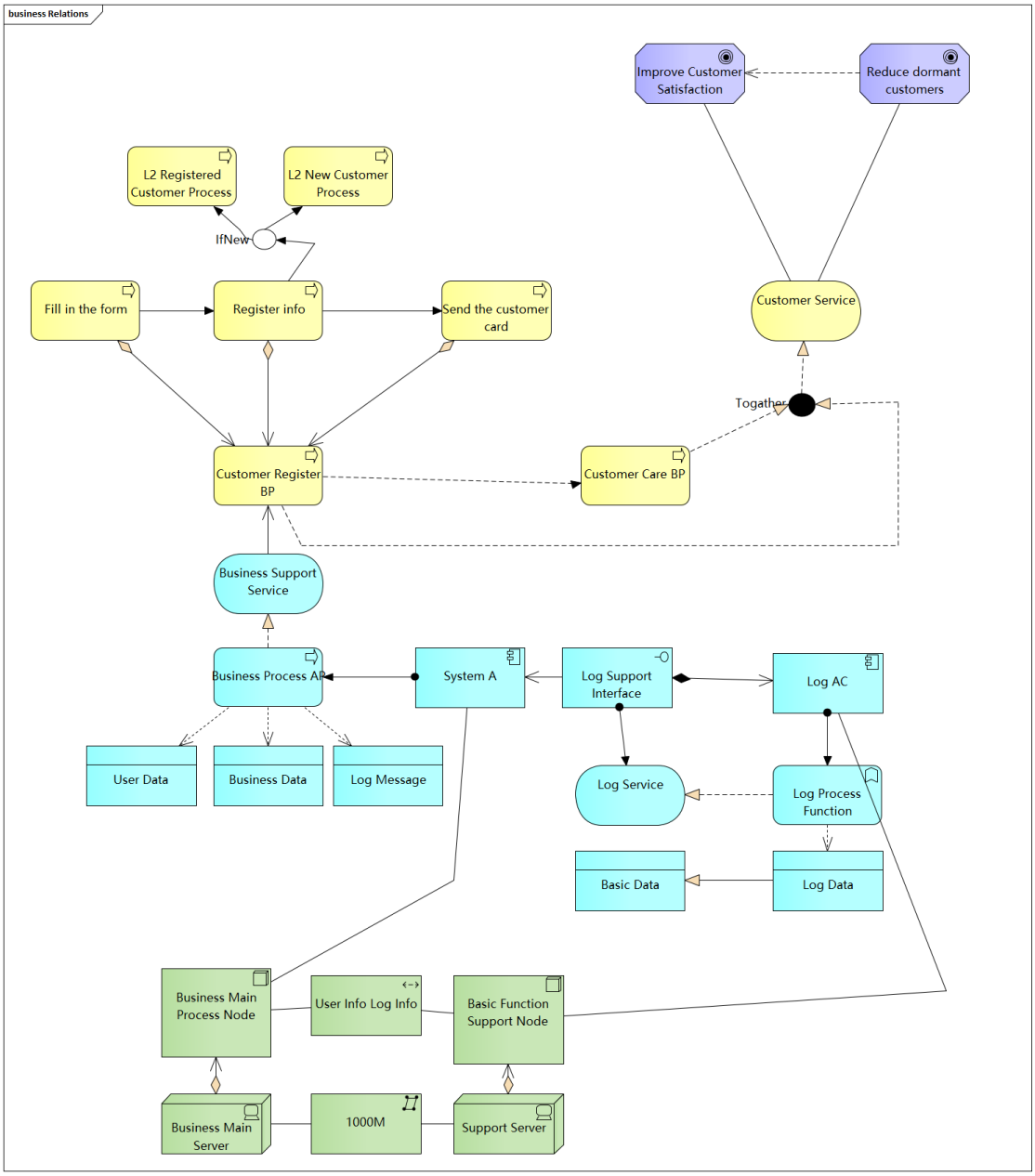
All the elements are imported and shown on the right positions. ArchiMate 3.1 Exchange File Format Standard does not provide the equivalent notation flag, so that Sparx EA shows those notations named “xxxx Simple” on the same style.


business Notations
Composite Elements
Location Notation
Movtivation Elements
Stakeholder Notation
Driver Notation
Assessment Notation
Goal Notation
Principle Notation
Requirement Notation
Constraint Notation
Outcome Notation
Value Notation
Meaning Notation
Strategy Elements
Resource Notation
Capability Notation
Course of Action Notation
Business Layer
Business Actor Notation
Business Role Notaion
Business Collaboration Notation
Business Interface Notation
Business Actor Simple
Business Role Simple
Business Collaboration Simple
Business Inteface Simple
Business Function Notation
Business Process Notation
Business Event Notation
Business Interaction Notation
Business Function Simple
Business Process Simple
Business Event Simple
Business Interaction Simple
Business Service Notation
Product Notation
Contract Notation
Representation Notation
Business Service Simple
Business Object Notation
Application Layer
Application Component Notation
Application Colloboration Notation
Application Interface Notation
Application Service Notation
Application Component Simple
Application Colloboration Simple
Applicaiton Interface Simple
Applicaiton Service Simple
Applicaiton Function Notation
Application Interaction Notation
Application Process Notation
Application Event Notation
Application Function Simple
Application Interaction Simple
Application Process Simple
Application Event Simple
Data Object Notation
Technology Layer
Artifact Notation
Path Notation
Communication Network Notation
Technology Interface Notation
Artifact Simple
Technology Interface Simple
Technology Function Notation
Technology Service Notatin
Node Notation
System Software Notation
Technology Function Simple
Technology Servcie Simple
Node Simple
System Software Simple
Device Notation
Technology Collaboration Notation
Technology Interaction Notation
Technology Process Notation
Device Simple
Technology Collaboration Simple
Technology Interaction Simple
Technology Process Simple
Technology Event Notation
Technology Event Simple
Physical Elements
Equipment Notation
Facility Notation
Distribution Network Notation
Material Notation
Equipment Simple
Facility Simple
Distribution Network Simple
Material Simple
Implementation and Migration Elements
Gap Notation
Work Package Notation
Deliverable Notation
Plateau Notation
Implementation Event Notation
Implementation Event Simple


FromSparxEA - Enterprise Architect
Project Browser
New Stakeholder
Application Component Notation
AddNewOfReference
System Output
Portals

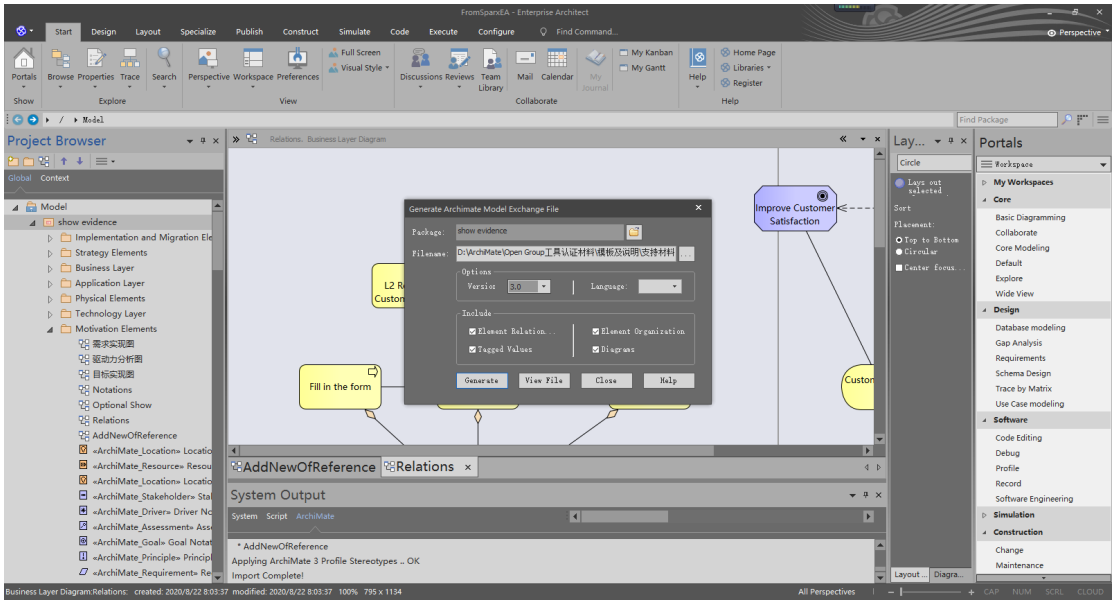

business AddNewOfReference
New Stakeholder
Application Component Notation

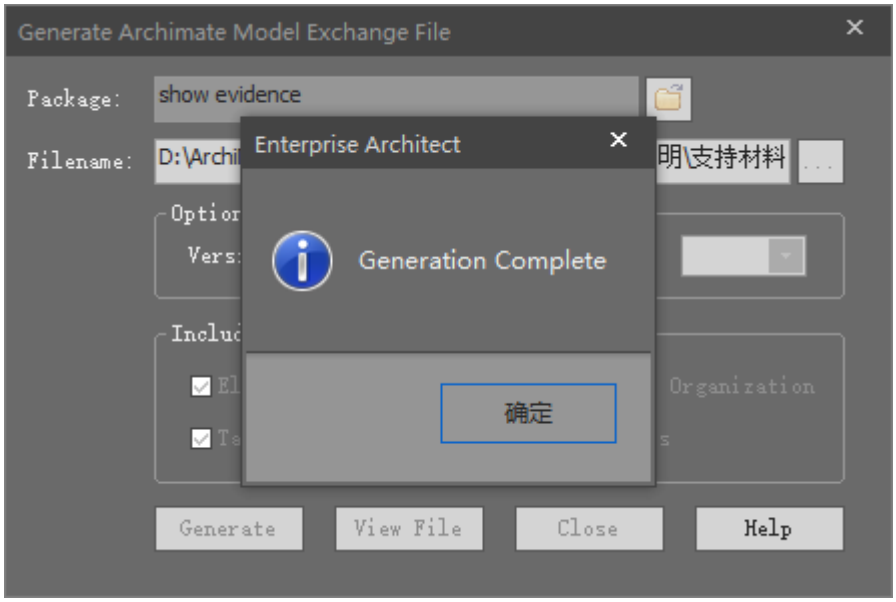

FromSparxEA - Enterprise Architect
Project Browser
Improve Customer Satisfaction
L2 Registered Customer Process
L2 New Customer Process
Fill in the form
Register info
Send the customer card
AddNewOfReference
Relations
System Output
Portals



2.5.4. Import a Sparx EA file

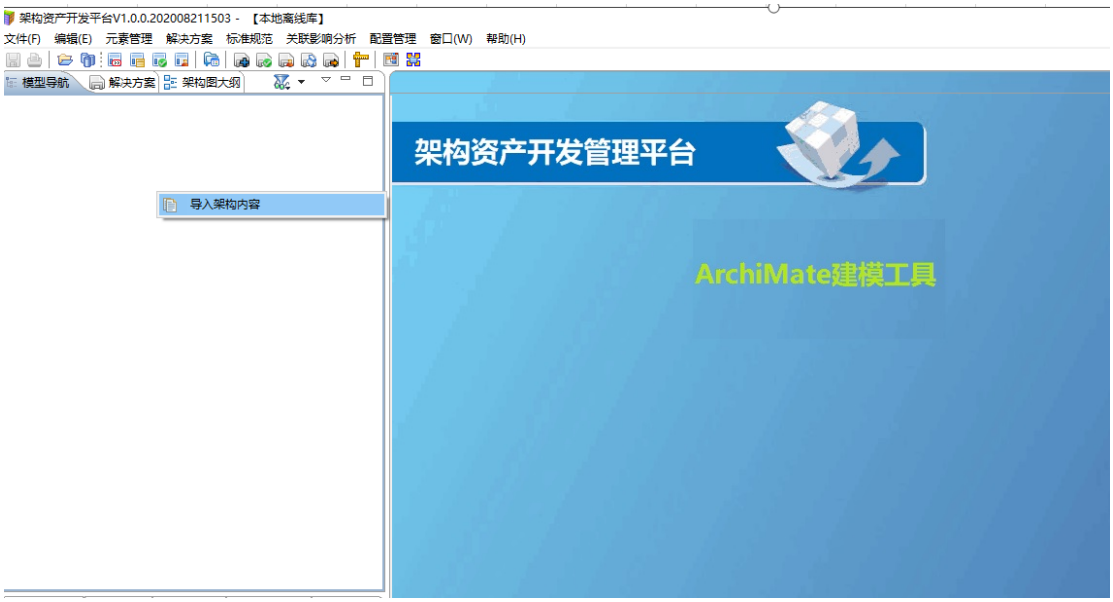
Export an ArchiMate 3.0 Exchange File Format XML from Sparx EA.



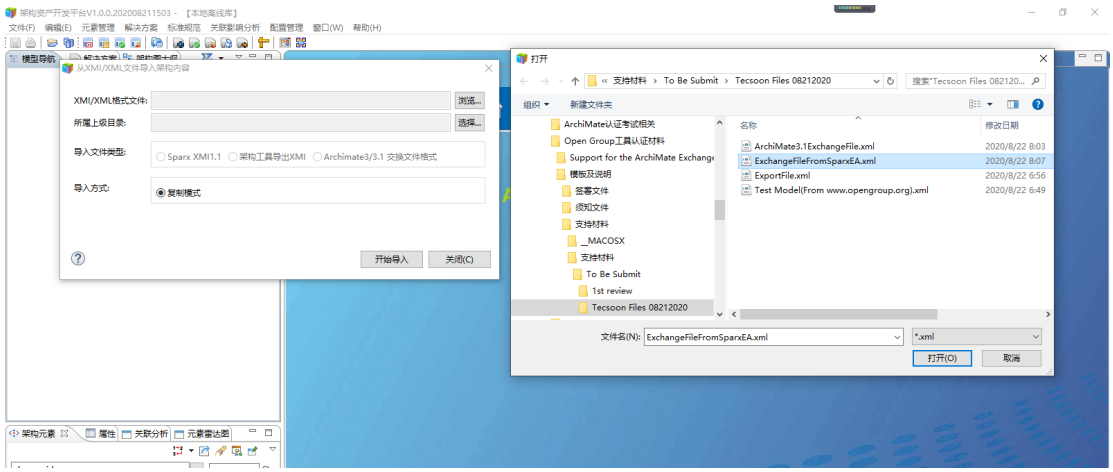


The exported file is named as “ExchangeFileFromSparxEA.xml”.

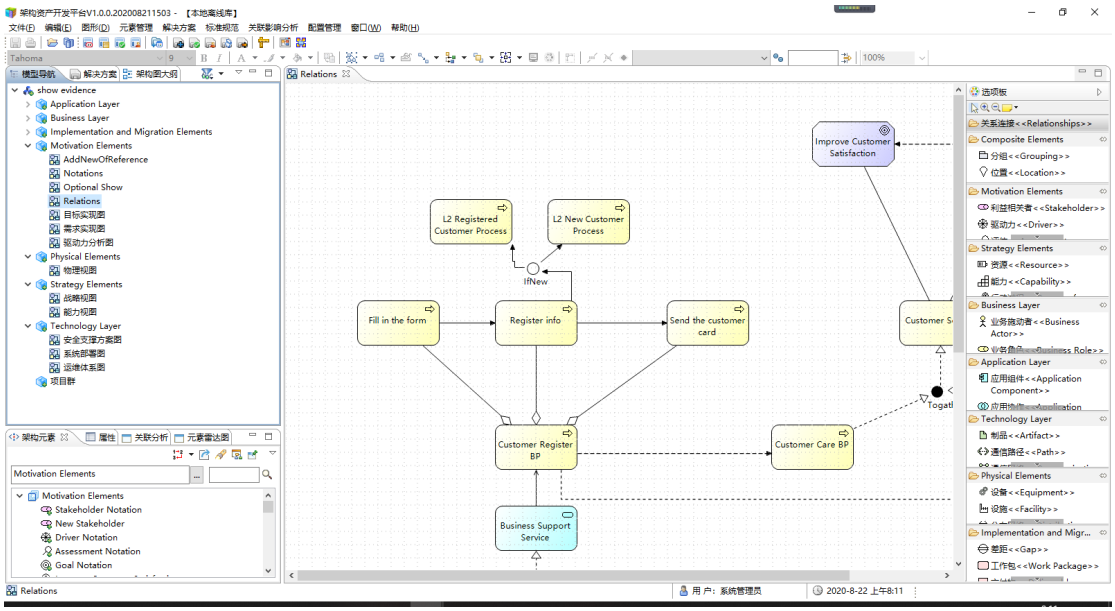
Then open Tecsoon Tool, delete all the models to clear the panel, then import the exchange file.



Selecting the exported file(*ExchangeFileFromSparxEA.xml*).

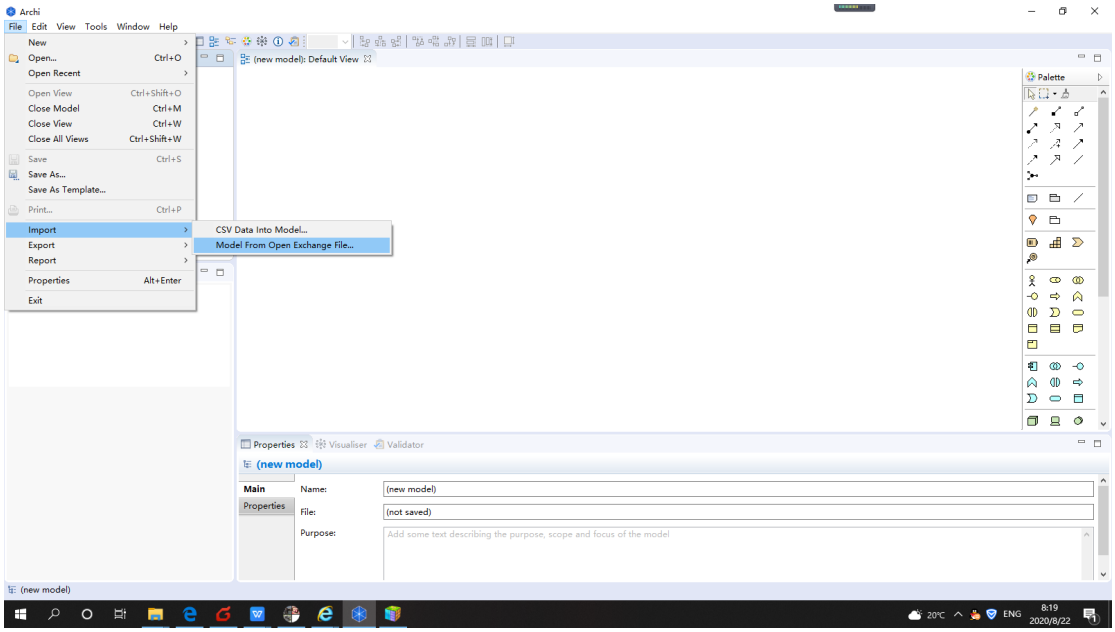


After a successful import, models from Sparx EA will be found in Tecsoon Tool.

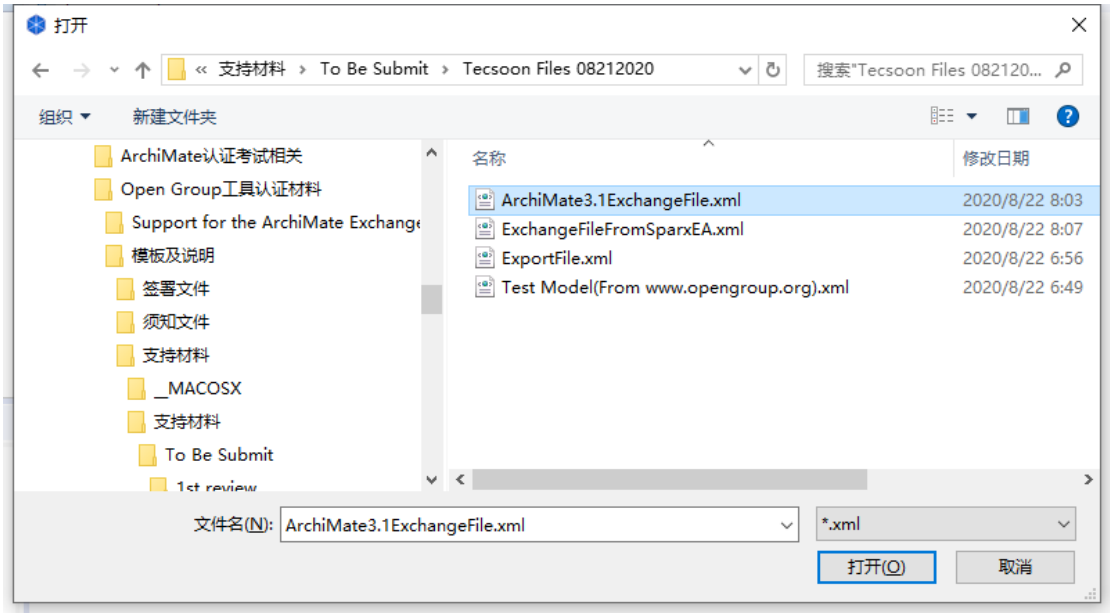


2.5.5. Export to Archi

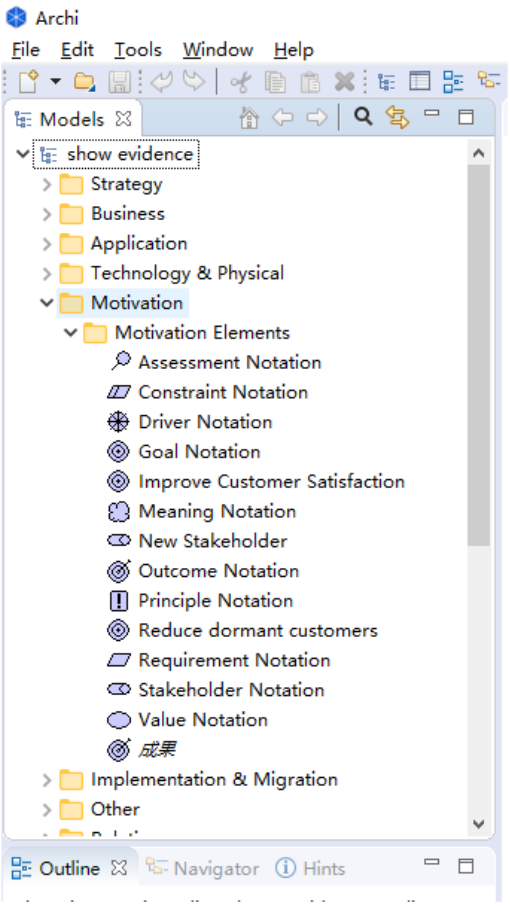
Selecting [**Model From Open Exchange File**]

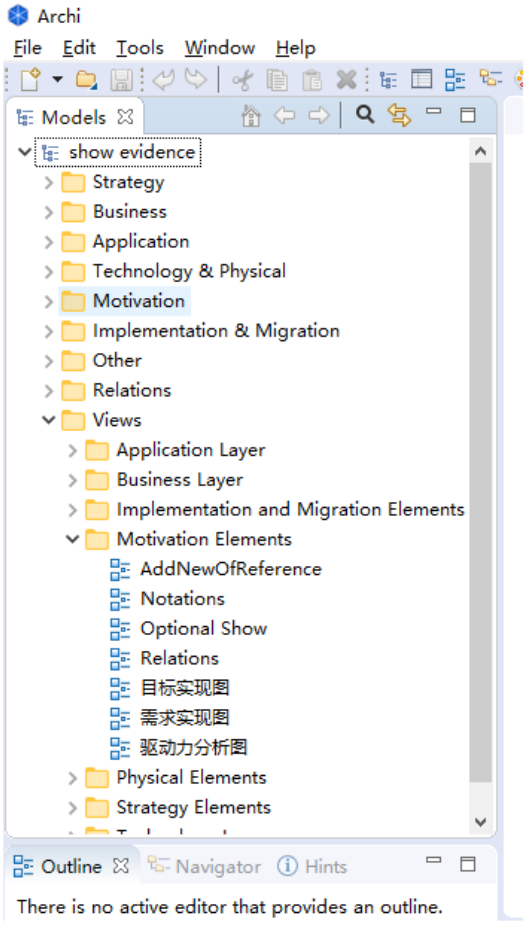


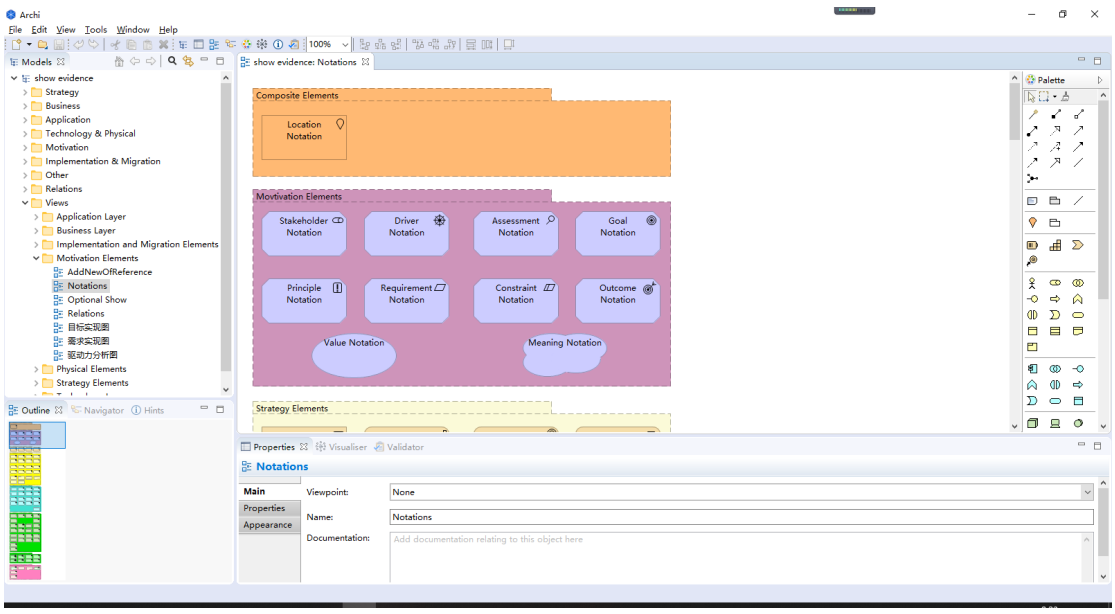
Then we chose the exported file from Tecsoon Tool.

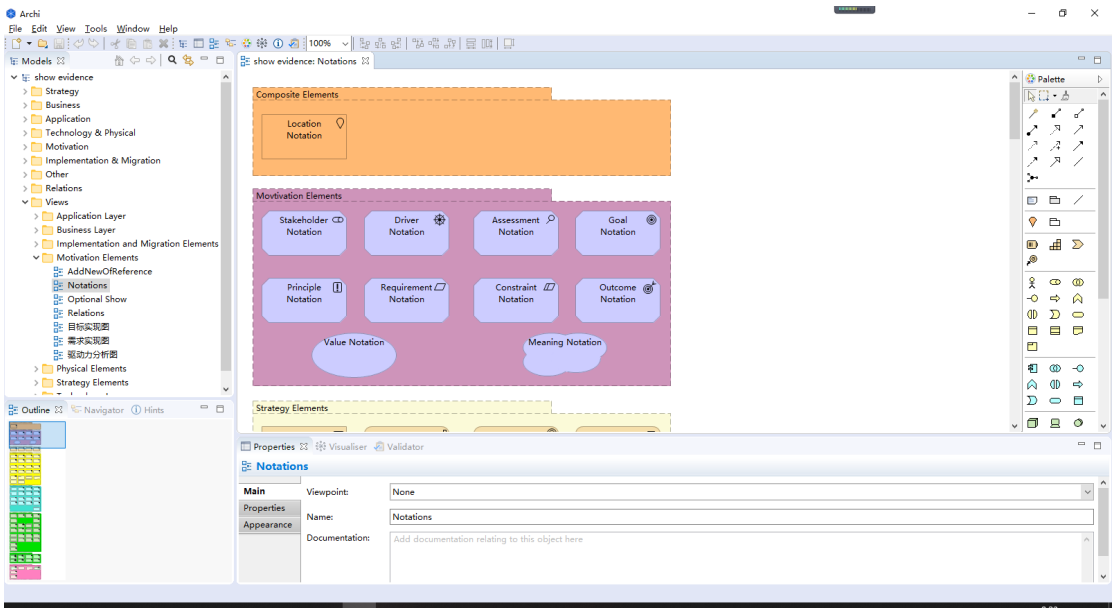


The elements and views were imported into Archi successfully.

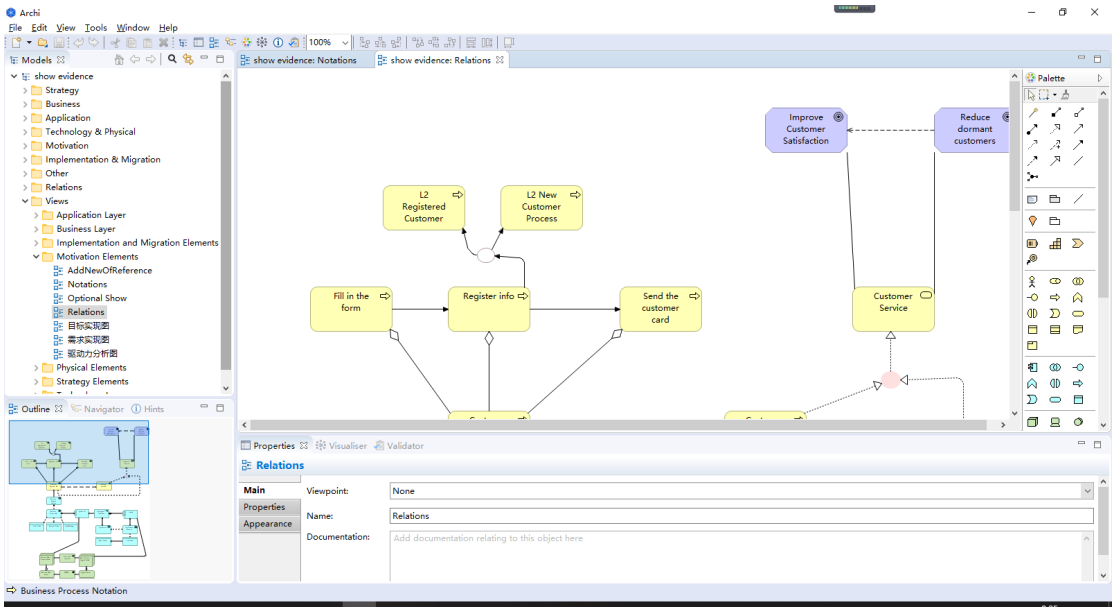

Archi
File Edit Tools Window Help
Models
show evidence
Strategy
Business
Application
Technology & Physical
Motivation
Motivation Elements
Assessment Notation
Constraint Notation
Driver Notation
Goal Notation
Improve Customer Satisfaction
Meaning Notation
New Stakeholder
Outcome Notation
Principle Notation
Reduce dormant customers
Requirement Notation
Stakeholder Notation
Value Notation
成果
Implementation & Migration
Other
Outline
Navigator
Hints

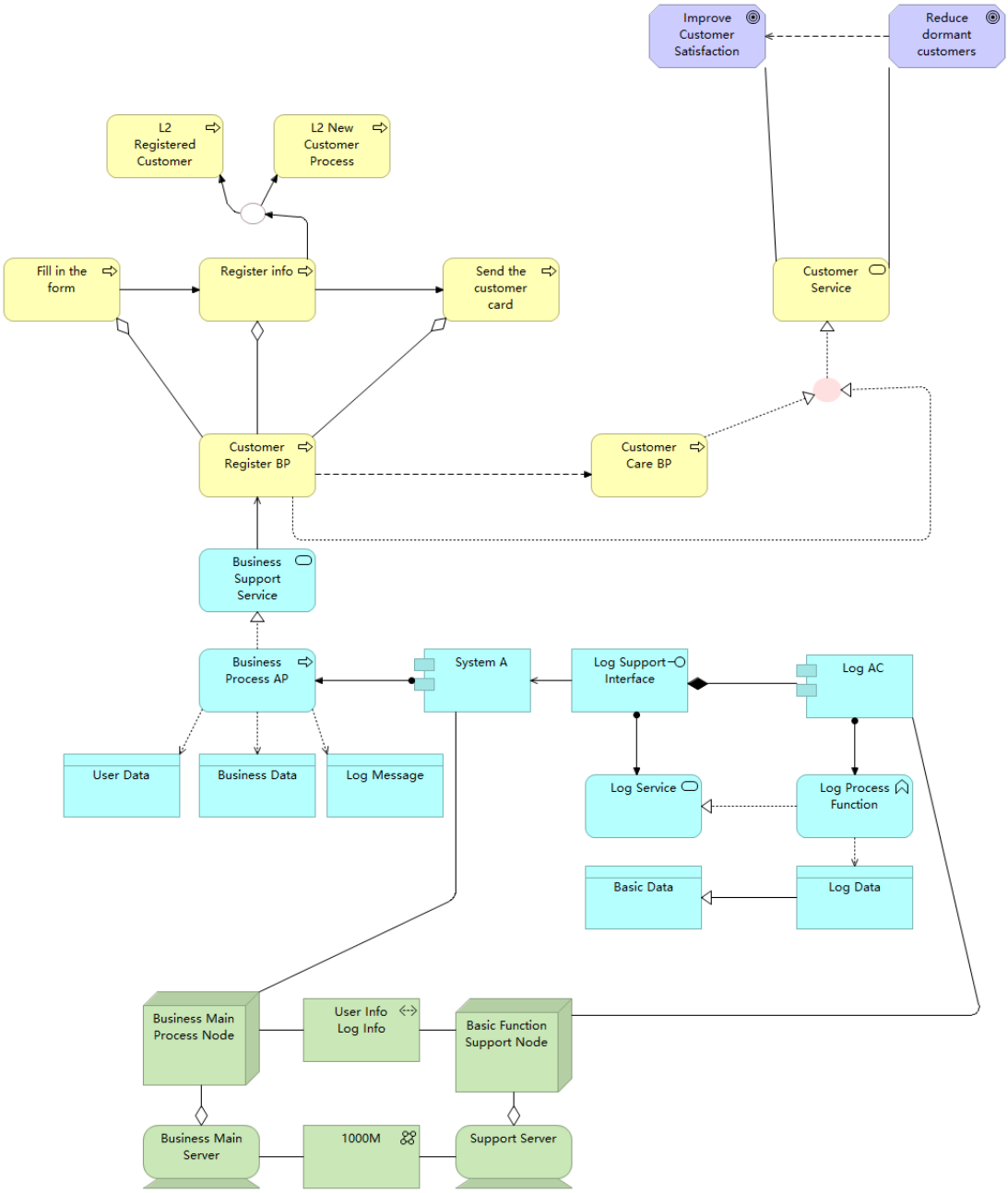

Archi
File Edit Tools Window Help
Models
show evidence
Strategy
Business
Application
Technology & Physical
Motivation
Implementation & Migration
Other
Relations
Views
Application Layer
Business Layer
Implementation and Migration Elements
Motivation Elements
AddNewOfReference
Notations
Optional Show
Relations
目标实现图
需求实现图
驱动力分析图
Physical Elements
Strategy Elements
Outline
Navigator
Hints
There is no active editor that provides an outline.


Archi
File Edit View Tools Window Help
Models
show evidence: Notations
Composite Elements
Location Notation
Motivation Elements
Stakeholder Notation
Driver Notation
Assessment Notation
Goal Notation
Principle Notation
Requirement Notation
Constraint Notation
Outcome Notation
Value Notation
Meaning Notation
Strategy Elements
Palette
Properties
Visualiser
Validator
Notations
Main
Properties
Appearance
Viewpoint:
None
Name:
Notations
Documentation:
Add documentation relating to this object here


Archi
File Edit View Tools Window Help
Models
show evidence
Strategy
Business
Application
Technology & Physical
Motivation
Implementation & Migration
Other
Relations
Views
Application Layer
Business Layer
Implementation and Migration Elements
Motivation Elements
AddNewOfReference
Notations
Optional Show
Relations
目标实现图
需求实现图
驱动力分析图
Physical Elements
Strategy Elements
show evidence: Notations
Composite Elements
Location Notation
Movtivation Elements
Stakeholder Notation
Driver Notation
Assessment Notation
Goal Notation
Principle Notation
Requirement Notation
Constraint Notation
Outcome Notation
Value Notation
Meaning Notation
Strategy Elements
Palette
Outline
Navigator
Hints
Properties
Visualiser
Validator
Notations
Main
Properties
Appearance
Viewpoint:
None
Name:
Notations
Documentation:
Add documentation relating to this object here


Composite Elements
Location Notation
Motivation Elements
Stakeholder Notation
Driver Notation
Assessment Notation
Goal Notation
Principle Notation
Requirement Notation
Constraint Notation
Outcome Notation
Value Notation
Meaning Notation
Strategy Elements
Resource Notation
Capability Notation
Course of Action Notation
Value Stream Notation
Business Layer
Business Actor Notation
Business Role Notaion
Business Collaboration Notation
Business Interface Notation
Business Actor Simple
Business Role Simple
Business Collaboration Simple
Business Inteface Simple
Business Function Notation
Business Process Notation
Business Event Notation
Business Interaction Notation
Business Function Simple
Business Process Simple
Business Event Simple
Business Interaction Simple
Business Service Notation
Product Notation
Contract Notation
Representation Notation
Business Service Simple
Business Object Notation
Application Layer
Application Component Notation
Application Collaboration Notation
Application Interface Notation
Application Service Notation
Application Component Simple
Application Collaboration Simple
Applicaiton Interface Simple
Applicaiton Service Simple
Applicaiton Function Notation
Application Interaction Notation
Application Process Notation
Application Event Notation
Application Function Simple
Application Interaction Simple
Application Process Simple
Application Event Simple
Data Object Notation
Technology Layer
Artifact Notation
Path Notation
Communicati on Network Notation
Technology Interface Notation
Artifact Simple
Technology Interface Simple
Technology Function Notation
Technology Service Notatin
Node Notation
System Software Notation
Technology Function Simple
Technology Servcie Simple
Node Simple
System Software Simple
Device Notation
Technology Collaboration Notation
Technology Interaction Notation
Technology Process Notation
Device Simple
Technology Collaboration Simple
Technology Interaction Simple
Technology Process Simple
Technology Event Notation
Technology Event Simple
Physical Elements
Equipment Notation
Facility Notation
Distribution Network Notation
Material Notation
Equipment Simple
Facility Simple
Distribution Network Simple
Material Simple
Implementation and Migration Elements
Gap Notation
Work Package Notation
Deliverable Notation
Plateau Notation
Implementati on Event Notation
Implementati on Event Simple

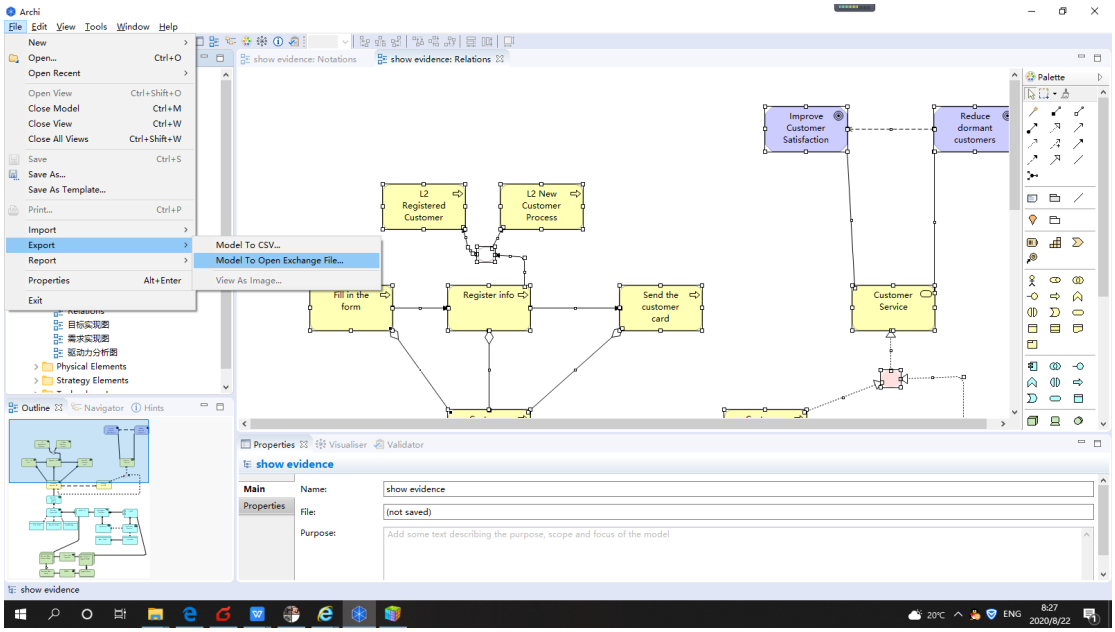

Archi
File Edit View Tools Window Help
Models
show evidence
Strategy
Business
Application
Technology & Physical
Motivation
Implementation & Migration
Other
Relations
Views
Application Layer
Business Layer
Implementation and Migration Elements
Motivation Elements
AddNewOfReference
Notations
Optional Show
Relations
目标实现图
需求实现图
驱动力分析图
Physical Elements
Strategy Elements
Outline
Navigator
Hints
show evidence: Notations
show evidence: Relations
Improve Customer Satisfaction
Reduce dormant customers
L2 Registered Customer
L2 New Customer Process
Fill in the form
Register info
Send the customer card
Customer Service
Palette
Properties
Visualiser
Validator
Relations
Main
Properties
Appearance
Viewpoint:
None
Name:
Relations
Documentation:
Add documentation relating to this object here
Business Process Notation



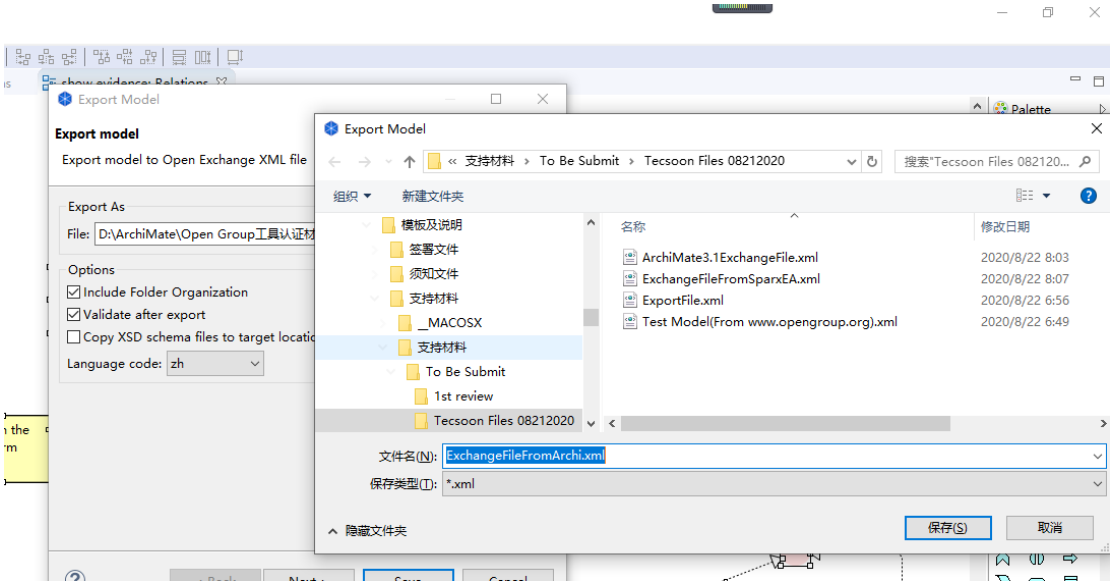
2.5.6. Import an Archi File

During this importing, we used an exchange file exported from the Archi tool.

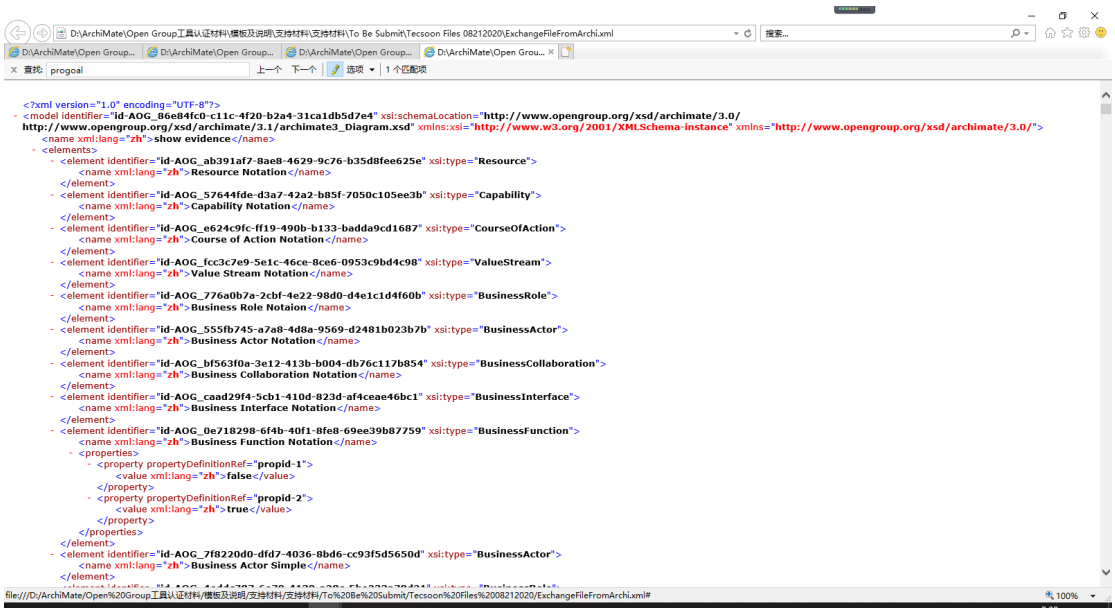
Selecting Export->Model To Open Exchange File



The export file is named as “ExchangeFileFromArchi.xml”.

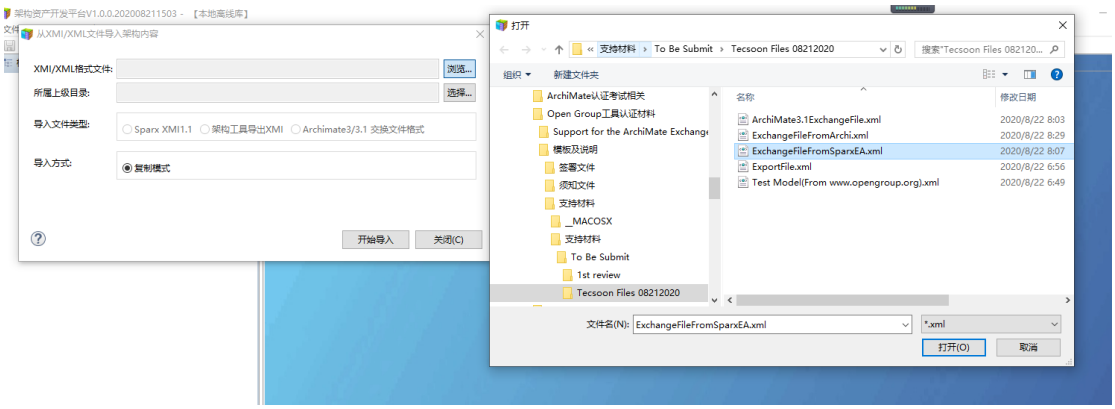


Created file is like this.

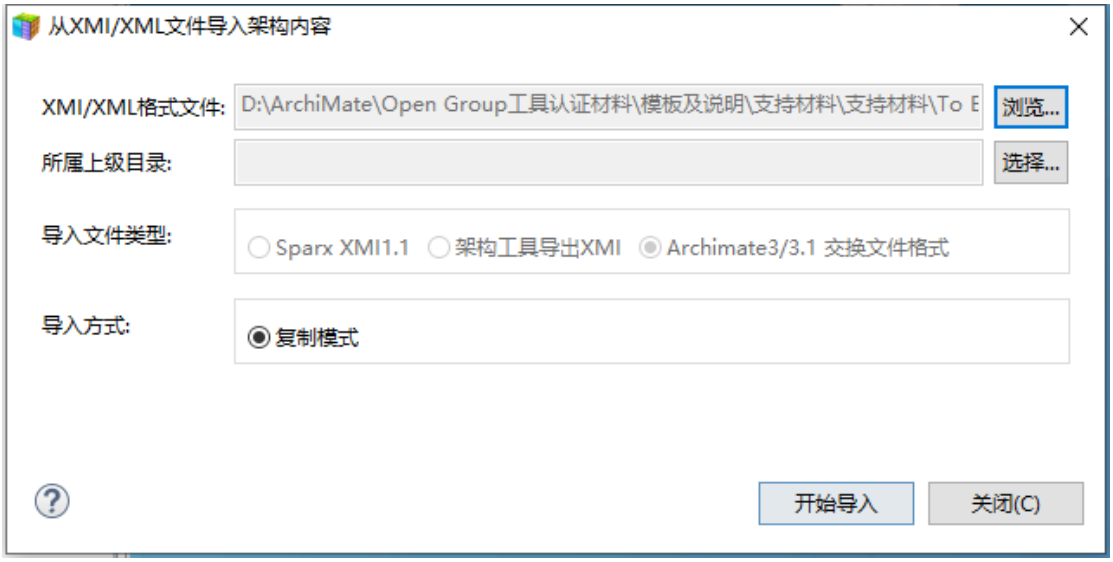


Then in Tecsoon Tool, delete all the models to clear the panel, then select import model file by “导入架构内容”.

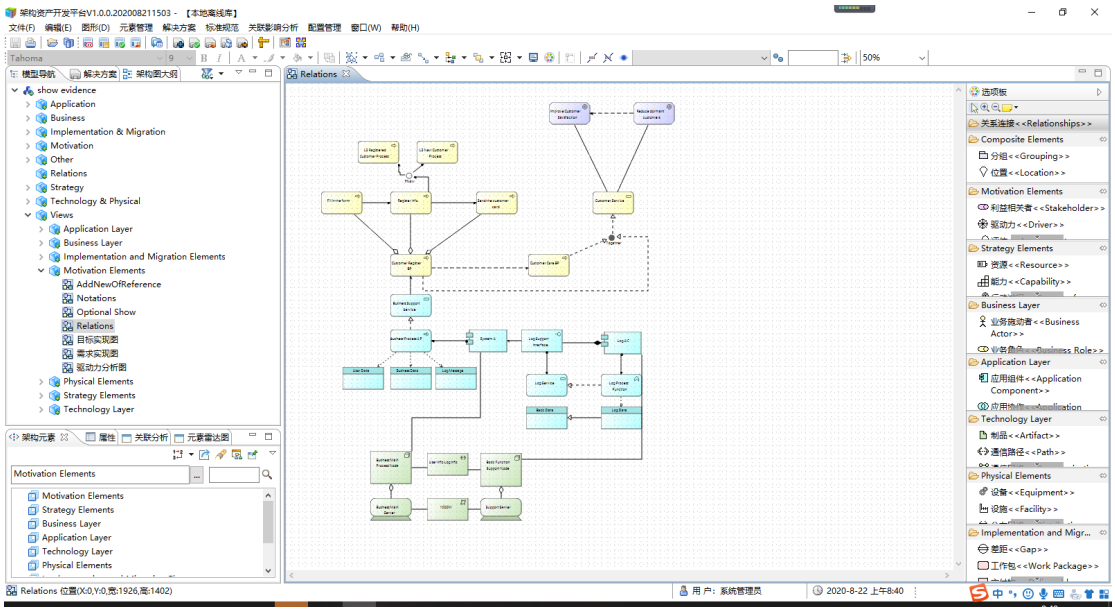
Selecting the “ExchangeFileFromArchi.xml”



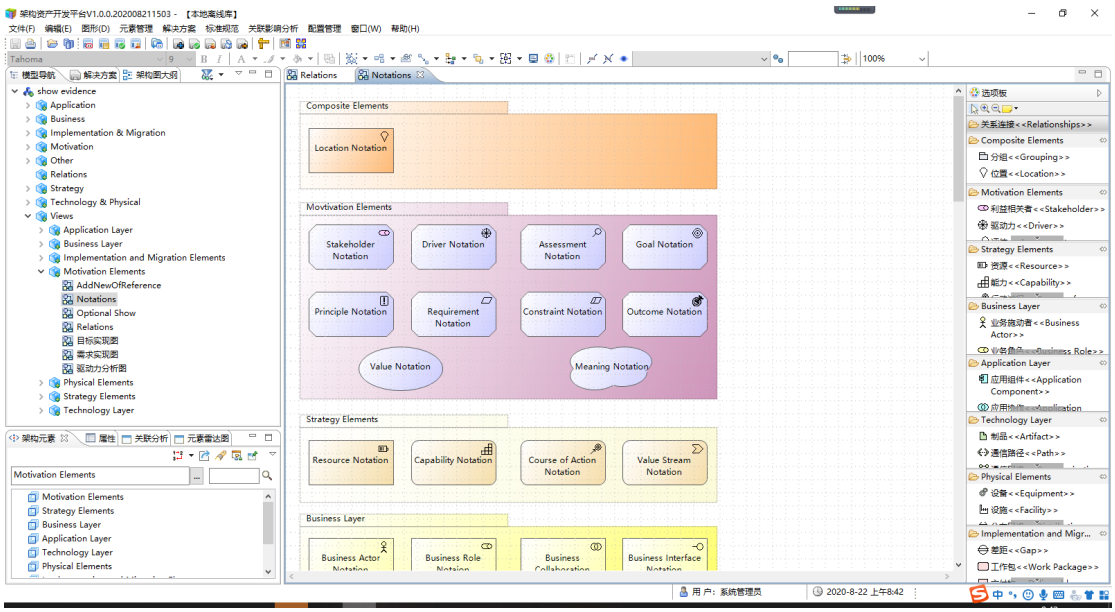
Do importing.



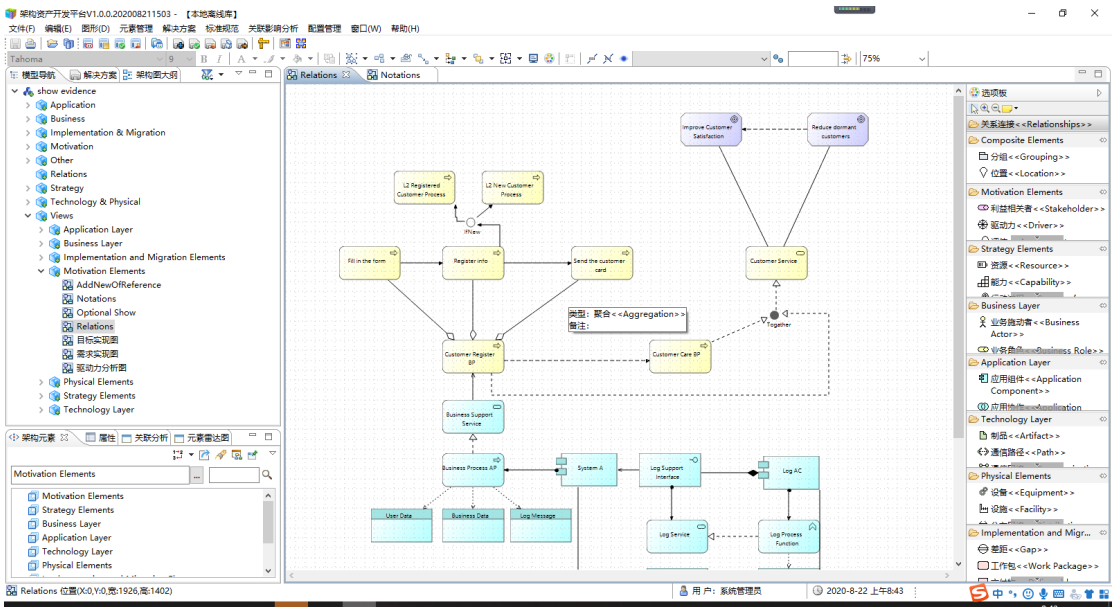
Elements and views from Archi were imported into Tecsoon Tool successfully.



The Notations view.



The Relations view.



Both of the two view are shown as what they like in Archi.

3. About Optional Requirements

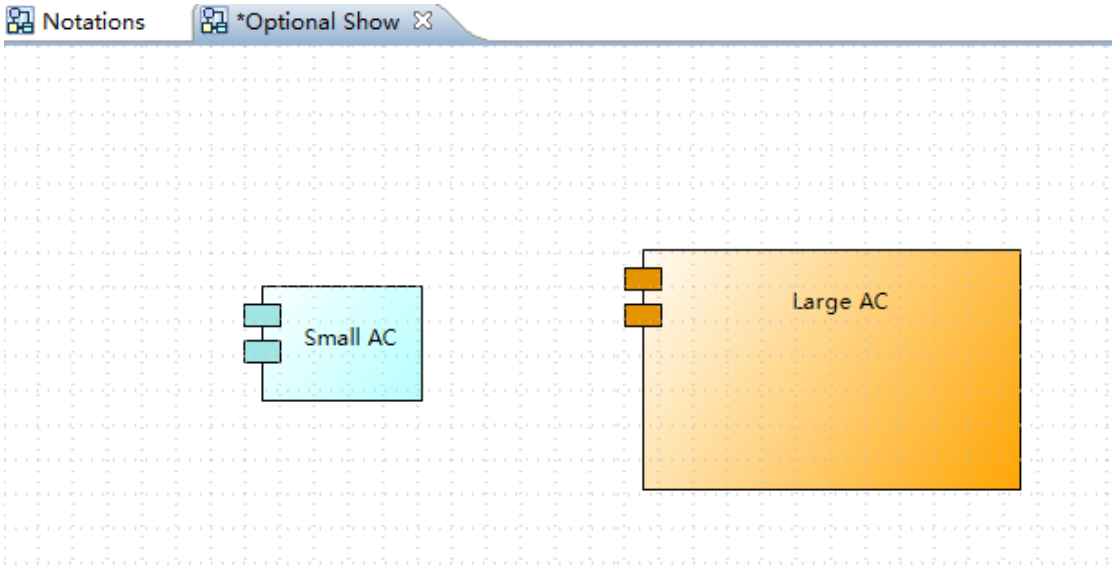
3.1. Language Customization Mechanisms

3.1.1. Language Element Customization

- OptReq1:

A conforming product may support customization of ArchiMate language element symbols with arbitrary scaling and coloration of all standard symbols without distortion. In other words, each conforming product shall ensure that the graphical notation used for ArchiMate concepts remains clearly recognizable to individuals familiar with the language even after changes to the size, proportion, or color of modeling symbols.

Support



- OptReq2:

If a tool supports language element customization, it should support customization of language elements as defined in Chapter 15 (Language Customization Mechanisms) of the ArchiMate 3.1 Specification, including the definition of specialized elements that inherit the characteristics of standard elements

Partly Support

User can not inherit an element by using a new notation, but can customize the attribute of an element. We can easily add a new kind of element by program.

- OptReq3:

Custom names, as defined in the Specialized Content column of the tables in Section 15.2.1 (Examples of Specializations of Business Layer Elements (Informative)) through Section 15.2.8 (Examples of Specializations of Composite Elements (Informative)) of the ArchiMate 3.1 Specification

Partly Support

In Tecsoon Tool, user can add custom properties to differ deeper meanings of concepts.

- OptReq4:

  Custom stereotypes, as defined in Section 15.2 (Specialization of Elements and Relationships) of the ArchiMate 3.1 Specification

  Not Support
- OptReq5:

  Custom attribute profiles

  Support
- OptReq6:

  Custom symbols

  Not Support
- OptReq7:

  Custom default coloration

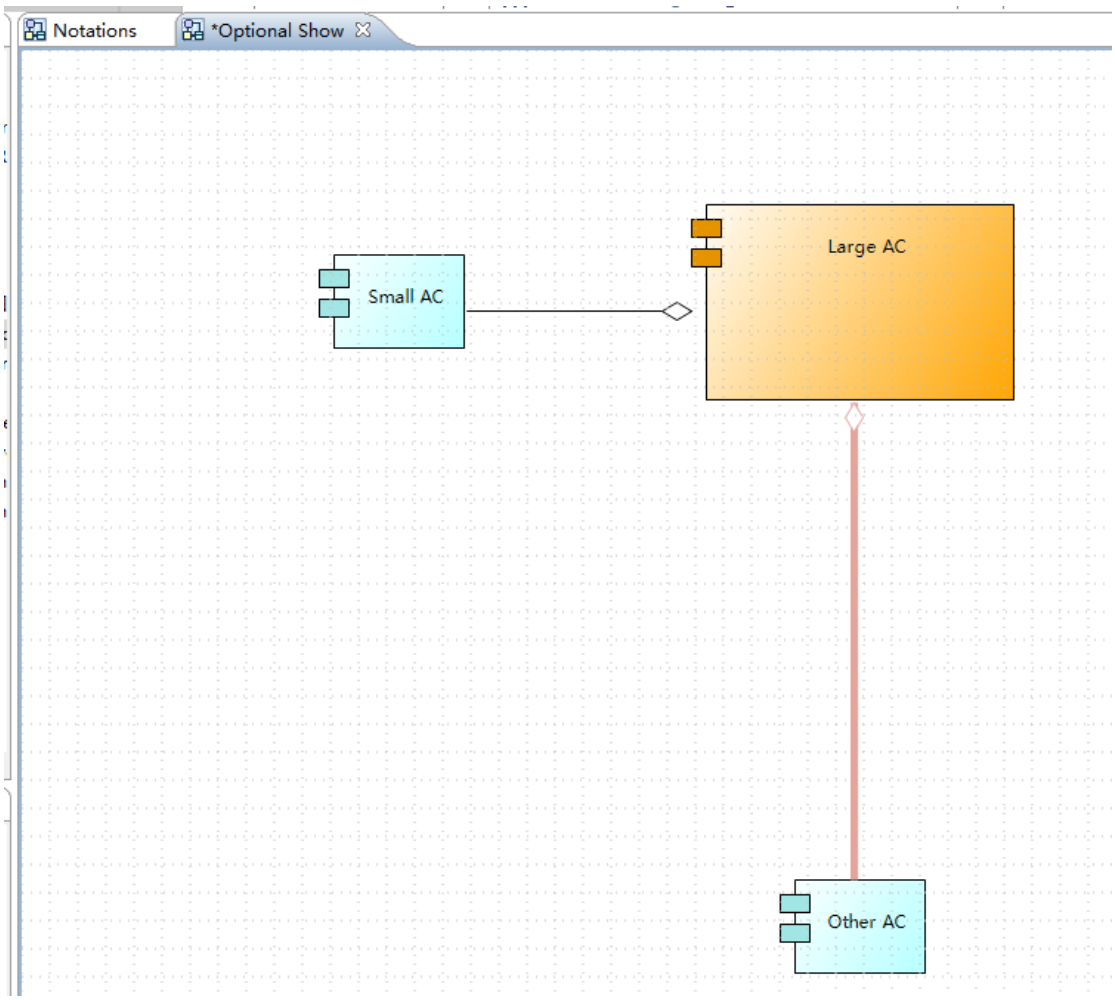
  Not Support

3.1.2. Relationship Customization

- OptReq 8:

  A conforming product may support arbitrary scaling and coloration of all ArchiMate language relationship symbols without distortion. In other words, each conforming product shall ensure that the graphical notation used for ArchiMate relationships remains clearly recognizable to individuals familiar with the language even after changes to the size, proportion, or color of modeling symbols.

  Support



- OptReq 9 :

If a tool supports relationship customization, it should support customization of relationship elements as defined in Chapter 15 (Language Customization Mechanisms) of the ArchiMate 3.1 Specification, including the definition of specialized relationships that inherit the characteristics of standard relationships

Partly support

- OptReq 9-1:

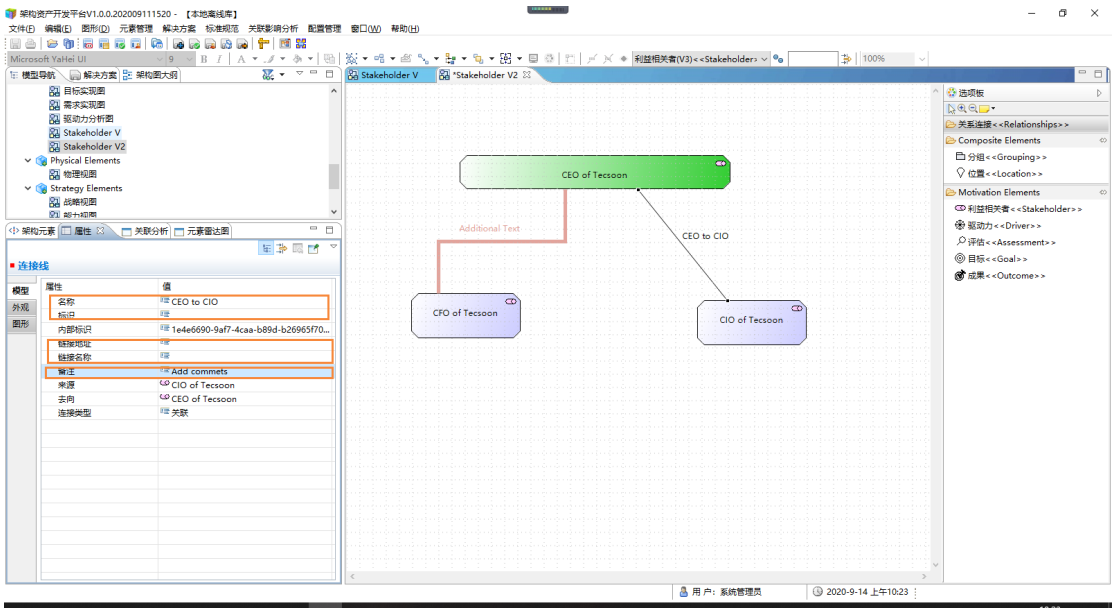
Custom names, as defined in the Specialized Content column of the table in Section 15.2.9 (Examples of Specializations of Relationships (Informative)) of the ArchiMate 3.1 Specification

Not Support

- OptReq 9-2:

Custom attribute profiles

There is a property view of line, where user can set name,identification,link,comment of the selected line on a diagram.

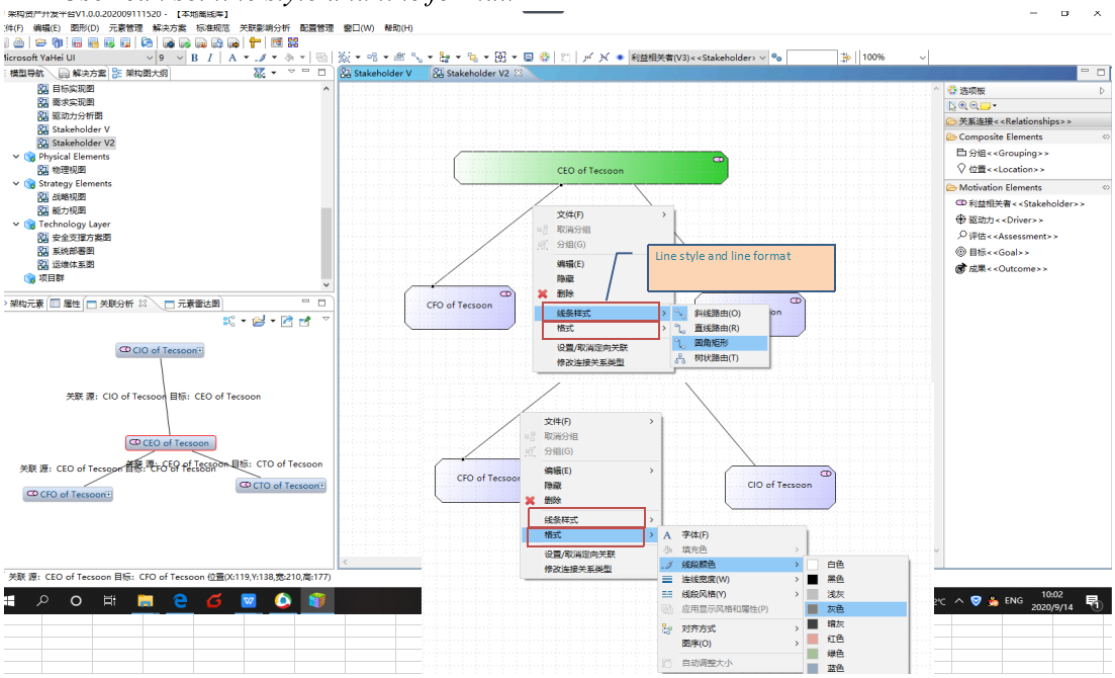


Partly Support

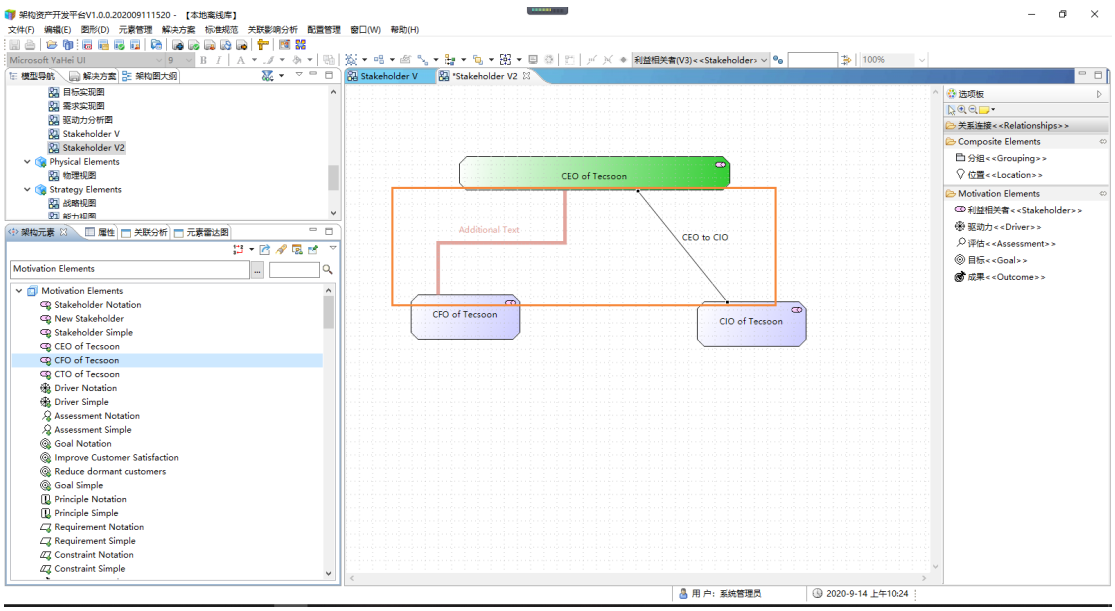
- OptReq 9-3:

Custom symbols

User can set line style and line format.



The screenshot below shows that different line style and format. The association relationship between “CEO” and “CFO” has different style(polyline) and format(color, size) from the association relationship between “CEO” and “CIO”.



Partly Support

- OptReq 9-4:

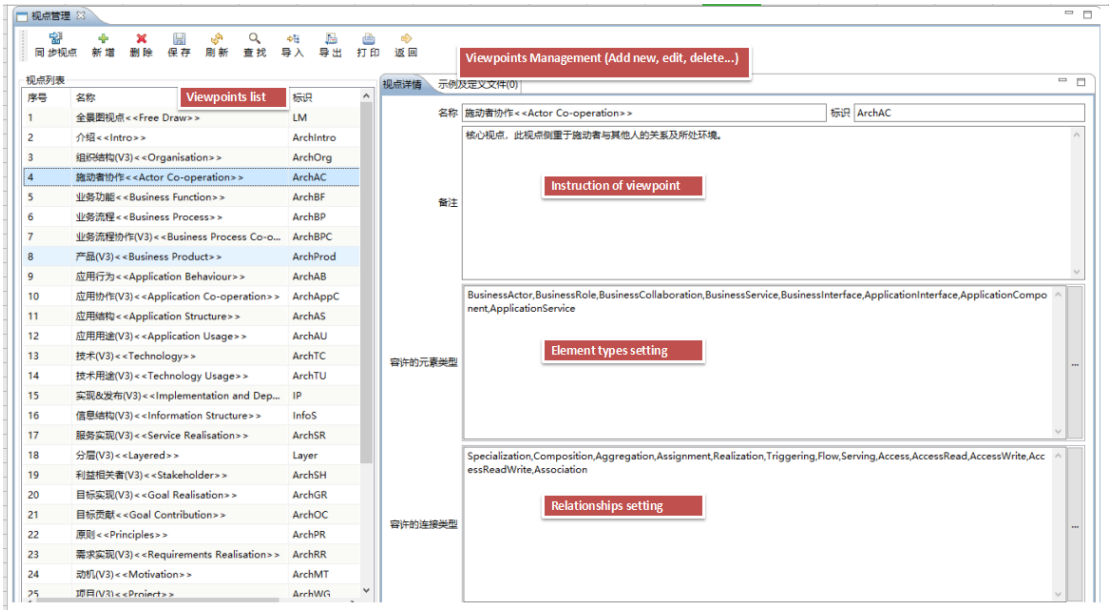
Custom default coloration

Not Support

3.1.3. Viewpoint Support

If a tool supports language element and relationship customization, it may enable users to define and name custom viewpoints consisting of any combination of standard elements and relationships along with any combination of custom elements and relationships developed using the mechanisms described in Sections 2.2.1.1 and 2.2.1.2 of this document.

Support



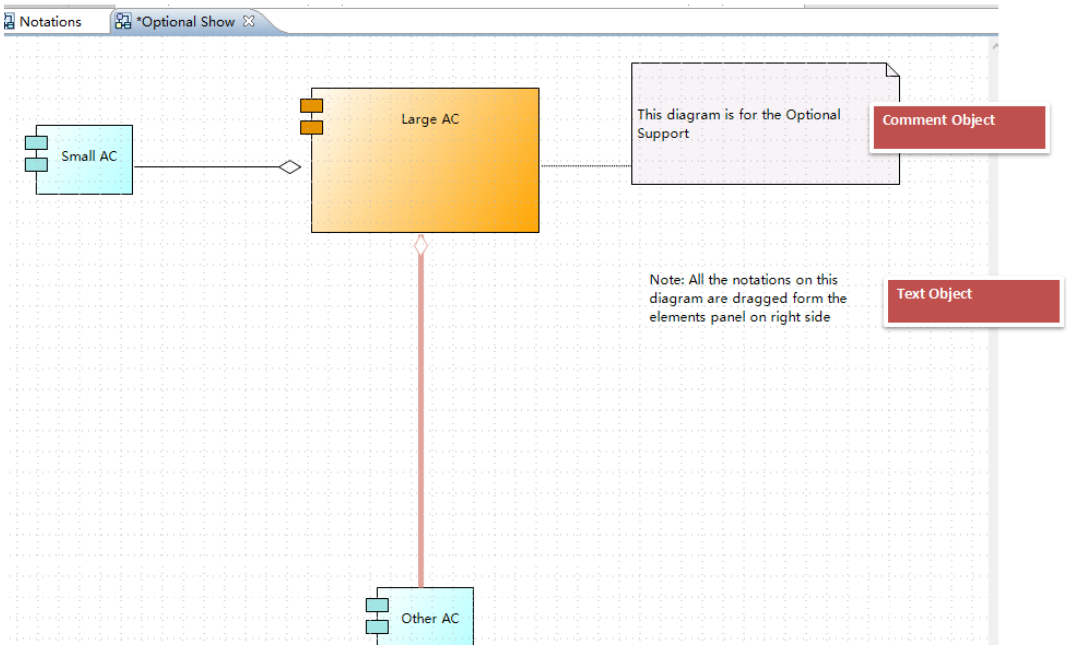
3.1.4. Concept Coverage

A conforming product may provide predefined specializations of the ArchiMate concepts according to Chapter 15 (Language Customization Mechanisms) of the ArchiMate 3.1 Specification.

Not Support

A conforming product may support concepts that are neither defined within the ArchiMate language nor are specializations of the ArchiMate concepts, as long as they do not obstruct use of the ArchiMate language.

Partly Support



There is a Comment object and a Text object. The Comment object is a container of text, and it is used to describe the detailed content of element(s). It can be connected with elements by line(s). Text object is also a text container, but it can be connected with any element.

3.1.5. Relationship Coverage

A conforming product may provide predefined specializations of ArchiMate relationships according to Section 15.2 (Specialization of Elements and Relationships) of the ArchiMate 3.1 Specification.

Not Support

A conforming product may optionally support relationships that are not defined within the ArchiMate language, as long as the product does not require the use of such relationships to develop an ArchiMate model.

Not Support

3.1.6. Language Notation

A conforming product may support alternative notations for ArchiMate concepts and relationships other than those described by the ArchiMate 3.1 Specification.

Not Support

3.1.7. Other Capabilities

If a conforming product supports modeling frameworks and languages other than the ArchiMate language, it may optionally provide the same capabilities for the ArchiMate language as it does for the other supported modeling frameworks and languages.

Not Support