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2

Siemens OPC UA Modeling Editor Functional description

SIOME / OPC UA / TIA V15

https://support.industry.siemens.com/cs/ww/en/view/109755133

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1 Introduction

1.1 Overview

The OPC UA communication protocol enables companies and organizations to create their own standards for an OPC UA information model. You can generate a standardized server interface with these functions. For communication to your system or system parts, the OPC UA clients only have to know the defined standard without taking into account detailed information on the system and its devices.

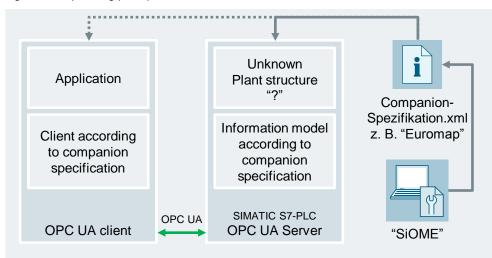
The platform-independent OPC UA protocol with the companion specifications extension greatly facilitates standardized cross-manufacturer communication and reduces implementation effort.

Many organizations and associations already have standardized OPC UA information models for your industry-specific systems and solutions. These include the following organizations, for example:

- Euromap
- AIM
- VDMA
- AutomationML
- OMAC

With the free "Siemens OPC UA Modelling Editor" (SiOME) tool, we have created an editor for defining your own OPC UA information models or mapping existing companion specifications on your SIMATIC PLC. Using this tool, you can import and edit information models as XML files or generate and export individualized models.

Figure 1-1 Operating principle:



1.2 Highlights

The Siemens OPC UA Modelling Editor offers the following functions which facilitate the generation of information models:

- Import of prefabricated OPC UA companion specifications.
- Saving of the work status (project) in XML format and re-import.
- Modeling of own types, objects and methods.
- Importing a TIA portal project directly into the tool via the TIA Openness interface.
- Quick linking of OPC UA objects from the OPC UA information model with control variables and methods via drag & drop.
- Comprehensive access monitoring by setting the access rights.
- Freely selectable description of the OPC UA nodes including localization.

New in V1.5

- New Modeling Rules (Mandatory Placeholder, Optional Placeholder)
- Union
- Creation of OPC UA models directly from the data blocks of the TIA Portal project
- Transfer of comments from the TIA Portal project as description for the OPC UA model
- Jumping to nodes in the OPC UA model
- Search function for nodes
- Bookmark frequently used nodes
- Additional information through "MouseOver" in important places

Note The following system requirements apply to SiOME:

- .NET Framework 4.5 or higher
- Windows 7 (x64)
- Windows 10 (x64)

The following system requirements also apply for the use of the TIA Openness function of SiOME:

- Windows 7/10 (x64)
- TIA Portal openness installation

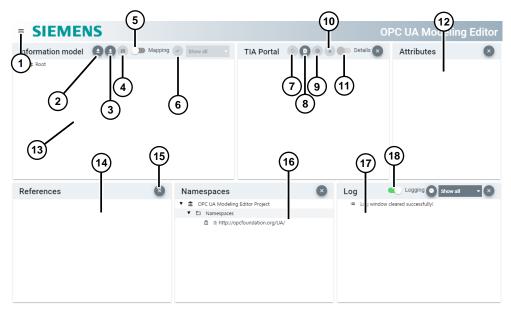
2 Handling and functions of SiOME

In this chapter you will learn how to integrate the library into your user project.

2.1 Description of the user interface

The following figure explains the interface of the Siemens OPC UA Modelling Editor (SiOME):

Figure 2-1 SiOME interface



No.	Object	Function				
1.	"Settings" menu	Shows the options for changing the tool layout. In the "About" dialog, you will find version information and the link to this application example. The "Refresh" entry resets the current information model.				
2.	"Import XML" button	Imports a pre-defined NodeSet or a saved XML project status.				
3.	"Export XML" button	Exports a modeled NodeSet or saves the current status in an XML file.				
4.	"Quick save" button	Saves the current status in an XML file.				
5.	"Mapping" slider	Activates the mapping in the program to link variables by drag&drop ("TIA Openness") or manually by text input.				
6.	"Validate mapping" button	Validates the linking of OPC UA variables with PLC variables. Displays unresolved conflicts.				
7.	"Refresh TIA Portal project" button	Updates an open TIA project.				
8.	"Open TIA Portal project" button	Opens a TIA project via its Openness interface.				

No.	Object	Function
9.	"Close TIA Portal project" button	Closes an open TIA Portal project.
10.	"Open TIA Portal project" button	Opens a window to select the language of the open TIA Poral project.
11.	"Details" slider	Displays the variables of the selected data blocks.
12.	"Attributes" area	This section displays the attributes of the OPC UA nodes. You can add a description of the nodes or change their value here.
13.	"Information model" area	This section shows the information model and offers all functions for modifying it.
14.	"References" area	This section contains an overview of the referencing level of the OPC UA nodes. You can switch over between optional and required nodes.
15.	"Close Window" button	Closes the selected window. Windows can be displayed again at any time via menu (1)
16.	"Namespaces" area	This sections lists all name spaces which are currently used in the tool. You can generate your own name spaces by right- clicking.
17.	Area "Log"	A log is created in the SiOME directory. The log is used to collect debug information and readjust user input.
18.	"Logging" slider	Enables or disables logging.

Note

If logging is activated, SiOME creates the "Log" folder in the same directory as the SiOME EXE. In this folder you will find the logs in CSV format.

2.2 Function description

This chapter describes the process connection options.

2.2.1 Import of OPC UA models

To import a NodeSet file into SiOME, proceed as follows:

1. Click on the "Import XML" button:



- 2. In the dialog box, select the file you want to import.
- 3. Click Open in the dialog.

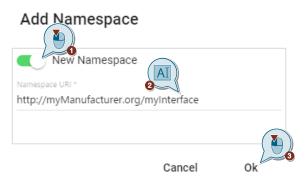
2.2.2 Creating new OPC UA namespaces

To create a new OPC UA address space, proceed as follows:

1. Create a new name space for your machine. Right-click on "Namespaces" in the "Namespaces" area and select "Add Namespace".



2. Activate the slider "New Namespace" in the appearing dialog and assign a name. Then confirm with "Ok".



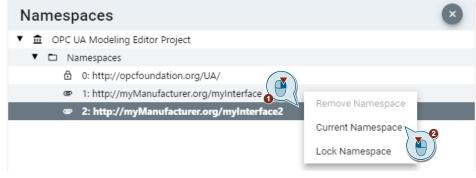
2.2.3 Select or lock the current namespace

You have the option of selecting the currently active namespace or locking an existing namespace to prevent unwanted modifications.

Select or lock the current namespace

Each type and object in the information model must be assigned to a namespace. You can preselect the currently active namespace. Proceed as follows:

- 1. Import an information model or create several namespaces of your own.
- 2. Right-click on a desired namespace and then click "Current Namespace" to select the namespace.



3. All objects created from now on are automatically assigned to the selected namespace. You can change the assignment subsequently.

Locking a namespace

For example, if you have created all objects of a namespace and want to protect them against further modifications, you can lock the namespace. Proceed as follows.

- 1. Import an information model or create your own namespace.
- 2. Right-click on the desired namespace and then click "Lock Namespace" to select the namespace.

💼 OPC UA Modeling Editor Project	
 Namespaces 	
O: http://opcfoundation.org/UA/	
I: http://myManufacturer.org/myInterface	Description of the second seco
@ 2: http://myManufacturer.org/myInterface2	Remove Namespace
	Current Namespac 🛛
	Lock Namespace

3. A lock symbol indicates that the namespace is locked. From now on, you cannot create new objects for this namespace.



2.2.4 Displaying the Data Types in the Current Model

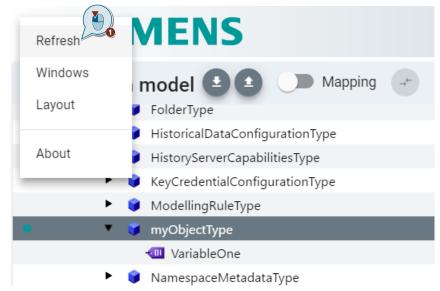
If you want to display the data types for all variables in the information model, proceed as follows:

- 1. Click on the button in the upper left corner to open the menu.
- 2. Select the item "Layout".
- 3. Select the checkbox "Show dataTypes for variables and variableTypes in information model".

2.2.5 Delete the current object model

To discard the entire project or object model, proceed as follows:

- 1. Left-click on the menu at the top left.
- 2. Select the "Refresh" button.



CAUTION Permanent!

If you reset the project by "Refresh", all changes are lost. Save your project/information model beforehand by exporting it via the "Export XML" button. This allows you to import it again at a later time and process it further.

2.2.6 Creating a new object type

To define a new object type, proceed as follows:

 Create an object type to instantiate it later as an object. In the "Information model" area, navigate to "Types > ObjectTypes", right-click "BaseObjectType" and select "Add New ObjectType".

Information model	Apping - Show all	
▼ OP¢ Root		
Objects		
▼ OPC Types		
DataTypes		
OPC EventTypes		
ObjectTypes		
🕨 🧊 BaseObjectType		
 ReferenceTypes 	Move Node	
OP¢ VariableTypes	Add New ObjectType	
OPC Views	Add Child	

2. In the dialog that appears, enter a name for the object type and confirm with "OK".

Add New Objecttype

Name	MyObject
NodeClass	ObjectType
Namespace	http://myManufacturer.org/MyInterf 🔻
ReferenceType	HasSubtype 💌
	Cancel Ok

Creating a child object

To fill an object with children, proceed as follows:

1. Right-click on the object just generated and select "Add Child".



2. Enter a name for the variable in the dialog that appears and select the class "Variable" as "NodeClass", for example. Then select a suitable data type (in the example: "Int32") and confirm with "Ok".

Name	myVariable		
NodeClass	Variable	2	•
Namespace	http://myManufcatu	rer.org/MyInterface	
ReferenceType	Organizes		•
TypeDefinition	BaseVariableType		•
DataType	Int32	3	•

Define modeling rules for object children

Select the previously created object type by left-clicking on it. The modeling rules can then be found in the "Hierarchical References" section.

References							×
Derive	ed member						^
ReferenceType	Node	Class	Name	TypeDefinition	ModellingRu	ule DataType	
🛨 🖸 Hierar	chical Refere	nces				_	^
ReferenceType Organizes	NodeClass Variable	Name myVariable	9	TypeDefinition BaseVariableType	ModellingRule Mandatory	DataType 2 atory	00
	nierarchical Re	eferences				Mandatory placeholder No modelling rule	^
ReferenceType					Target		_

To change the modeling rule, proceed as follows:

- You can change the modeling rule from "optional" to "mandatory" using the "ModellingRule" checkbox.
- Right-click on the "ModellingRule" selection box to select between "Mandatory", "Mandatory placeholder" or "No modelling rule".

Derived object type references

If you derive an object type from another, it inherits the attributes and nodes of its parent object.

An example:

Informatior	n model (Mapping	→← Show	all
•	🔋 StateMacl	hineType			^
,	🕨 📶 Currer	ntState			
•	Finites	StateMachineType	;		
,	🕨 📶 LastTra	ansition			
•	💡 StateType	•			
•	💡 Subscribe	dDataSetType			
•	💡 Temporar	yFileTransferType			
•	💡 Transition	Туре			
	💡 VendorSe	rverInfoType			
•	💡 WriterGro	oupMessageType			
•	💡 WriterGro	oupTransportType			_
► OPC Ref	erenceTypes				
OP¢ Var	iableTypes				•
Reference	S				×
-	S ved membe	er			×
-	ved membe		TypeDefin	nition Mode	^ IlingRule Dat
Deriv	ved membe pe NodeC				A llingRule Dat. andatory Loca
Deriv ReferenceTy	ved membe r pe NodeC t Variable	lass Name CurrentState		/ariable 🔽 Ma	
Deriv ReferenceTy HasComponent HasComponent	ved membe r pe NodeC t Variable	lass Name CurrentState LastTransitic	FiniteStateV	/ariable 🔽 Ma	andatory Loca
Deriv ReferenceTy HasComponent HasComponent	ved membe r pe NodeC t Variable t Variable archical Ref	lass Name CurrentState LastTransitic	e FiniteState∨ on FiniteTransi	/ariable 🔽 Ma tionVa 🔝 Ma	andatory Loca andatory Loca
Deriv ReferenceTy HasComponent HasComponent HasComponent HasComponent ReferenceType	ved membe r pe NodeC t Variable t Variable archical Ref	lass Name CurrentState LastTransitic	e FiniteStateV on FiniteTransi Definition M	/ariable 🔽 Ma tionVa 🔝 Ma	andatory Loca andatory Loca
Deriv ReferenceTy HasComponent HasComponent ReferenceType HasComponent	ved membe rpe NodeC t Variable t Variable archical Ref NodeClass	lass Name CurrentState LastTransitio	e FiniteStateV on FiniteTransi Definition Me ataVariable	/ariable 🗹 Ma tionVa 📄 Ma odellingRule	andatory Loca andatory Loca ^ e DataType

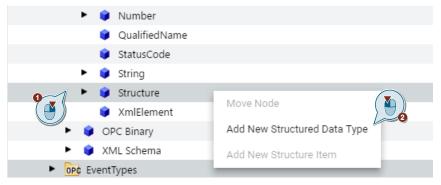
The object type "FiniteStateMachineType" is derived from the parent object "StateMachineType". This has given him so-called inherited attributes ("Derived members").

The node ["]CurrentState" was inherited as "Mandatory". The variable "LastTransition" is optional, but can still receive the modeling rule "Mandatory" afterwards.

2.2.7 Creating a new data type

To create a data type, proceed as follows. A new structure is defined as an example:

1. Navigate to "Types > DataTypes > BaseDataTypes", right-click on "Structure" and select "Add New Structured Data Type".

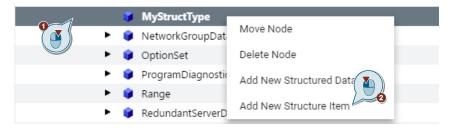


2. Enter a name for the structure in the dialog that appears and confirm with "Ok". The active namespace is automatically selected as the namespace in which the structure definition is to be stored.

Add New Structured Data Type

Name	MyStructType
NodeClass	DataType 🗸 🗸
Namespace	http://myManufacturer.org/MyInterf 🔻
ReferenceType	HasSubtype 🔻
	Cancel Ok

3. Fill the structure with items. Right-click on the structure you just created and select "Add New Structure Item".



4. In the tree view, select the created item with the left mouse button, assign a name in the "Structure Item Definition" area and select the desired data type.

Information model 🛨 主 🕞 Mapping 🔄 Show all		Structure Item De	finition
Generation Structure DataType	(\mathbf{A})	Name	structString
MonitoringFilter	2	Symbolichtomo	otauot@tring
🔹 📦 MyStructType		DataType IsArray	String
structString		Description	This is a String in a Structure
 NetworkGroupDataType 		IsOptional	false
 ØptionSet 			

5. Repeat steps 3 and 4 for each required item within your structure.

2.2.8 Creating a new variable type

Once you have created a structure type, you can also create the variable type from it. The advantage is that when you create an instance of the structure and select the variable type, the structure elements are displayed in the OPC UA model. These can then be processed as individual elements in the structure by OPC UA clients.

The disadvantage is that the OPC UA information model contains significantly more nodes.

Procedure:

1. Right-click on your structure type and then left-click "Create Variable Type" in the context menu.

Information model	主 💽 Mapping 🕞 Show all
 IstoryEvent 	\rightarrow
 HistoryEventFieldList 	<i>→</i>
 IdentityMappingRuleType 	<i>→</i>
🕨 📦 KeyValuePair	→
 Ø ModelChangeStructureDataType 	<i>→</i>
 Ø MonitoringFilter 	\rightarrow
❶ ▼ 🔋 MyStructType	2
structString (String)	Move Node
StructInt32 (Int32)	Delete Node
 VetworkAddressDataType 	Add New Structured Data Type
 VetworkGroupDataType 	
 ØptionSet 	Add New Structure It
🕨 😝 ProgramDiagnostic2DataType	Create Variable Type
🕨 😝 ProgramDiagnosticDataType	Delete Variable Type
 PublishedDataSetDataType 	7
PublishedDataSetSourceDataType	÷ →

2. Assign a name for the variable type

Create	Variables from Type		Cor DPC
Name	MyStructVariableType		
	Cancel	Ok	

Then you can find your variable type in the directory VariableTypes > BaseVariableType > BaseDataVariableType:

Information model	Mapping 🕞 Show all 👻
OPC ReferenceTypes	\rightarrow
▼ OPC VariableTypes	\rightarrow
🔻 🕣 BaseVariableType	\rightarrow
🔻 🕘 BaseDataVariableType	\rightarrow
 -1 "typeOMACPackTags_Admin"."ProdDefectiveCou 	nt' →
 -1 "typeOMACPackTags_Admin"."ProdProcessedCou 	ur. →
 -@ "typeOMACPackTags_Status"."EquipmentInterloct 	k" →
 AlarmRateVariableType 	\rightarrow
 AudioVariableType 	\rightarrow
• In BuildInfoType	\rightarrow
 ConditionVariableType 	\rightarrow
• 1 DataltemType	\rightarrow
• 1 DataTypeDescriptionType	→
 -1 DataTypeDictionaryType 	\rightarrow
MyStructVariableType	→
CTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	\rightarrow
<pre>structString</pre>	→
 OptionSetType 	<i>→</i>
Drogram Diagnostic Tumo	×

2.2.9 "Mouseover" Functions

SiOME offers a "mouseover" function for various elements. The elements are explained below.

Current number of nodes in the project

If you move the mouse over the "Models" entry, the current number of nodes of all namespaces available in the project is displayed.



When you move the mouse over a particular namespace, the number of nodes in that namespace is displayed.

Namespaces
 DPC UA Modeling Editor Project
▼ □ Models 2 nodes
C: http://or
1: http://myManufcaturer.org/MyInterface

Displaying the Data Type and Type Definition Path

If you move the mouse over a type, the path to this type is displayed.

References	×
Derived member	^
ReferenceType NodeClass Name TypeDefinition ModellingRule Data	аТуре
+ Hierarchical References	^
ReferenceType NodeClass Name TypeDefinition ModellingRule Data HasSubtype ObjectType InitialS	Туре
HasPr BaseVariableType / PropertyType Nr PropertyType 🗸 Mandatory UInt33	2
+ Non-hierarchical References	^

The same applies to the data type:

Reference	ces		×
O D	erived memb	er	^
ReferenceTy	vpe NodeClas	ss Name TypeDefinition ModellingRule Data	Туре
• • +	ierarchical Re	ferences	^
ReferenceTy	pe NodeClas	s Name TypeDefinition ModellingRule DataT	ype
HasSubtype	ObjectType	InitialSt (
HasProperty	Variable	S BaseDataType / Number / UInteger / UInt32	Î
• • N	on-hierarchic	al References	^

2.2.10 Moving and Renaming Nodes

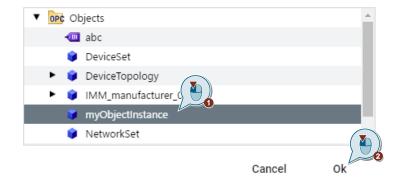
Moving nodes

1. Right-click a node in the address space that you want to move:

Information model
▼ OP¢ Root
▼ Objects
- abc Ove Node
Devices
DeviceT Delete Node
IMM_m Add New Variable
📦 myObjectinstance
📦 NetworkSet
Server
► OP¢ Types
OP¢ Views

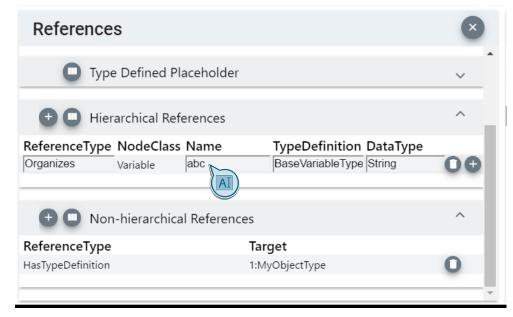
2. In the dialog that appears, select the object to which you want to move the selected node and confirm with "Ok":

Select new parent node



Renaming nodes

Select a node in the "Information model" section and edit its name in the "References" section:



After the entry, the result is automatically accepted.

2.2.11 Navigating in the Address Space Model

To navigate in the address space, you can search for nodes and jump directly to them. You can also add a new bookmark.

Find a node and jump directly to the node

 If you right-click on the "Information model" label field or use the key combination "<STRG> + <F>", you can jump directly to a node using the "Find Node" button:

Information model	00	Mapping	÷	Show all	-
▼ OP¢ Root	Find Node	2			
▼ OP¢ Objects		_			

2. In the dialog that appears, enter either the BrowseName or the Node Id with namespace and click on a proposed node to jump to it:

Find No	ode (AI)
Search:	abc 💋
	1 Nodes found. 4:abc

Book mark:

To navigate quickly in an object model, you can bookmark nodes.

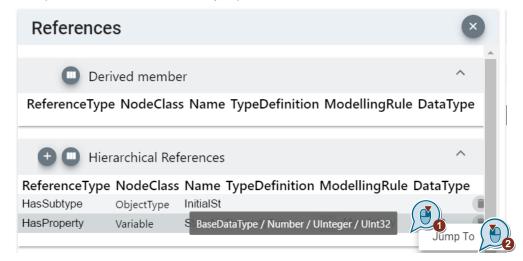
To add a bookmark, use the key combination "<STRG> + <K>". This allows you to delete the bookmark again.

= SIEN	IENS
Information r	
	FolderType AttaconfigurationType
۲ 📦	HistoryServerCapabilitiesType
► 📦	KeyCredentialConfigurationType
` _^	ModellingRuleType
Bookmark 2	myObjectType
	C VariableOne
۲ 🖌	NamespaceMetadataType
۲	NamespacesType
► 9	NetworkAddressType
۲	PublishedDataSetType
► 9	PubSubConnectionType
► 📦	PubSubDiagnosticsType
\	Ploto T

To jump from one bookmark to another, use the key combination "<ALT> + <left arrow>" or "<ALT> + <right arrow>".

Jumping to a Data Type Definition

Right-click on the desired data type in the "References" area and then click on "Jump To" in the context menu to jump to its node:



You can then right-click anywhere in the context menu to return to the previous screen:

Information model 🔮 🗨 <	Mapping Show all -
TIUdL	7
🕨 🧊 Integer	→
🔻 🏮 UInteger	<i>→</i>
► 🃦 Byte	<i>→</i>
VInt16	→
🔮 🗸 🗸 🗸 Ulnt32	÷
AccessLevelExTy	<i>→</i>
Jump Back	→
IteWriteM	→
Move Node er	→
Add New Datatype etFieldCor	÷
🏮 Integerid	<i>→</i>
► 🃦 JsonDataSetMe	→
IsonNetworkMe	→ ▼

2.2.12 Create information model from TIA Portal project

SiOME offers you the possibility to create an information model directly from TIA Portal. You can derive and map objects directly from an (instance) data module.

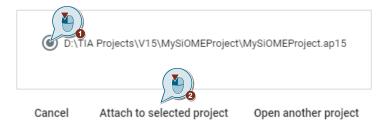
TIA Open project:

To create an information model or an object from a TIA Portal project, open the TIA Portal project via the button "Open TIA Portal project" in SiOME:



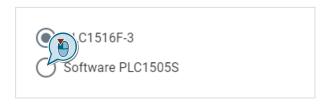
If TIA Portal has already been started and a project is open in the TIA Portal, the "Attach to already opened TIA Portal project" dialog opens. Select the open project and then click on "Attach to selected project":

Attach to already opened TIA Portal project



If more than one SIMATIC S7-1500 controller has been configured, select the one that is suitable for you:

Select PLC



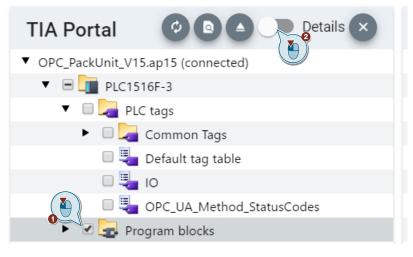
Cancel

Ok

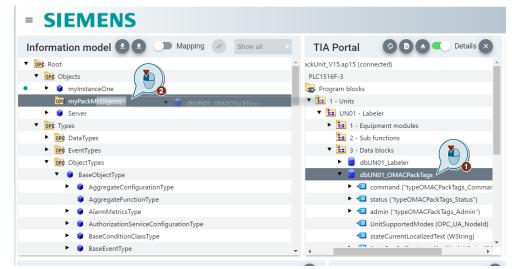
Reference the information model

To create objects in the information model from the TIA Portal project, proceed as follows:

1. Select the data blocks or folders you want to use and click on the "Details" slider.



- 2. Select a data block from which you want to create an object in the OPC UA information model.
- 3. Hold down CTRL + left-click and use drag & drop to store the data component in the information model.



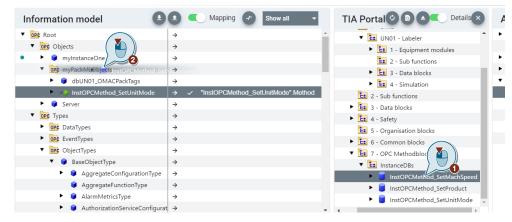
4. If the data block contains a structure, an array element or a UDT, SiOME asks if you want to create a variable type for it.

Create OPC UA instance

~	Create variable types and children Create array elements	
	Cancel	Ok

You can do the same for OPC UA methods:

- 1. Select an instance data block of an OPC UA method programmed in the TIA Portal project from which you want to create a method in the OPC UA information model.
- 2. Hold down CTRL + left-click and use drag & drop to store the data component in the information model.



3 Appendix

3.1 Service and Support

Industry Online Support

Do you have any questions or need assistance?

Siemens Industry Online Support offers round the clock access to our entire service and support know-how and portfolio.

The Industry Online Support is the central address for information about our products, solutions and services.

Product information, manuals, downloads, FAQs, application examples and videos – all information is accessible with just a few mouse clicks: <u>https://support.industry.siemens.com</u>

Technical Support

The Technical Support of Siemens Industry provides you fast and competent support regarding all technical queries with numerous tailor-made offers – ranging from basic support to individual support contracts. Please send queries to Technical Support via Web form: www.siemens.com/industry/supportrequest

SITRAIN – Training for Industry

We support you with our globally available training courses for industry with practical experience, innovative learning methods and a concept that's tailored to the customer's specific needs.

For more information on our offered trainings and courses, as well as their locations and dates, refer to our web page: <u>www.siemens.com/sitrain</u>

Service offer

Our range of services includes the following:

- Plant data services
- Spare parts services
- Repair services
- On-site and maintenance services
- Retrofitting and modernization services
- Service programs and contracts

You can find detailed information on our range of services in the service catalog web page:

https://support.industry.siemens.com/cs/sc

Industry Online Support app

You will receive optimum support wherever you are with the "Siemens Industry Online Support" app. The app is available for Apple iOS, Android and Windows Phone:

https://support.industry.siemens.com/cs/ww/en/sc/2067

4 References

Table 4-1

	Торіс	
\1\	Siemens Industry Online Support https://support.industry.siemens.com	
\2\	Download page of this entry https://support.industry.siemens.com/cs/ww/en/view/109755133	
\3\	Download from .NET Framework https://www.microsoft.com/de-de/download/details.aspx?id=55170	

5 Document history

Table 5-1

Version	Date	Change
V1.0	07/2018	First version
V1.5	08/2018	New version