
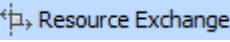


# Realized Resource Exchange wizard


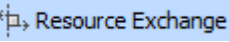
To open the **Realized Resource Exchange** wizard

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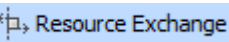
- In the [SV-1](#), [SV-2](#) (DoDAF) diagrams:

- On the diagram pane, select the Association and on the smart manipulator toolbar, click .
- Click  and on the diagram pane, connect Resources.
- Click the Control relationship and connect Posts or Organizations with Posts, Organizations, Natural Resources, Software, Resource Artifact, Technology.
- Click the Command relationship and connect Posts, Organizations.


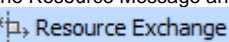
- In the [SV-1 Internal](#), [SV-2 Internal](#) (DoDAF):

- On the diagram pane, select the Resource Connector and on the smart manipulator toolbar, click .
- On the diagram palette, click  and then click the Resource Connector.

- In the [SV-4](#) Flow (DoDAF) diagram:

- On the diagram pane, select Function Control Flow or Function Object Flow and on the smart manipulator toolbar click .
- On the diagram palette, click  and then click Function Control Flow or Function Object Flow.

- In the [SV-10c](#) (DoDAF) diagram:

- On the diagram pane, select the Resource Message and on the smart manipulator toolbar, click .
- On the diagram palette, click  and then click the Resource Message.

- In the [SV-3](#), [SvcV-3a](#), [SvcV-3b](#) (DoDAF) matrix :

- On the diagram pane, right-click the intersection in the matrix and select **Add New Resource Exchange**.

The **Realized Resource Exchange** wizard includes of two steps:

- 1 [Resource Exchange creation \(mandatory\)](#)
- 2 [Producing and Consuming Functions specification \(optional\)](#)

## Resource Exchange creation (mandatory)


This step is designed to create a new Resource Exchange by specifying a conveyed Resource Exchange Item, both sending and receiving Resources, and a direction of a Resource Exchange. Depending on a fact, if selected Resources are known or not, requested information differs:

- If sending and receiving Resources are unknown from the wizard invocation context, you need to specify both.

**Realized Resource Exchange**

### New Resource Exchange

To create a new Resource Exchange, specify the Conveyed Data Item, Resource Exchange Type, Sending and Receiving Resources, Exchange Direction.



**1. Create New or Select Existing Resource Exchange**  
 **2. Specify Producing and Consuming Functions**

Resource Exchange Type: Resource Exchange  
 Exchange Kind: Resource Communication  
 Conveyed Item:  ...  
 Resource Exchange: <NEW>  
 Sending Resource: Boat  
 Receiving Resource: MRT Driver  
 Direction: From Boat To MRT Driver


Add Resource Exchange to corresponding relationships

- If sending and receiving Resources are known, they are added to a **Realized Resource Exchange** wizard automatically.

**Realized Resource Exchange**

### New or Existing Resource Exchange

To create a new Resource Exchange, specify the Conveyed Data Item, Resource Exchange Type, and Exchange Direction. You can also select existing Resource Exchange from Drop Down List.






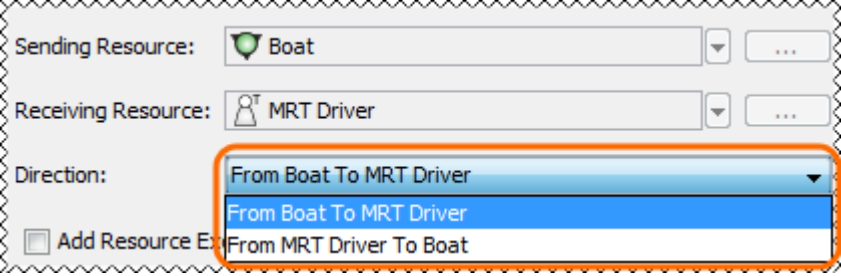
**1. Create New or Select Existing Resource Exchange**  
 **2. Specify Producing and Consuming Functions**

Resource Exchange Type: Resource Exchange  
 Exchange Kind: Resource Communication  
 Conveyed Item:  ...  
 Direction: From Boat To MRT Driver

Add Resource Exchange to corresponding relationships

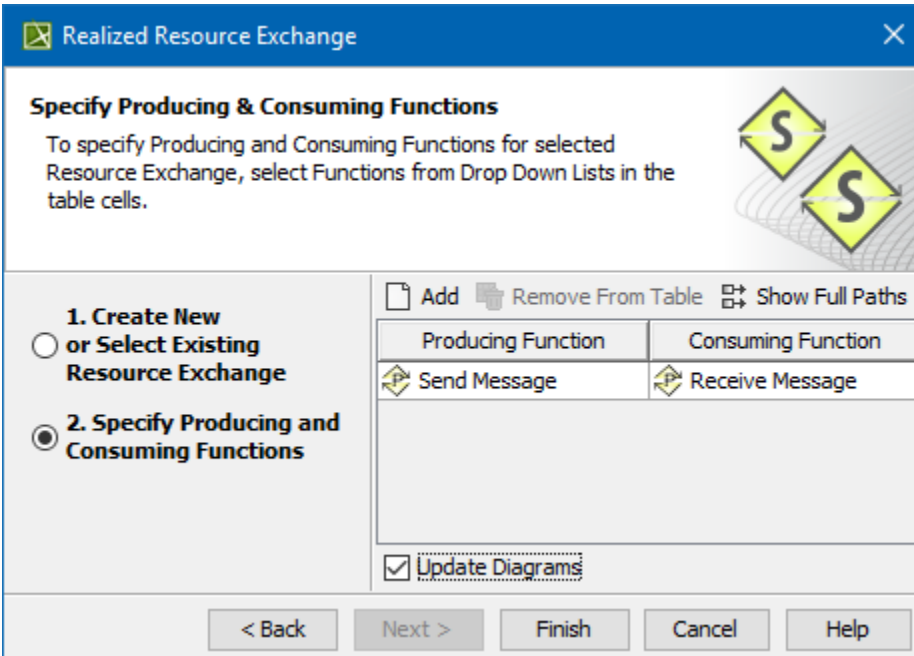
Box	Description
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<p><b>Exchange Kind</b></p>	<p>Shows the type of exchanged resources:</p> <ul style="list-style-type: none"> <li>• Resource Communication.</li> <li>• Resource Movement.</li> <li>• Resource Energy Flow.</li> <li>• Geo Political Extent Exchange.</li> </ul>										
<p><b>Conveyed Item</b></p>	<p>One or more Resource Exchange Items that are conveyed by the information flow from the sending Resource to receiving Resource.</p> <table border="1" data-bbox="456 386 1036 1142"> <thead> <tr> <th data-bbox="456 386 745 443">Exchange Kind</th> <th data-bbox="745 386 1036 443">Conveyed Item</th> </tr> </thead> <tbody> <tr> <td data-bbox="456 443 745 527">Geo Political Extent Exchange</td> <td data-bbox="745 443 1036 527"> <ul style="list-style-type: none"> <li>• Geo Political Extent Type</li> </ul> </td> </tr> <tr> <td data-bbox="456 527 745 642">Resource Communication</td> <td data-bbox="745 527 1036 642"> <ul style="list-style-type: none"> <li>• Data Element</li> <li>• Resource Signal</li> </ul> </td> </tr> <tr> <td data-bbox="456 642 745 730">Resource Energy Flow</td> <td data-bbox="745 642 1036 730"> <ul style="list-style-type: none"> <li>• Natural Resource</li> </ul> </td> </tr> <tr> <td data-bbox="456 730 745 1142">Resource Movement</td> <td data-bbox="745 730 1036 1142"> <ul style="list-style-type: none"> <li>• Security Enclave</li> <li>• Resource Mitigation</li> <li>• Capability Configuration</li> <li>• System</li> <li>• Resource Architecture</li> <li>• Natural Resource</li> <li>• Technology</li> <li>• Software</li> <li>• Resource Artifact</li> <li>• Project</li> <li>• Responsibility</li> <li>• Person</li> <li>• Post</li> <li>• Organization</li> <li>• Known Resource</li> </ul> </td> </tr> </tbody> </table>	Exchange Kind	Conveyed Item	Geo Political Extent Exchange	<ul style="list-style-type: none"> <li>• Geo Political Extent Type</li> </ul>	Resource Communication	<ul style="list-style-type: none"> <li>• Data Element</li> <li>• Resource Signal</li> </ul>	Resource Energy Flow	<ul style="list-style-type: none"> <li>• Natural Resource</li> </ul>	Resource Movement	<ul style="list-style-type: none"> <li>• Security Enclave</li> <li>• Resource Mitigation</li> <li>• Capability Configuration</li> <li>• System</li> <li>• Resource Architecture</li> <li>• Natural Resource</li> <li>• Technology</li> <li>• Software</li> <li>• Resource Artifact</li> <li>• Project</li> <li>• Responsibility</li> <li>• Person</li> <li>• Post</li> <li>• Organization</li> <li>• Known Resource</li> </ul>
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<p><b>Resource Exchange</b></p>	<p>Resource Exchange that specifies an information flow for specified conveyed items.</p> <p>If you select an existing Resource Exchange from the drop-down list, Conveyed Item and Direction boxes will be filled with corresponding information automatically. You will be able to edit values of conveyed items.</p> <p>The direction of the information flow won't be editable.</p> <div data-bbox="456 1325 1484 1402" style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;">  Available if sending and receiving Resources are known from the wizard invocation context.         </div>										
<p><b>Sending Resource</b></p>	<p>Resource that sends the specified conveyed information.</p> <div data-bbox="456 1493 1484 1570" style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;">  Available if a Resource is unknown from the wizard invocation context.         </div>										
<p><b>Receiving Resource</b></p>	<p>Resource that receives the specified conveyed information.</p> <div data-bbox="456 1661 1484 1738" style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;">  Available if a Resource is unknown from the wizard invocation context.         </div>										

<p><b>Direction</b></p>	<p>Direction of the information flow.</p>  <p>After changing the direction from the default one, the sending resource will be switched with the receiving resource. The direction of the Resource Exchange will be changed accordingly.</p>
<p><b>Add Resource Exchange to corresponding relationships</b></p>	<p>Select the check box, if you want to add the Resource Exchange to corresponding relationships existing in other related diagrams. These are the relationships that can realize the Resource Exchange:</p> <ul style="list-style-type: none"> <li>- Resource Connector (SV-1 Internal, SV-2 Internal)</li> <li>- Function Control Flow (SV-4)</li> <li>- Function Object Flow (SV-4)</li> <li>- Resource Message (SV-10c)</li> <li>- Association (SV-1, SV-2)</li> <li>- Control (SV-1, SV-2)</li> <li>- Command (SV-1, SV-2)</li> <li>- Intersection in the matrix (SV-3, SvcV-3a , SvcV-3b)</li> </ul>

## Producing and Consuming Functions specification (optional)

This step is designed to specify Producing and Consuming Functions for the created or selected Resource Exchange. Resource Exchange are produced and consumed by Activities acting under the Resource.



**Specify Producing & Consuming Functions**

To specify Producing and Consuming Functions for selected Resource Exchange, select Functions from Drop Down Lists in the table cells.

1. Create New or Select Existing Resource Exchange  
 2. Specify Producing and Consuming Functions

Producing Function	Consuming Function
Send Message	Receive Message

Update Diagrams

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⚠ There should always be a pair of functions: one to produce and other to consume information flow.

## Related procedures

- [Creating Resource Exchange in P1 diagram](#)
- [Creating Resource Exchange in P2 diagram](#)
- [Creating Resource Exchange in P4 Resource Functions diagram](#)
- [Creating P4 Resource Functions diagram](#)
- [Creating Resource Exchange in P6 diagram](#)
- [Creating Resource Exchange in SvcV-3a matrix](#)
- [Creating Resource Exchange in SvcV-10c diagram](#)
- [Creating Resource Exchanges in SV-1 diagram](#)
- [Creating Resource Exchange in SV-1 Internal diagram](#)
- [Creating Resource Exchange in SV-2 Internal diagram](#)
- [Creating Resource Exchange in SV-2 diagram](#)
- [Creating Resource Exchange in SV-4 Systems Functionality Flow Description diagram](#)
- [Creating Resource Exchange in SV-10c diagram](#)
- [Producing and Consuming Functions dialog](#)
- [Resource Exchange Manager dialog](#)