Creating ports

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Introduction

You can create the following kinds of ports by using SysML Plugin:

- Proxy Ports expose features of the owning Block or its internal Part Properties.
- Full Ports support its own features.
- Flow Port since it is deprecated, you use Proxy Port typed by Interface Block instead of non-atomic Flow Port.

Creating ports

The procedure below is suitable for all kinds of ports.

To create a port, do one of the following

- From the diagram pallet, select the Proxy Port, Full Port, or Flow Port button and click the element on the diagram pane.
- · Select an element on the diagram pane and from the smart manipulator toolbar, click the Proxy Port, Full Port, or Flow Port button.
- In the Block Specification window, select the Ports/Interfaces property group, click the Create button, and select Proxy Port, Full Port, or Flow Port button.



You can also create Proxy Ports at both ends of the Connector by dragging the Interface Block. Learn how to connect parts through interface >>

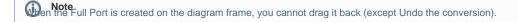
Converting the Part Property to Full Port

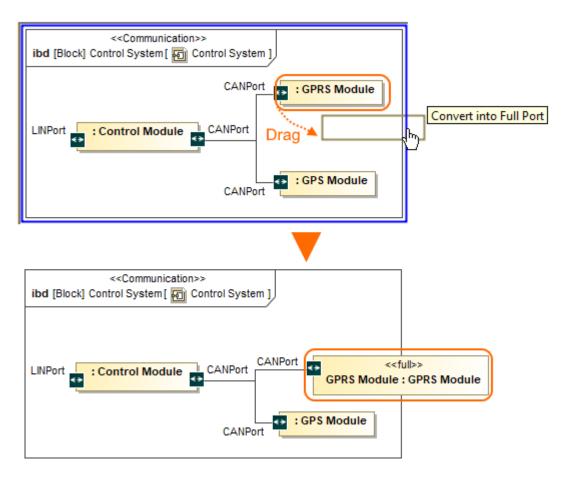
A Full Port is a part on a boundary. You can convert your Parts Properties into Full Ports by dragging them to the diagram frame.



To convert a Part Property to the Full Port

- 1. Select the Part Property shape and drag it to the diagram frame.
- 2. When the diagram frame is highlighted in blue, drop the shape. The Full Port is created on the diagram frame.





The Part Property converted to the Full Port.

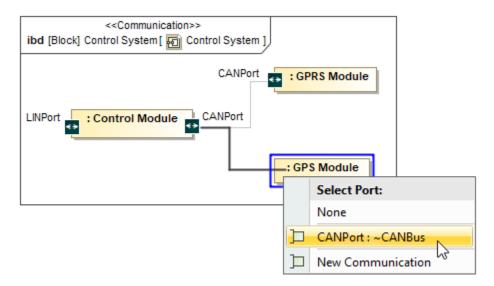
Creating a port while creating a Connector

The procedure below is suitable for all kinds of ports.

To create a port automatically when drawing a Connector from a port to a Part Property

- 1. Select a port shape on the diagram pane.
- 2. On the smart manipulator toolbar, click and select Part Property shape. appears.
 - menu appears if a new port can be created on the Part Property or it has hidden ports.
- 3. From the Select Port menu, select one of the following command:
- None if you want to connect Connector straight to the part.
- On a port in the list. Hidden ports of the part are listed. The selected port will be represented on the diagram and the connector will be connected
 to it.
- New Port to create a new port with the same name, type and multiplicity as the port from which the connector is drawn.
- New Nested Port to create a new nested port. Note that the command exists only if the connector is drawn from the nested port.

(a) can draw a Connector to a port too and the menu appears. As a result, the nested port is created.



The Select Port menu opens after drawing the Connector from the CANPort Port to Part Property typed by GPS Module Block.

Port features

Related pages

- Displaying parts and ports
- Connecting parts through interface
- Autowiring function
- Layout templates
- Refactoring
- Proxy PortFull Port
- Flow Port
- Connector
- Interface Block
- Block



The model used in the figures of this page is the diagram aspects sample model. To open this sample do one of the following:

Sample model

- Download diagram aspects.mdzip.
- Find in modeling tool <modeling tool installation directory>\samples\SysML\diagram aspects.mdzip.