# Mapping ports on a Part type change

On a Part type change, ports of the original Part type are automatically replaced with ports of a new type. Connectors are reconnected accordingly too.

Ports are mapped automatically if particular rules are met. Otherwise, the **Port Mapping** dialog appears.
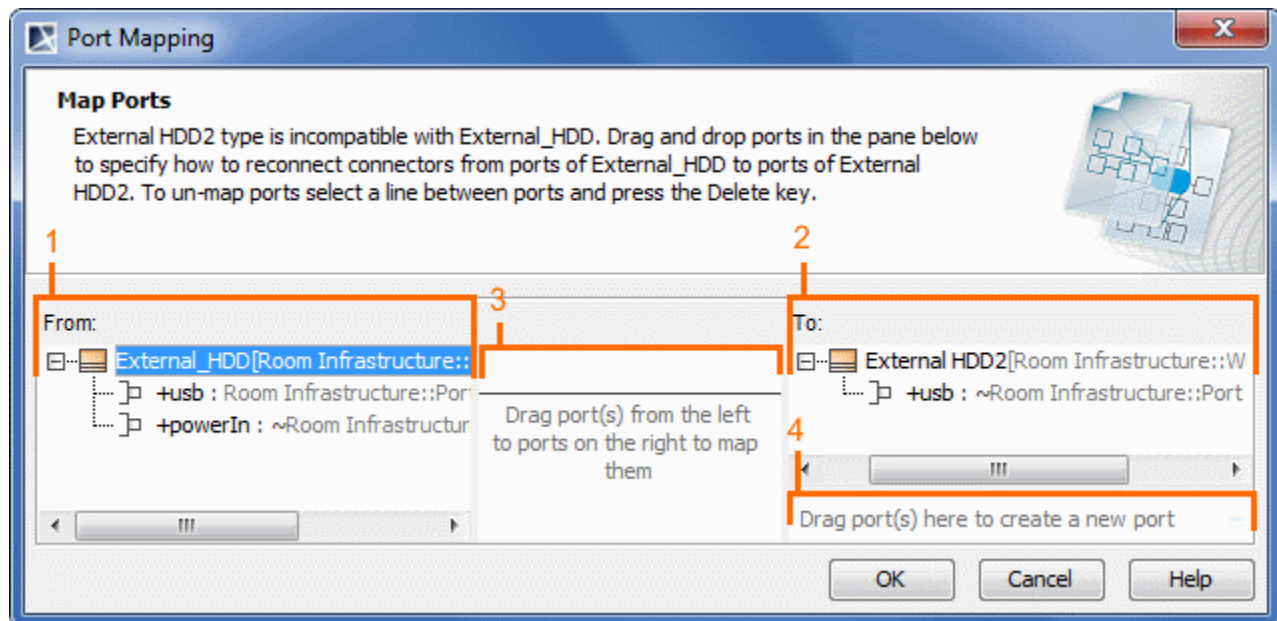
## Rules of automatic port mapping

Ports are mapped automatically:

- When the following properties of the Port of the original Part type are the same as the properties of the Port of the new part type:
    - **Port type and name**
    - **Port type** (note that only one Port of the new Part type has the same type as Port(s) of the original Part type)
    - **Port name** (valid if the type of the original Port is **not** specified)
- Ports of the original Part type and the Port of the new Part type has the same Interface.
- When the new Part type is subtype of the original Part type (inherited ports are mapped automatically with ports which they are inherited).
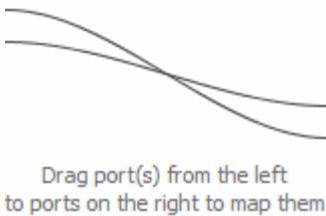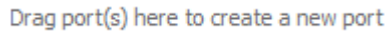- When the ports of a new type redefines ports of original Part type.

## The Port Mapping dialog

The **Port Mapping** dialog appears on changing a Part type when ports of the type cannot be mapped automatically.



See the elements of the **Port Mapping** dialog described in the following table.

| Element number | Element | Description |
|---|---|---|
| 1 | From: | Lists the type of the Part from which you want to make a replacement. Ports of the type are listed under the type. |
| 2 | To: | Lists the type of the Part to which you want to make a replacement. Ports of the type are listed under the type. |

| 3 | Drag port(s) from the left to ports on the right to map them | Displays lines between the mapped ports. |
|---|---|---|
| 4 | Drag port(s) here to create a new port | Creates a new port in the **To** list.<br>In the **From** list, click a port and then drag it to the "Drag port(s) here to create a new port" box. The port for the new type will be created and mapped. |

To map ports in the **Port Mapping** dialog

1. Select a Port in the **From** box.
2. Drag the selected Port onto a Port in the **To** box. The ports are mapped and the line between them is displayed.

> ⓘ You can also select multiple number of ports in the **From** box and drag onto a port in the **To** box. The selected ports will be mapped with the Port.

To create a new Port in the **To** box

1. Select a Port in the **From** box.
2. Drag the selected Port onto the following box: "*Dragport(s)heretocreateanewport*". The new Port is created in the **To** box and ports are mapped.

> ⓘ You can also select multiple number of ports in the **From** box and drag onto the box: "*Drag port(s) here to create a new port*". The selected number of ports will be created.

To un-map ports in the **Port Mapping** dialog

1. Select the line between the mapped ports.
2. Press the **Delete** key. The line is deleted and ports unmapped.