

# ArchiMate Based Enterprise Architecture Asset Development Tool

**Conformance Evidence** 

June, 2020



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### 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.

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#### 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.

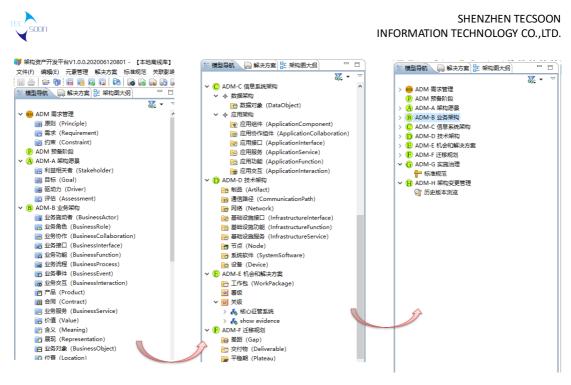
### • 6 Diagram window

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.



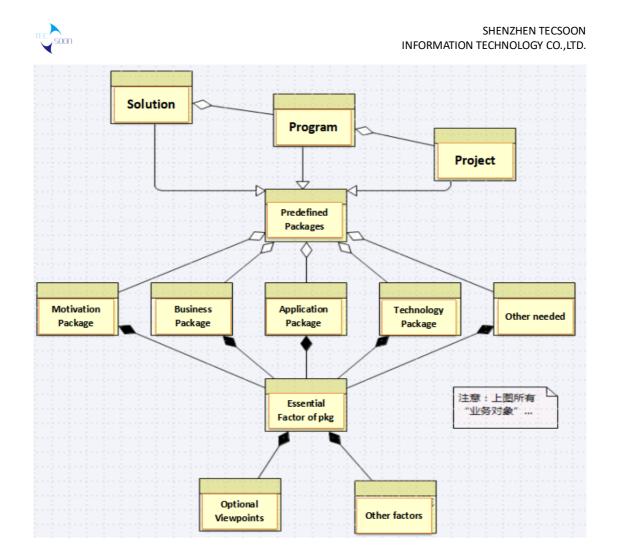
#### ADM view

#### Elements reference

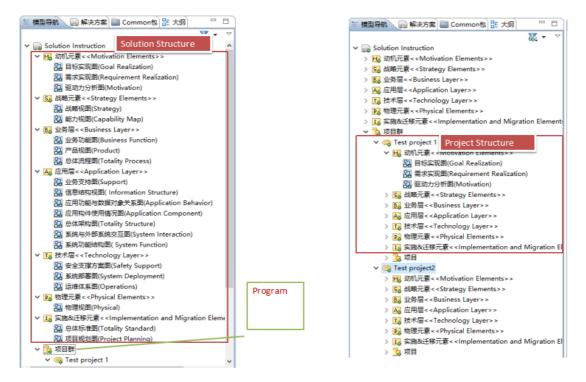
When user developing a new EA diagram, he(she) can reuse an existing elements by reference which means no new element is created, just reusing an element.

• 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.



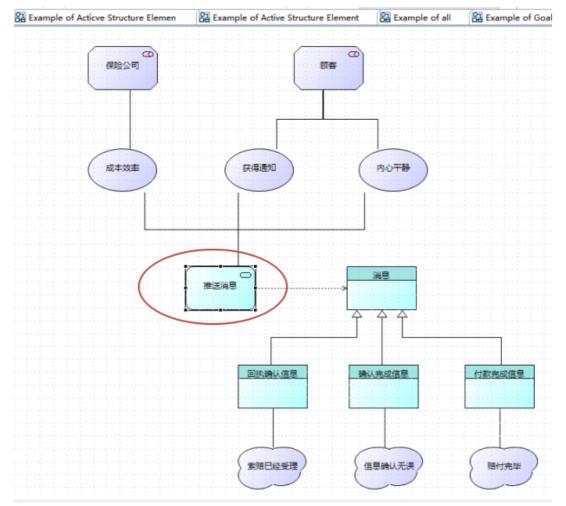
When user create a new solution, predefined structures will be created.





#### 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.

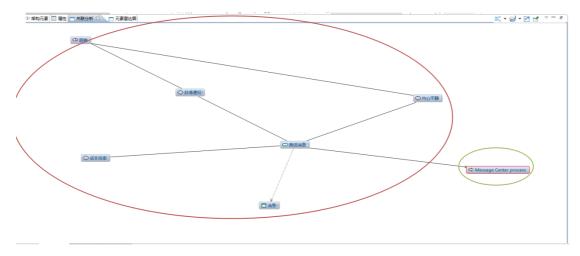


On the first diagram we build relations between application service "推送消息" and other elements.



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G → Message Center process		
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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.



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

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### • All view points supporting

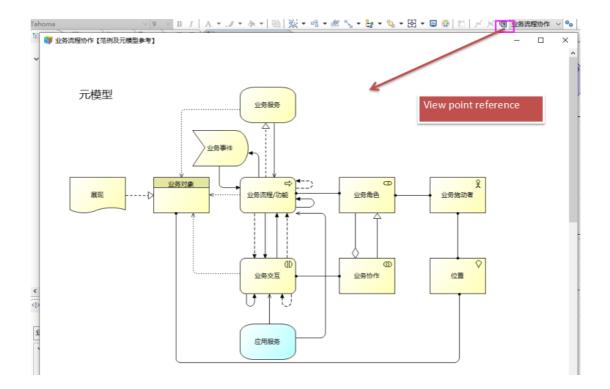
When user create an EA diagram, all view points are available and also the references of those view points.



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## 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





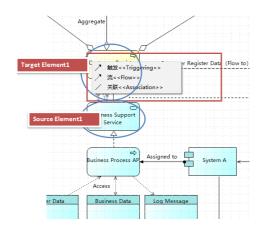
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	➢关系连接< <relationships>&gt;</relationships>	
	Composite Elements	$\Leftrightarrow$
	□分组< <grouping>&gt;</grouping>	
	✓ 位置< <location>&gt;</location>	
	Composition Elements	
	➢ Strategy Elements	
	🗁 Business Layer	
	> Application Layer	
	🗁 Technology Layer	
~	> Physical Elements	
	C> Implementation and Migration Elements	

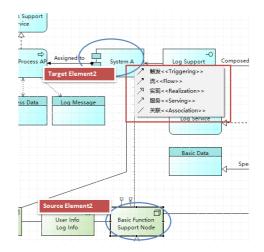
• About Cross-Layer Dependencies

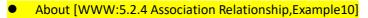
As the flowing, when user set the relationship form a source element to a target element, Tecsoon Tool will show the optional relationships automatically as those defined.

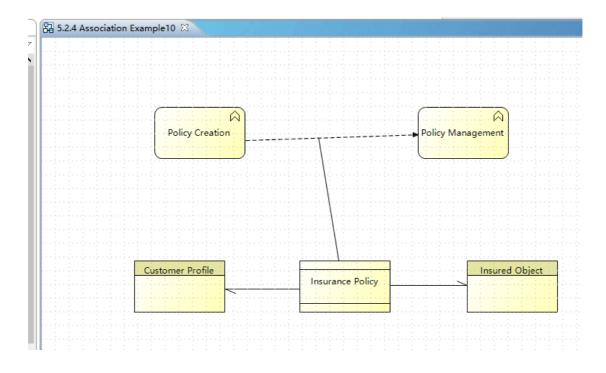


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# 2.1.2. All the elements

	😳 选项板	⊳
	➢ 关系连接< <relationships>&gt;</relationships>	
	Composite Elements	
	Composition Elements	⇔
	☑ 利益相关者< <stakeholder>&gt;</stakeholder>	
	卷 驱动力< <driver>&gt;</driver>	
	♀评估< <assessment>&gt;</assessment>	
	◎ 目标< <goal>&gt;</goal>	
	! 原则< <principle>&gt;</principle>	
	□ 需求< <requirement>&gt;</requirement>	
	① 约束< <constraint>&gt;</constraint>	
	❻ 成果< <outcome>&gt;</outcome>	
	 ○价值< <value>&gt;</value>	
	♀ 含义< <meaning>&gt;</meaning>	
	Strategy Elements	_
	🗁 Business Layer	
	C Application Layer	
	🗁 Technology Layer	
~	E Physical Elements	
	Complementation and Migration Elements	



😳 选项板	⊳
$\mathbb{R} \oplus \odot \longrightarrow \bullet$	
▷关系连接< <relationships>&gt;</relationships>	
🗁 Composite Elements	
➢ Motivation Elements	
🗁 Strategy Elements	~
资源< <resource>&gt;</resource>	
<i>▶</i> <sup>®</sup> 行动过程< <course action="" of="">&gt;</course>	
🗁 Business Layer	
Application Layer	
Application Layer	



^	😴 选项板	⊳
	冷 关系连接< <relationships>&gt;</relationships>	
	Composite Elements	
	Common Motivation Elements	
	E Strategy Elements	
	🗁 Business Layer	⇔
	♀ 业务施动者< <business actor="">&gt;</business>	
	◎ 业务协作< <business collaboration=""> &gt;</business>	
	-◇ 业务接口< <business interface="">&gt;</business>	
	☆ 业务功能< <business function="">&gt;</business>	
	➡ 业务流程< <business process="">&gt;</business>	
	∑ 业务事件< <business event="">&gt;</business>	
	ⓓ 业务交互< <business interaction="">&gt;</business>	
	产品< <product>&gt;</product>	
	□ 合同< <contract>&gt;</contract>	
	── 业务服务< <business service="">&gt;</business>	
	展现< <representation>&gt;</representation>	
	□ 业务对象< <businessobject>&gt;</businessobject>	
		_
	> Application Layer	
	C Technology Layer	
V	Physical Elements	
	Implementation and Migration Elements	



^	😳 选项板	⊳
	➢关系连接< <relationships>&gt;</relationships>	
	Composite Elements	
	Composition Elements	
	Strategy Elements	
	🗁 Business Layer	
	🗁 Application Layer	⇔
	包 应用组件< <application component="">&gt;</application>	
	⑩应用协作< <application collaboration="">&gt;</application>	
	-○ 应用接囗< <application interface="">&gt;</application>	
	○ 应用服务< <application service="">&gt;</application>	
	☆ 应用功能< <application function="">&gt;</application>	
	① 应用交互 < < Application Interaction > >	
	□ 数据对象< <data object="">&gt;</data>	
	➡ 应用流程< <application process="">&gt;</application>	
	∑应用事件< <application event="">&gt;</application>	
		_
	C Technology Layer	
Ŷ	> Physical Elements	
	Implementation and Migration Elements	



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	`
^	😳 选项板
	➢ 关系连接< <relationships>&gt;</relationships>
	Composite Elements
	Composition Elements
	Strategy Elements
	🗁 Business Layer
	C Application Layer
	> Technology Layer
	□ 制品< <artifact>&gt;</artifact>
	◆》通信路径< <path>&gt;</path>
	23 通信网络< <communication network="">&gt;</communication>
	── 技术接口< <technology interface="">&gt;</technology>
	□ 技术服务< <technology service="">&gt;</technology>
	□节点< <node>&gt;</node>
	◎ 系统软件< <system software="">&gt;</system>
	□ 设备< <device>&gt;</device>
	⑩ 技术协作< <technology collaboration="">&gt;</technology>
	① 技术交互 << Technology Interaction > >
	➡ 技术流程< <technology process="">&gt;</technology>
	⑦ 技术事件< <technology event="">&gt;</technology>
	C Dhurical Elements
Y	Physical Elements Implementation and Migration Elements
	Complementation and Migration Elements



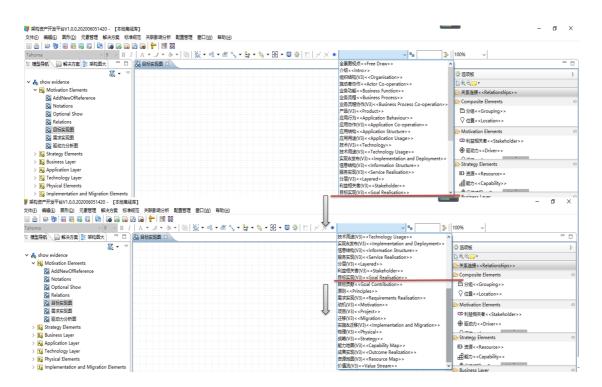
~	😳 选项板	⊳
		-
	➢ 关系连接< <relationships>&gt;</relationships>	
	Composite Elements	
	Common Motivation Elements	
	Strategy Elements	
	🗁 Business Layer	
	Application Layer	
	> Technology Layer	
	> Physical Elements	$\Leftrightarrow$
	I G备< <equipment>&gt;</equipment>	
	님 设施< <facility>&gt;</facility>	
	⇔分布网络< <distribution network="">&gt;</distribution>	
	物料 < < Material > >	
~		
	> Implementation and Migration Elements	



^	😳 选项板	⊳
	$\mathbb{R} \oplus \odot \longrightarrow \bullet$	
	➢ 关系连接< <relationships>&gt;</relationships>	
	Composite Elements	
	C> Motivation Elements	
	C> Strategy Elements	
	🗁 Business Layer	
	> Application Layer	
	🗁 Technology Layer	
	➢ Physical Elements	
	Implementation and Migration Elements	⇔
	会差距< <gap>&gt;</gap>	
	□ 工作包< <work package="">&gt;</work>	
	🛥 平稳期< <plateau>&gt;</plateau>	
	∑ 实施事件< <implementation event="">&gt;</implementation>	
~		
	J	

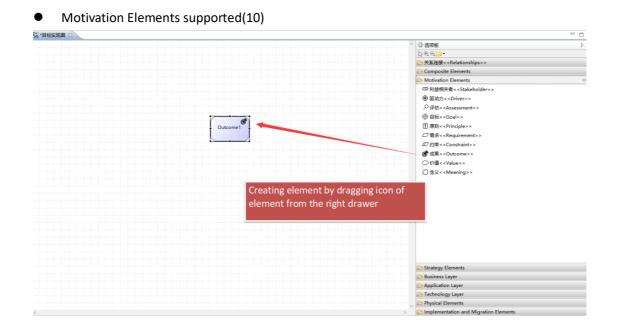


### **2.1.3.** All the view points



## 2.2. Language Element Support

### 2.2.1. Language Element Coverage





🗁 Motivation Elements	⇔
◯ 利益相关者< <stakeholder>&gt;</stakeholder>	
✤ 驱动力 < < Driver > >	
♀评估< <assessment>&gt;</assessment>	
◎ 目标< <goal>&gt;</goal>	
! 原则< <principle>&gt;</principle>	
□ 需求< <requirement>&gt;</requirement>	
成果< <outcome>&gt;</outcome>	
◯ 价值< <value>&gt;</value>	
〇 含义< <meaning>&gt;</meaning>	

• Strategy Elements supported(4)

• Business layer elements supported(13)

 $\Leftrightarrow$ 

∞



#### 🗁 Business Layer

- ♀ 业务施动者<<Business Actor>>
- 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 elements supported(9)

#### Application Layer

- 包 应用组件<<Application Component>>
- ⑩ 应用协作< < Application Collaboration >>
- -〇 应用接口 < < Application Interface > >
- 应用服务<<Application Service>>
- (D)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 elements supported(13)



∞

∞

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🗁 Technology Layer

□ 制品<<Artifact>>

29 通信网络<<Communication Network>>

-①技术接口<<Technology Interface>>

□ 技术服务<<Technology Service>>

- ⑦节点<<Node>>
- ◎ 系统软件<<System Software>>
- 📃 设备<<Device>>

⑩技术协作<<Technology Collaboration>>

① 技术交互 < < Technology Interaction > >

➡ 技术流程<<Technology Process>>

- ∑ 技术事件<<Technology Event>>
- Physical elements supported(4)

➢ Physical Elements
 ☞ 设备<<Equipment>>
 M 设施<<Facility>>
 ⇔ 分布网络<<Distribution Network>>
 ۞ 物料<<Material>>

Implementation and Migration elements supported(5)

Implementation and Migration Elements

- 工作包<<Work Package>>
- 🗔 交付物<<Deliverable>>
- 🛲 平稳期<<Plateau>>
- ∑实施事件<<Implementation Event>>
- Composite Elements supported(2)

읃 Composite Ele	ements	∞
□ 分组< <groo< th=""><th>uping&gt;&gt;</th><th></th></groo<>	uping>>	
	ation>>	

**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", "Application Layer", "Technology Layer", "Physical Elements", "Implementation and Migration Elements" and the elements are grouped as the way as those images above.

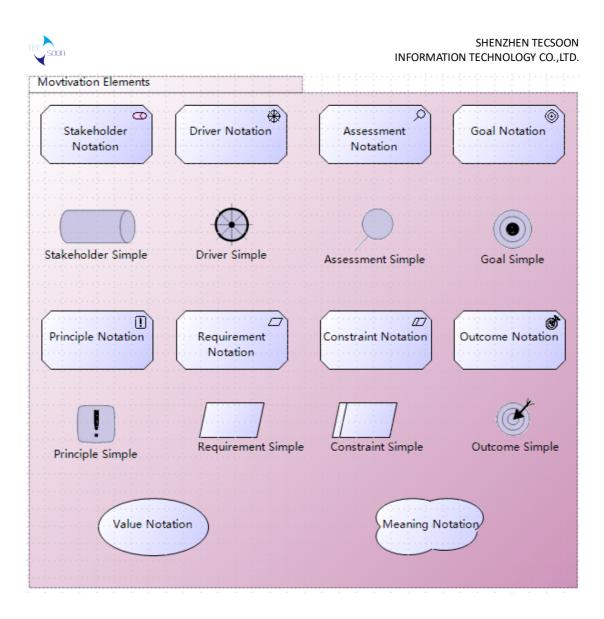
### 2.2.2. Language Element Notation

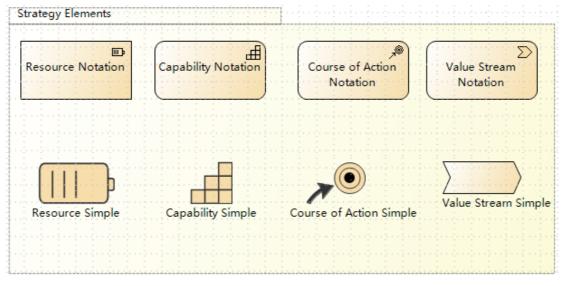
### Element Notations

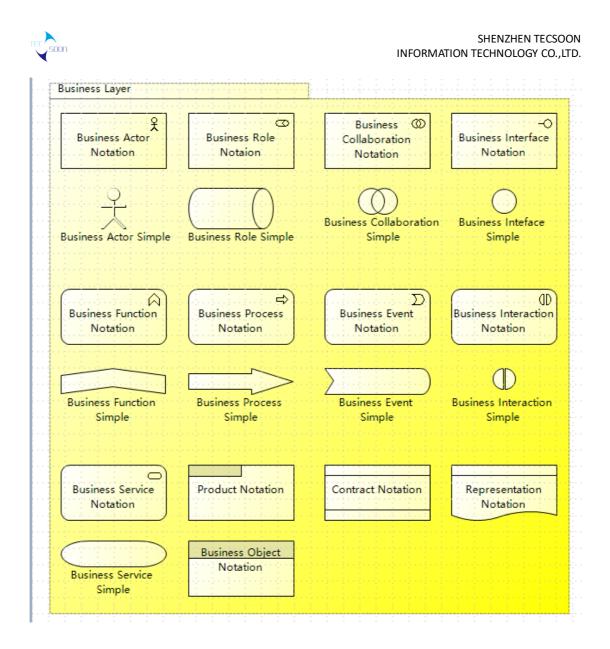
A conforming product shall implement the vocabulary, notation, syntax, and semantics of the visual modeling language for all ArchiMate language elements using the symbols defined in Section A.1 (Core Elements) and Section A.2 (Motivation, Strategy, Implementation and Migration Elements) of the ArchiMate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

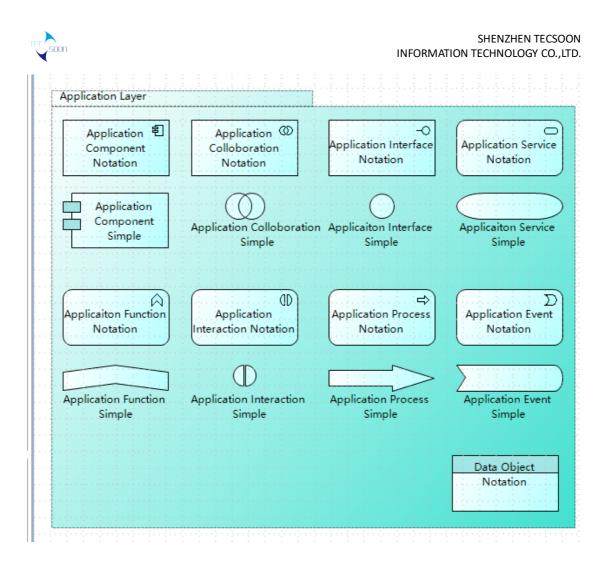
Support

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1																																						÷
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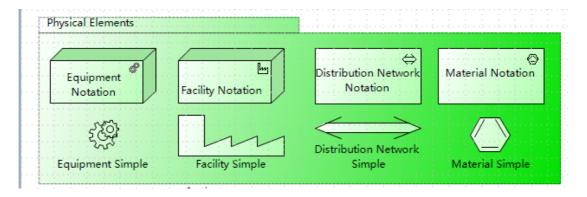




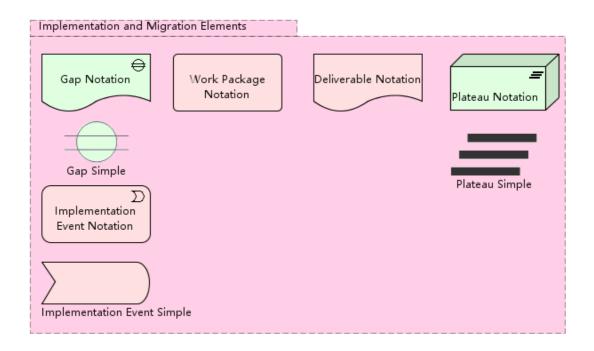




Technology Layer			
Artifact Notation	€-≫ Path Notation	Communication Network Notation	–⊖ Technology Interface Notation
Artifact Simple	Path Simple	Communication Network Simple	
Cechnology Function Notation	Technology Service Notatin	Node Notation	System Software Notation
Technology Function Simple	Technology Servcie Simple	Node Simple	System Software Simple
Device Notation	Technology <sup>(1)</sup> Collaboration Notation	(D) Technology Interaction Notation	⊂ Technology Process Notation
Device Simple	Technology Collaboratic Simple	on Technology Interaction Simple	Technology Process Simple
D Technology Event Notation			
Technology Event Simp	le		





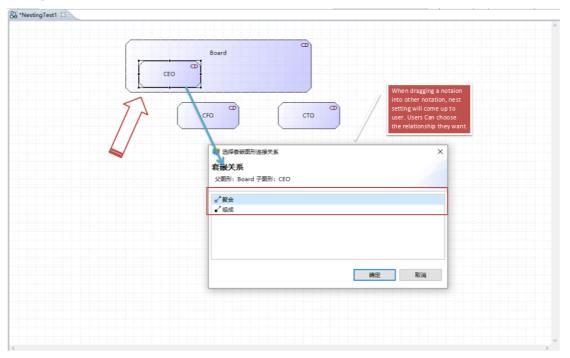


Nesting

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.

<mark>Support</mark>

Setting nest.

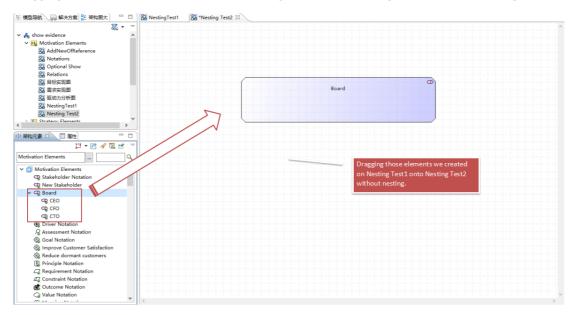




#### Save the current diagram.

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NestingTest1 🛛					
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	and a standard and a				
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	CEO	CFO			
	CEU	CIU			
		and the second	the second second second second		
		denes and an end of the state o			

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



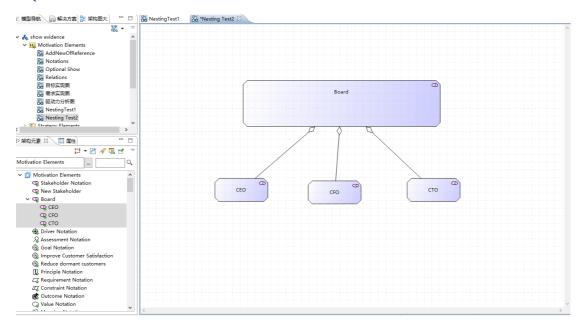
When dragging the elements in a nest, a exsiting relationships dialog will prompt for user to choose weather to show those relationships which had been created on other diagram.



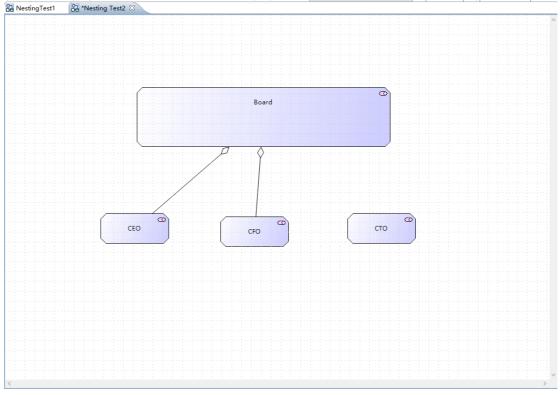
Those relationships are shown.



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

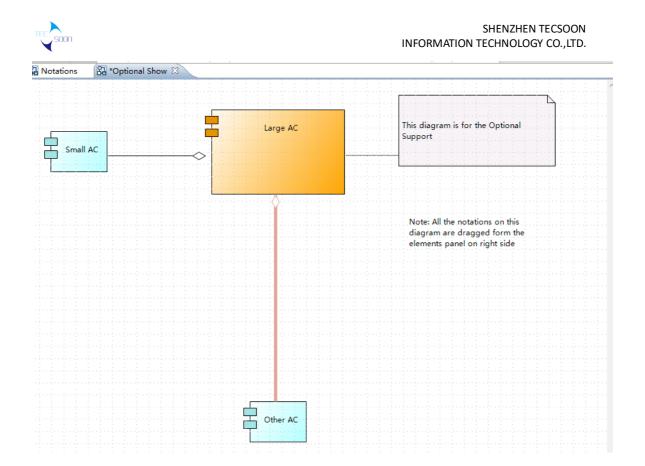


Change size, color...

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.



😳 选项板	⊳
$\searrow \oplus \bigcirc \bigcirc \checkmark$	
➢ 关系连接< <relationships>&gt;</relationships>	⇔
▶ 智能连接	
/ 关联< <association>&gt;</association>	
/ 访问< <access>&gt;</access>	
┘"访问(读)< <access(read)>&gt;</access(read)>	
。 访问(写)< <access(write)>&gt;</access(write)>	
e <sup>,¬</sup> 访问(读写)< <access(read&write)>&gt;</access(read&write)>	
↗服务< <serving>&gt;</serving>	
_ <sup>入</sup> 实现< <realisation>&gt;</realisation>	
✓ 指派< <assignment>&gt;</assignment>	
⊿ <sup>2</sup> 聚合< <aggregation>&gt;</aggregation>	
┏ <li>┛</li> <li></li> <li><!--</td--><td></td></li>	
_ <sup>™</sup> 流< <flow>&gt;</flow>	
╱ 触发< <triggering>&gt;</triggering>	
➢ 特殊化< <specialisation> &gt;</specialisation>	
,/↓影响< <influence>&gt;</influence>	
■ 连接点< <junction>&gt;</junction>	
。 ┣ण 或连接点< <or junction="">&gt;</or>	
➢ Composite Elements	
Motivation Elements	
➢ Strategy Elements	
🗁 Business Layer	
➢ Application Layer	
🗁 Technology Layer	
➢ Physical Elements	
Implementation and Migration Elements	

### • 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.

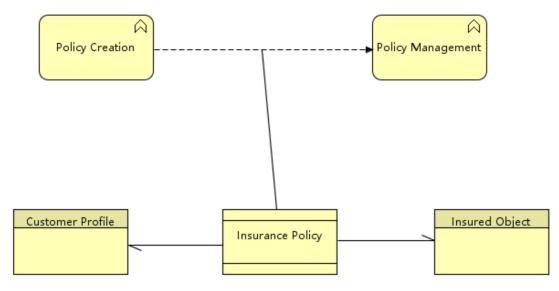


E.g. Permitted relationships between Assessment and other elements are defined.

( D:\relationships-3.0.xml
Ø D:\relationships-3.0.xml × 1
- 2 yrst version - 11 01 en en din a - 11 UTE 012
xml version="1.0" encoding="UTF-8"?
ArchiMate 3.0 relationship rules
- <relationships version="3.0"></relationships>
- <elements></elements>
<pre>- <source element="Assessment"/></pre>
<target element="Assessment" relations="cgnos"></target>
<target element="Constraint" relations="no"></target>
<target element="Driver" relations="no"></target>
<target element="Goal" relations="no"></target>
<target element="Meaning" relations="no"></target> <target element="Outcome" relations="no"></target>
<target element="Principle" relations="no"></target> <target element="Requirement" relations="no"></target>
<target element="Stakeholder" relations="o"></target> <target element="Value" relations="no"></target>
<target element="Value" relations="no"></target> <target element="Capability" relations="o"></target>
<target element="Resource" relations="0"></target>
<target element="CourseOfAction" relations="o"></target>
-
<target element="BusinessActor" relations="o"></target> <target element="BusinessCollaboration" relations="o"></target>
<target element="Businessconappration" relations="0"></target> <target element="Contract" relations="0"></target>
<target element="Contract" relations="0"></target>
<target element="BusinessFunction" relations="0"></target>
<target element="BusinessFunction" relations="0"></target>
<target element="BusinessInterface" relations="0"></target>
<target element="BusinessObject" relations="0"></target>
<target 0"="" element="BusinessObject Telations="></target>
<target element="Product" relations="0"></target>
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<target element="BusinessRole" relations="0"></target>
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<target element="DataObject" relations="o"></target>
<target element="ApplicationEvent" relations="o"></target>
<target element="ApplicationFunction" relations="o"></target>
<target element="ApplicationInteraction" relations="o"></target>
<target element="ApplicationInterface" relations="o"></target>
<target element="ApplicationProcess" relations="0"></target>
<target element="ApplicationFrocess" relations="0"></target>
<target element="Artifact" relations="0"></target>
<target element="TechnologyCollaboration" relations="o"></target>
<target element="CommunicationNetwork" relations="o"></target>
<target element="Device" relations="o"></target>
<target 0"="" element="Device relations="></target>

• Semi Arrow Assosication relationship and r2r





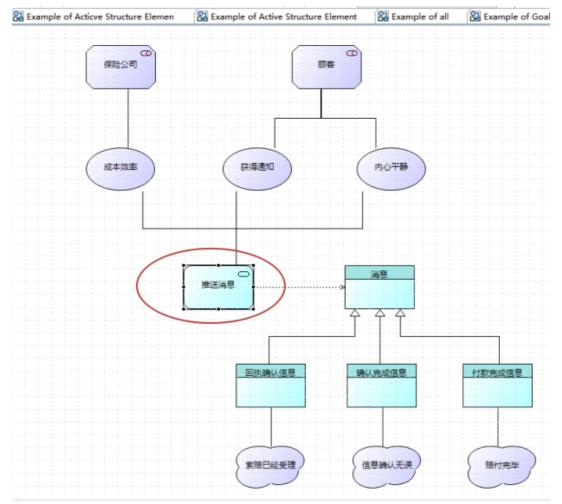
After we drag an association relationship form one element to another, we can set/cancel the semi arrow by the menu(right click on the line) shown below.



• 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.



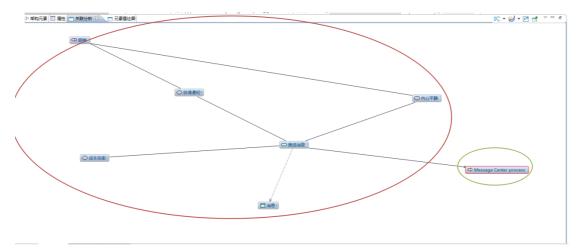


On the first diagram we build relations between application service "推送消息" and other elements.



	🔀 Example of Stakeholder, Driver, and Assessment	🖁 test 🖾 🖁 Example of all	83 E)
🔜 Solution Instruction			
a ArchiMate 3.0			
> ( Relationship			
✓ ( Motivation Element			
Kample of Goal,outcome,principle,requirement,const			
R Example of Goal, outcome, principle, requirement, const		<u> </u>	
Example of Nearing, Value     Example of Stakeholder, Driver, and Assessment	Messa	ge Center process	
Ba test		ge center process	
Ga test ✓ (ga Strategy Element			
Ra Example of all		1	
✓ (g) Business Element			
Business Element     Ba Example of Active Structure Element			
		· · · · · · · · · · · · · · · · · · ·	
Example of Behavior Element			
Example of Passive Structure Element		推送消息	
Example of Product     Gamma Application Element		والمتحديد والمتحد والمتحد والمتحد والمتحد	
	······································		
Example of Acticve Structure Element			
>			
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s:: • 😂 • 🖻 🛃 🔻			
○ 推送消息 =			
All Message Center process			

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.



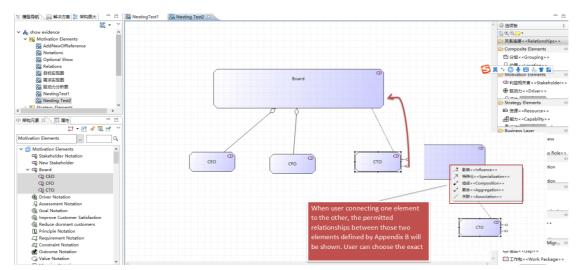
• Connecting elements

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

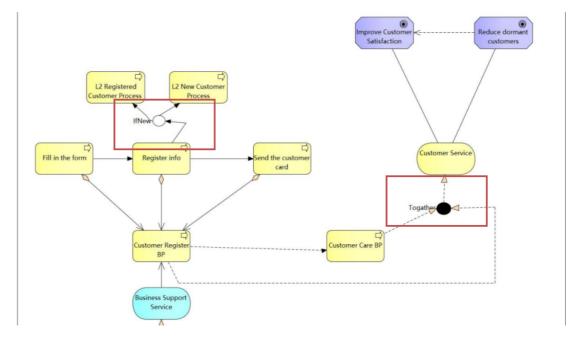
### Support

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

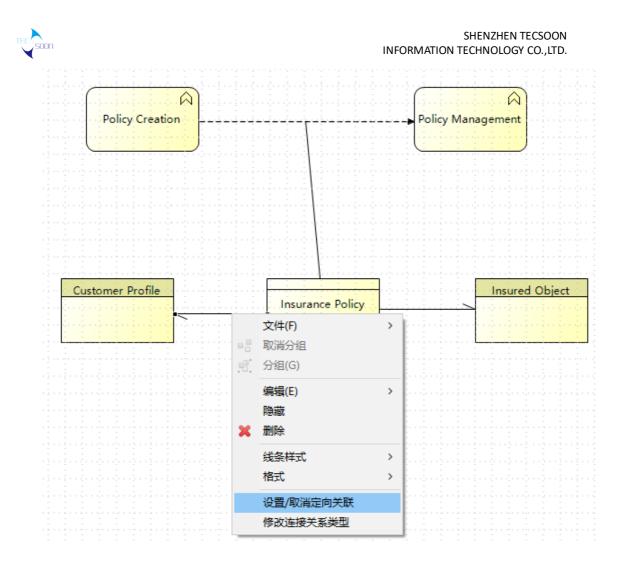




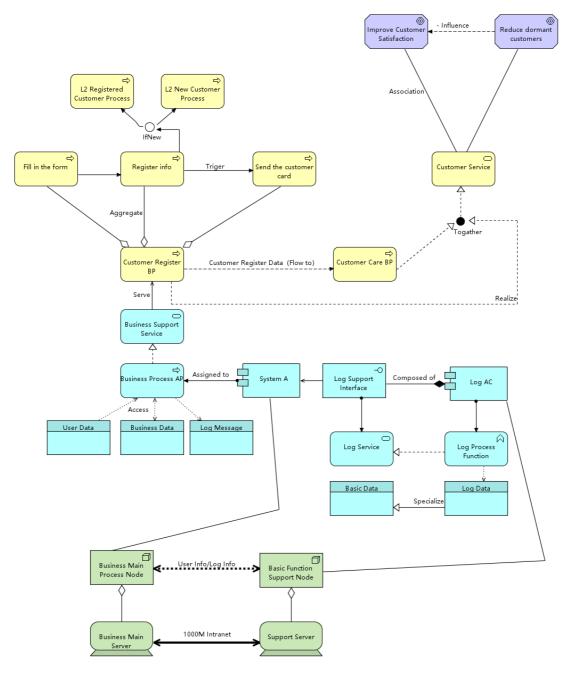


### Note:About Semi Arrow

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





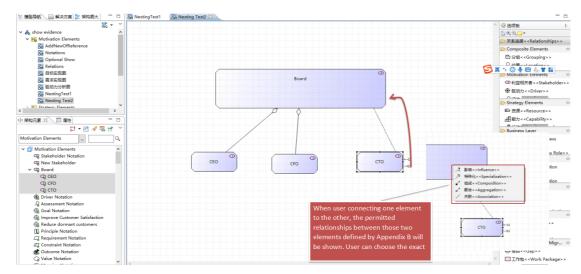


A conforming product shall enable notation of all ArchiMate structural relationships via nesting as defined in Section 5.1 (Structural Relationships) of the ArchiMate 3.1 Specification.

### **Support**

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





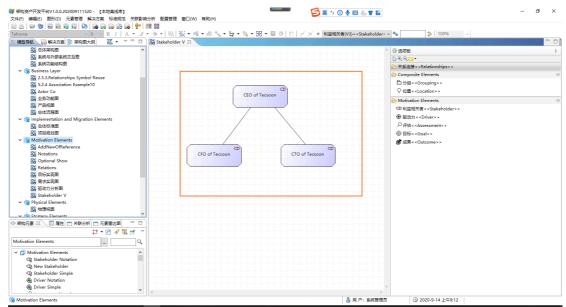
## 2.3.3. Relationships Symbol Reuse

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:

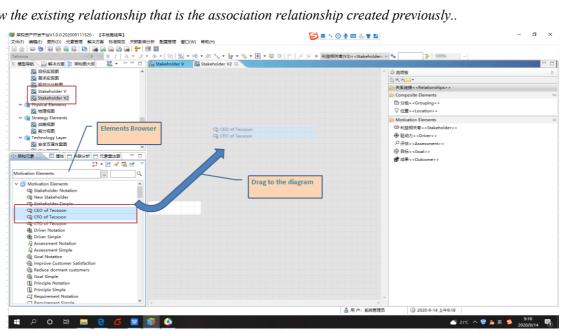
*Step1: We create 3 related elements like they are shown belown on diagram "Stakeholder V". Without specific properties.* 

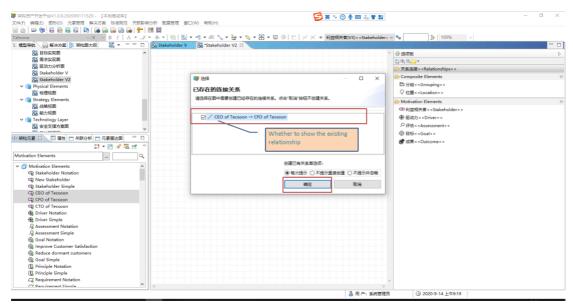


Step 2: We create another diagram "Stakeholder V2". Drag two of the elements that created on diagram "Stakeholder V" for reference(not copy). There will be a prompting about whether to



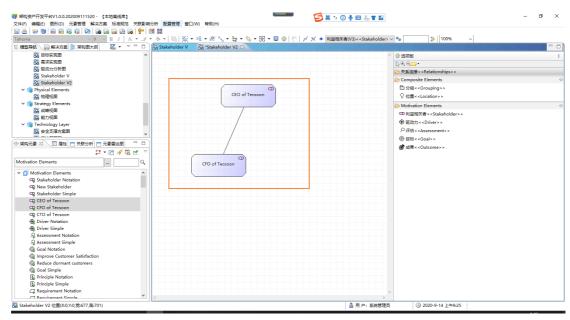
show the existing relationship that is the association relationship created previously.

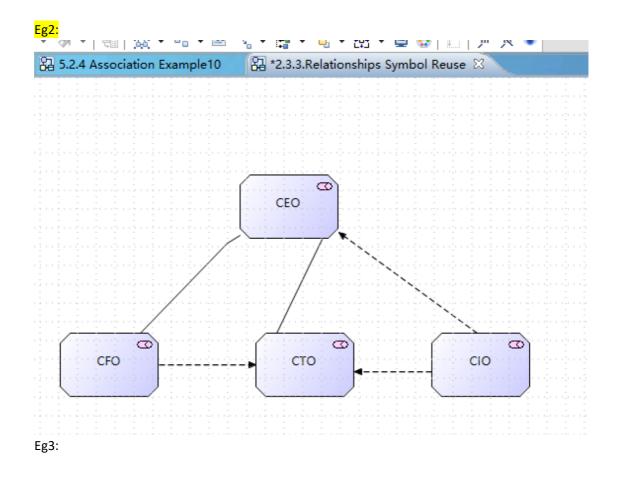




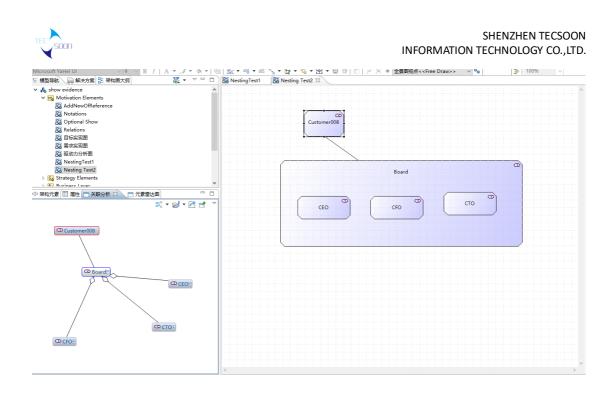
Relationship which has been created on "Stakeholder V" is shown.







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## 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**.

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1	全報回視点< <free draw="">&gt;</free>	LM		名称	施动者协作< <actor co-operation="">&gt; 标识 ArchAC</actor>			
2	全球 contro>>	Archintro			核心视点,此观点侧里于施动者与其他人的关系及所处环境。	$\wedge$		
3	组织结构(V3)< <organisation>&gt;</organisation>	ArchOrg						
A	abaabafter << Actor Co-operation >>	ArchAC						
5	W各功能< <business function="">&gt;</business>	ArchBF			Instruction of viewpoint			
6	业务流程 < < Business Process > >	ArchBP		备注				
7	业务流程协作(V3) < < Business Process Co-o	ArchBPC						
8	产品(V3)< <business product="">&gt;</business>	ArchProd						
9	应用行为< <application behaviour="">&gt;</application>	ArchAB				$\sim$		
10	应用协作(V3)< <application co-operation="">&gt;</application>	ArchAppC			BusinessActor, BusinessRole, BusinessCollaboration, BusinessService, BusinessInterface, ApplicationInterface, ApplicationCompo			
11	应用结构< <application structure="">&gt;</application>	ArchAS			nent,ApplicationService			
12	应用用途(V3) < <application usage=""> &gt;</application>	ArchAU						
13	技术(V3)< <technology>&gt;</technology>	ArchTC		容许的元素类型	Element types setting			
14	技术用途(V3) < <technology usage=""> &gt;</technology>	ArchTU		各厅的儿鹬大学				
15	实现&发布(V3)< <implementation and="" dep<="" td=""><td>IP</td><td></td><td></td><td></td><td></td></implementation>	IP						
16	信息结构(V3)< <information structure="">&gt;</information>	InfoS						
17	服务实现(V3)< <service realisation="">&gt;</service>	ArchSR						
18	分层(V3)< <layered>&gt;</layered>	Layer			Specialization,Composition,Aggregation,Assignment,Realization,Triggering,Flow,Serving,Access,AccessRead,AccessWrite,Acc			
19	利益相关者(V3) < <stakeholder>&gt;</stakeholder>	ArchSH			essReadWrite,Association			
20	目标实现(V3) < <goal realisation=""> &gt;</goal>	ArchGR			Delation alter action			
21	目标贡献< <goal contribution="">&gt;</goal>	ArchOC		容许的连接类型	Relationships setting			
22	原则< <principles>&gt;</principles>	ArchPR		台口的建使突坐				
23	需求实现(V3)< <requirements realisation="">&gt;</requirements>	ArchRR						
24	动机(V3) < < Motivation > >	ArchMT						
25	项目(V3)< <project>&gt;</project>	ArchWG	~		×.			

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.* 



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Log Service		
Business Support Service		
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• *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.

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1	全暑图视点< <free draw="">&gt;</free>	LM		名称	施动者协作< <actor co-operation="">&gt; 标识 ArchAC</actor>	-
2	全级 down =	Archintro			核心视点,此视点侧重于施动者与其他人的关系及所处环境。	1
3	组织结构(V3)< <organisation>&gt;</organisation>	ArchOrg				
4	施动者协作< <actor co-operation="">&gt;</actor>	ArchAC				
5	业务功能< <business function="">&gt;</business>	ArchBF			Instruction of viewpoint	
6	业务流程 < < Business Process > >	ArchBP		备注		
7	业务流程协作(V3) < < Business Process Co-o	ArchBPC				
3	产品(V3)< <business product="">&gt;</business>	ArchProd				
,	应用行为< <application behaviour="">&gt;</application>	ArchAB				
10	应用协作(V3)< <application co-operation="">&gt;</application>	ArchAppC			BusinessActor, BusinessRole, BusinessCollaboration, BusinessService, BusinessInterface, ApplicationInterface, ApplicationCompo	Г
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2	应用用途(V3)< <application usage="">&gt;</application>	ArchAU				
3	技术(V3)< <technology>&gt;</technology>	ArchTC		容许的元素类型	Element types setting	
4	技术用途(V3)< <technology usage="">&gt;</technology>	ArchTU		各計的元素夹型		1
15	实现&发布(V3)< <implementation and="" dep<="" td=""><td>IP</td><td></td><td></td><td></td><td></td></implementation>	IP				
16	信息结构(V3)< <information structure="">&gt;</information>	InfoS				
7	服务实现(V3)< <service realisation="">&gt;</service>	ArchSR				
8	分层(V3)< <layered>&gt;</layered>	Layer			Specialization, Composition, Aggregation, Assignment, Realization, Triggering, Flow, Serving, Access, AccessRead, AccessWrite, Acc	
9	利益相关者(V3) < <stakeholder>&gt;</stakeholder>	ArchSH			essReadWrite,Association	
20	目标实现(V3)< <goal realisation="">&gt;</goal>	ArchGR				
21	目标贡献< <goal contribution="">&gt;</goal>	ArchOC			Relationships setting	
22	原则< <principles>&gt;</principles>	ArchPR		容许的连接美型		-
23	需求实现(V3)< <requirements realisation="">&gt;</requirements>	ArchRR				
24	动机(V3)< <motivation>&gt;</motivation>	ArchMT				
25	项目(V3)< <project>&gt;</project>	ArchWG	~		v	

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.

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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".

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24 产品规则 24 总体流程图			<ul> <li></li></ul>	RR 需求实现(V3)< <requirements realisation="">&gt;</requirements>	MT 助机(V3)< <motivation>&gt;</motivation>
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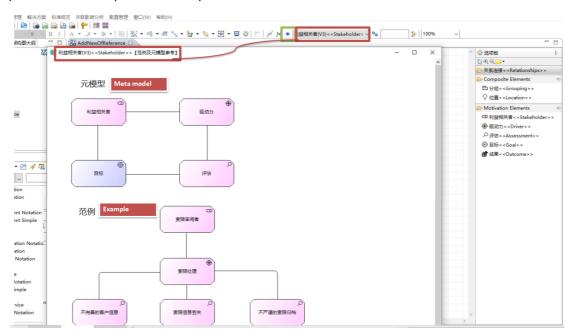
Elements that do not meet the "Stakeholder Viewpoint" standard are filtered out.

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• *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.* 

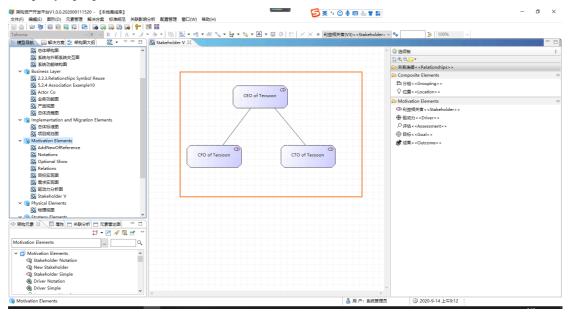


Req5: Each conforming product shall enable users to present ArchiMate elements and relationships from a single underlying model in multiple views, or in multiple instances in the same view. Therefore, any changes to the content of one view shall be reflected throughout all views of the same model that 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.

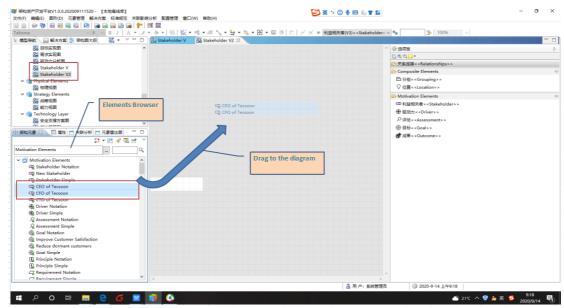
### **Supported**

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.* 

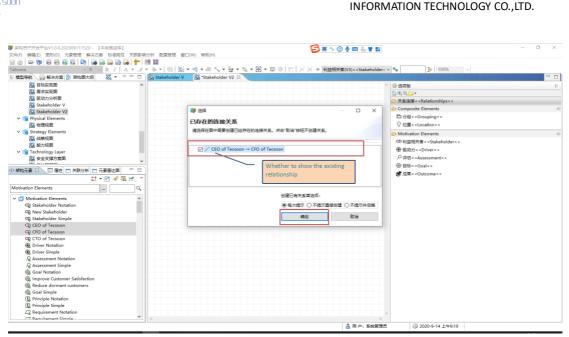
*Step1: We create 3 related elements like they are shown belown on diagram "Stakeholder V". Without specific properties.* 



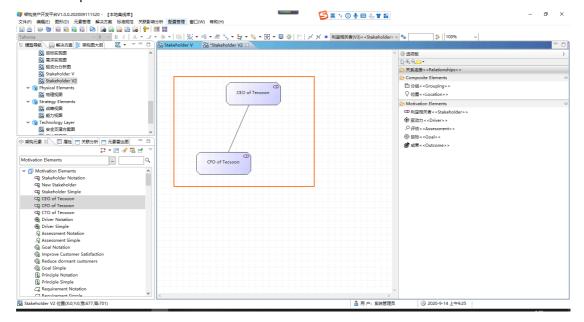
Step 2: We create another diagram "Stakeholder V2". Drag two of the elements that created on diagram "Stakeholder V" for reference(not copy).







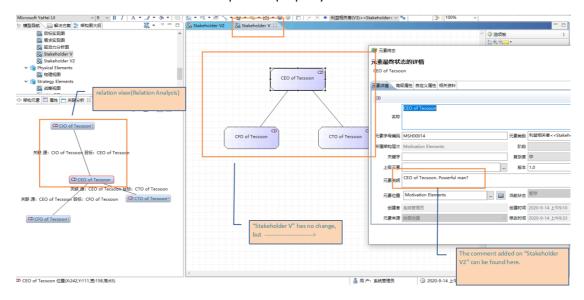
Relationship which has been created on "Stakeholder V" is shown.



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

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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**

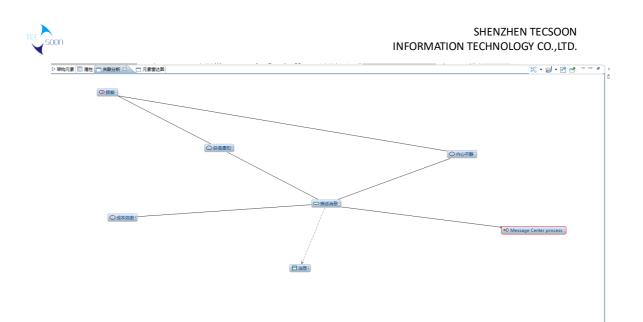
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• *Req7: A conforming product shall track the occurrences of objects in different views.* **Supported** 

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.

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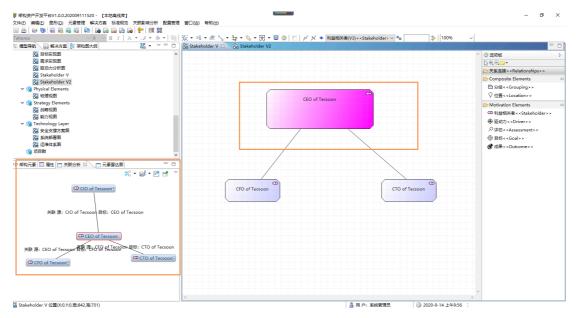


• *Req8: A conforming product shall allow for different graphical notations for an object in different views.* 

### **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.



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

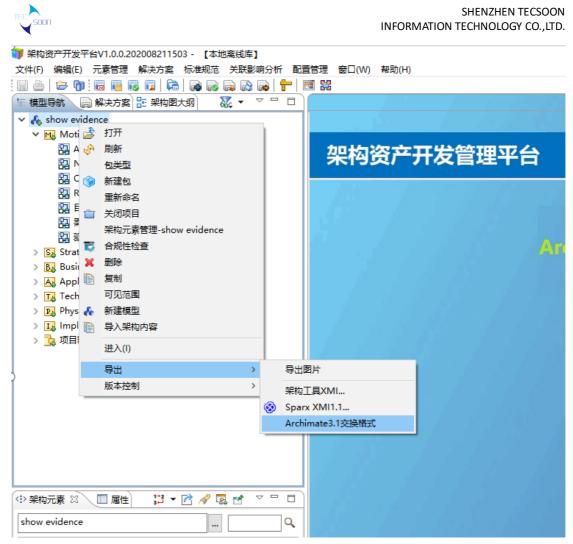
## 2.5. Exchange File Format Support

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".

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

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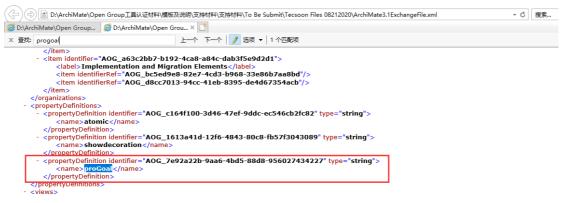
### Parts of the exported file are listed below.

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[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 Model] is from [www.opengroup.org/xsd/archimate/3.1]

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### After a successful import, all the models are imported.

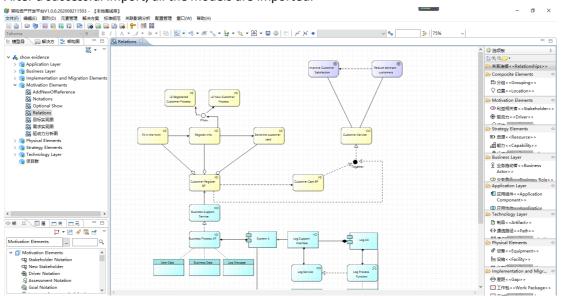
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B.Import an exported ArchiMate3.1 exchange format file from Tecsoon tool.



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After a successful import, all the models are imported.



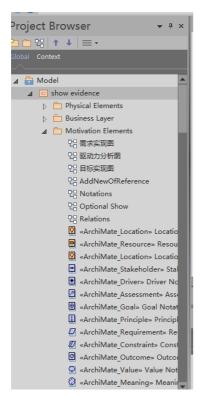
2.5.3. Export to Sparx EA

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



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Model structure is loaded successfully.



Main diagrams: Notations, Add New Of Reference, Relations.



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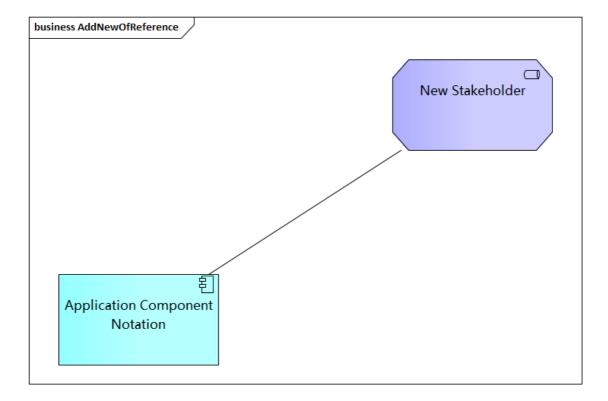
All the elements are imported and shown on the right positions. ArchiMate 3.1 Exchange File Format Standard does not provide the equivalent notation flag, so that Sparx EA shows those notations named "xxxx Simple" on the same style.

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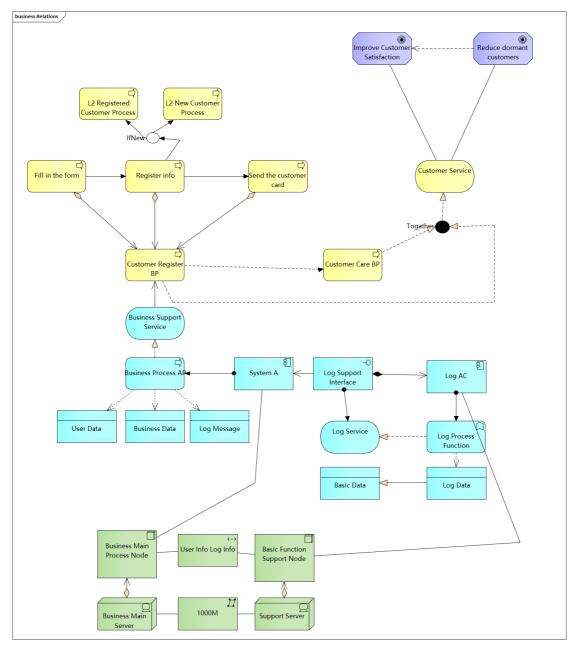
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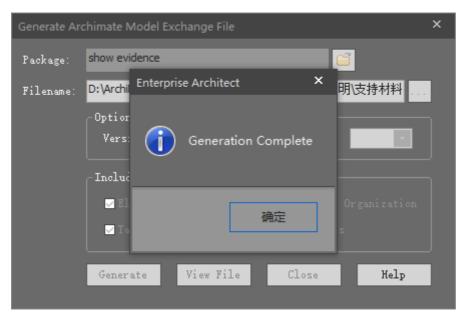


## 2.5.4. Import a Sparx EA file

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



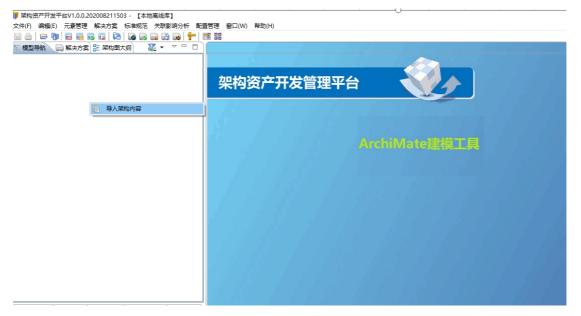
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The exported file is named as "ExchangeFileFromSparxEA.xml".

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

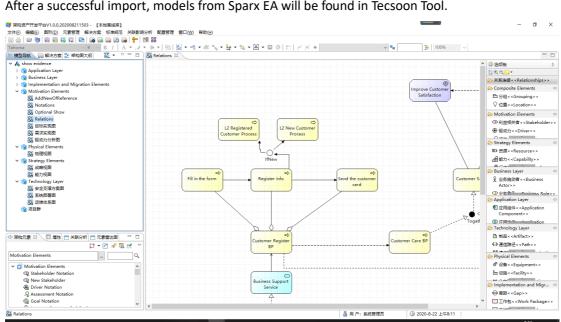




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After a successful import, models from Sparx EA will be found in Tecsoon Tool.





## 2.5.5. Export to Archi

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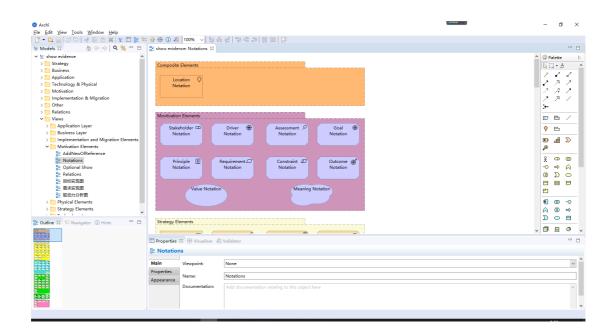
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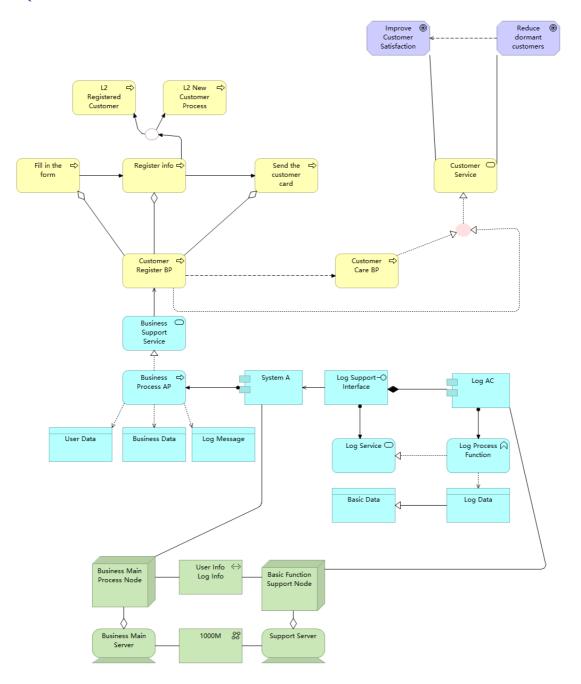






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#### SHENZHEN TECSOON INFORMATION TECHNOLOGY CO., LTD.



## 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

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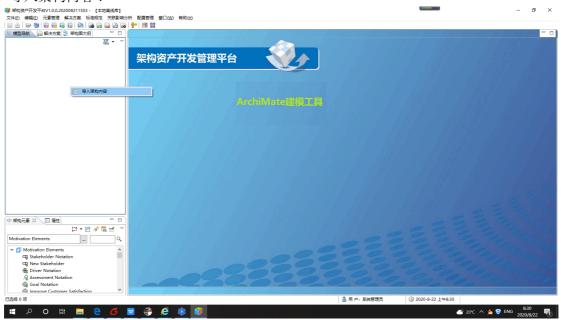
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Then in Tecsoon Tool, delete all the models to clear the panel, then select import model file by "导入架构内容".



Selecting the "ExchangeFileFromArchi.xml"



# SHENZHEN TECSOON INFORMATION TECHNOLOGY CO.,LTD.

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

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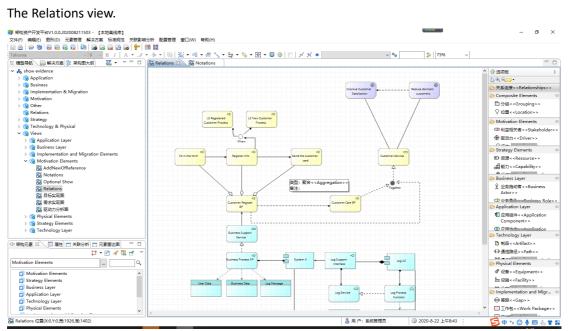
The Notations view.



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#### The Relations view.



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



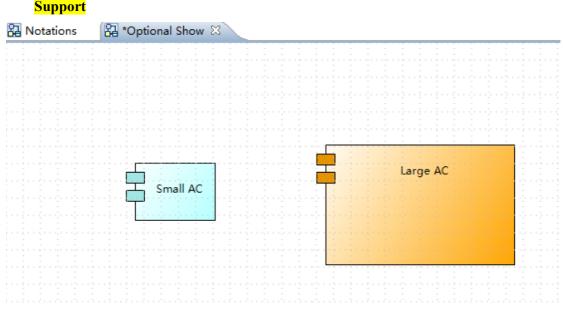
### 3. About Optional Requirements

## **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.



#### • 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

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#### • 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:

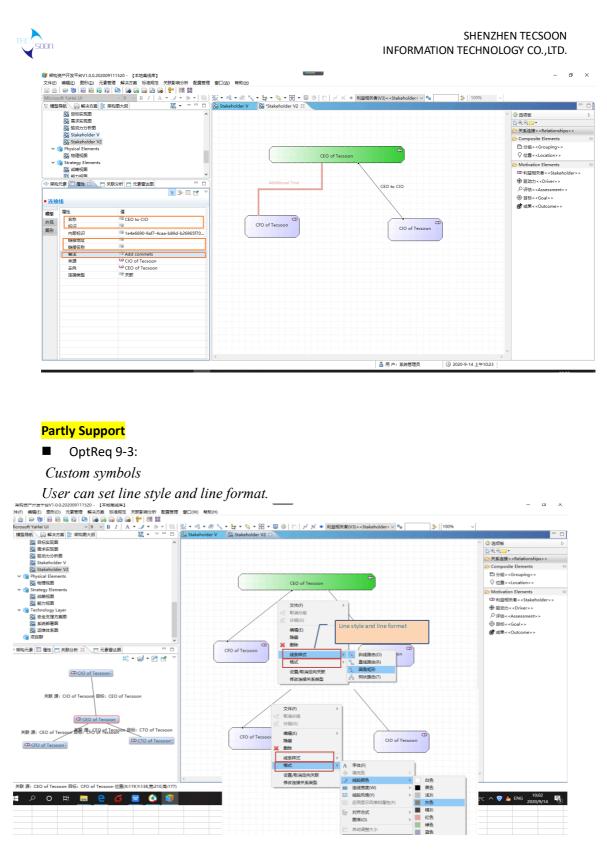
Custom names, as defined in the Specialized Content column of the table in Section 15.2.9 (Examples of Specializations of Relationships (Informative)) of the ArchiMate 3.1 Specification

### 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.* 



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".



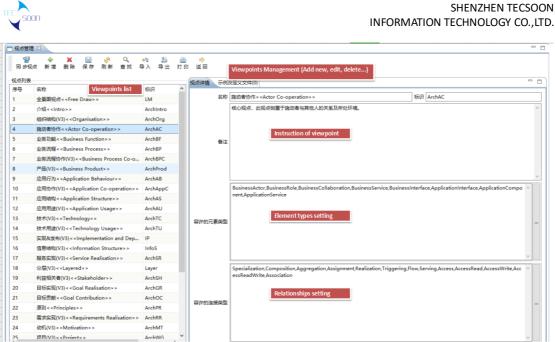
# SHENZHEN TECSOON INFORMATION TECHNOLOGY CO., LTD.

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### 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



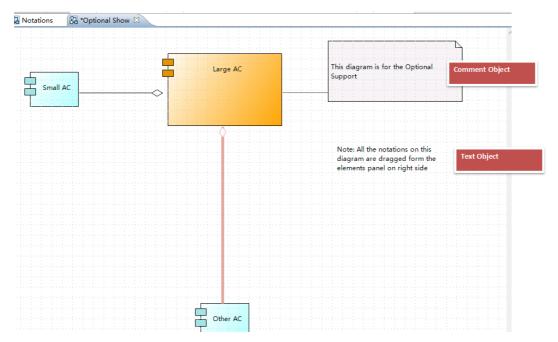
## 3.1.4. Concept Coverage

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**



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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.

<mark>Not Support</mark>

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