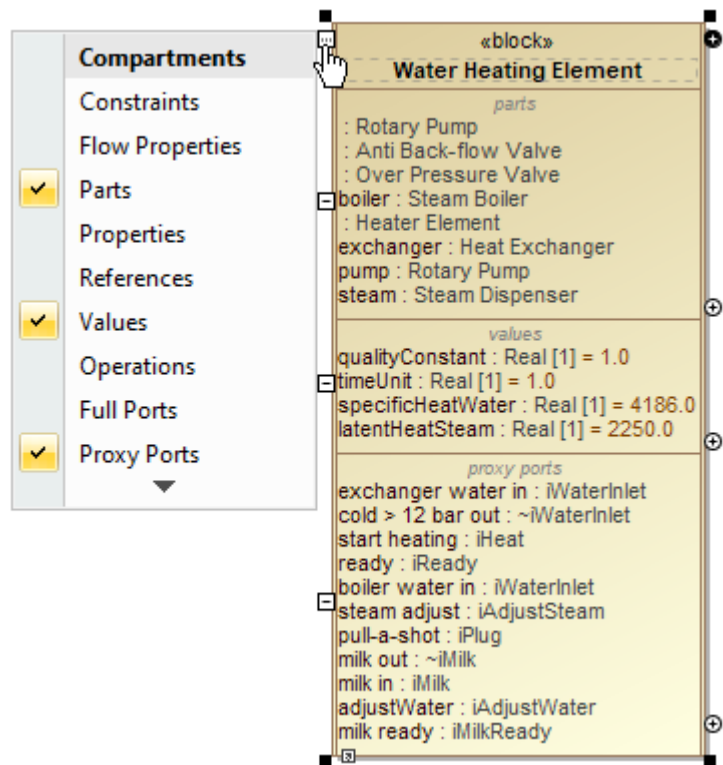


SysML specific compartments

The compartment is an area on or next to the shape used to display component properties. As an example, please see the figure below.



The parts, values, and proxy ports compartments are shown on the Water Heating Element Block shape.

The Compartment Editor allows you to display compartments and their properties on the [Block](#):

- constraints
- flow properties
- parts
- properties (formerly :UML properties)
- references
- values
- full ports
- proxy ports
- parameters

The following table explains which elements are displayed on a selected shape to show the additional information.

SysML specific compartments	Displayed Elements
constraints	Constraints and Constraint Properties. Constraint Properties: properties typed by Constraint Blocks, or subtypes of Constraint Blocks, always having the 'composite' aggregation kind.
flow properties	Flow Properties: properties that apply the «FlowProperty» stereotype.
parts	Part Properties: properties typed by Blocks or subtypes of Blocks.
properties	All other properties that cannot be classified into the previous compartments.
references	Shared Properties and Reference Properties: properties typed by Blocks or subtypes of Blocks (except Constraint Block) having 'shared' and 'none' aggregation kind, respectively. There is no distinction between Shared Property and Reference Property.
values	Value Properties: properties typed by Value Types or subtypes of Value Types, always having the 'composite' aggregation kind.
full ports	The port is stereotyped by FullPort.

proxy ports	The port stereotyped by ProxyPort.
parameters	Constraint Parameters.

The following sections outline the main procedures for working with the compartment area:

- [Creating elements in compartments](#)
- [Displaying and suppressing compartments](#)
- [Customizing compartments](#)

Creating elements in compartments

To quickly create elements in compartments on shapes, do one of the following

- On the diagram, select a shape and click the *Create Element* smart manipulator. Then in the menu, select the element that you want to create.
- On the diagram, select a shape. Then next to the particular compartment, click the *Create <element name>* smart manipulator.

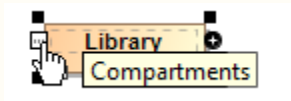
Displaying and suppressing compartments

To display or suppress compartments, do one of the following

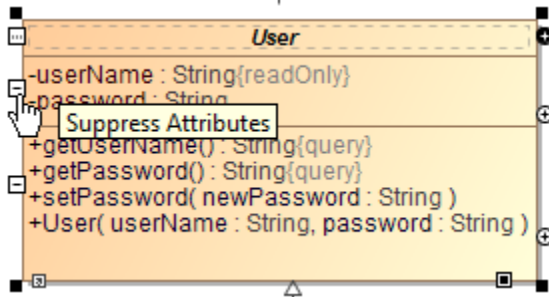
- On the diagram, click the shape and click the *Compartments* smart manipulator. Then select or cancel the selection of the particular compartment, for example, Attributes, Operations.



The Compartments smart manipulator exists on shapes that have compartment boxes. For example, pins, and initial nodes do not have the Compartments smart manipulator.



- On the diagram, select a shape and click the *Suppress <compartment name>* smart manipulator.



- On the diagram, right-click the shape and select **Symbol Properties**. Then select or cancel the selection of the **Suppress <compartment name>** check box.

Customizing compartments

Use the **Compartment Edit** dialog to control the list of elements and properties visible in compartments on shapes. You can display or hide stereotypes, constraints, tagged values, attributes, operations, and others. If there are hidden properties on the boxable compartment, the ... is displayed.

You can also display or hide the element specification properties, such as *Name*, *Is Active*, *Owner*, *To Do* in the **Compartment Edit** dialog under the **Element Properties** tab.

To open the **Compartment Edit** dialog from the diagram pane

- Select a shape and click the *Compartments* smart manipulator. On the menu, click the arrow to expand and then select **Edit Compartments**.

- Right-click a single or any number of shapes or classifier compartments (e.g. Properties, Operations, Receptions, Ports, and etc.), and from the shortcut menu, select **Edit Compartments**.



Compartment Edit dialog of multiple shapes

When you edit compartments of more than one shape at once, the **Compartment Edit** dialog works with the following rules:

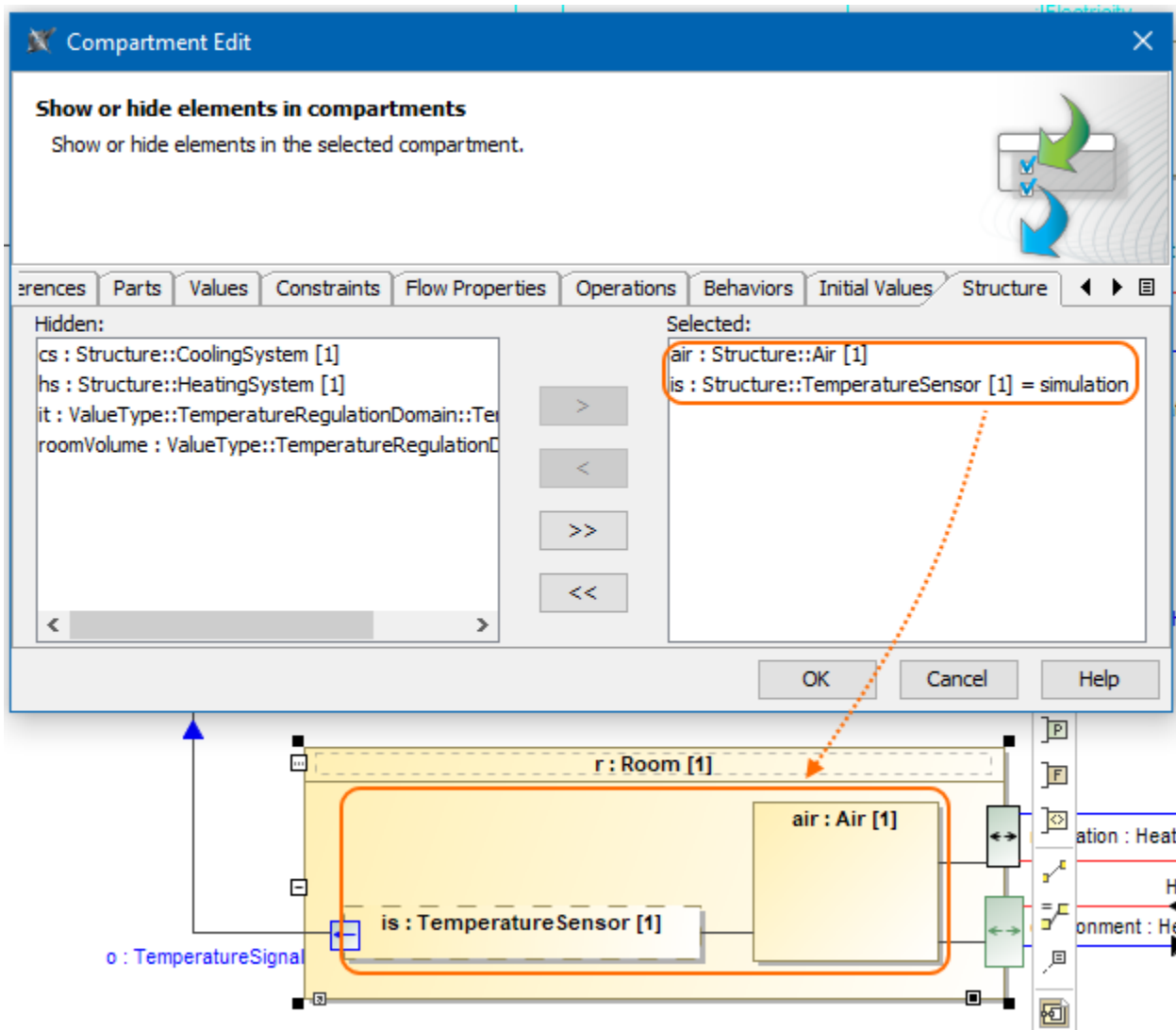
- If you select multiple shapes of the same element, the **Compartment Edit** dialog is the same as for a single shape, but changes are applied for all selected shapes after clicking **OK**.
- If you select multiple shapes of different elements, the **Compartment Edit** dialog shows a union of compartments and their items.
- If you select multiple shapes, but at least one of them hides the common compartment item while another shows it, the **Compartment Edit** dialog displays that item in italics in the **Element Properties** tab > Selected area. If you move the conflicting item to the Hidden area, it becomes non-italicized, and changes are applied for both shapes after clicking **OK**.

- On the Note shape, click the *Edit Element Properties* smart manipulator.

For example, the following procedure shows how to customize the compartments of a part.

To customize a compartment of a Part Property

- Right-click a Part Property shape and from the shortcut menu, select the **Edit Compartment** button.
- In the **Compartment Edit** dialog, select a compartment tab which you want to customize.
- Double-click an element or use the arrow buttons to move an element from the **Hidden** to the **Selected** area to display the element.
- Click **OK** when done.



The air and is properties are displayed on the r part shape by using the Compartment Edit dialog. The image is from the TemperatureRegulationLoop.mzip sample model. Find it in modeling tool <modeling tool installation directory>\samples\SysML.