Astah

Reference Manual *Ver.* 10.0

Astah Viewer

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Astah Reference Manual

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Introduction

This Manual, “Astah Reference Manual”, briefly explains the functions of Astah and how to use them.

Astah Viewer is a viewer tool for a project file created with Astah professional or UML.

Structure of this Manual

· Chapter 1-3	Overview of Astah and getting started
· Chapter 4-6	Basic Astah concepts and Main Menu functions
· Chapter 7-13	Basic diagram and model operations
· Chapter14	Specific diagram and diagram element operations
· Chapter15-17	System set-up and specific Astah features

Note

· Please refer to Astah website (https://astah.net/) for the answers to frequently asked questions.

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1.Overview of Astah Functions

1. Overview of Astah Functions

1.1. Overview

Astah Viewer is a viewer tool for a file created with Astah Professional or UML

.

1.2. Restrictions on macOS

While Aqua Look and Feel is applied, you can't drag diagram tabs to move them sideways.

2. Application Installation and Start-up

2.1. Installing Astah

To start installing the Astah, double-click on the installer.

2.2. Astah Start-up

i) Start-up from the Start Menu or the Astah Short Cut

Select Astah in the Start-up Menu or double-click on the Astah icon on the Desktop.

ii) Start-up by double-clicking on a Astah file

Double-click on an Astah file.

Note) Astah automatically checks software update information through HTTP access when starts launching.

2.3. Astah Model Version

Astah Model version can be referred by [Help]-[Version Information] in Main Menu. .asta files are upward compatible. If the file has been Displayed with a newer version, it cannot be opened with an older version.

To find out which model version of Astah was used for your .asta file, open the .asta file and then go to the project view of the project.

3. Using Project Files

3.1..asta File

Astah Project files contain an extension as ".asta" in name.

3.2.Opening Existing Project Files

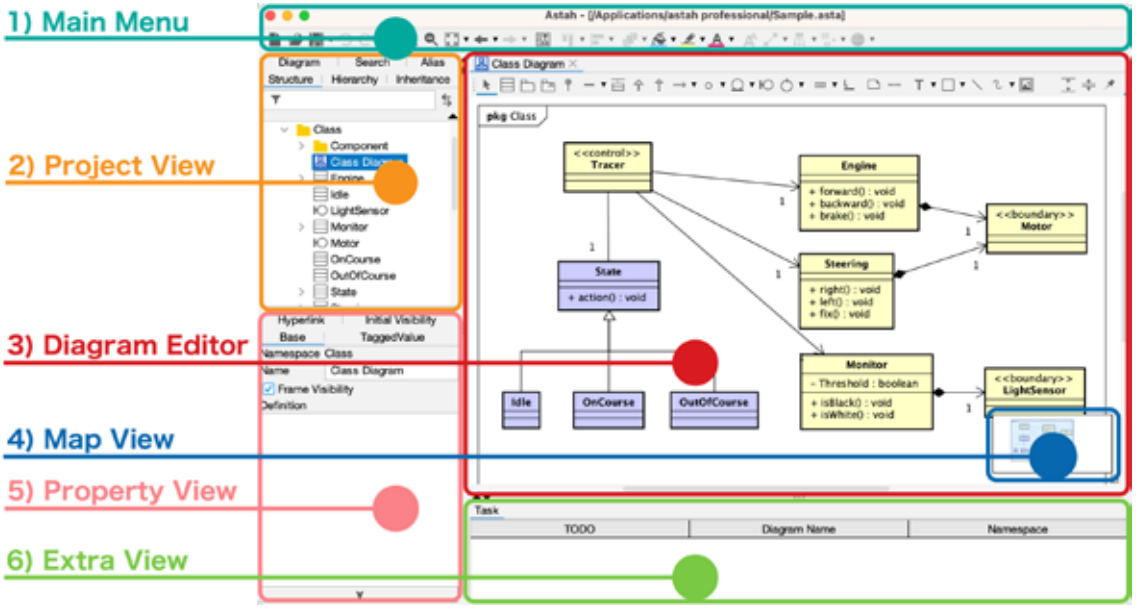
a. Using [File]-[Open] in the Main Menu
b. Using [Open a file] on the Tool bar
c. Select an existing Project from [File] in the Main menu
d. Drag a *.asta file to the Astah icon on the desktop
e. Drag a *.asta file to the Astah window

4. Basic Concepts

This chapter describes the fundamental components and the features of Astah.

4.1. Fundamental Components

The window consists of “Management View”, “Project View”, “Property View”, and “Diagram Editor”.



4.1.1. Management View

The Management View is used for the basic operations of Astah. The Main Menu includes functions related to the whole Project, such as file operation and Displaying. Frequently used functions can also be found on the Tool Bar.

4.1.2. Project View

The Project View provides an overview of the whole Project. Tabs at the top can be used to switch the Project View between “Structure Tree”, “Hierarchy Tree”, “Inheritance Tree”, “Map”, “Diagram”, “Search”, and “Alias” views.

(a) Structure Tree

The Structure Tree View displays Models in a tree structure. Various operations can be carried out by using the Pop-up Menu of Model Elements.

(b) Hierarchy Tree

The Hierarchy Tree View displays the hierarchy of Statemachine, Activity and Data Flow Diagrams.

(c) Inheritance Tree

The Inheritance Tree View displays Models in a tree structure based on the inheritance relationships between Classes.

(d) Diagram

The Diagram View provides a list of all Diagrams included in the Project.
Diagrams can be opened in the Diagram Editor by selecting them in this view.

(e) Search

This view is used to search for Model Elements in the Project that is included in the names of Model Elements and invalid hyperlinks.

(f) Alias

This view is used to display aliases to Model Elements in the Project.

4.1.3. Diagram Editor

The Diagram Editor is used to view Diagrams and Models. Multiple Diagrams can be opened in the Diagram Editor. Use Tabs on the top to switch between Diagrams.

4.1.4. Map View

This View shows your whole diagram that is currently opened in the Diagram Editor. The blue rectangle is an area that is appearing on the Diagram Editor. So just by moving and resizing this yellow rectangle, you can get the part of diagram you want to show on the Diagram Editor.

4.1.5. Property View

The Property View is used to display the properties of Model Elements.
Select the target Model in the Structure Tree or in the Diagram Editor for the same project.

4.1.6. Extra View

Not available in Viewer.
Use only in Professional or UML editions.

4.Basic Concepts

4.2.Basic Concepts

4.2.1.Model and Diagram Element

Elements in Projects, such as Classes or UseCases, are called Model or Diagram Element. Model is an element that exists in the project, in contrast, Diagram Element is a notation that represents the Model in diagrams.

A Model can be represented in multiple diagrams as Diagram Elements and each Diagram Element can have different color or size.

5. Main Menu

The Menu items in the Main Menu are [File], [Display], [Diagram], [Alignment], [View], [Tool], [Window] and [Help]. Each Menu item is briefly explained below.

5.1. File

[File] is used for general Input functions.

5.1.1. Open

Open an existing Project.

5.1.2. Close

Close a Project.

5.1.3. Exit [Ctrl+Q]

Exit Astah.

5.1.4. Recently used Projects

The 5 most recently used Projects are listed.

5.2. View

Set up and change the view of the Diagram Editor or the Structure Tree.

5.2.1. Zoom [Ctrl+1]

Restore the default Zoom rate (100%) of the Diagram displayed in the Diagram Editor.

5.2.2. Zoom In [Ctrl+[]

Enlarge the Diagram displayed in the Diagram Editor.

5.2.3. Zoom Out [Ctrl+]]

Shrink the Diagram displayed in the Diagram Editor.

5.2.4. Fit to Window

Make the diagram to fit in the window of the Diagram Editor.

(1) Window [Ctrl+0]
Make the whole diagram fit in the Diagram Editor.

(2) Window Width
Adjust the width of diagram to fit in the width of the Diagram Editor.

(3) Window Height
Adjust the height of diagram to fit in the height of the Diagram Editor.

5.2.5. Back to Previous Editor [Alt+Left]

See the previous Diagram Editor.

5.2.6. Forward to Next Editor [Alt+Right]

See the next Diagram Editor.

5.2.7. Show/Hide Project View

Show or hide the Tree and View included in Project View.

a. Project View [Ctrl+Shift＋P]

b. Structure Tree [Ctrl+Shift＋S]

c. Inheritance Tree [Ctrl+Shift＋G]

d. Map View [Ctrl+Shift＋M]

e. Diagram View [Ctrl+Shift＋D]

f. Search View [Ctrl+Shift＋H]

5.2.8. Look & Feel

Change the Look & Feel (the appearance and usability). This function only supports Look & Feel Styles that are supported by the running environment.

5.2.9. Alias

Select names to display in Diagram Elements on the Diagram Editor.

a. Name

Display names in the Diagram Elements.

b. Alias1 (or Name)

Display Alias1s in the Diagram Elements. If Alias1 is not set, the original name is used.

c. Alias2 (or Name)

Display Alias2s in the Diagram Elements. If Alias2 is not set, the original name is used.

5.3. Tool

The Tool Menu is used to set up the System Properties in “System Properties”.

5.3.1. Search

Search on Diagram

-> Please refer to Search Bar for details.

5.3.2. System Properties

Set up the System Properties of Astah.

-> Please refer to System Properties for details.

5.4. Window

[Window] is used to organize currently opened windows in Diagram Editor.

5.4.1. Close

Close the window that is currently Displayed.

5.4.2. Close Left Tabs

Close all windows in the left side of currently Displayed window.

5.4.3. Close Right Tabs

Close all windows in the right side of currently Displayed window.

5.4.4. Close Others

Close all windows except one that is currently Displayed.

5.4.5. Close All

Close all windows.

5.4.6. Horizontal Alignment

Align all windows horizontally in Diagram Editor.

5.4.7. Vertical Alignment

Align all windows vertically in Diagram Editor.

5.4.8. Tiled Alignment

Align all windows in square shapes horizontally and vertically.

5.5. Help

[Help] is used to display

- “Astah Reference Manual”
- “Bug Information”

5.Main Menu

- “Software Update Information”
- “Version Information”

6. Tool Bar

Frequently used commands from the Main Menu are listed as buttons on the Tool Bar. These buttons are called “Tool Buttons”.

(1)		[Open a file] Open an existing Project.
		Cancel the most recent [Undo] command.
(2)		[Zoom to Default] Display the Diagram in the Diagram Editor by default (100%).
(3)		[Zoom in current Diagram Editor] Zoom in a Diagram in the Diagram Editor.
(4)		[Zoom out current Diagram Editor] Zoom out a Diagram in the Diagram Editor.
(5)		[Window], [Window Width], [Window Height] Scroll/Zoom to fit the whole Diagram in the size of the Diagram Editor.
(6)		[Back to Previous Editor] Display the previous Editor.
(7)		[Forward to Next Editor] Display the next Editor.
(8)		[Show/Hide Project View] Show/Hide Project View.

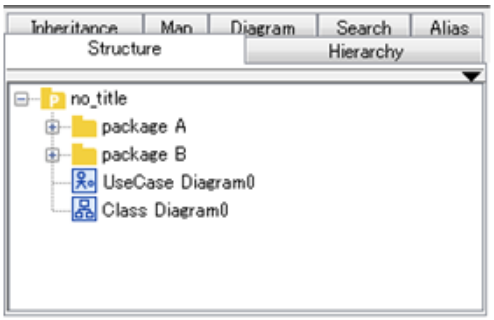
7.Structure Tree

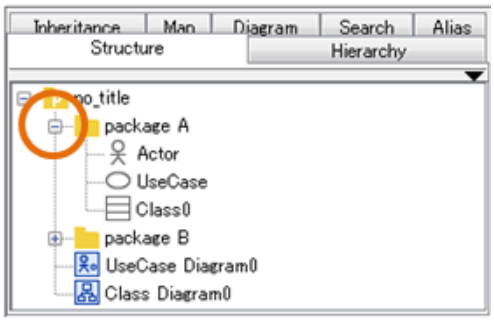
7. Structure Tree

Diagrams/Models can be controlled using the [Structure Tree] in the “Project View”.

7.1. Opening Nodes of the Structure Tree

Model Elements with child elements, such as Packages or Classes, are depicted as Nodes.





7.2. Opening Diagrams

7.2.1. Open a Diagram by selecting it

Double-click on the target Diagram or right-click on the target Diagram and select [Open Diagram].

7.2.2. Open a Diagram by selecting it under Packages

1. Right-click on the target Package (or Project) and select [Open Diagram]
2. All the Diagrams under the Package are listed
3. Select a Diagram to open from the list

7.2.3. Open all the Diagrams under a Package

Right-click on the target Package (or Project) and select [Open All Diagrams]

7.2.4. Open a Diagram from Thumbnails

1. Right-click on the target Package (or Project) and select [Open Diagram Thumbnails]
2. All the Diagrams under the Package are listed
3. Select a Diagram to open from the list

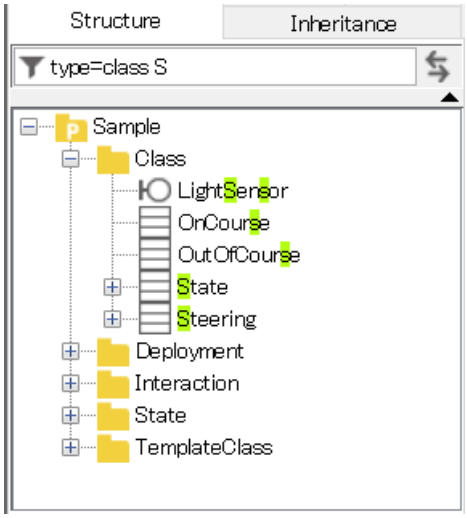
7.3. Filter

Pressing Enter key, only the models that partially match the displayed string are visible.

7.Structure Tree

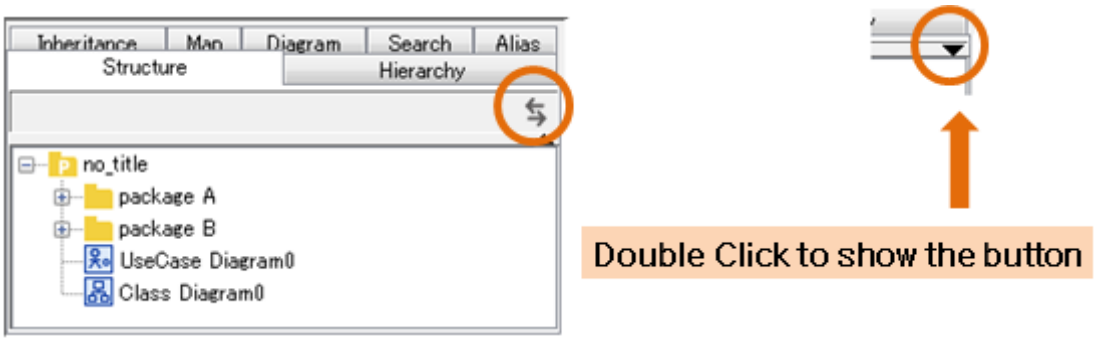
With type option, you can limit the target to classes, packages, ER models, or diagrams.

Usage: [type=(class | package | er | diagram)] [<filtering-word>]



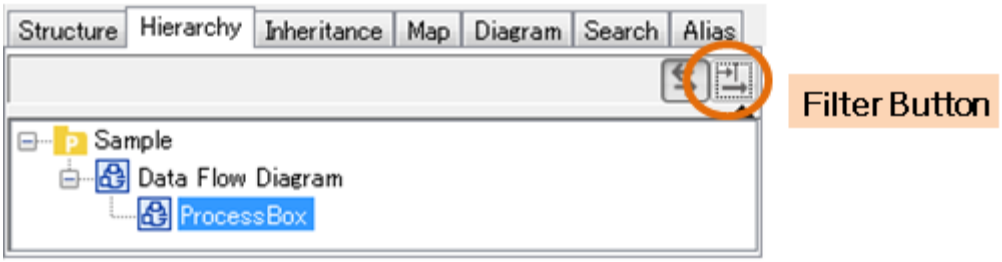
7.4. Synchronize with Diagram Editor

Synchronize a selection of a Diagram or Diagram Elements on Diagram Editor with Structure Tree.



8. Hierarchy Tree

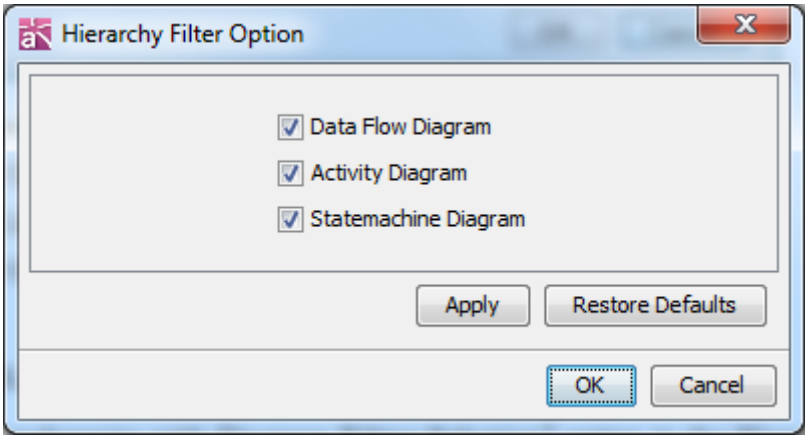
Hierarchy Tree displays the hierarchy of Statemachine, Activity and Data Flow Diagrams.



8.1. Hierarchy Tree Functions

8.1.1. Filtering Aliases

To set the Hierarchy Tree options, click [Filter] button in the Hierarchy Tree tab.



The Hierarchy Filter Option dialog is used to set diagrams.

(1) Data Flow Diagram

(2) Activity Diagram

(3) Statemachine Diagram

8.1.2. Selecting Hierarchy Tree

[Synchronize with Diagram Editor Selection] option in the Hierarchy tab can be used to select models in the Hierarchy Tree when the Diagram Elements are selected.

9. Diagram (List)

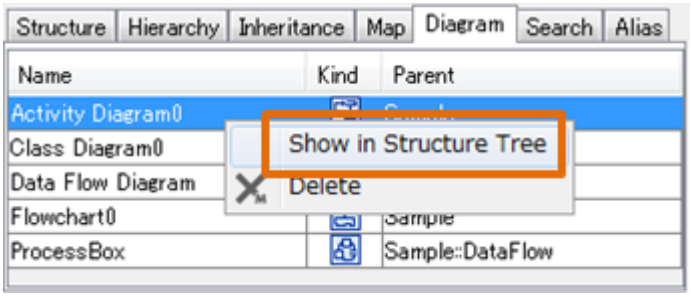
In [Diagram], all diagrams in the Project are listed.

9.1. Opening Diagrams

To open a diagram, double-click on the target diagram.

9.2. Jumping to Models on the Structure Tree

You can jump to where the diagram is in the Structure Tree by right-clicking on the diagram and selecting [Show in Structure Tree] from its Pop-up menu.



10. Search

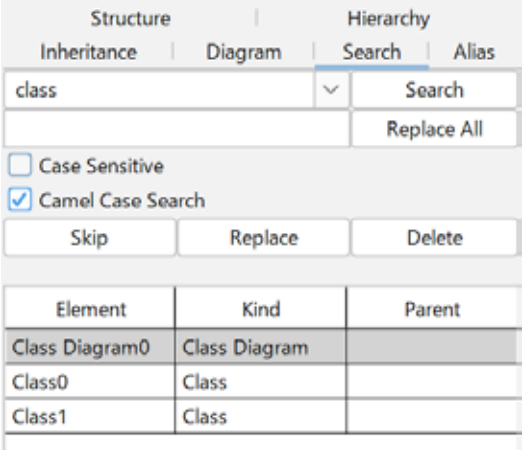
To search model elements or hyperlinks in the Project and replace strings contained in the names by using [Search] in the “Project View”.
To search model elements in the Diagram with strings, use the [Search Bar] in the Diagram Editor.

10.1.[Search] Tab

In this tab, you can search model elements or hyperlinks in the Project and replace strings contained in the names.

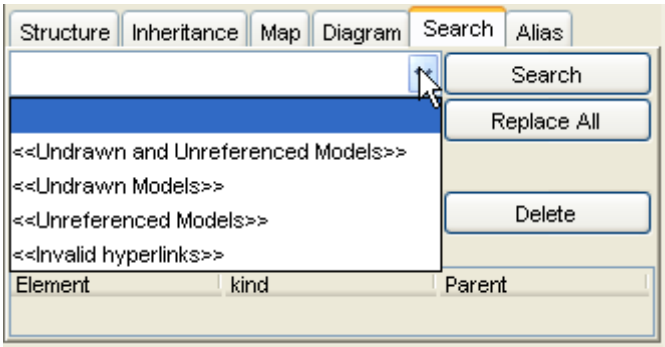
10.1.1.Search by Strings

Enter key strings that are included in the name of the target model element and click [Search].
To distinguish between Capital or non-capital letters, check [Case Sensitive].
To do Camel Case search, check [Camel Case Search].



10.1.2.Additional Search Options

The following search options can be selected from the combobox.



10.Search

(1) **<<Undrawn and Unreferenced Models>>**

Search for the Models that are not drawn in Diagrams and that are not referred by other Diagram Elements.

(2) **<<Undrawn Models>>**

Search for the Models that are not drawn in Diagrams.

(3) **<<Unreferenced Models>>**

Search for the Models that are referred by other Diagram Elements.

(4) **<<Invalid Hyperlinks>>**

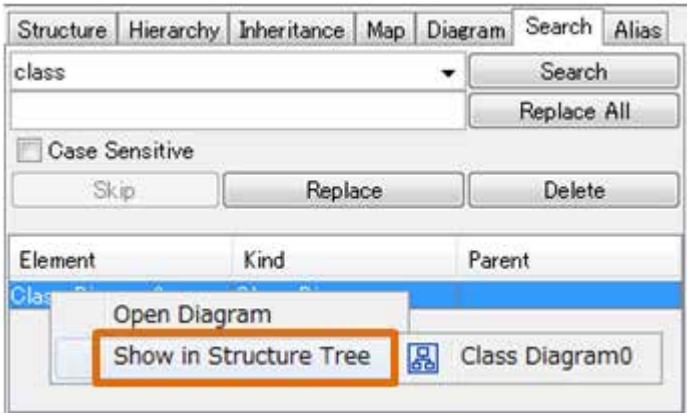
Search for the disabled hyperlinks.

10.1.3. Jumping to Diagram Elements

Right-click on the search results and select [Open Diagrams].

10.1.4. Jumping to Models on the Structure Tree

Right-click on the target search result and selecting [Show in Structure Tree]. And, select a Diagram from the list.



10.2. Search Bar

You can directly search Diagram Models on the Diagram by typing texts. Press down [Ctrl + F] or select [Display] – [Search on Diagram] from Main Menu after you open the Diagram(*) you want to search in. As a search result, the text includes the keyword will be highlighted. (*) Except UseCase Description, CRUD and Requirement Table.

10.2.1. Search Box

Enter Text you want to search for.

10.Search

- [x]: Close the Search bar
- [Next] button: Move to next result (Shortcut key: Enter key)
- [Previous] button: Move to previous result (Shortcut key: Enter + Shift key)
- [Option] button: Open the option dialog

  Case Sensitive Default: OFF

  Camel Case Search Default: OFF

  Include Folded Topics (Mind Map) Default: OFF

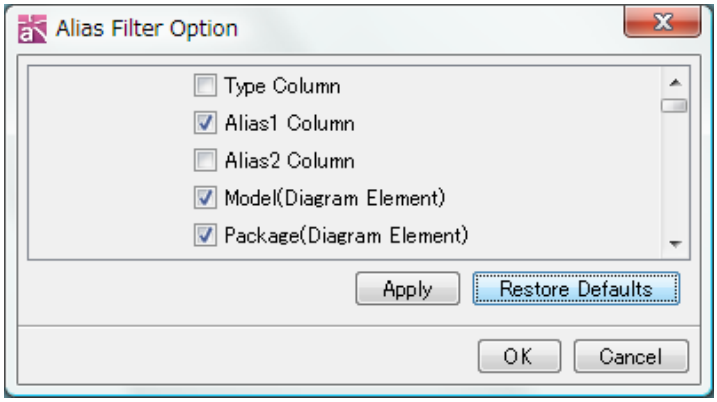
11. Alias Function

Aliases can be display by using [Alias] in the “Project View”.

11.1. Displaying Aliases

11.1.1. Filtering Aliases

To set the Alias options, click [Filter] button in the right top of the Alias tab.



The Alias Filter Option dialog is used to set columns and models.

1) Type Column
2) Alias1 Column
3) Alias2 Column
4) Model (Diagram Element)
5) Package (Diagram Element)
6) SubSystem (Diagram Element)
7) Diagram
8) Class
9) Attribute
10) Operation
11) Parameter
12) Template Parameter
13) Association
14) Association End
15) Qualifier
16) Generalization
17) Usage
18) Realization
19) Dependency
20) InstanceSpecification

11.Alias Function

21) Link
22) Link End
23) UseCase
24) Extend
25) Include
26) Extension Point
27) Entity
28) Domain
29) Primary Key
30) Other Key
31) External Entity
32) Data Store
33) Requirement
34) TestCase
35) Note
36) Text

11.1.2. Selecting Alias Tree

[Synchronize with Diagram Editor Selection] option in the Alias tab can be used to select models in the Alias Tree when the Diagram Elements are selected.

11.2. Displaying Aliases

To display Aliases, select the following menu on the Main Menu in [View] - [Alias].

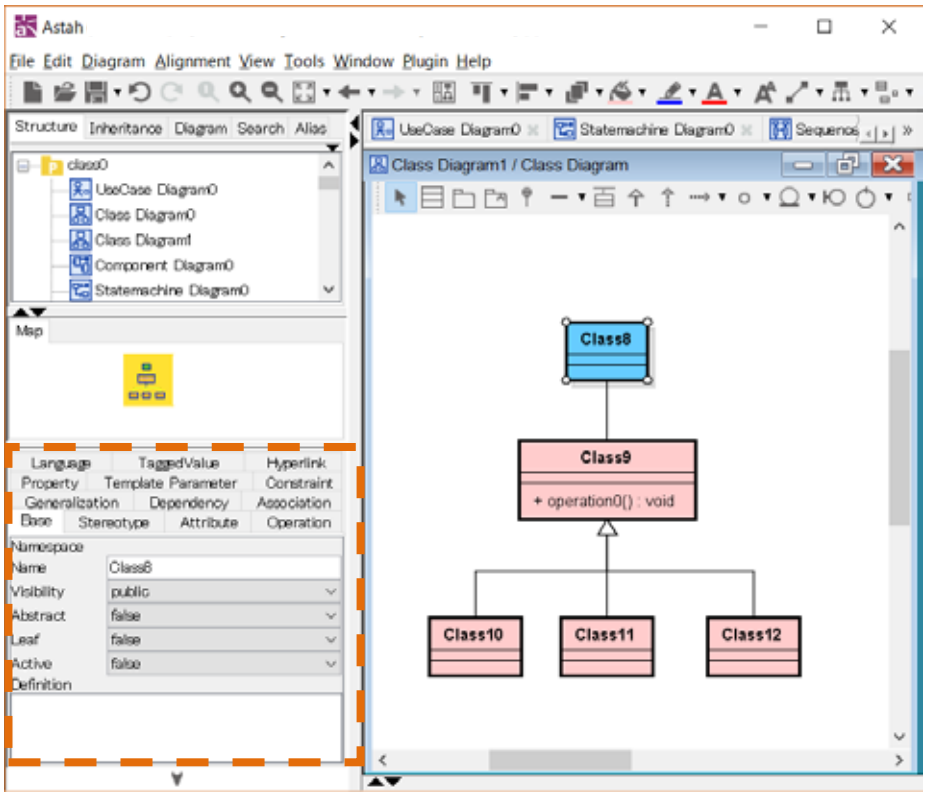
1) Name 2) Alias1 (or Name) 3) Alias2 (or Name)

12. Property View

The Property View displays properties of the selected Model Element or Diagram.

12.1. Displaying Properties

To display the properties of a Model Element or a Diagram, select the target Model Element or the Diagram Element in the Project View or the Diagram Editor.

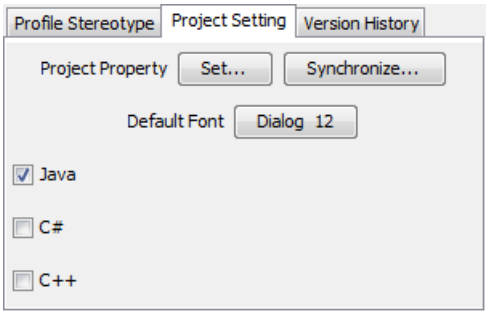


12.2. Structure of Properties

Several Tabs are displayed in the Property View. The structure depends on each Model Element or Diagram. For example, the Property View for a Class contains the following 10 Tabs: [Base], [Stereotype], [Attribute], [Operation], [Generalization], [Dependency], [Association], [Property], [Template Parameter], [Constraint], [Language], [TaggedValue] and [Hyperlink].

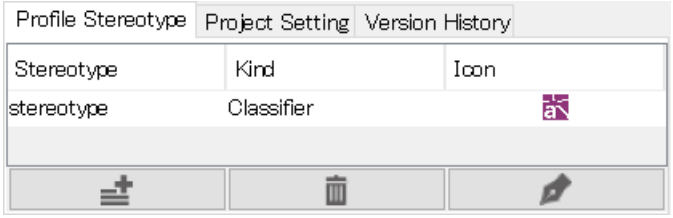
12.3. Project File Properties

12.3.1. [Project Setting] Tab



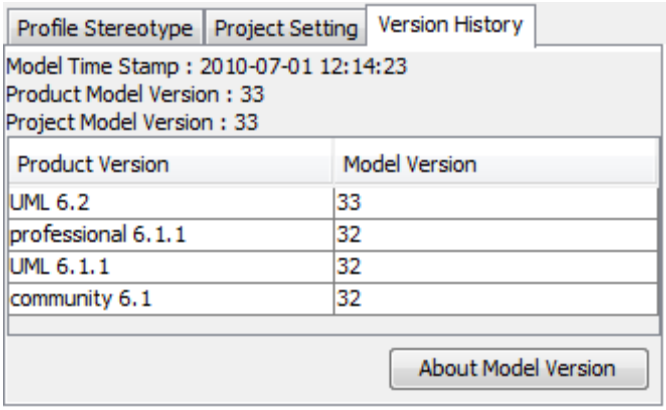
Element	Function
Default Font	Display Default Font

12.3.2. [Profile Stereotype] Tab



Element	Function
Stereotype	Display Stereotype
Kind	Display the kind whether it is a Classifier or an Action
Icon	Display customized Icon

12.3.3. [Version History] Tab



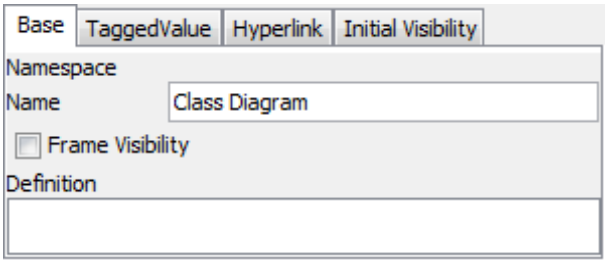
Element	Function

12.Property View

Model Time Stamp	Display the model time stamp.
Product Model Version	Display the model version of Astah you currently use.
Project Model Version	Display the model version of the current project.
Product Version	Display the all product versions that the current file has been modified with.
Model Version	Display Model Versions of the Product Versions
About Model Version	Access to Astah Webpage about Model Version

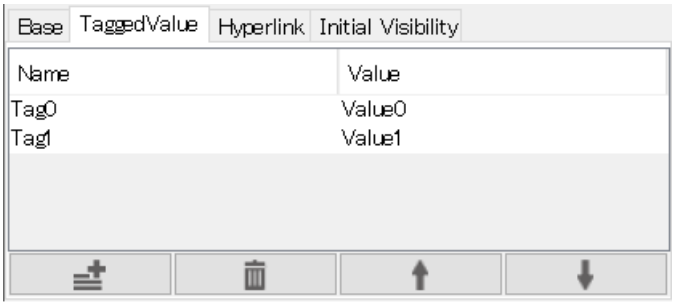
12.4.Class Diagram Properties

12.4.1.[Base] Tab



Element	Function
Namespace	Display the Namespace
Name	Display the Class Diagram Name
Frame Visibility	Display whether the Frame is displayed
Definition	Display the Definition

12.4.2.[TaggedValue] Tab



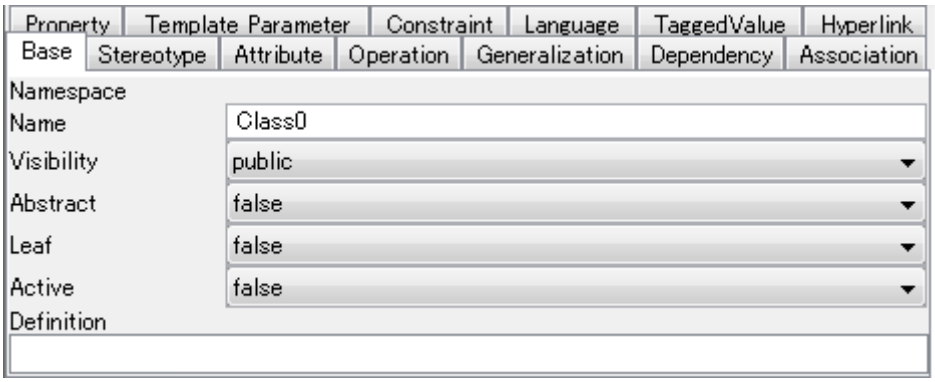
Element	Function
Name	Display the TaggedValue Name
Value	Display the Tagged Value

12.4.3.[Hyperlink] Tab

Element	Function
Name	Display the Hyperlink name
Path	Display the Path of the Hyperlink
Comment	Display comment
Open Hyperlink Button	Open selected Hyperlink

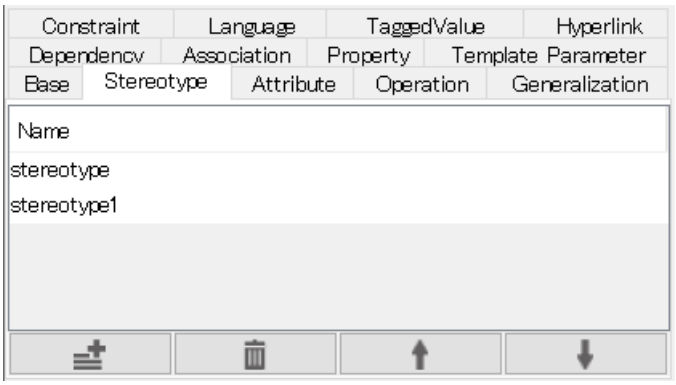
12.5.Class Properties

12.5.1.[Base] Tab



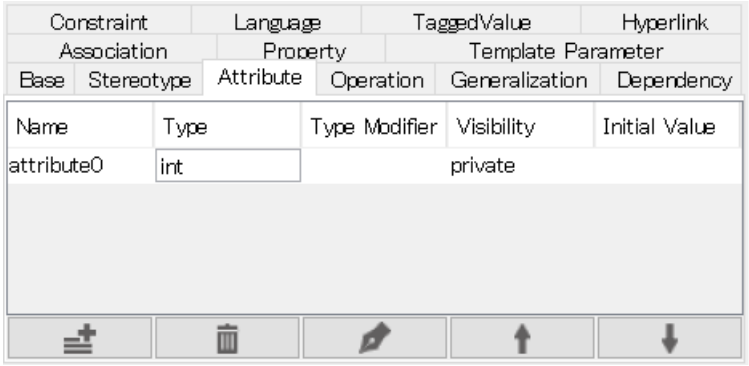
Element	Function
Namespace	Display the name of model which the Class belongs to
Name	Display the Class Name
Visibility	Display the visibility, “public”, “protected”, “package” or “private”
Abstract	Display whether the target is an abstract Class or not
Leaf	Display whether the target is a leaf Class or not
Active	Display whether the target is active or not
Definition	Display the Definition.

12.5.2.[Stereotype] Tab



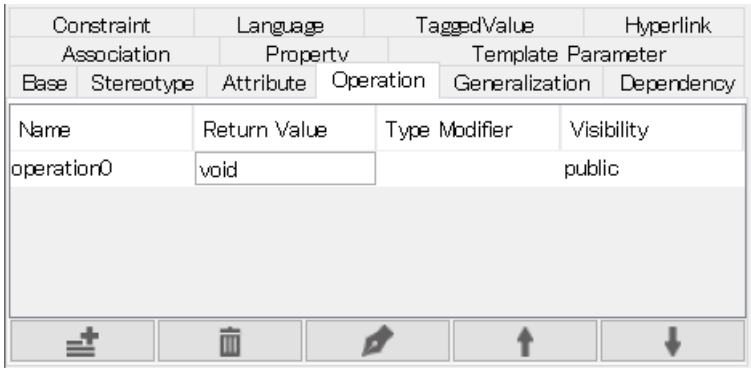
Element	Function
Name	Display the Stereotype Name

12.5.3.[Attribute] Tab



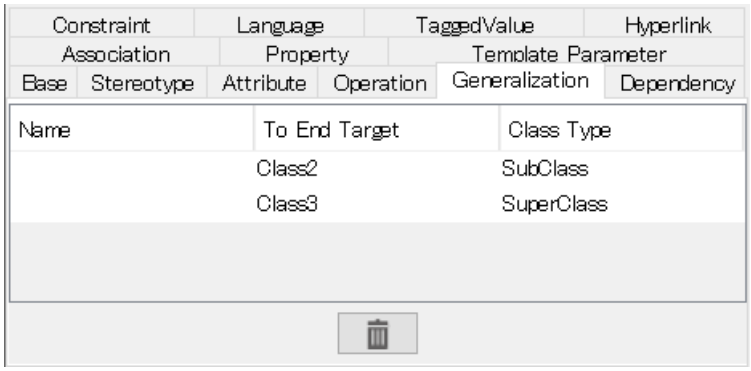
Element	Function
Name	Display the Attribute Name
Type	Display the type.
Type Modifier	Display Type Modifier. (*, **, &)
Visibility	Display the visibility, “public”, “protected”, “package” or “private”
Initial Value	Display the initial value for the Attribute

12.5.4.[Operation] Tab



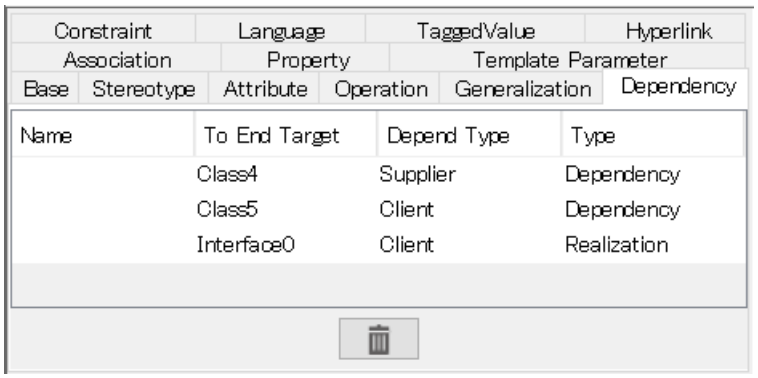
Element	Function
Name	Display the Operation Name
Return Value	Display the return value type
Type Modifier	Display Type Modifier (*, **, &)
Visibility	Display the visibility, “public”, “protected”, “package” or “private”

12.5.5.[Generalization] Tab



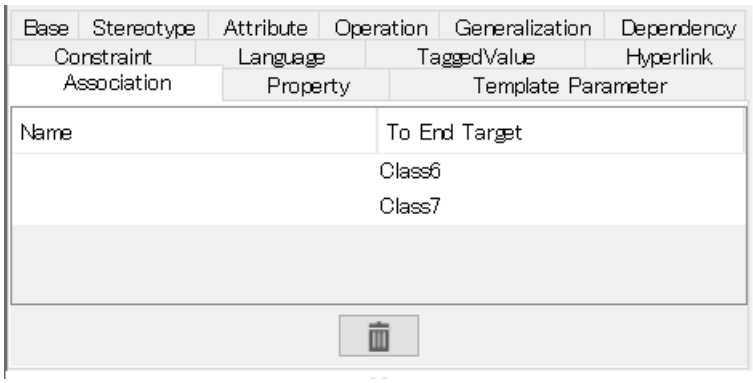
Element	Function
Name	Display the Generalization Name
To End Target	Display the target Class Name of the Generalization
Class Type	Display whether it is a Superclass or a Subclass

12.5.6.[Dependency] Tab



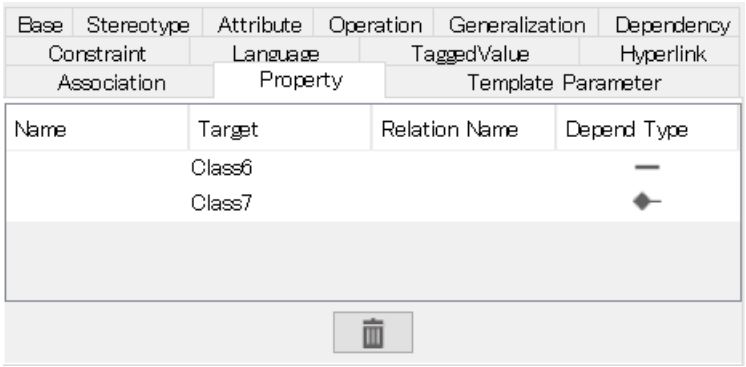
Element	Function
Name	Display the Dependency Name
To End Target	Display the target Class Name of the Dependency
Depend Type	Display the type whether it is a Supplier or a Client
Type	Display the dependency type

12.5.7.[Association] Tab



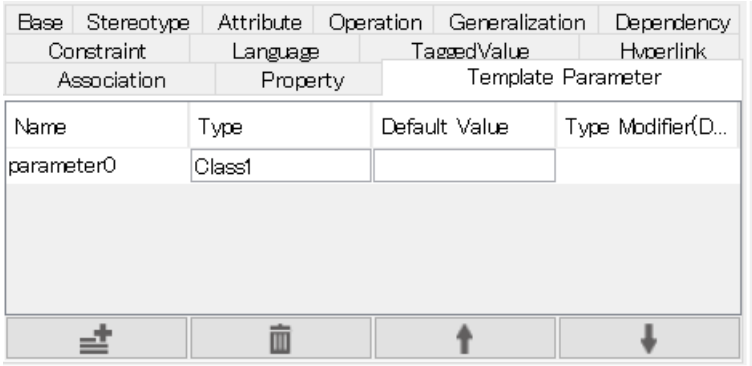
Element	Function
Name	Display the Association Name
To End Class	Display the target Class Name of the Association

12.5.8.[Property] Tab



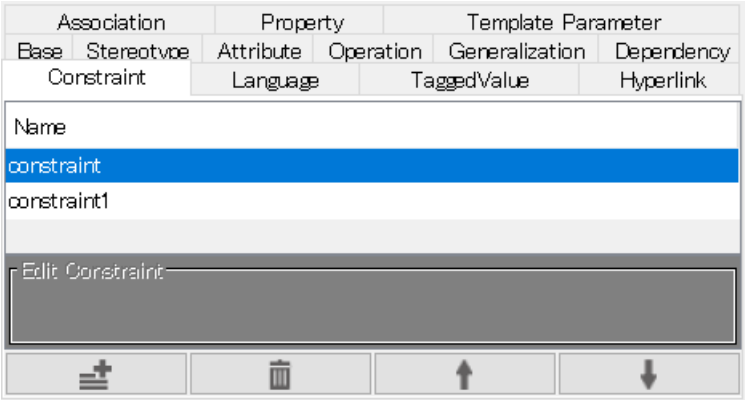
Element	Function
Name	Display Property Name
Target	Display the target Class Name
Relation Name	Display the Relation Name
Depend Type	Display the Type of Association

12.5.9.[Template Parameter] Tab



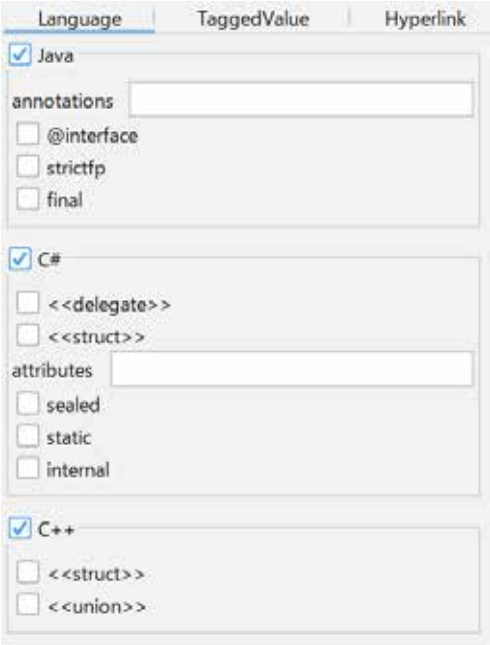
Element	Function
Name	Display the Template Parameter Name
Type	Display the type.
Default value	Display the default value for Template Parameter
Type Modifier (Default Value)	Display Type Modifier of Default Value. (*, **, &)

12.5.10.[Constraint] Tab



Element	Function
Name	Display the Constraint Name
Display Constraint	Display the Constraint.

12.5.11.[Language] Tab



Element	Function
Java	
annotations	Display annotations
@interface	Display whether @interface is Displayed to the target Class
strictfp	Display whether the target is a strictfp Class
final	Display whether the target is a final Class

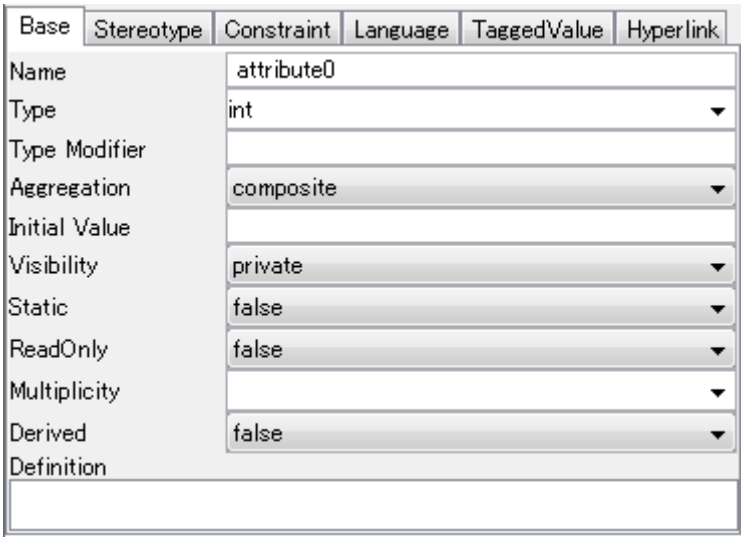
12.Property View

C#	
<<delegate>>	Display whether the target is a <<delegate>> Class
<<struct>>	Display whether the target is a <<struct>> Class
attributes	Display attributes
sealed	Display whether the target is a sealed Class
static	Display whether the target is a static Class
internal	Display whether the target is an internal Class
C++	
<<struct>>	Display whether the target is a <<struct>> Class
<<union>>	Display whether the target is a <<union>> Class

-> Please refer to Class Diagram Properties for [TaggedValue] tab and [Hyperlink] tab.

12.6.Attribute Properties (Class Diagram)

12.6.1.[Base] Tab



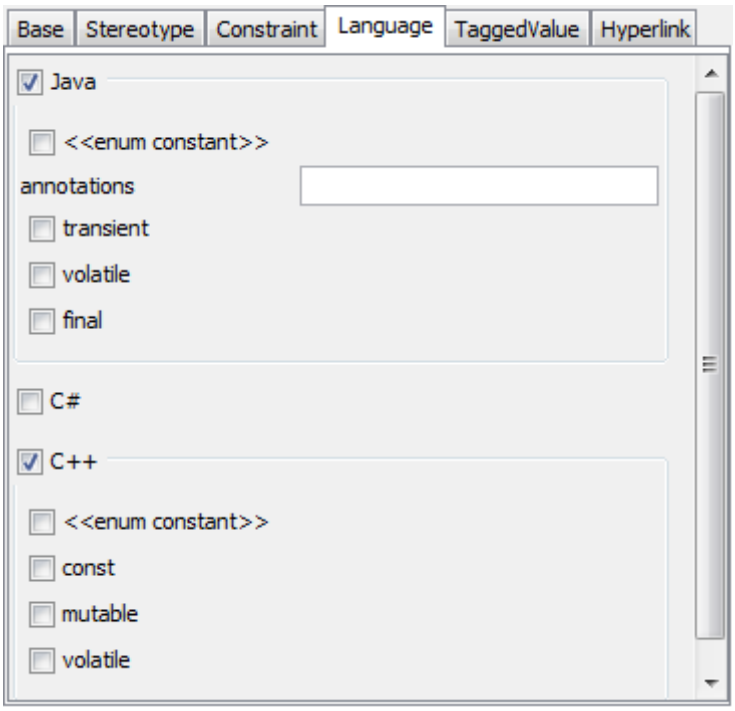
Element	Function
Name	Display the Attribute Name
Type	Display the type.
Type Modifier	Display Type Modifier. (*, **, &)
Aggregation	Display the Aggregation.
Initial Value	Display the initial value
Visibility	Display the visibility, “public”, “protected”, “package” or “private”
Static	Display whether the Attribute is static or not

12.Property View

ReadOnly	Display whether the Attribute is read-only or not
Multiplicity	Display the Multiplicity. [1], [0..1], [0..*], [*], [1..*]. Alternatively, input the value directly.
Derived	Display whether the Attribute is derived or not
Definition	Display a definition

-> Please refer to Class Properties for [Stereotype] tab.

12.6.2.[Language] Tab



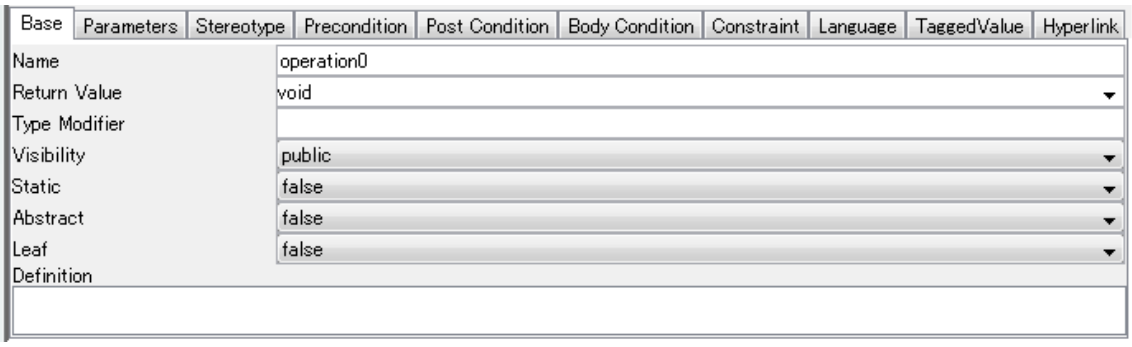
Element	Function
Java	
annotations	Display annotations
Transient	Display whether the Attribute is transient or not
Volatile	Display whether the Attribute is volatile or not
Final	Display whether the Attribute is final or not
C#	
<<property>>	Display <<property>>
<<property>>get	Display <<property>> get
<<property>>set	Display << property>> set
attributes	Display attributes
const	Display whether the Attribute is const or not

override	Display whether the Attribute is override or not
volatile	Display whether the Attribute is volatile or not
Internal	Display whether the Attribute is internal or not
Readonly	Display whether the Attribute is read-only or not
C++	Check this if you want to model in C++ to Attribute. To enable to do so, [C++] box needs to be checked on in the project property.
Const	Display whether the Attribute is const or not
mutable	Display whether the Attribute is Mutable or not
Volatile	Display whether the Attribute is volatile or not

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab, and Class Properties for [Stereotype] and [Constraint] tab.

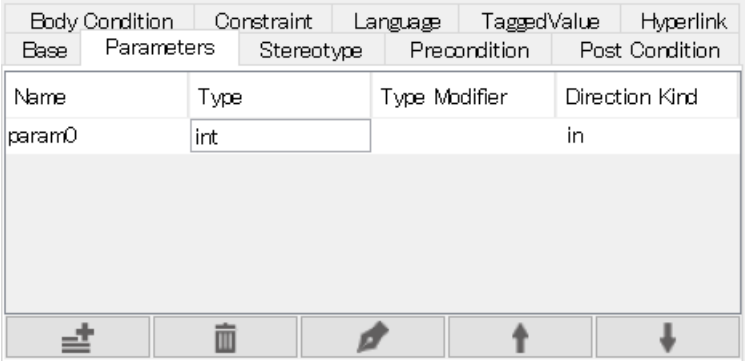
12.7.Operation Properties

12.7.1.[Base] Tab



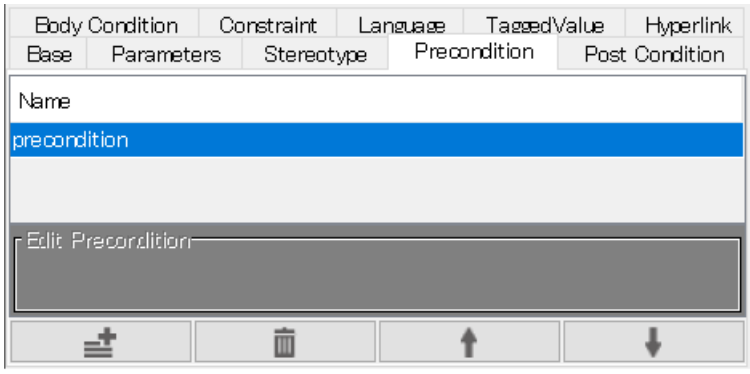
Element	Function
Name	Display the Operation Name
Return Value	Display the return value.
Type Modifier	Display Type Modifier. (*, **, &)
Visibility	Display the visibility. “public”, “protected”, “package” or “private”
Static	Display whether the Operation is static or not.
Abstract	Display whether the Operation is abstract or not
Leaf	Display whether the Operation is leaf or not
Definition	Display Definition

12.7.2.[Parameter] Tab



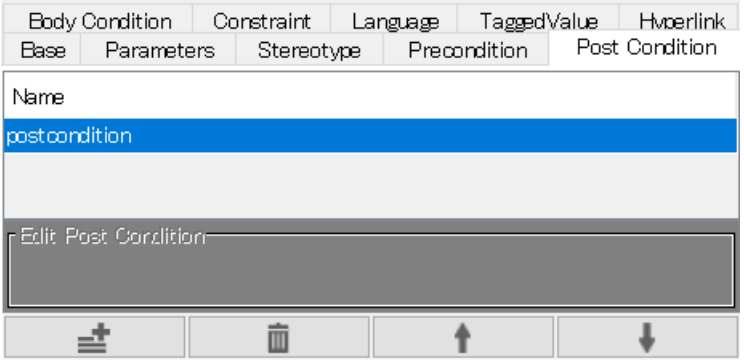
Element	Function
Name	Display the Parameter Name
Type	Display the parameter type.
Type Modifier	Display Type Modifier. (*, **, &)
Direction Kind	Display Direction Kind from in, out or inout.

12.7.3.[Precondition] Tab



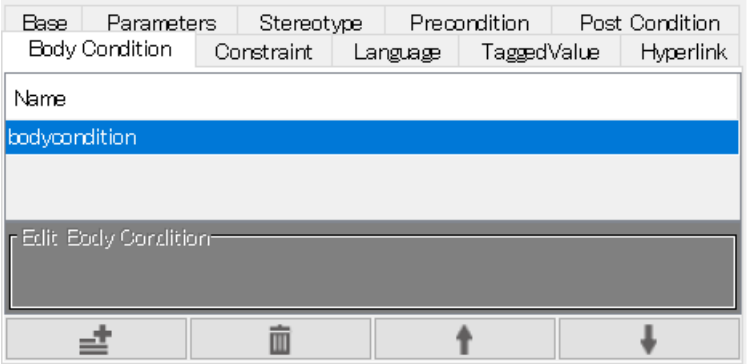
Element	Function
Name	Display Precondition Name
Display Precondition	Display the Precondition.

12.7.4.[Post Condition] Tab



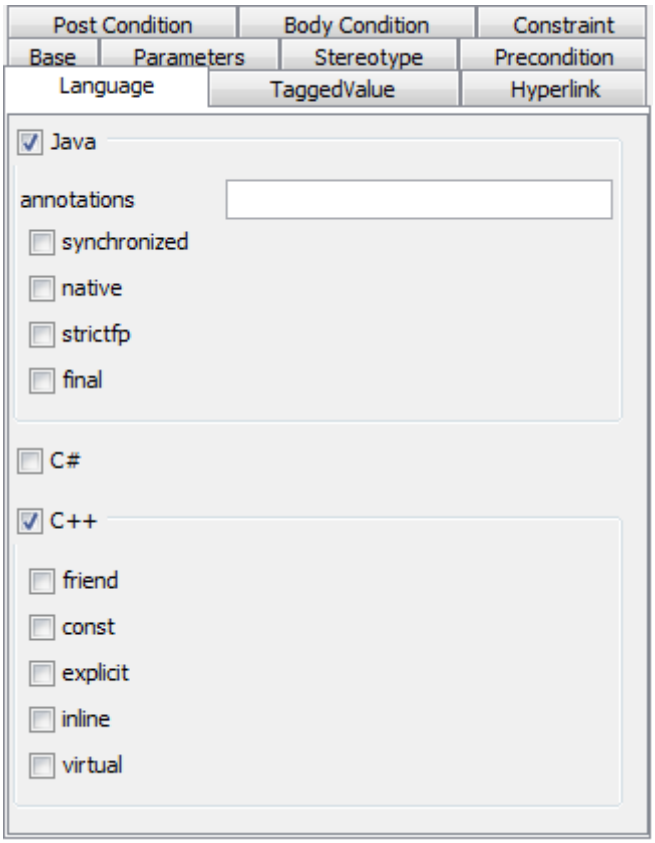
Element	Function
Name	Display the Post Condition Name
Display Post Condition	Display the Post Condition.

12.7.5.[Body Condition] Tab



Element	Function
Name	Display the Body Condition Name
Display Body Condition	Display the Body Condition Select the target Body Condition in [Name] and Display in this column.

12.7.6. [Language] Tab



Element	Function
Java	
Annotations	Display annotations
Synchronized	Display the Operation is synchronized or not
Native	Display the Operation is native or not
Strictfp	Display the Operation is strictfp or not
Final	Display the Operation is final or not
C#	
<<event>>	Display an event.
<<event>>add	Display an add event.
<<event>>remove	Display a remove event.
<<indexer>>	Display an indexer.
<<indexer>>get	Display a get indexer.
<<indexer>>set	Display a set indexer.
attributes	Display attributes.
extern	Display whether the Operation is extern or not

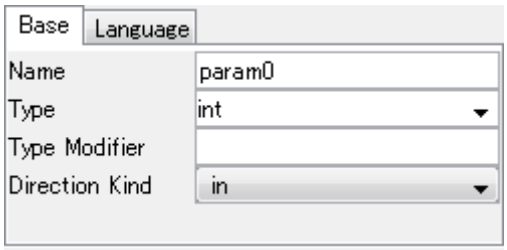
override	Display whether the Operation is override or not
sealed	Display whether the Operation is sealed or not
unsafe	Display whether the Operation is unsafe or not
virtual	Display whether the Operation is virtual or not
internal	Display whether the Operation is internal or not
Extension Method	Display whether the Operation is an extension method or not
C++	
friend	Display whether the Operation is friend or not
const	Display whether the Operation is const or not
explicit	Display whether the Operation is explicit or not
inline	Display whether the Operation is inline or not
virtual	Display whether the Operation is virtual or not

-> Please refer to Class Properties for [Stereotype] and [Constraint] tab.

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

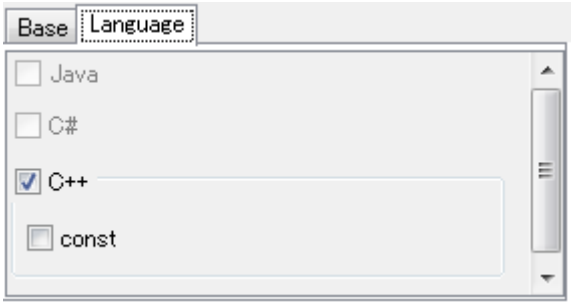
12.8. Parameter Properties

12.8.1. [Base] Tab



Element	Function
Name	Display the Parameter Name
Type	Display the Parameter Type
Type Modifier	Display the Parameter Type Modifier
Direction Kind	Display the Direction Kind

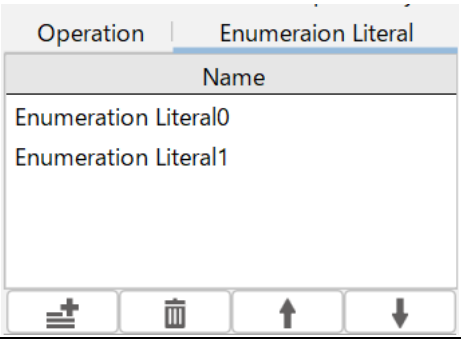
12.8.2. [Language] Tab



Element	Function
C++	
const	Display whether the Parameter is const or not

12.9. Enumeration Properties

12.9.1. [Enumeration Literal] Tab

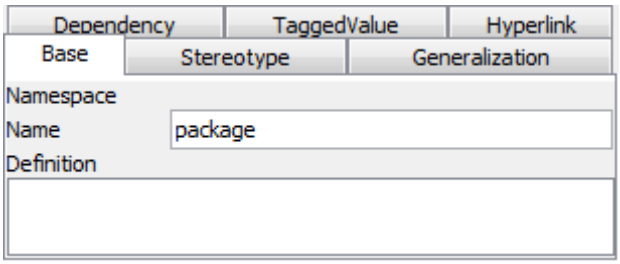


Element	Function
Name	Display the Enumeration Literal Name

Otherwise, they are the same as Class Properties.

12.10. Package Properties

12.10.1. [Base] Tab



12.Property View

Element	Function
Namespace	Display the Name of model where the Package belongs
Name	Display the Package Name
Definition	Display Definition

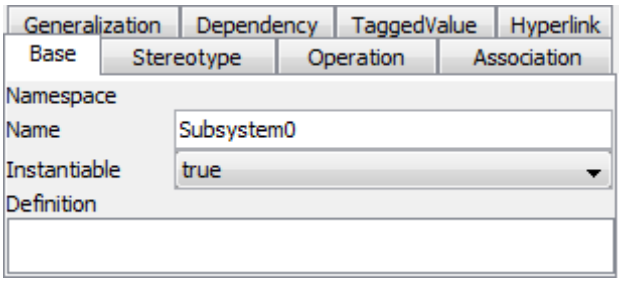
-> Please refer to Class Properties for [Stereotype], [Generalization], [Dependency], [TaggedValue] and [Hyperlink] tab.

12.11. Model Properties

The Displayable contents are the same as they are for Packages. -> See the Package Properties.

12.12. Subsystem Properties

12.12.1. [Base] Tab

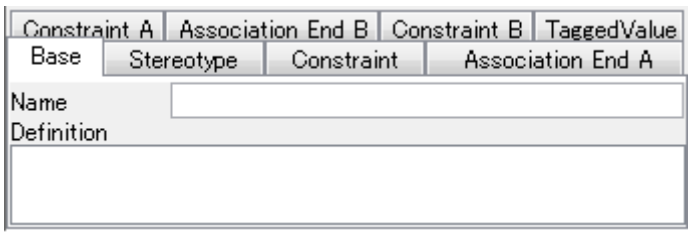


Element	Function
Namespace	Display the Name of model where the Subsystem belongs
Name	Display the Subsystem Name
Instantiable	Display whether an Instance of the Subsystem can be created or not
Definition	Display Definition

-> Please refer to Class Properties for [Stereotype], [Operation], [Association], [Generalization] and [Dependency] tab, and refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.13.Association Properties

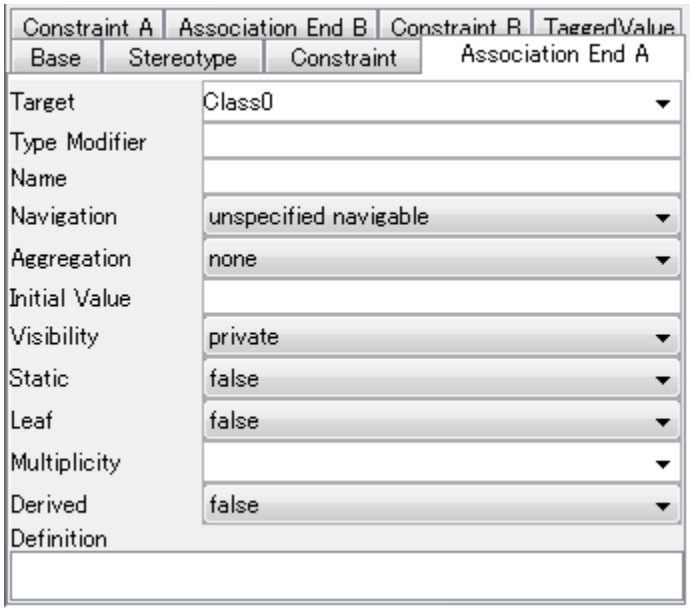
12.13.1.[Base] Tab



Element	Function
Name	Display the Association Name
Definition	Display Definition

-> Please refer to Class Properties for [Stereotype] and [Constraint] tab.

12.13.2. [Association End] Tab



Element	Function
Target	Display the target Model Element Name
Type Modifier	Display Type Modifier (*, **, &)
Name	Display the Association End Name
Navigation	Display whether the direction of Navigation is “Navigable”, “Non Navigable” or “Unspecified Navigable”
Aggregation	Display the Aggregation, “none”, “aggregate”, “composite”
Initial Value	Display the initial value

12.Property View

Visibility	Display the visibility, “public”, “protected”, “package” or “private”
Static	Display whether the Association is static or not
Leaf	Display whether the Association is leaf or not
Multiplicity	Display the Multiplicity from [1], [0..1], [0..*], [*], [1..*] or alternatively input the value.
Derived	Display whether the Association is derived or not
Definition	Display definition

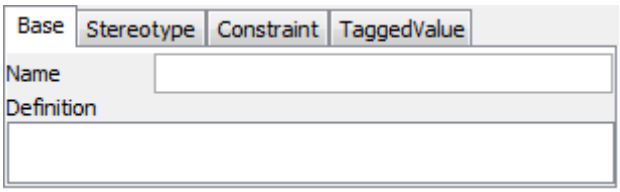
-> Please refer to Class Diagram Properties for [TaggedValue] tab.

12.13.3.[Constraint A], [Constraint B] Tab

Please refer to Class Properties for [Constraint] tab.

12.14.Generalization Properties

12.14.1.[Base] Tab



Element	Function
Name	Display the Generalization Name
Definition	Display Definition

-> Please refer to Class Properties for [Stereotype] and [Constraint] tab, and refer to Class Diagram Properties for [TaggedValue] tab.

12.15.Realization Properties

The Displayable contents are the same as they are for Generalizations.

-> See to the Generalization Properties section.

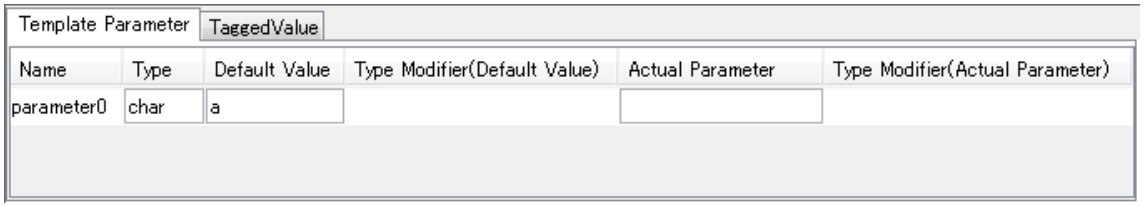
12.16.Dependency Properties

The Displayable contents are the same as they are for Generalizations.

-> See the Generalization Properties section.

12.17. TemplateBinding Properties

12.17.1. [Base] Tab

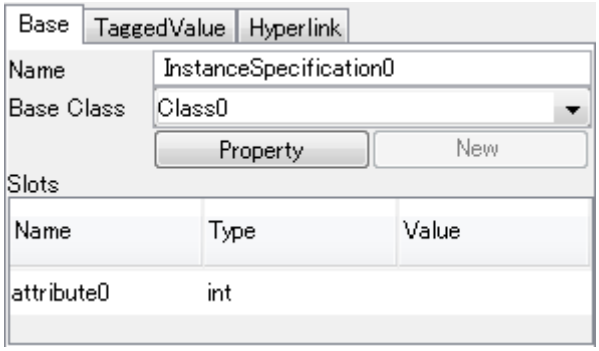


Element	Function
Name	Display the Name of Template Parameter.
Type	Display the Type of Template Parameter
Default Value	Display the Default Value of Template Parameter
Type Modifier (Default Value)	Display Type Modifier (*, **, &) for Default Value
Actual Parameter	Display the Actual Parameter.
Type Modifier (Actual Parameter)	Display Type Modifier (*, **, &) for Actual Parameter.

-> Please refer to Class Diagram Properties for [TaggedValue] tab.

12.18. Instance Specification Properties (Class Diagram)

12.18.1. [Base] Tab

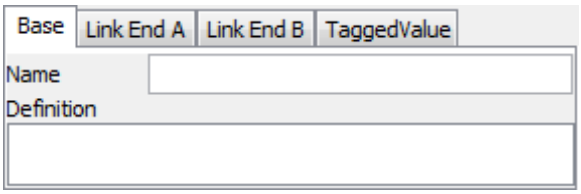


Element	Function
Name	Display the Instance Specification Name.
Base Class	Display the Base Class.
Property	Open properties of the Base Class
Slots	Display Slots (Attributes of the Base Class)

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.19.Link Properties (Class Diagram)

12.19.1.[Base] Tab

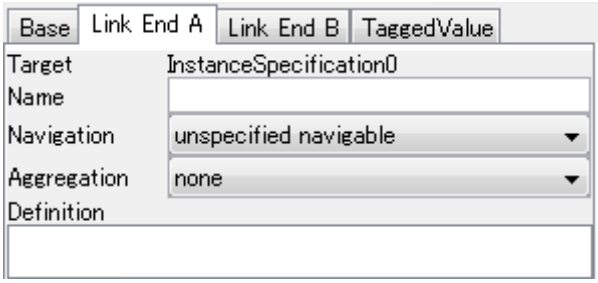


Element	Function
Name	Display the Link Name
Definition	Display Definition

-> Please refer to Class Diagram Properties for [TaggedValue] tab.

12.19.2.[Link End] Tab

Two [Link End] Tabs are displayed at each end of a Link, at the starting point and at the end point.



Element	Function
Target	Display the target Instance Specification Name
Name	Display the Link End Name
Navigation	Display whether the direction of Navigation, “Navigable”, “Non Navigable” or “Unspecified Navigable”
Aggregation	Display the Aggregation. “none”, “aggregate” or “composite”
Definition	Display Definition

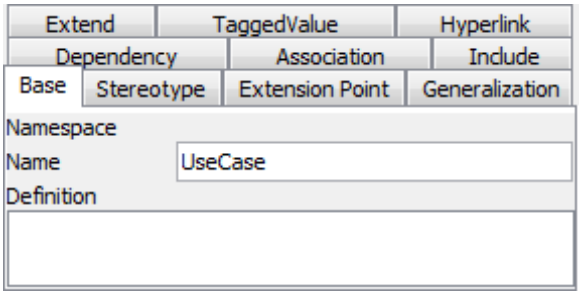
-> Please refer to Class Diagram Properties for [TaggedValue] tab.

12.20.Actor Properties

-> Please refer to the Class Properties section for more details.

12.21. UseCase Properties

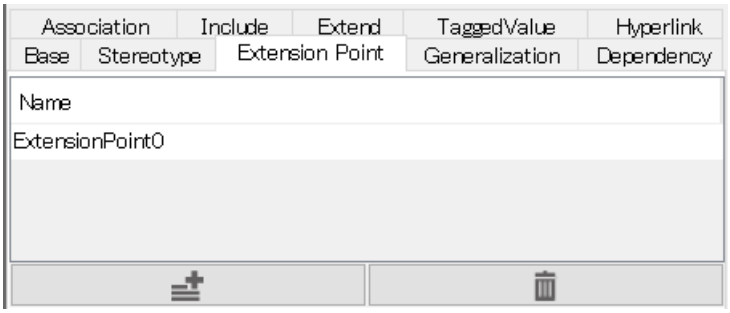
12.21.1. [Base] Tab



Element	Function
Namespace	Display the name of model where the UseCase belongs
Name	Display the UseCase Name
Definition	Display Definition

-> Please refer to Class Properties for [Stereotype] tab.

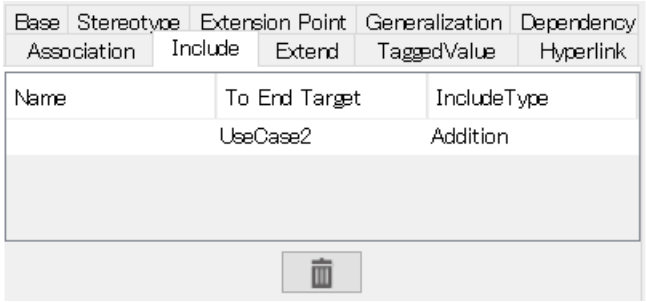
12.21.2. [Extension Point] Tab

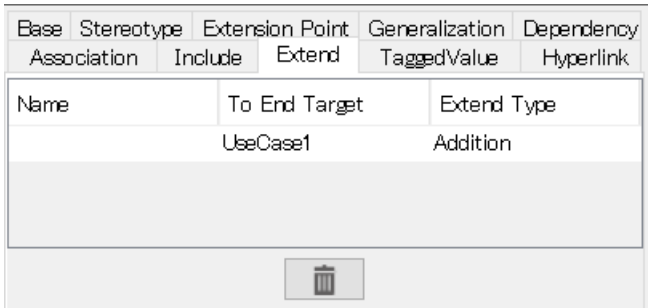


Element	Function
Name	Display the Extension Point Name.

-> Please refer to Class Properties for [Generalization], [Dependency], and [Association] tab.

12.21.3.[Include] Tab / [Extend] Tab



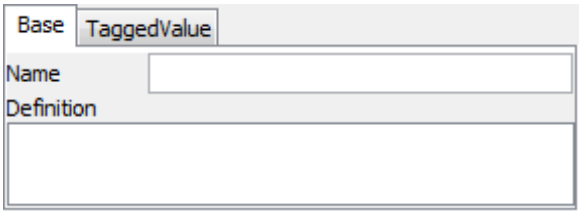


Element	Function
Name	Display the Include / Extend Name.
To End Class	Display the target Class Name of the Include / Extend.
IncludeType/ Extend Type	Display whether the Include / Extend is an “Addition” or a “Base”.

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.22.Include Properties

12.22.1.[Base] Tab



Element	Function
Name	Display the Include Name.
Definition	Display Definition.

-> Please refer to Class Diagram Properties for [TaggedValue] tab.

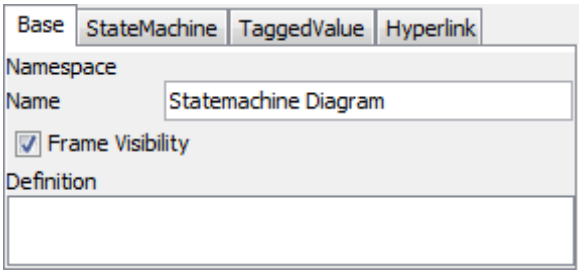
12.23. Extend Properties

The Displayable contents are the same as they are for Includes.

-> Please refer to the Include Properties section for more details.

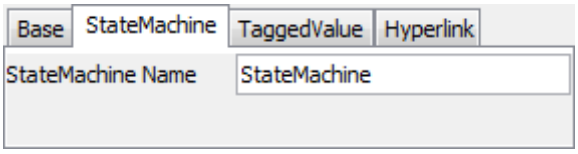
12.24. Statemachine Diagram Properties

12.24.1. [Base] Tab



Element	Function
Namespace	Display the namespace where the Statemachine belongs
Name	Display the Statemachine Diagram Name
Frame Visibility	Display Frame Visibility
Definition	Display Definition

12.24.2. [StateMachine] Tab

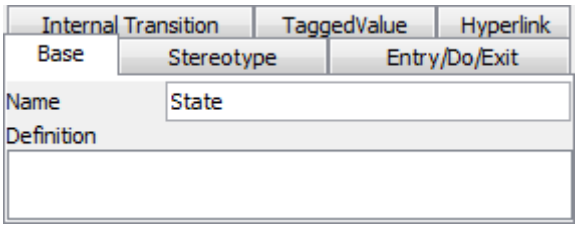


Element	Function
StateMachine Name	Display the StateMachine Name.

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.25. State Properties

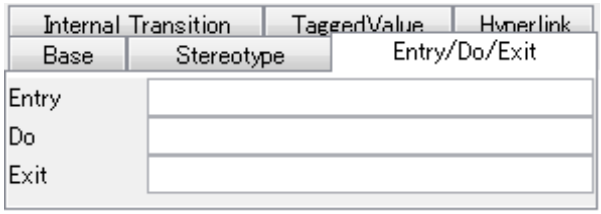
12.25.1. [Base] Tab



Element	Function
Name	Display the State Name.
Definition	Display the Definition.

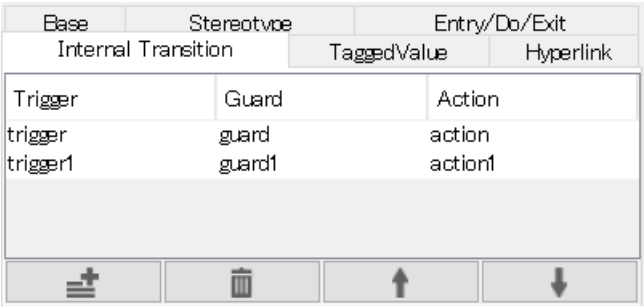
-> Please refer to Class Properties for [Stereotype] tab.

12.25.2. [Entry/Do/Exit] Tab



Element	Function
Entry	Display the Entry action.
Do	Display the Do activity.
Exit	Display the Exit action.

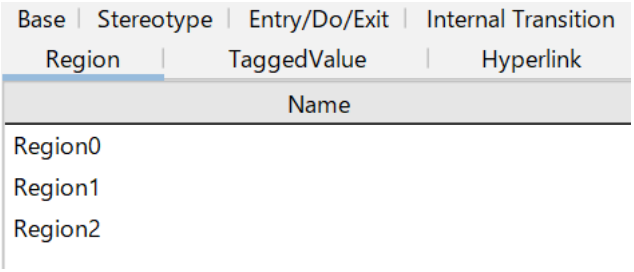
12.25.3. [Internal Transition] Tab



Element	Function
Trigger	Display the Trigger
Guard	Display the Guard condition

Action	Display Action

12.25.4.[Region] Tab

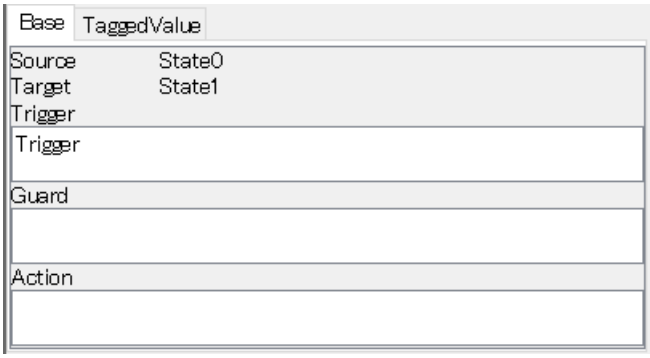


Element	Function
Name	Display region name

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.26.Transition (Control Flow/Object Flow) Properties

12.26.1.[Base] Tab

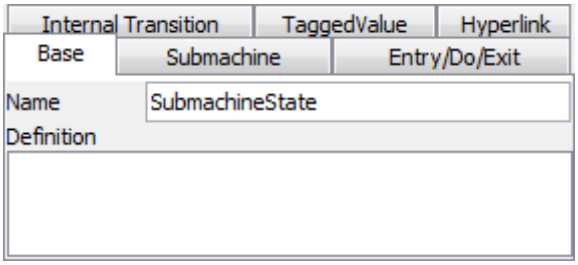


Element	Function
Source	Display the Source of the transition
Target	Display the target to Transit
Trigger	Display the Trigger
Guard	Display the Guard condition
Action	Display the Action

-> Please refer to Class Diagram Properties for [TaggedValue] tab.

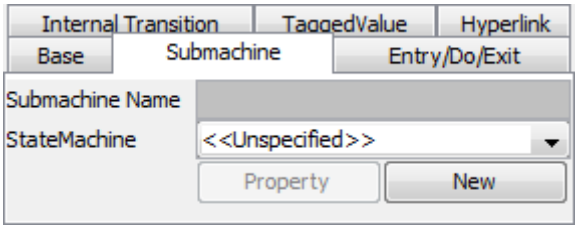
12.27. Submachine State Properties

12.27.1. [Base] Tab



Element	Function
Name	Display the Submachine State Name
Definition	Display Definition

12.27.2. [Submachine] Tab

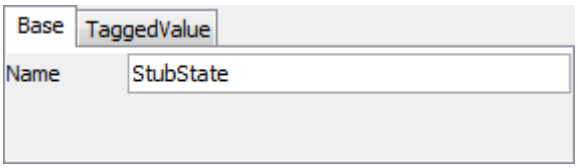


Element	Function
Submachine Name	Display the Submachine Name
StateMachine	Display the Statemachine Diagram to refer to
Property	Open properties of the Statemachine Diagram

-> Please refer to Sate Properties for [Entry/Do/Exit], [Internal Transition] tab, and Class Diagram Properties for [TaggedValue] tab and [Hyperlink] tab.

12.28. StubState Properties

12.28.1. [Base] Tab



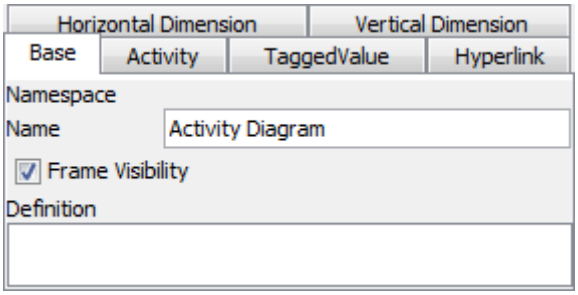
Element	Function
Name	Display the StubState Name

12.Property View

-> Please refer to Class Diagram Properties for [TaggedValue] tab.

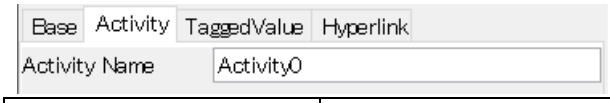
12.29.Activity Diagram Properties

12.29.1.[Base] Tab



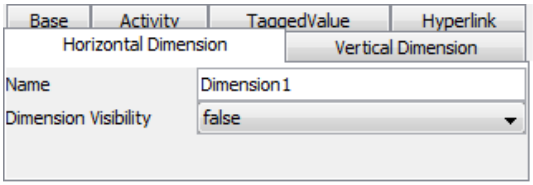
Element	Function
Namespace	Display the namespace where the Activity Diagram belongs
Name	Display the Activity Diagram Name
Frame Visibility	Display Frame Visibility
Definition	Display Definition

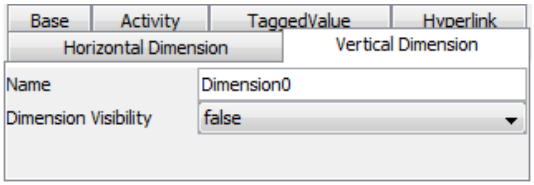
12.29.2.[Activity] Tab



Element	Function
Activity Name	Display the Activity Name

12.29.3.[Horizontal Dimension] Tab / [Vertical Dimension] Tab



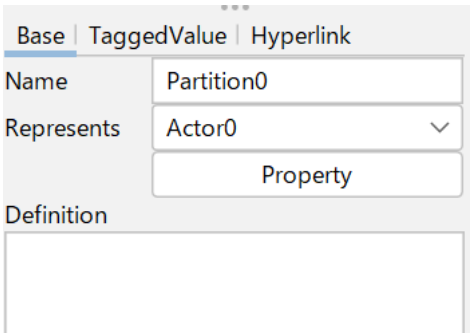


Element	Function
Name	Display the Dimension Name
Dimension Visibility	Display Dimension Visibility

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.30. Partition Properties

12.30.1. [Base] Tab

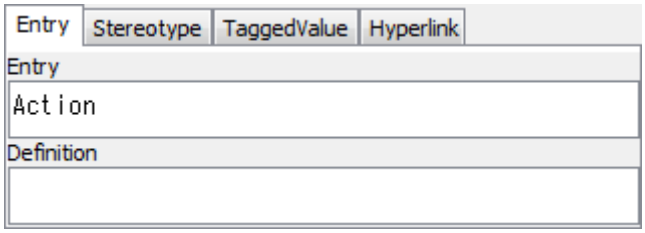


Element	Function
Name	Display the Partition Name
Represents	Display the element responsible for the partition.
Definition	Display Definition

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.31. Action Properties

12.31.1. [Entry] Tab

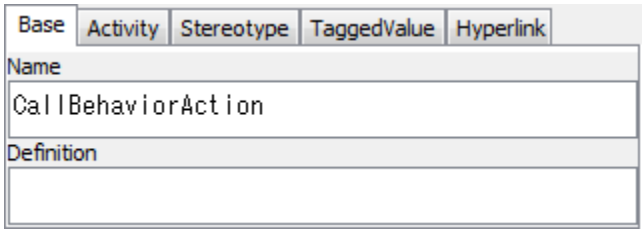


Element	Function
Entry	Display the Action Name
Definition	Display Definition

-> Please refer to Class Properties for [Stereotype] tab and Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

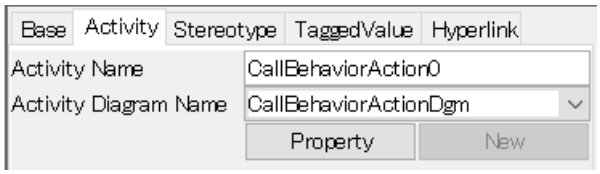
12.32. CallBehaviorAction Properties

12.32.1. [Base] Tab



Element	Function
Name	Display the CallBehaviorAction Name
Definition	Display Definition

12.32.2. [Activity] Tab



Element	Function
Activity Name	Display the Activity name
Activity DiagramName	Display the Activity diagram name
Property	Open properties of the Activity diagram

-> Please refer to Class Properties for [Stereotype] tab, Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.33. Flow Final Node Properties

The Displayable contents are the same as they are for Actions. -> See the Action Properties.

12.34. SendSignalAction Properties

The Displayable contents are the same as they are for Actions. -> See the Action Properties.

12.35. AcceptEventAction Properties

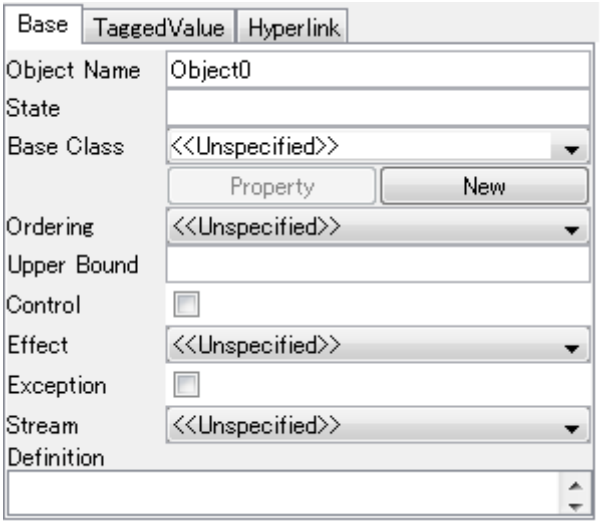
The Displayable contents are the same as they are for Actions. -> See the Action Properties.

12.36.AcceptTimeEventAction Properties

The Displayable contents are the same as they are for Actions. -> See the Action Properties.

12.37.Pin, Object Node Properties

12.37.1.[Base] Tab



Element	Function
Object Name	Display the Object Name
State	Display the State
Base Class	Display the Base Class
Property	Open properties of the Base Class
Ordering	Display the Ordering by choosing from <<Unspecified>>, unordered, ordered, LIFO or FIFO
Upper Bound	Display the Upper Bound
Control	Tick the box to check as Control
Effect	Display the Effect by choosing from <<Unspecified>>, create, read, update or delete
Exception	Display whether this is Exception
Stream	Display the Stream by choosing from <<Unspecified>>, stream or nonstream
Definition	Display Definition

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.Property View

12.38.Process Properties

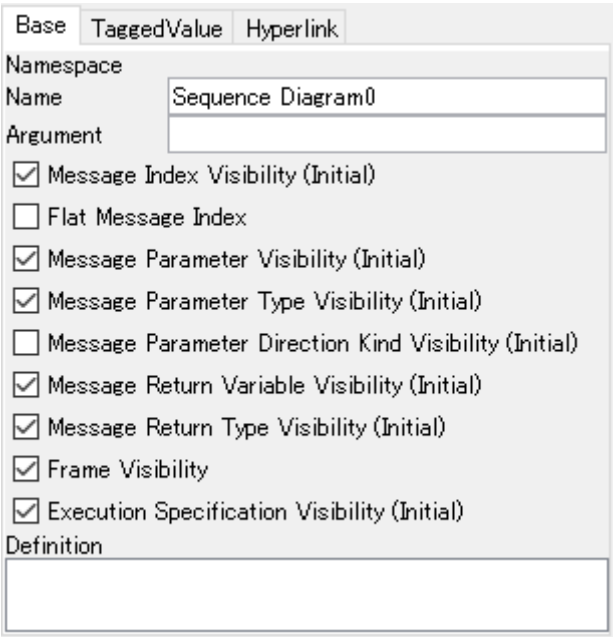
The Displayable contents are the same as they are for Actions. -> See the Action Properties.

12.39.Connector Properties

The Displayable contents are the same as they are for Actions. -> See the Action Properties.

12.40.Sequence Diagram Properties

12.40.1.[Base] Tab



Element	Function
Namespace	Display the Namespace where the Sequence Diagram belongs
Name	Display the Sequence Diagram Name
Argument	Display the Sequence Argument
Message Index Visibility	Display whether to show Message Index on the diagram
Flat Message Index	Display whether to show Hierarchy Message Index
Message Parameter Visibility (Initial)	Display whether to show Message Parameters on the diagram
Message Parameter	Display whether to show Message Parameter Types on the

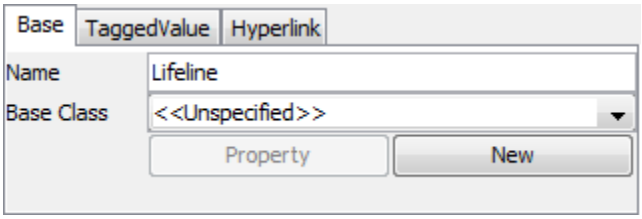
12.Property View

Type Visibility (Initial)	diagram
Message Parameter Direction Kind Visibility (Initial)	Display whether to show Message Parameter Direction Kinds on the diagram
Message Return Value Variable Visibility (Initial)	Display whether to show Message Return Value Variable on the diagram
Message Return Value Visibility (Initial)	Display whether to show Message Return Value on the diagram
Frame Visibility	Display whether to show a frame in the diagram
Execution Specification Visibility	Display whether to show Execution Specification Value on the diagram
Definition	Display Definition

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.41. Lifeline Properties (Sequence Diagram/Communication Diagram)

12.41.1. [Base] Tab

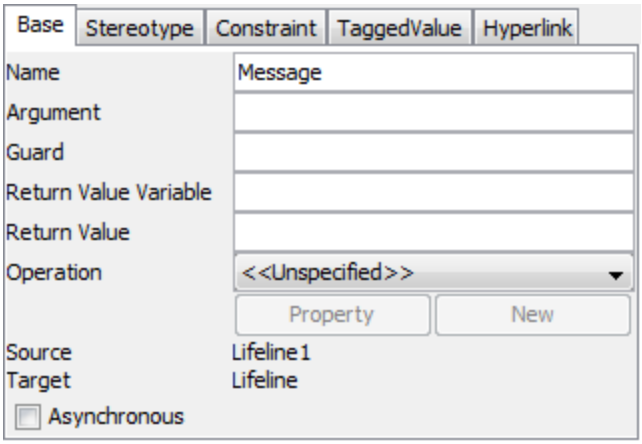


Element	Function
Name	Display the Lifeline Name
Base Class	Display the Base Class
Property	Open properties of the Base Class

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.42. Message Properties (Sequence Diagram)

12.42.1. [Base] Tab

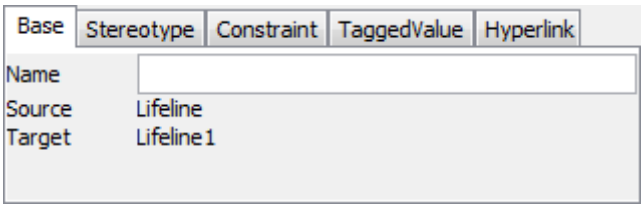


Element	Function
Name	Display the Message Name
Argument	Display the Message Arguments
Guard	Display the Guard condition
Return Value Variable	Display the Return Value Variable
Return Value	Display the Return Value
Operation	Display an Operation
Property	Open properties of the selected Operation
Source	Display the Source Lifeline
Target	Display the Target Lifeline
Asynchronous	Display whether to make the Message asynchronous

-> Please refer to Class Properties for [Stereotype] and [Constraint] tab, and Class Diagram Properties for [TaggedValue] and [Hyperlink] tab

12.43. Reply Message Properties

12.43.1. [Base] Tab



Element	Function

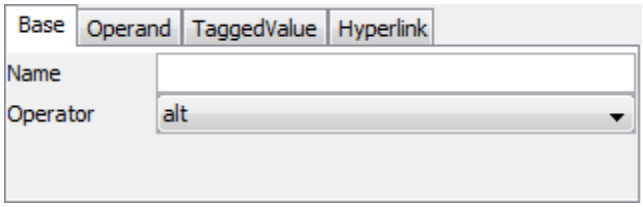
12.Property View

Name	Display the Reply Message Name
Source	Display the Source Lifeline
Target	Display the Target Lifeline

-> Please refer to Class Properties for [Stereotype] and [Constraint] tab, and Class Diagram Properties for [TaggedValue] tab.

12.44.CombinedFragment Properties (Sequence Diagram)

12.44.1.[Base] Tab



Element	Function
Name	Display the Combined Fragment Name
Operator	Select the Operator

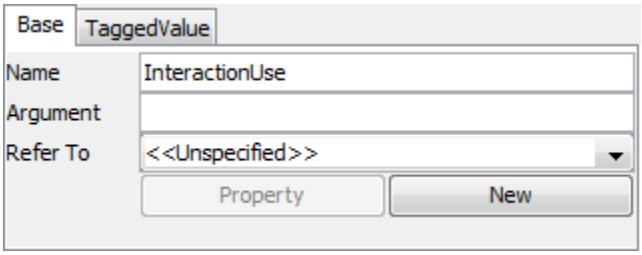
12.44.2.[Operand] Tab

Element	Function
Name	Display the Operand Name
Guard	Display the Guard

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.45. InteractionUse Properties (Sequence Diagram)

12.45.1. [Base] Tab

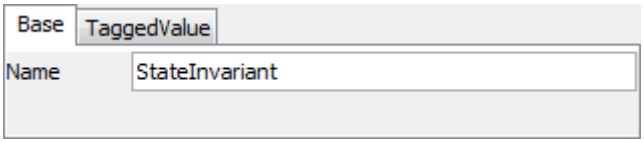


Element	Function
Name	Display the InteractionUse Name
Argument	Display the InteractionUse Argument
Refer to	Display Sequence Diagrams to refer to
Property	Display the Sequence Diagram to refer to

-> Please refer to Class Diagram Properties for [TaggedValue] tab.

12.46. State Invariant Properties (Sequence Diagram)

12.46.1. [Base] Tab



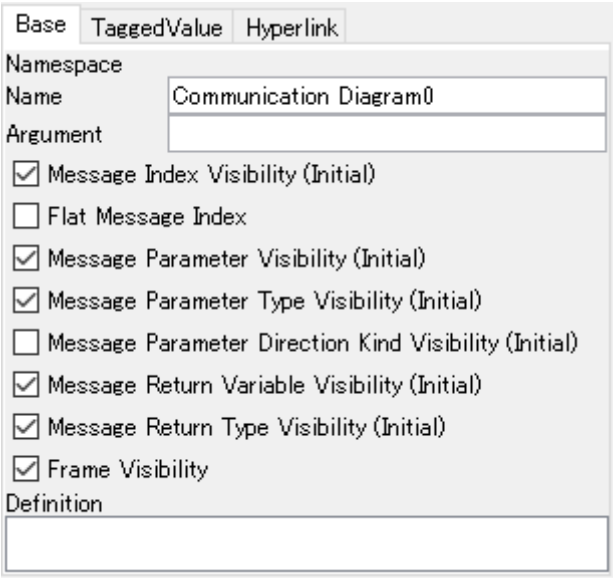
Element	Function
Name	Display the StateInvariant Name.

-> Please refer to Class Diagram Properties for [TaggedValue] tab.

12.Property View

12.47.Communication Diagram Properties

12.47.1.[Base] Tab



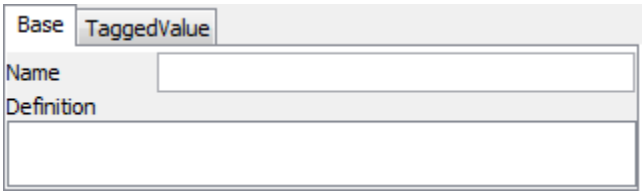
Element	Function
Namespace	Display the Namespace where the Communication Diagram belongs to
Name	Display the Communication Diagram Name
Argument	Display the Argument
Message Index Visibility	Display whether to show Message Index on the diagram
Flat Message Index	Display whether to make a hierarchy in the Message Index.
Message Parameter Visibility (Initial)	Display whether to show Message parameter on the diagram
Message Parameter Type Visibility (Initial)	Display whether to show Message parameter Type on the diagram
Message Parameter Direction Kind Visibility (Initial)	Display whether to show Message Parameter Direction Kind on the diagram
Message Return Value Variable Visibility (Initial)	Display whether to show Message Return Value Variable on the diagram
Message Return Value Visibility (Initial)	Display whether to show Message Return Value on the diagram
Frame Visibility	Display whether to show a frame in the diagram
Definition	Display Definition.

12.Property View

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.48.Link Properties (Communication Diagram)

12.48.1.[Base] Tab

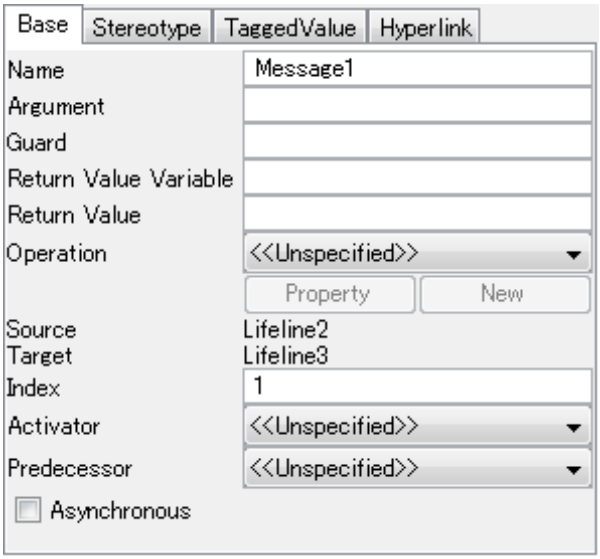


Element	Function
Name	Display the Link Name
Definition	Display Definition

-> Please refer to Class Diagram Properties for [TaggedValue] tab.

12.49.Message Properties (Communication Diagram)

12.49.1.[Base] Tab



Element	Function
Name	Display the Message Name.
Argument	Display the Message Arguments.
Guard	Display the Guard condition.
Return Value Variable	Display the Return Value Variable.
Return Value	Display the Return Value.

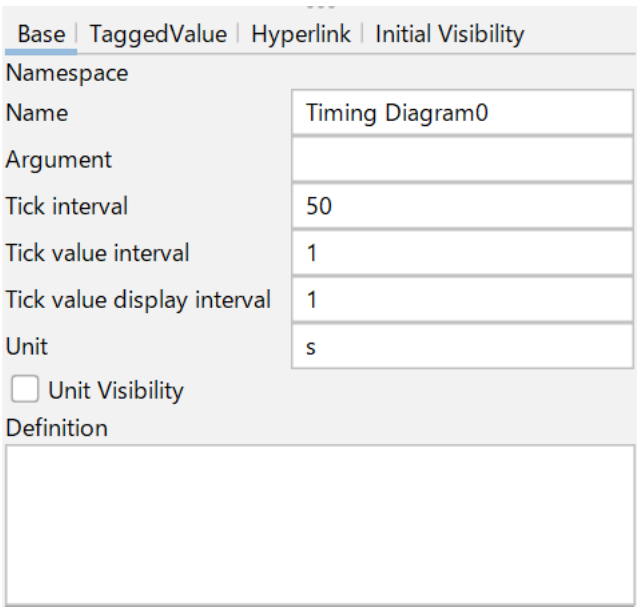
12.Property View

Operation	Display the Operation.
Property	Open properties of the selected Operation.
Source	Display the Source Lifeline.
Target	Display the Target Lifeline.
Index	Display the sequence number.
Activator	Display the Activator.
Predecessor	Display the Predecessor.
Asynchronous	Display whether the Message is synchronous or asynchronous.

-> Please refer to Class Properties for [Stereotype] tab, and Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.50. Timing Diagram Properties

12.50.1. [Base] Tab



Element	Function
Namespace	Display the Namespace where the Timing Diagram belongs to
Name	Edit the Timing Diagram Name
Argument	Edit Argument
Tick interval	Edit Tick interval
Tick value interval	Edit Tick value interval
Tick value display interval	Edit Tick value display interval

12.Property View

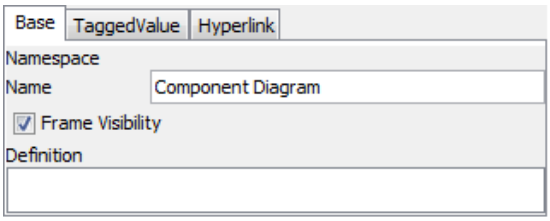
Unit	Edit Unit
Unit Visibility	Check to show Unit
Definition	Edit Definition

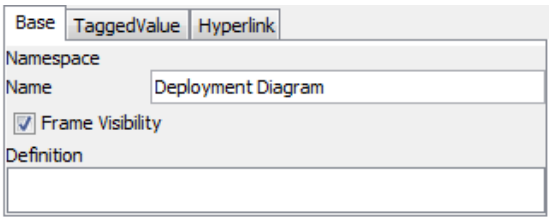
-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

-> Please refer to Sequence Diagram Properties for [Initial Visibility] tab.

12.51.Component Diagram / Deployment Diagram Properties

12.51.1.[Base] Tab



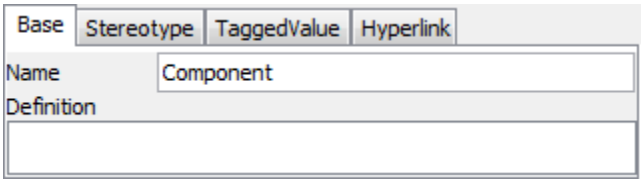


Element	Function
Namespace	Display the Namespace where the diagram belongs to
Name	Display the diagram name
Frame Visibility	Display whether Frame is displayed
Definition	Display the Definition

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.52.Component Properties

12.52.1.[Base] Tab



Element	Function
Name	Display the Component Name
Definition	Display the Definition

-> Please refer to Class Properties for [Stereotype] tab and Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

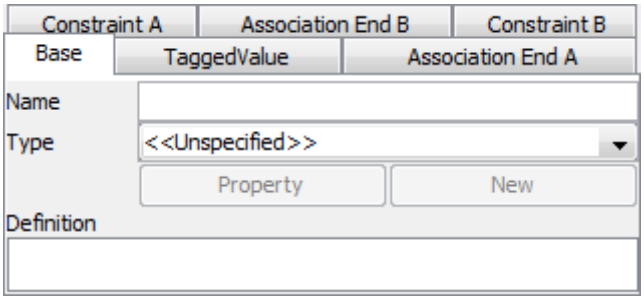
12.53. Part Properties

The Displayable contents are the same as they are for Associations.

-> Please refer to the Association Properties section for more details.

12.54. Connector Properties

12.54.1. [Base] Tab



Element	Function
Name	Display the Connector Name
Type	Display the Connector Type
Property	Open the Property of Connector Type
Definition	Display Definition

-> Please refer to Class Diagram Properties for [TaggedValue] tab.

12.54.2. [Association End] Tab

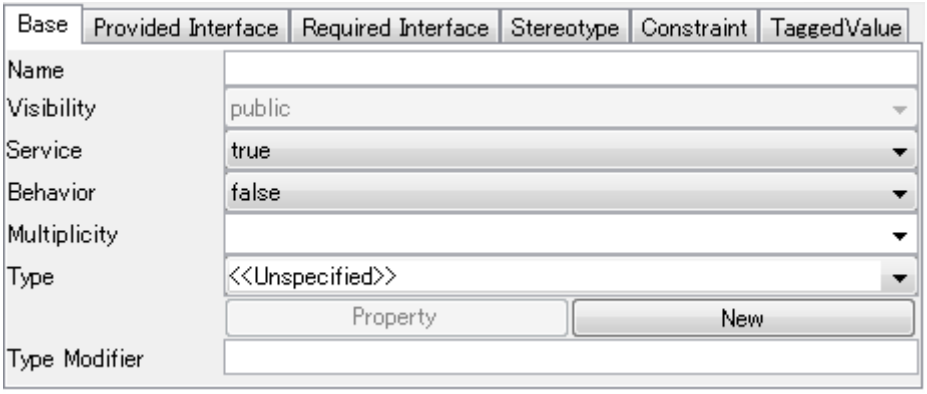
-> Please refer to the [Association End] section.

12.54.3. [Constraint] Tab

-> Please refer to the [Constraint] section.

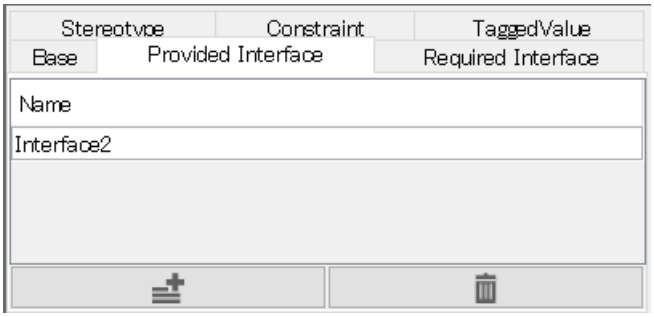
12.55. Port Properties

12.55.1. [Base] Tab



Element	Function
Name	Display the Port Name
Visibility	Display the visibility
Service	Display the Service whether it is true or false or not
Behavior	Display the Behavior whether it is true or false or not
Multiplicity	Display the Multiplicity, [1], [0..1], [0..*], [*], [1..*] or alternatively, input the value.
Type	Display the type.
Property	Open properties of the Base Class
Type Modifier	Display Type Modifier (*, **, &)

12.55.2. [Provided Interface] Tab / Required Interface] Tab



Element	Function
Name	Display the Provided / Required Interface Name

-> Please refer to Class Properties for [Stereotype] and [Constraint] tab, and Class Diagram Properties for [TaggedValue] tab.

12.56.Usage Dependency Properties

The Displayable contents are the same as they are for Generalizations.

-> See the Generalization Properties section.

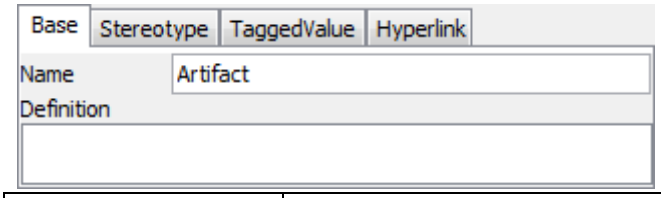
12.57.Classifier Properties

In Component Diagrams, Classifiers are treated as Classes.

-> Please refer to the Class Properties section for more details.

12.58.Artifact Properties

12.58.1.[Base] Tab

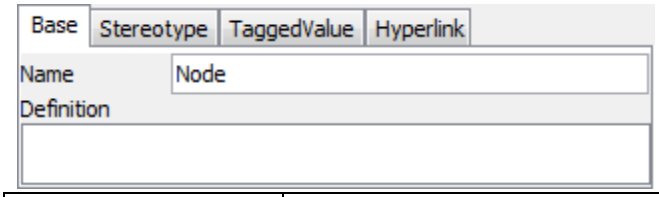


Element	Function
Name	Display the Artifact Name
Definition	Display the Definition

-> Please refer to Class Properties for [Stereotype] tab, and Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.59.Node Properties

12.59.1.[Base] Tab

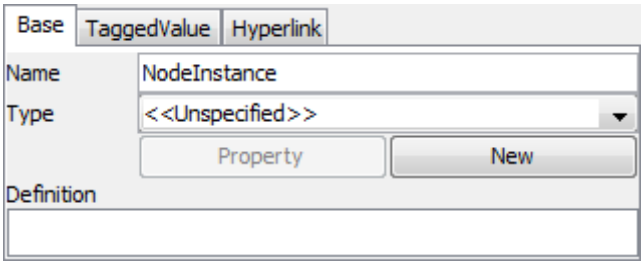


Element	Function
Name	Display the Node Name
Definition	Display Definition

-> Please refer to Class Properties for [Stereotype] tab, and Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.60. NodeInstance Properties

12.60.1. [Base] Tab

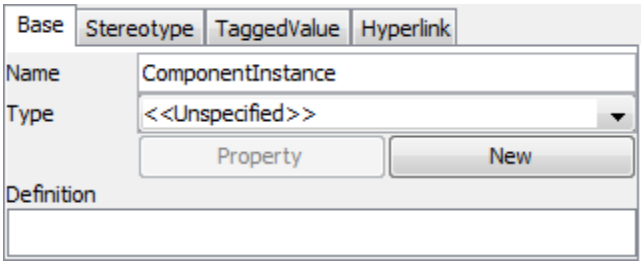


Element	Function
Name	Display the NodeInstance Name
Type	Display the Node Type
Property	Open properties of the Node that is specified as a Node Type
Definition	Display Definition.

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.61. ComponentInstance Properties

12.61.1. [Base] Tab



Element	Function
Name	Display the ComponentInstance Name.
Type	Display the Component Type
Property	Open properties of the Component that is specified as the Component Type
Definition	Display Definition

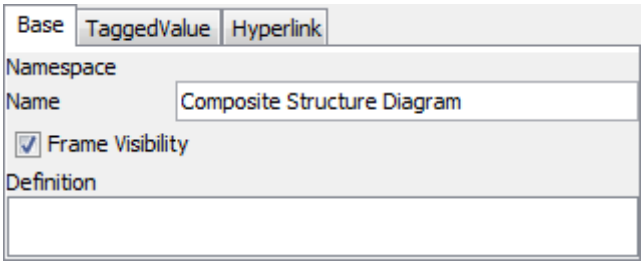
-> Please refer to Class Properties for [Stereotype] tab, and Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.62.Link Properties (Deployment Diagram)

-> Please refer to the Link Properties section for more details.

12.63.Composite Structure Diagram Properties

12.63.1.[Base] Tab



Element	Function
Namespace	Display the Namespace where the diagram belongs to
Name	Display the Composite Structure Diagram Name
Frame Visibility	Display whether to show a frame in the diagram
Definition	Display Definition

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

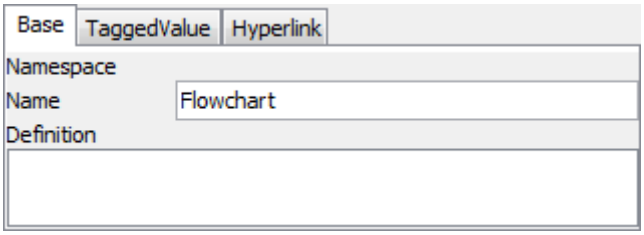
12.64.Structured Class Properties

The Displayable contents are the same as they are for Classes.

-> Please refer to the Class Properties section for more details.

12.65.Flowchart Properties

12.65.1.[Base] Tab



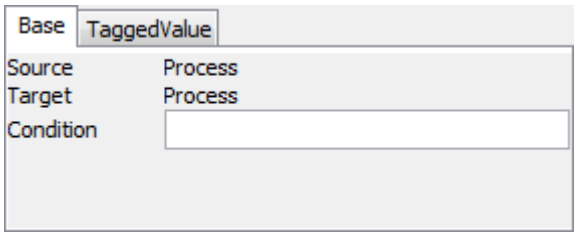
Element	Function
Namespace	Display the namespace where the Flowchart belongs
Name	Display the Flowchart Name
Definition	Display the Definition

12.Property View

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.66.Transition Properties

12.66.1.[Base] Tab

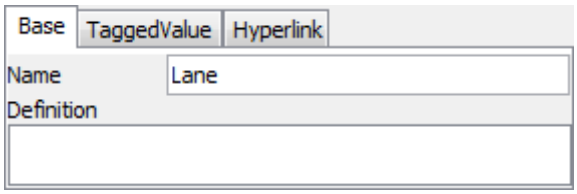


Element	Function
Source	Display the Source
Target	Display the target to Transit
Condition	Display the condition of Transition. The contents of this Condition will appear in the diagram.

-> Please refer to Class Diagram Properties for [TaggedValue] tab.

12.67.Lane Properties

12.67.1.[Base] Tab

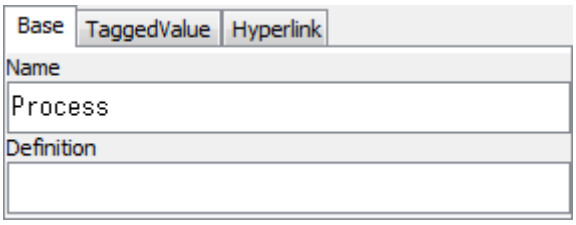


Element	Function
Name	Display the Lane Name
Definition	Display Definition

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.68. Flow Symbol Properties

12.68.1. [Base] Tab

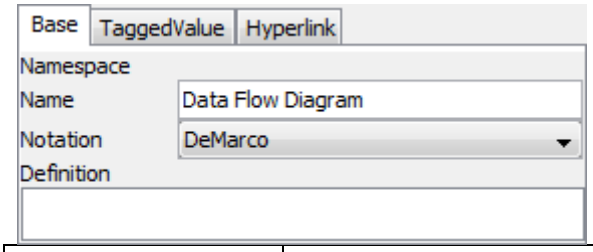


Element	Function
Name	Display the name of flow symbol
Definition	Display Definition

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.69. Data Flow Diagram (DFD) Properties

12.69.1. [Base] Tab

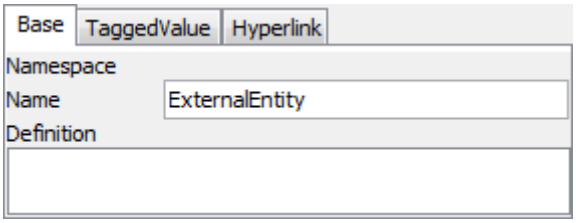


Element	Function
Namespace	Display the namespace where the Data Flow Diagram belongs
Name	Display the Data Flow Diagram Name
Notation	Display the Notation of Data Flow Diagram
Definition	Display Definition

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.70. External Entity Properties

12.70.1. [Base] Tab



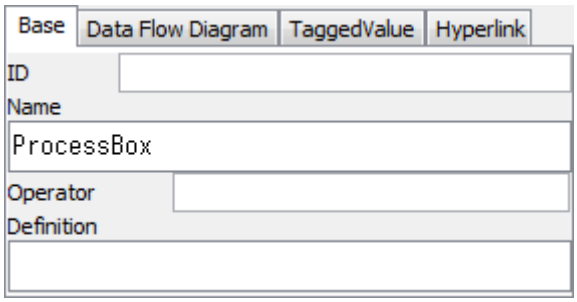
12.Property View

Element	Function
Namespace	Display the namespace where the External Entity belongs
Name	Display the External Entity Name
Definition	Display Definition

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

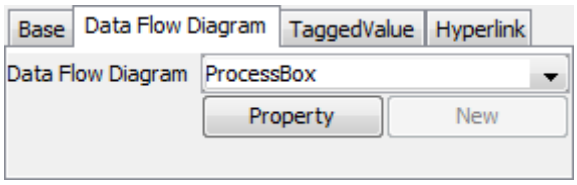
12.71. Process Box Properties

12.71.1. [Base] Tab



Element	Function
ID	Display the Process Box ID
Name	Display the Process Box Name
Operator	Display the Operator
Definition	Display Definition

12.71.2. [Data Flow Diagram] Tab

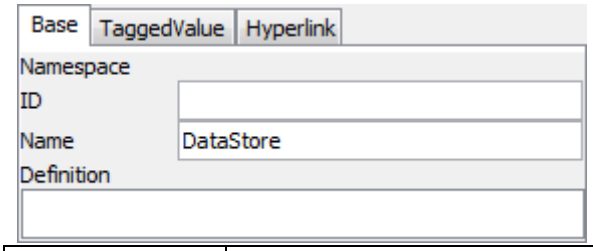


Element	Function
Data Flow Diagram	Display the Data Flow Diagram to refer to
Property	Open properties of the Data Flow Diagram

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.72.Data Store Properties

12.72.1.[Base] Tab

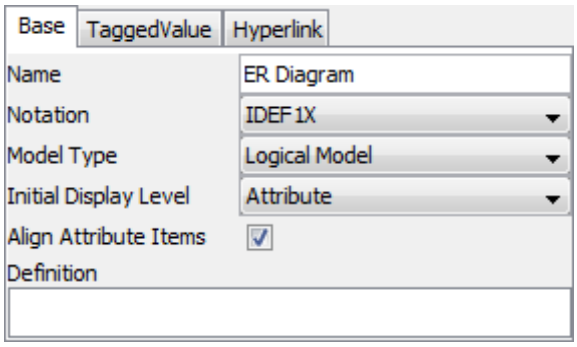


Element	Function
Namespace	Display the Namespace where the Namespace belongs
ID	Display the Data Store ID
Name	Display the Data Store Name
Definition	Display Definition

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.73.ER Diagram Properties

12.73.1.[Base] Tab

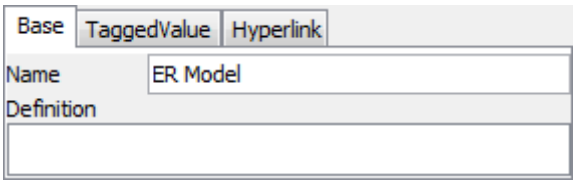


Element	Function
Name	Display the ER Diagram Name
Notation	Display the Notation of ER Diagram
Model Type	Display the Model type of ER Diagram
Initial Display Level	Display the display level of Entity
Align Attribute Items	Display whether to align the display of Attribute Items in line
Definition	Display Definition

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.74. ER Model Properties

12.74.1. [Base] Tab

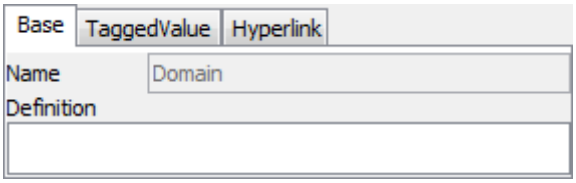


Element	Function
Name	Display the ER Diagram Name
Definition	Display Definition

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.75. Domain Model Properties

12.75.1. [Base] Tab

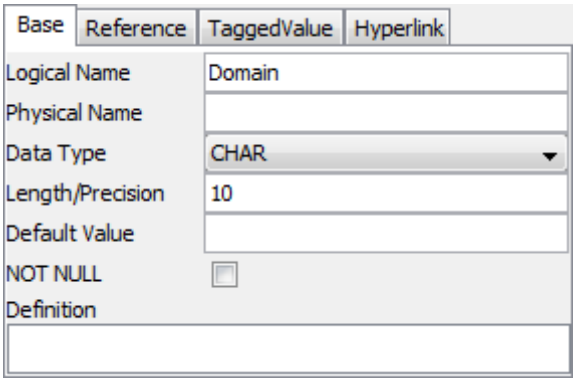


Element	Function
Name	Display the Domain Model Name
Definition	Display Definition

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.76. Domain Properties

12.76.1. [Base] Tab

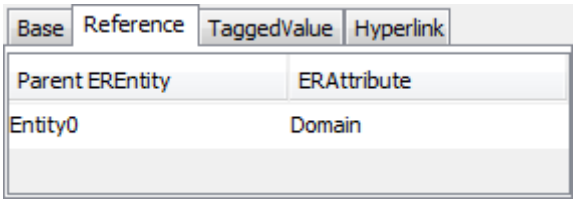


Element	Function

12.Property View

Logical Name	Display the Logical Name of Domain
Physical Name	Display the Physical Name of Domain
Data Type	Display the Data Type from Combo box
Length/Precision	Display the Length and Precision
Default Value	Display the Default Value.
NOT NULL	Display if it is NOT NULL or not
Definition	Display Definition

12.76.2.[Reference] Tab

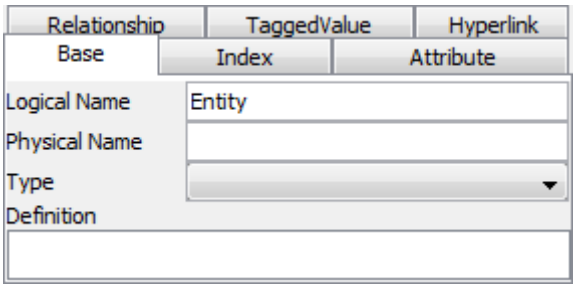


Element	Function
Parent EREntity	Display the name of the parent ER Entity.
ERAttribute	Display the name of the ER Attribute.

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.77.Entity Properties

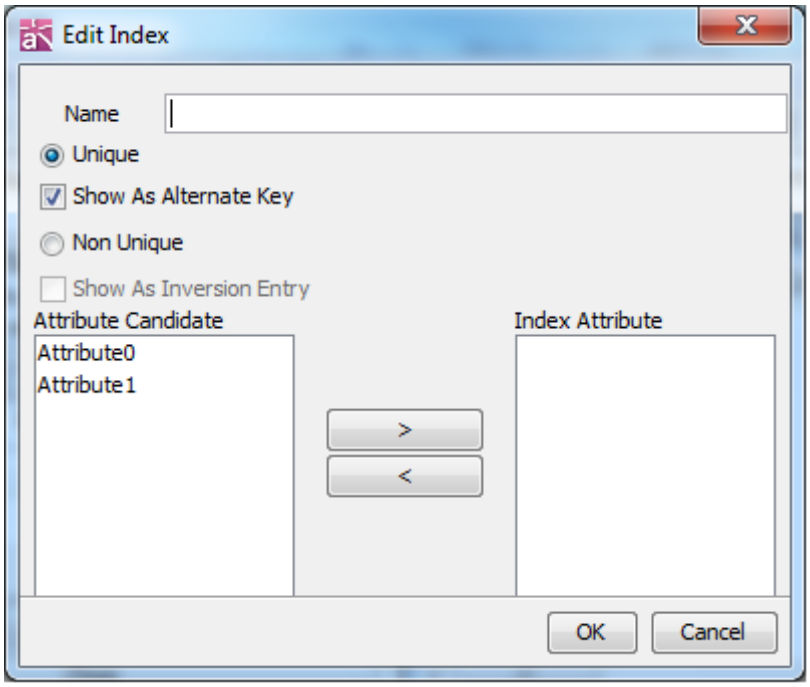
12.77.1.[Base] Tab



Element	Function
Logical Name	Display the Logical Name of Entity
Physical Name	Display the Physical Name of Entity
Type	Display the Type from the combo box, [Resource], [Event], or [Summary]
Definition	Display Definition

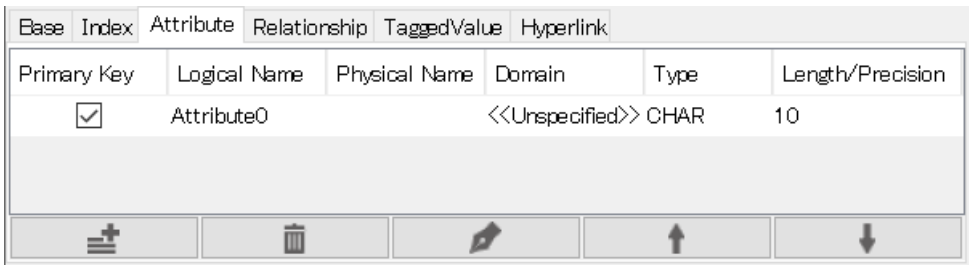
12.77.2.[Index] Tab

Element	Function
Name	Display the Index Name
Kind	Display the Index Kind



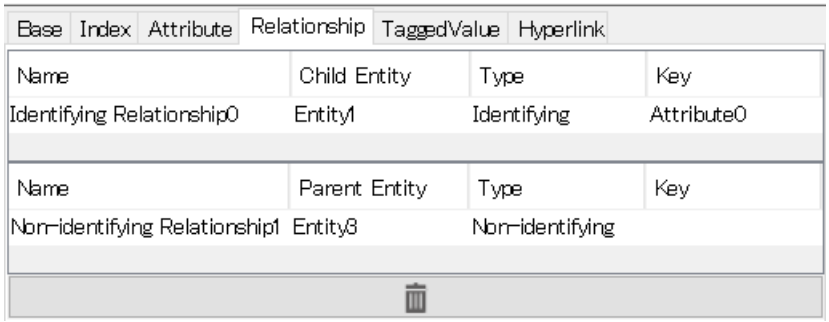
Element	Function
Name	Display the Index Name
Unique	Display whether to be unique
Show As Alternate Key	Display if it is shown as an alternate key
Non Unique	Display whether to be non-unique
Show As Inversion Entry	Display whether to show as an inversion entry

12.77.3. [Attribute] Tab



Element	Function
Primary Key	Display if it is a Primary Key or not
Logical Name	Display the Logical Name
Physical Name	Display the Physical Name
Domain	Display the Domain from the Combo box
Type	Display the Type from the Combo box
Length/Precision	Display the Length and Precision

12.77.4.[Relationship] Tab

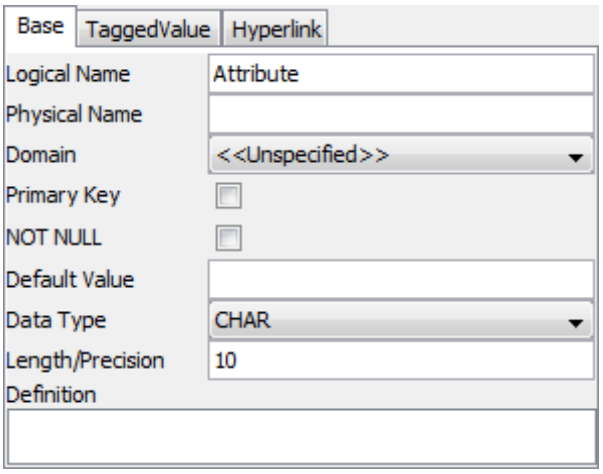


Element	Function
Name	Display the name of Relationship
Child Entity/ Parent Entity	Display the name of Child Entity/Parent Entity of the relationship
Type	Display the relation Type
Key	Display the key that related Entity has
Delete Button	Delete selected Relationship

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.78.Attribute Properties (ER Diagram)

12.78.1.[Base] Tab

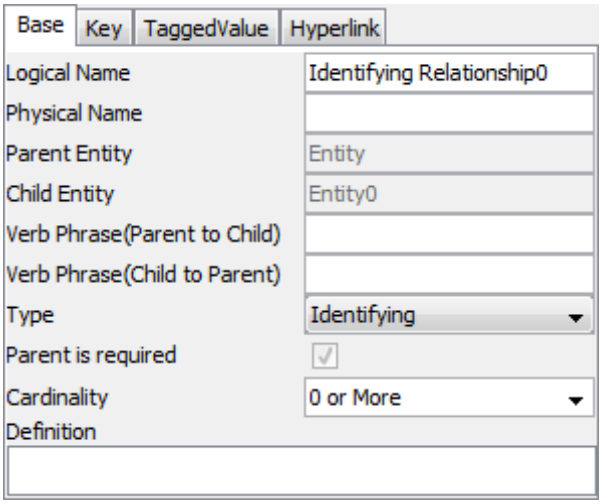


Element	Function
Logical Name	Display the Logical Name of Attribute
Physical Name	Display the Physical Name of Attribute
Domain	Display the Domain from the Combo box
Primary Key	Display if it is a Primary Key or not
NOT NULL	Display if it is NOT Null or not
Default Value	Display the Default Value
Data Type	Display the Data type from the combo box
Length/Precision	Display the Length and Precision
Definition	Display Definition

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

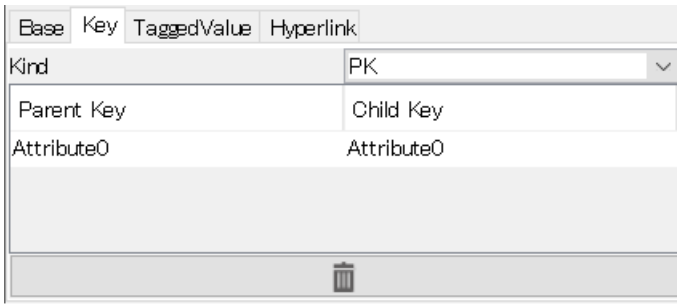
12.79.Relationship Properties (ER Diagram)

12.79.1.[Base] Tab



Element	Function
Logical Name	Display the Logical Name of Relationship
Physical Name	Display the Physical Name of Relationship
Parent Entity	Display the Parent Entity in the relationship
Child Entity	Display the Child Entity in the relationship
Verb Phrase (Parent to Child)	Display the verb phrase from Parent to Child
Verb Phrase (Child to Parent)	Display the verb phrase from Child to Parent
Type	Display the Type from the combo box to [Identifying] or [Non-Identifying].
Parent is required	Display if the parent is required or not. (* Non-Identifying Relationship only)
Cardinality	Display the Cardinality from the combo box. (0 or more), [1 or more], [0 or 1].)
Definition	Display Definition

12.79.2.[Key] Tab

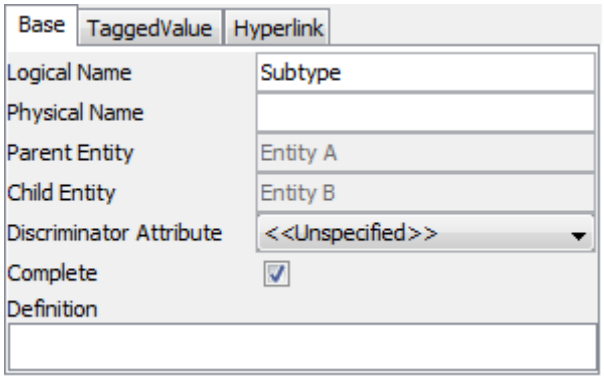


Element	Function
Kind	Select PK or Unique Index.
Parent Key	Display the Parent Key.
Child Key	Select the Child Key.

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.80.Subtype Properties

12.80.1.[Base] Tab



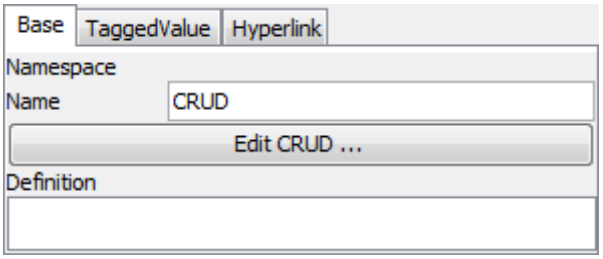
Element	Function
Logical Name/Physical Name	Display the Logical Name/Physical Name of Subtype
Parent Entity / Child Entry	Display the Parent/Child Entity in the relationship
Discriminator Attribute	Display the Discriminator Attribute from the Combo box
Complete	Display it is complete or not
Definition	Display Definition

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.Property View

12.81.CRUD Properties

12.81.1.[Base] Tab

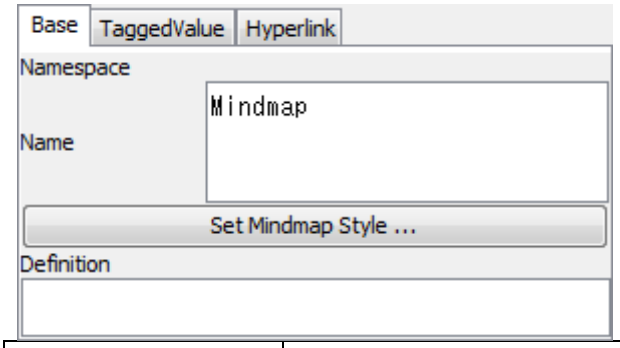


Element	Function
Namespace	Display the Namespace where the CRUD belongs
Name	Display the CRUD Name
Display CRUD	Open the dialog to configure CRUD
Definition	Display Definition

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.82.Mindmap Properties

12.82.1.[Base] Tab

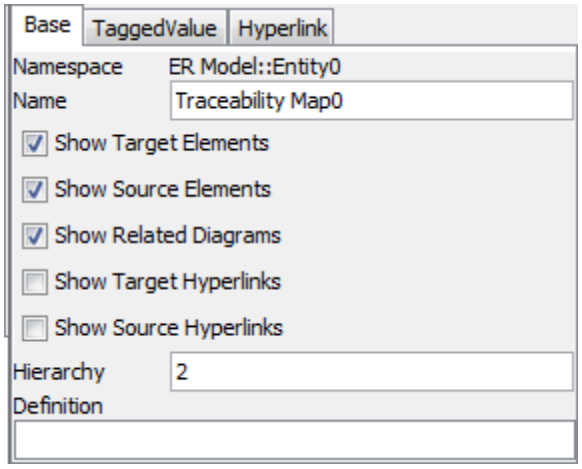


Element	Function
Namespace	Display the Namespace where the Mind Map belongs
Name	Display the Mindmap Name
Set Mindmap Style	Open the dialog to configure Mindmap style
Definition	Display Definition

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.83.Traceability Map Properties

12.83.1.[Base] Tab

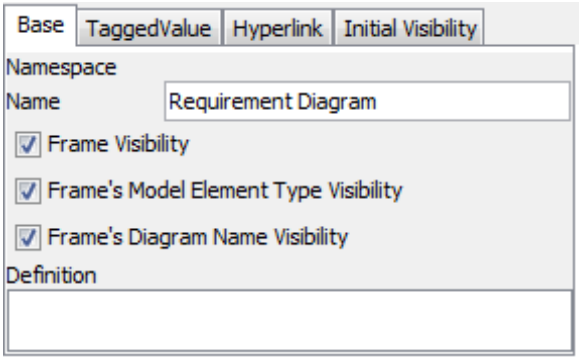


Element	Function
Namespace	Display the Namespace where this Traceability Map belong
Name	Display the Traceability Map Name
Show Target Elements	Display whether the elements are displayed
Show Source Elements	
Show Related Diagrams	
Show Target Hyperlinks	
Show Source Hyperlinks	
Hierarchy	Display the Hierarchy Level
Definition	Display Definition

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.84.Requirement Diagram Properties

12.84.1.[Base] Tab

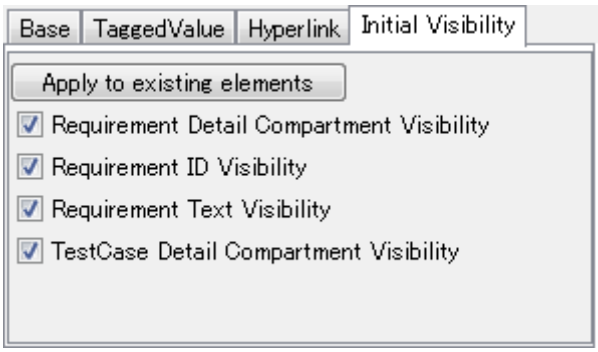


12.Property View

Element	Function
Namespace	Display the Namespace where the Requirement Diagram belong
Name	Display the Requirement Diagram Name
Frame Visibility	Display whether to show a frame in a diagram
Frame's Model Element Type Visibility	Display whether to show a model element type in the frame
Frame's Diagram Name Visibility	Display whether to show a diagram name in the frame
Definition	Display Definition

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

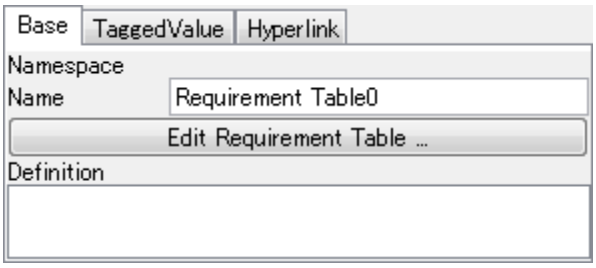
12.84.2.[Initial visibility] Tab



Display whether to show them on the diagram.

12.85.Requirement Table Properties

12.85.1.[Base] Tab



Element	Function
Namespace	Display the Namespace where this Requirement Table belongs
Name	Display the Requirement Table Name

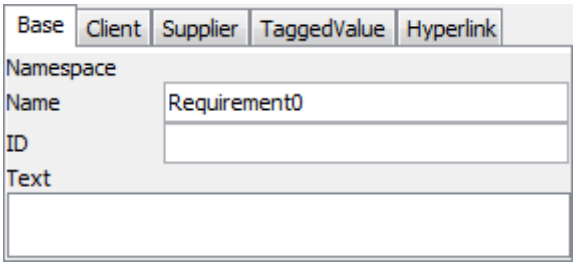
12.Property View

Display Requirement Table	Open the dialog to configure Requirement Table
Definition	Display Definition

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab.

12.86.Requirement Properties

12.86.1.[Base] Tab

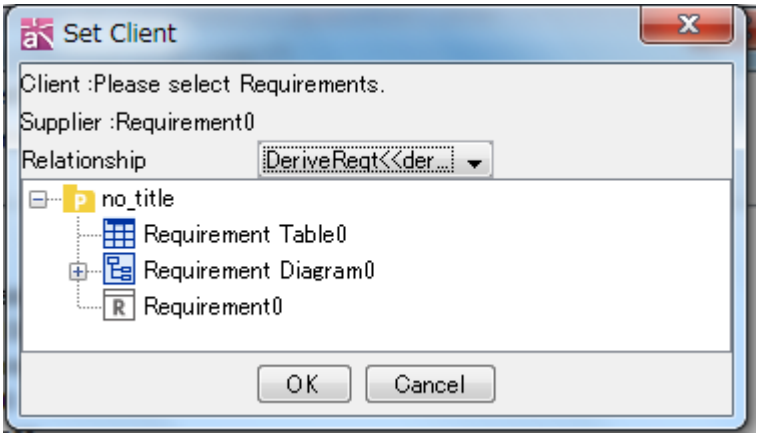


Element	Function
Namespace	Display the Namespace where the Requirement belongs
Name	Display the Requirement Name
ID	Display the Requirement ID
Text	Display Text

12.86.2.[Client] Tab

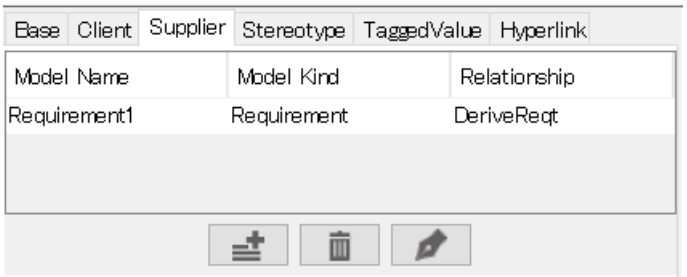
Element	Function
Model Name	Display the Model Name of Client
Model Kind	Display the Model Kind of Client
Relationship	Display the Relationship of Client

12.Property View



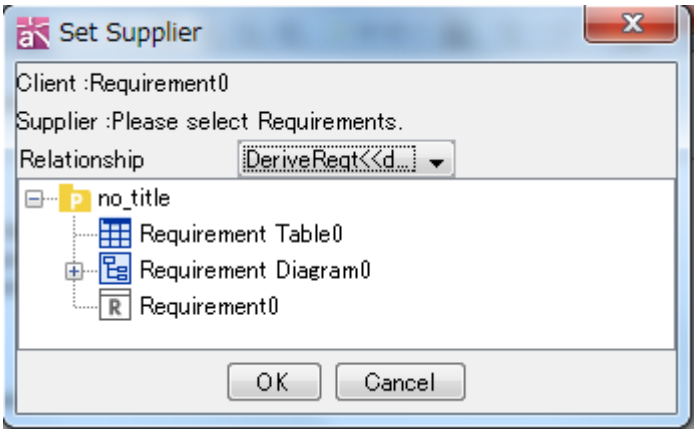
Relationship	Target Model
DeriveReqt<<deriveReqt>>	Requirement
Copy<<copy>>	Requirement
Satisfy<<satisfy>>	Package, Model, Subsystem, Class (Entity, Boundary, Control), AssociationClass, Interface, Actor, UseCase, Component, Artifact, Node, Requirement and TestCase
Verify<<verify>>	TestCase
Refine<<refine>>	Package, Model, Subsystem, Class (Entity, Boundary, Control), AssociationClass, Interface, Actor, UseCase, Component, Artifact, Node, Requirement and TestCase
Trace<<trace>>	Requirement

12.86.3.[Supplier] Tab



Element	Function
Model Name	Display the Model Name of Supplier
Model Kind	Display the Model Kind of Supplier
Relationship	Display the Relationship of Supplier

12.Property View

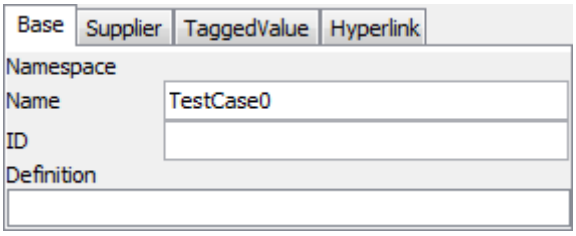


Relationship	Target Model
DeriveReqt<<deriveReqt>>	Requirement
Copy<<copy>>	
Satisfy<<satisfy>>	
Refine<<refine>>	
Trace<<trace>>	

-> Please refer to Class Diagram Properties for [Stereotype], [TaggedValue] and [Hyperlink] tab.

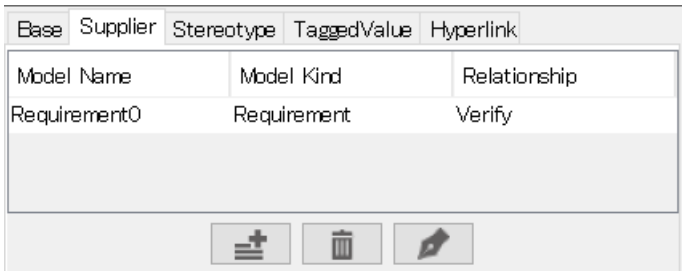
12.87.TestCase Properties

12.87.1.[Base] Tab



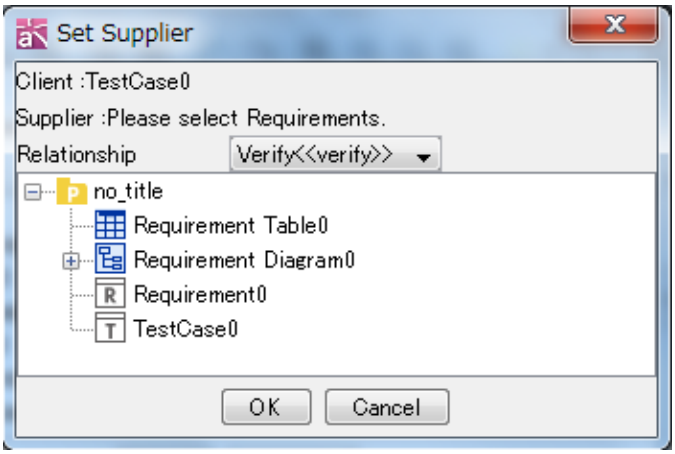
Element	Function
Namespace	Display the Namespace where the TestCase belongs
Name	Display the TestCase Name
ID	Display the TestCase ID
Definition	Display Definition

12.87.2.[Supplier] Tab



Element	Function
Model Name	Display the Model Name of Supplier
Model Kind	Display the Model Kind of Supplier
Relationship	Display the Relationship of Supplier

[Set Supplier] dialog opens when selecting [Display] or [Display].

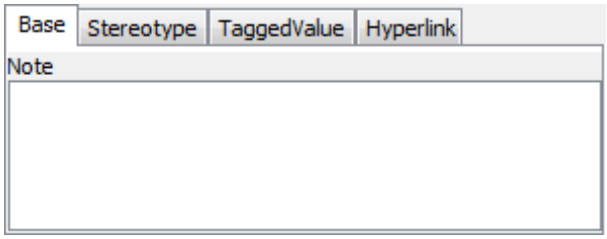


Relationship	Model
Verify<<verify>>	Requirement
Satisfy<<satisfy>>	
Refine<<refine>>	

-> Please refer to Class Diagram Properties for [TaggedValue] and [Hyperlink] tab

12.88. Note Properties

12.88.1. [Base] Tab



Element	Function
Note	Display Note.

-> Please refer to Class Diagram Properties for [Stereotype], [TaggedValue] and [Hyperlink] tab

13. Displaying Diagrams

13.1. Displaying Diagrams

This section describes operations that affect the display of diagrams in the Diagram Editor.

13.1.1. Enlarging Diagrams

a. Using [View] in the Main Menu

Select [View]-[Zoom In] in the Main Menu.

Note) Enlarging operations can be repeated by pressing the shortcut key [Ctrl+[ ].

b. Using [Zoom in current Diagram Editor] on the Tool Bar.

Click [Zoom in current Diagram Editor].

Note) Enlarging operations can be repeated by pressing this icon.

c. Using the [Ctrl] key and the mouse

(a) Press the [Ctrl] key and right-drag upwards.

(b) Press the [Ctrl] key and rotate the mouse wheel forwards.

13.1.2. Shrinking Diagrams

a. Using [View] in the Main Menu

Select [View]-[Zoom Out] in the Main Menu.

Note) Shrinking operations can be repeated by pressing the shortcut key [Ctrl+]].

b. Using [Zoom out current Diagram Editor]

Select [Zoom out current Diagram Editor] on the Tool Bar.

Note) Shrinking operations can be repeated by pressing this icon.

c. Using the [Ctrl] key and the mouse

(a) Press the [Ctrl] key and right-drag downwards.

(b) Press the [Ctrl] key and rotate the mouse wheel backwards.

13.1.3. Displaying Diagrams in their Original Size

a. Using [View] in the Main Menu

Select [View]-[Zoom] in the Main Menu.

b. Using [Zoom to Default] on the Tool Bar.

Select [Zoom to Default] on the Tool Bar.

13.1.4. Displaying the Diagram Overview

[Window]		Make the whole diagram fit in the window
[Window Width]		Make the diagram to fit in the width of the wind of Diagram Editor.
[Window Height]		Make the diagram to fit in the height of the wind of Diagram Editor.

a. Using [View] – [Fit to Window] in the Main Menu

Select the way you would like to display from [View]-[Fit to Window] in the Main Menu.

b. Using [Fit to Window] on the Tool Bar

Select [Fit to Window] on the Tool Bar and select the way you would like to display.

Note) [Map] on the Project View can be also used to enlarge and shrink Diagrams.

13.1.5. Moving Diagrams

Right-drag diagrams to move them in the Diagram Editor.

(a) Moving Diagrams Vertically

Diagrams can be moved vertically by rotating the mouse wheel. When the mouse wheel is rotated forwards, Diagrams are moved upwards. When the mouse wheel is rotated backwards, Diagrams are moved downwards.

(b) Moving Diagrams Horizontally

Diagrams can be moved horizontally by rotating the mouse wheel and pressing the [Shift] key. When the mouse wheel is rotated forwards, Diagrams are moved to the right. When the mouse wheel is rotated backwards, Diagrams are moved to the left.

14. Diagrams and Diagram Elements

This chapter describes Diagram Types and Elements.

14.1. Class Diagram

Class Diagrams are used to draw 4 types of Diagrams: Class Diagrams, Object Diagrams, Package Diagrams, and Robustness Diagrams.

Class Diagram	Depict the static structure of a system.
Object Diagram	Depict a static snapshot of Class instances.
Package Diagram	Depict the hierarchical structure of Packages and dependencies between Packages.
Robustness Diagram	Depict the basic structure of a system.

14.1.1. Diagram Elements of Class Diagrams

The Diagram Elements that can be used in Class Diagrams are listed below.

Class		Display Classes
Enumeration		Display Enumerations
Package		Display Packages
Subsystem		Display Subsystems
Nest		Display Nests
Association		Display Associations (Unspecified Association to Unspecified Association)
Association		Display Associations (Unspecified Association to Navigable Association)
Association		Display Associations (Non-Navigable Association to Navigable Association)
Association		Display Associations. (Navigable Association to Navigable Association)
Aggregation		Display Aggregations. (Aggregation to Unspecified Association)
Aggregation		Display Aggregations. (Aggregation to Navigable Association)
Composition		Display Compositions. (Composition to Unspecified Association)
Composition		Display Compositions.

		(Composition to Navigable Association)
Association Class		Display Association Classes.
Generalization		Display Generalizations.
Realization		Display Realizations.
Dependency		Display Dependencies.
Usage		Display Usages.
Realization		Display Realizations.
Template Binding		Display Template Bindings.
Interface		Display Interfaces with icon notation.
Interface (Normal)		Display Interfaces with normal notation.
Required Interface		Display Required Interfaces.
Provided Interface		Display Provided Interfaces.
Entity		Display Entities.
BusinessEntity		Display BusinessEntities.
Boundary		Display Boundaries.
Control		Display Controls.
BusinessWorker		Display BusinessWorkers.
Instance Specification		Display Instance Specification (Entities/BusinessEntities/ Boundaries/Controls/BusinessWorkers).
Link		Display Links.
		See "Common Diagram Elements"

14.Diagrams and Diagram Elements

14.2. UseCase Diagrams

This section describes UseCase Diagrams and the Diagram Elements.

14.2.1. Diagram Elements in UseCase Diagrams

Actor		Display Actors.
BusinessActor		Display BusinessActors.
UseCase		Display UseCases.
BusinessUseCase		Display Business UseCases.
Package		Display Packages.
Subsystem		Display Subsystems.
Nest		Display Nests.
Association		Display Associations. (Unspecified Association to Unspecified Association)
Association		Display Associations. (Unspecified Association to Navigable Association)
Association		Display Associations. (Non-Navigable Association to Navigable Association)
Association		Display Associations. (Navigable Association to Navigable Association)
Aggregation		Display Aggregations. (Aggregation to Unspecified Association)
Aggregation		Display Aggregations. (Aggregation to Navigable Association)
Composition		Display Composition. (Composition to Unspecified Association)
Composition		Display Composition. (Composition to Navigable Association)
Extend		Display Extends.
Include		Display Includes.
Generalization		Display Generalizations.
Dependency		Display Dependencies.
Template Binding		Display Template Bindings.
Entity		Display Entities.

BusinessEntity		Display BusinessEntities.
Boundary		Display Boundaries.
Control		Display Controls.
BusinessWorker		Display BusinessWorkers.
		See "Common Diagram Elements".

14.3. Statemachine Diagrams

This section describes Statemachine Diagrams and the Diagram Elements that they can contain.

14.3.1. Diagram Elements of Statemachine Diagrams

Initial Pseudo State		Display Initial Pseudo State.
State		Display States.
Subamachine State		Display States.
Final State		Display Final State.
Entry Point		Display Entry Point
Exit Point		Display Exit Point
Transition		Display Transitions.
Shallow History Pseudo State		Display Shallow History Pseudo States.
Deep History Pseudo State		Display Deep History Pseudo State.
Junction Pseudo State		Display Junction Pseudo States.
Choice Pseudo State		Display Choice Pseudo States.
Fork Pseudo State		Display Fork Pseudo States. Able to choose Vertical or Horizontal
Join Pseudo State		Display Join Pseudo States. Able to choose Vertical or Horizontal
StubState In Submachine State		Display StubStates in Submachine State.
		See "Common Diagram Elements".

14.4. Activity Diagrams

This section describes Activity Diagrams and the Diagram Elements that they can contain.

14.4.1. Diagram Elements of Activity Diagrams

Partition [Vertical]		Display Vertical Partitions.
Partition [Horizontal]		Display Horizontal Partitions.
Initial Node		Display Initial Nodes.
Action		Display Action.
CallbehaviorAction		Display CallbehaviorAction.
Activity Final		Display Activity Finals.
Flow Final Node		Display Flow Final Nodes.
Control Flow/Object Flow		Display Control Flows/Object Flows.
Merge Node & Decision Node		Display Merge Nodes/Decision Nodes.
Fork Nodes		Display Fork Nodes.
Join Nodes		Display Join Nodes.
InputPin		Display InputPins
OutputPin		Display OutputPins
Object Node		Display Object Nodes.
Parameter Node		Display Parameter Node
SendSignalAction		Display SendSignalActions.
AcceptEventAction		Display AcceptEventActions.
AcceptTimeEventAction		Display AcceptTimeEventActions
Process		Display Processes.
Connector		Display Connectors.
Dependency		Display Dependencies.
		See "Common Diagram Elements".

14.5. Sequence Diagrams

This section describes Sequence Diagrams and the Diagram Elements that they can contain.

14.5.1. Diagram Elements of Sequence Diagrams

Lifeline		Display

		Lifelines/Actors/Entities/BusinessEntityiesBoundaries/Controls/BusinewsWorkers.
Message		Display Synchronous Messages.
Asynchronous Message		Display Asynchronous Messages.
Create Message		Display “Create” Messages.
Destroy Message		Display “Destroy” Messages.
Reply Message		Display “Reply” Messages.
Stop		Display Stops.
Duration Constraint		Display Duration Constraint
Time Constraint		Display Time Constraint
Combined Fragment		Display Combined Fragments.
Interaction Use		Display Interaction Uses.
State Invariant		Display State Invariants.
Reply Message Automatic Mode		Create a Reply message for each message automatically.
		See “Common Diagram Elements”.

14.6. Communication Diagrams

This section describes Communication Diagrams and the Diagram Elements that they can contain.

14.6.1. Diagram Elements of Communication Diagrams

Lifeline		Display Lifelines/Actors/BusinessActors/Entities/BusinessEntities/Boundaries/Controls/Business Workers.
Link		Display Links.
Message		Display Synchronous Messages.
		See “Common Diagram Elements”.

14.7. Timing Diagrams

This section describes Timing Diagrams and the Diagram Elements that they can contain.

14.7.1. Creating Timing Diagrams

i) Using [Diagram]-[Timing Diagram] in the Main Menu.

ii) Using the [Structure Tree] in the "Project View" (by right-clicking).

14.7.2. Diagram Elements of Timing Diagrams

Select		Mode for basic operations in the Diagram Editor.
Lifeline		Add Lifelines.
Message		Add Synchronous Messages.
Asynchronous Message		Add Asynchronous Messages.
Reply Message		Add "Reply" Messages.
Duration Constraint		Add Duration Constraint
Time Constraint		Add Time Constraint
		See "Common Diagram Elements".

14.8. Component Diagrams

This section describes Component Diagrams and the Diagram Elements that they can contain.

14.8.1. Diagram Elements of Component Diagrams

Component		Display Components.
Part		Display Parts.
External Part		Display External Parts.
Connector		Display Connectors
Port		Display Ports.
Interface		Display Interfaces with icon notation.
Interface (Normal)		Display Interface with normal notation.
Provided Interface		Display Provided Interfaces.
Required		Display Required Interfaces.

Interface		
Dependency		Display Dependencies.
Realization		Display Realizations.
Usage		Display Usages.
Classifier		Display Classifiers.
Artifact		Display Artifacts.
Nest		Display Nests.
		See “Common Diagram Elements”.

14.9. Deployment Diagrams

This section describes Deployment Diagrams and the Diagram Elements that they can contain.

14.9.1. Diagram Elements of Deployment Diagrams

Node		Display Nodes.
NodeInstance		Display NodeInstances.
Component		Display Components.
ComponentInstance		Display ComponentInstances.
Association		Display Associations. (Unspecified Association to Unspecified Association)
Association		Display Associations. (Unspecified Association to Navigable Association)
Association		Display Associations. (Non-Navigable Association to Navigable Association)
Association		Display Associations. (Navigable to Navigable Association)
Aggregation		Display Aggregations. (Aggregation to Unspecified Association)
Aggregation		Display Aggregations. (Aggregation to Navigable Association)
Compositions		Display Compositions. (Composites to Unspecified Association)
Compositions		Display Compositions.

		(Compositions to Navigable Association)
Realization		Display Realizations.
Interface		Display Interfaces with icon notation.
Interface (Normal)		Display Interface with normal notation.
Dependency		Display Dependencies.
Instance Specification		Display Instance Specifications/Entities/BusinessEntities/Boundaries/Controls /BusinessWorkers.
Link		Display Links.
		See "Common Diagram Elements".

14.10. Composite Structure Diagrams

This section describes Composite Structure Diagrams and the Diagram Elements that they can contain.

14.10.1. Diagram Elements of Composite Structure Diagrams

Structured Class		Display Structured Classes.
Class		Display Classes.
Part		Display Parts.
External Part		Display External Parts.
Connector		Display Connectors
Port		Display Ports.
Interface		Display Interfaces with icon notation.
Interface (Normal)		Display Interface with normal notation.
Provided Interface		Display Provided Interfaces.
Required Interface		Display Required Interfaces.
Association		Display Associations. (Unspecified Association to Unspecified Association)
Association		Display Associations. (Unspecified Association to Navigable Association)
Association		Display Associations. (Non-navigable Association to Navigable Association)
Association		Display Associations.

		(Navigable Association to Navigable Association)
Aggregation		Display Aggregations. (Aggregation to Unspecified Association)
Aggregation		Display Aggregations. (Aggregation to Navigable Association)
Composition		Display Compositions. (Composition to Unspecified Association)
Composition		Display Compositions. (Composition to Navigable Association)
Generalization		Display Generalizations.
Dependency		Display Dependencies.
Template Binding		Display Template Bindings.
Realization		Display Realizations.
Usage Dependency		Display Usage Dependencies.
Nest		Display Nests.
		See "Common Diagram Elements".

14.11. Flowchart

14.11.1. Diagram Elements of Flowcharts

Transition (Solid Line)		Display Transitions (Solid, Arrow, and Double Arrow)
Transition (Dash Line 1)		Display Transitions (Solid, Arrow, and Double Arrow line)
Transition (Dash Line 2)		Display Transitions (Solid, Arrow, and Double Arrow line)
Transition (Railway)		Display Transitions (Railway)
Lane [Vertical]		Display Vertical Lanes.
Lane [Horizontal]		Display Horizontal Lanes.
Initial Node		Display Initial Nodes.

Final Node		Display Final Nodes.
Flow Final Node		Display Flow Final Nodes.
Condition Judgement		Display Condition Judgements.
Fork		Display Fork.
Join		Display Joins.
		See "Common Diagram Elements".

14.12. Data Flow Diagrams (DFD)

14.12.1. Diagram Elements of Data Flow Diagrams

External Entity	/	Display External Entities.
Process Box	/	Display Process Boxes.
Data Store	/	Display Data Stores.
Anchor		Display Anchors.
Dataflow	/	Display Dataflow.
Dataflow (Both Direction)	/	Display Dataflow.
		See "Common Diagram Elements".

14.13. ER Diagrams

14.13.1. Diagram Elements of ER Diagrams

Entity		Display Entities. ER Entities specified in the [Default ER Entity Type Color] of [Project Property Setting] are included in the Dropdown list.
Identifying Relationship (IDF1X/IE)	/	Display Identifying Relationships.
Non-Identifying Relationship (IDF1X/IE)	/	Display Non-Identifying Relationships.
Many-to-many	/	Display Many-to-many Relationships.

Relationship (IDF1X/IE)		
Subtype (IDF1X/IE)	/	Display Subtypes.
		See "Common Diagram Elements".

14.14.CRUD

This section describes CRUD.

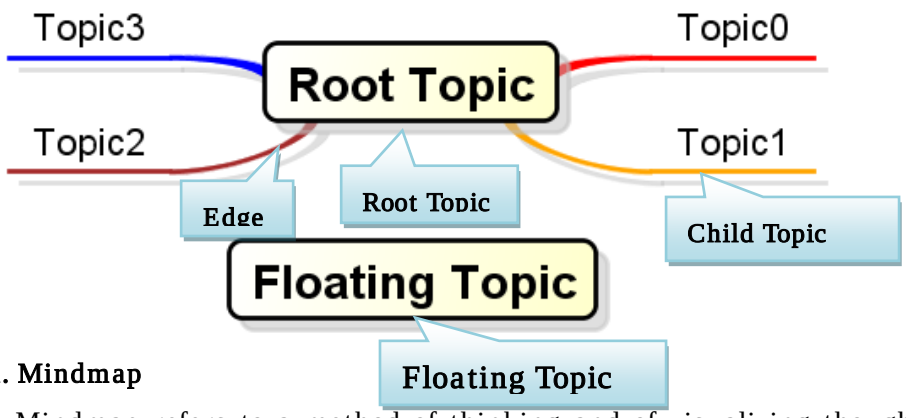
14.14.1. Opening Diagram

a. Double-click a CRUD in the structure Tree in the Project View.

b. Using the Pop-up Menu in the Structure Tree in the Project View.

14.15.Mindmaps

This section describes Mindmaps and the Diagram Elements that they can contain.



a. Mindmap

Mindmap refers to a method of thinking and of visualizing thoughts suggested by Tony Buzan, U.K. Its free and inspiring conventions help to extend ideas.

b. Root Topic

The Root Topic is the root of all other Topics. Root Topics cannot be deleted.

c. Child Topic

Child Topics always have a Parent Topic.

d. Edge

Edge is a line connecting parent topic and child topic.

e. Floating Topic

Independent Topic is an independent topic of a Root Topic.

14.15.1. Diagram Elements of Mind Map

Topic		Display Topics.
Floating Topic		Display Floating Topics.
Link between Topics		Display Links between Topics.
Boundary		Display Boundaries.
Text / TextBox		Insert Text in Diagrams.
Rectangle		Draw Rectangles/Colored Rectangles in Diagrams. For example, Rectangle can be used to enclose a semantic collection of Model Elements.
Corner-Rounded Rectangle		Draw Rounded Rectangles/Colored Rounded Rectangles in Diagrams. For example, they can be used to enclose a semantic collection of Model Elements.
Oval		Draw Ovals /Colored Ovals in Diagrams. For example, they can be used to enclose a semantic collection of Model Elements.
Line		Draw Lines on Diagrams.
FreeHand		Draw Freehand lines on Diagrams.

14.16. Requirement Diagram

This section describes Requirement Diagram and the Diagram Elements that they can contain.

14.16.1. Diagram Elements of Requirement Diagrams

Requirement		Display Requirements
TestCase		Display TestCases
Package		Display Packages
Nest		Display Nests
Derive		Display Derives

14.Diagrams and Diagram Elements

Copy	C	Display Copies
Satisfy	S	Display Satisfy
Verify	V	Display Verify
Refine	R	Display Refines
Trace	T	Display Traces
		See "Common Diagram Elements".

14.16.2. Requirement Table

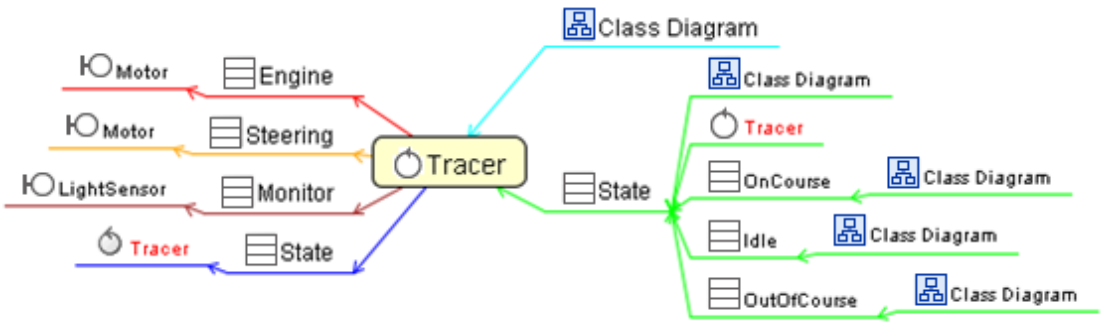
Opening Diagram

a. Double-click a CRUD in the structure Tree in the Project View.

b. Using the Pop-up Menu in the Structure Tree in the Project View.

14.17. Traceability Map

Traceability Map shows the relationships between models with Mind Map format.



14.17.1. Relationships for Traceability Map

(a) Related Models

The following relationships can be displayed in the Traceability Map: Association, AssociationClass, Generalization, Realization, Dependency, Usage, Template Binding, Extend, Include, Identifying Relationship, Non-Identifying Relationship and Many-to-Many Relationship and Subtype

(b) Related Reference

- Type Reference

(Attribute Type, Operation Return Value, Base Class of Instance Specification, Lifeline, Object Node, Component Instance, Node Incetance)

14.Diagrams and Diagram Elements

- Dependencies of Requirements and TestCases
- Diagrams displayed the diagram elements of the models

14.17.2. Opening Diagram

i). Double-click a CRUD in the structure Tree in the Project View.

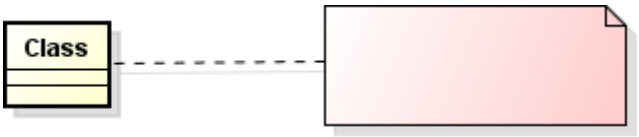
ii). Using the Pop-up Menu in the Structure Tree in the Project View.

14.18. Common Diagram Elements for All Diagram Types

Note		Display comments to Model Elements.
Note Anchor		Anchor Notes to related Model Elements.
Text / TextBox		Insert Text / TextBox.
Rectangle		Draw Rectangles/Colored Rectangles in Diagrams. For example, Rectangle can be used to enclose a semantic collection of Model Elements.
Corner-Rounded Rectangle		Draw Rounded Rectangles/Colored Rounded Rectangles in Diagrams. For example, they can be used to enclose a semantic collection of Model Elements.
Oval		Draw Ovals /Colored Ovals in Diagrams. For example, they can be used to enclose a semantic collection of Model Elements.
Line		Draw Lines on Diagrams.
FreeHand		Draw Freehand lines on Diagrams.
Highlighter		Draw Highlighter on Diagrams.

14.18.1. Notes and Note Anchors

Notes can be used to Display comments to Model Elements. Note Anchors bind Notes to Model Elements.

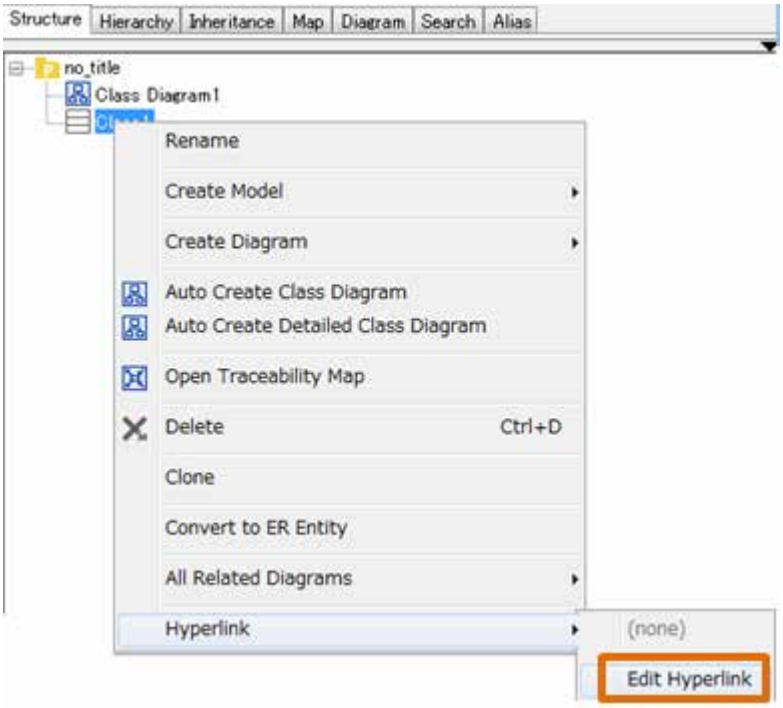


15. Hyperlinks

15.1. Displaying Hyperlinks [Ctrl+K]

i) Using the Pop-up Menu in the Project View.

Right-click on the target model and select [Hyperlink]-[Display Hyperlink] in the [Structure Tree].



ii) Using the Property View

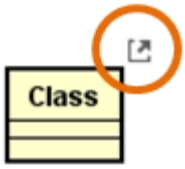
15.1.1. Open Hyperlink

Select the target Hyperlink in the Hyperlink Information Dialog and click [Open Hyperlink].

15.2. Opening Hyperlinks

i) Using the hyperlink icon on the Diagram Editor.

Double-click the hyperlink icon on the Diagram Editor.



ii) Using the Pop-up Menu in the Project View.

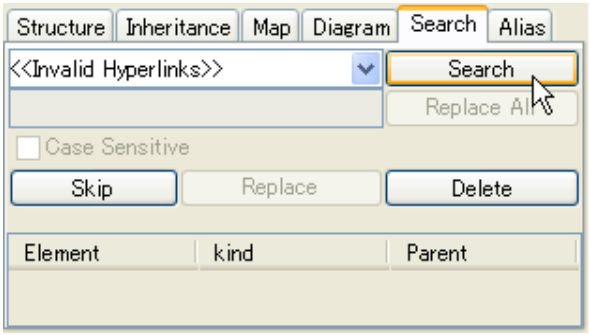
Select [Hyperlink] from the Pop-up Menu.

15.3. Search Invalid Hyperlinks

It searches for invalid Hyperlinks to files. Hyperlinks to URL, Model Elements and Models will not be included.

(1) Open the [Search] Tab in the Project View.

(2) Select [<<Invalid Hyperlinks>>] then press [Search].



(3) Results appear on the List.

16. Keybinds File

You are able to customize shortcut keys to use in Astah as you like.

[How to change the Shortcut keys]

1. Close Astah
2. Copy the “astah-key.properties_org” in Astah install folder to Userhome¥.astah¥viewer and save it as “astah-key.properties”
3. Open “astah-key.properties” and remove “#” from the line of Shortcut key you want to change and set the key value (xxx.key)
4. Save the “astah-key.properties” and then restart Astah

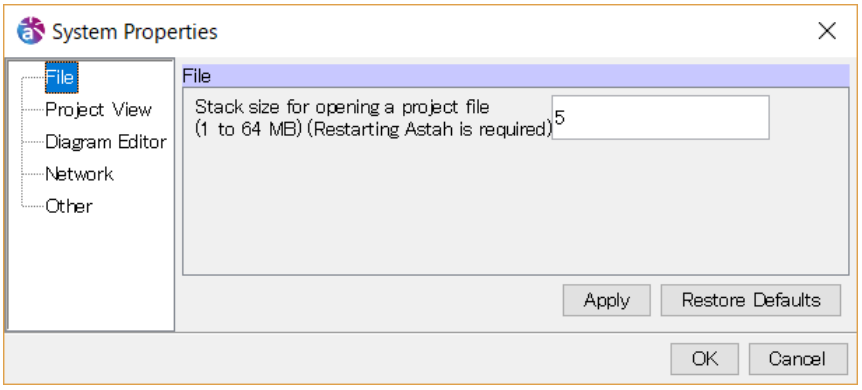
[Note]

1. Do not make duplicated keys
2. By default, some different operations share the same Shortcut key (xxx.key), if you want to change one of them, make sure to change them all.
3. If you re-install Astah such as doing version up etc, please adjust the difference between the new “astah-key.properties_org” and your customized “astah-key.properties” file

17. System Properties

The System Properties of Astah can be set up using [Tool]-[System Properties] in the Main menu.

17.1. File

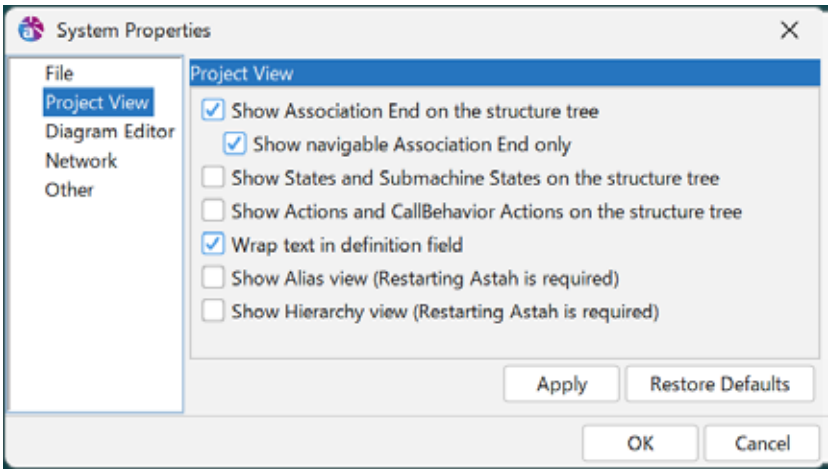


Stack size for opening/saving a project file (1 to 64MB)

(Restarting Astah is required)

Display the stack size number to open or save a project file.
Default [5]

17.2. Project View



a. Show Association End on the structure tree

Default [ON]

b. Show navigable Association End only on the structure tree

Check this option to show Internal Part as Association End (Role) on the structure tree.

17.System Properties

Default [ON]

c. Show States and Submachine States on the structure tree

Check this option to show states and submachine states on the structure tree.
Default [OFF]

d. Show Actions and CallBehavior Actions on the structure tree

Check this option to show actions and CallbehaviorActions on the structure tree.
Default [OFF]

e. Wrap text in definition field

Check this option to wrap the contents of definition field of Property View.
Default [ON]

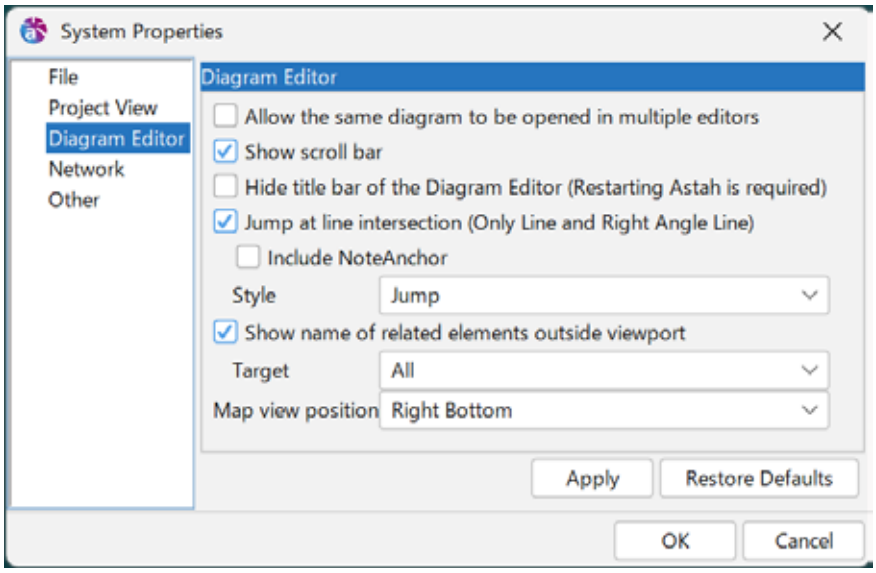
f. Show Alias view (Restarting Astah is required)

Default [OFF]

g. Show Hierarchy view (Restarting Astah is required)

Default [OFF]

17.3.Diagram Editor



a. Allow the same diagram to be opened in multiple Editors

Check this option to allow one diagram to be opened in multiple Editors. When the diagram is altered, the changes are reflected in all other Editors.
Default [OFF]

b. Show scroll bar

Check this option to display Scroll Bars.
Default [ON]

c. Hide title bar of the Diagram Editor (Restarting Astah is required)

Check this option to hide the title bar of Editor frame. Restarting Astah is required.
Default [OFF] ([ON] for Mac)

d. Jump at line intersection (Only Line and Right Angle Line)

Check this option to draw straight lines and right-angle lines so that they jump when the lines intersect.
Default [ON]

You can specify whether to include note anchors (default [OFF]) and jump style (default [Jump]).

e. Show name of related elements outside viewport

Check this option to show name of related elements outside viewport. Default [ON]

Target: Default [All]

- All

  Show all related elements' name.

- All (When nothing is selected)

  Show all related elements' name.

  When nothing is selected, nothing is shown.

- Selected only

  Show only related elements' name of selected elements.

- Selected only (All when nothing is selected)

  Show only related elements' name of selected elements.

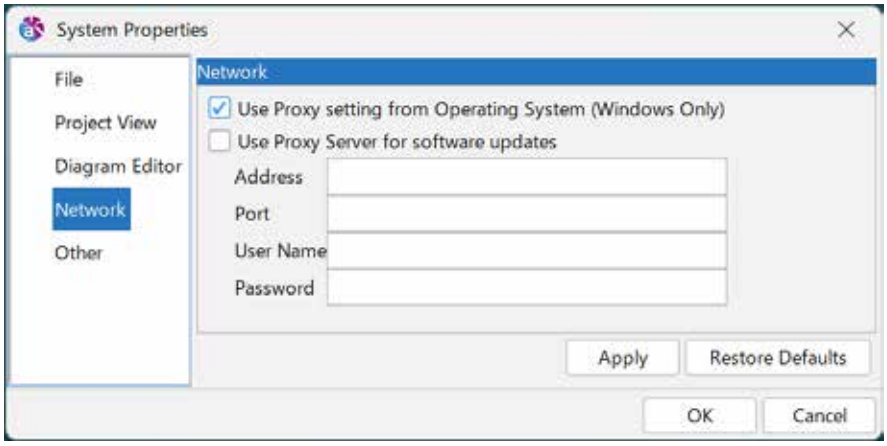
  When nothing is selected, all related elements' name.

f. Map view position

Choose the position where the map view is shown on the diagram editor.
Default [Right Bottom]

17.System Properties

17.4.Network



a. Use Proxy setting from Operating System (Windows Only)

Check this option to use the proxy server setting from Operating System.

Default [ON]

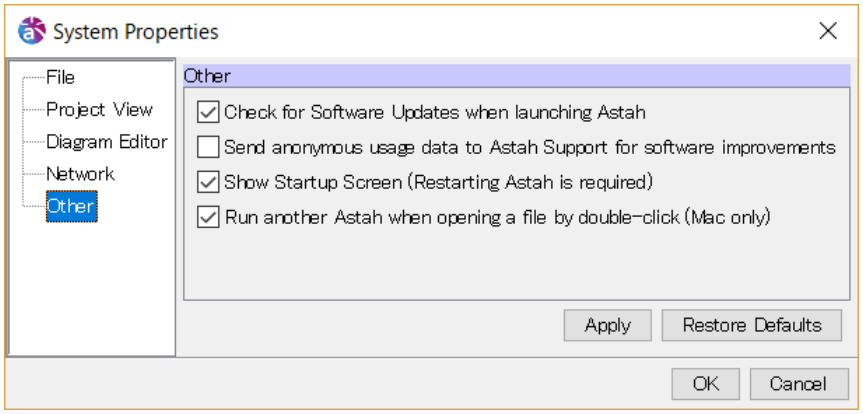
b. Use Proxy Server for software updates

Check this option to use the proxy server to receive update information and activate node count license.

Default [OFF]

Configure the Proxy information in the following fields.

17.5.Other



a. Check for Software Update when launching Astah

Check this option if you want to check software update every time you launch Astah.

Default [ON]

b. Send anonymous usage data to Astah Support for software improvements

Check this option to allow to send anonymous usage data.

Default [OFF]

c. Show Startup Screen (Restarting Astah is required)

Check this option to show the startup screen.

Default [ON]

d. Run another Astah when opening a file by double-click (Mac only)

Check this option to run another Astah when opening a file by double-click. (Mac only)

Default [ON]