

Realized Resource Exchange wizard

To open the **Realized Resource Exchange** wizard

- 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.

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

☒ 1. Create New or Select Existing Resource Exchange

☐ 2. Specify Producing and Consuming Functions

Exchange Kind: Resource Communication

Conveyed Item:

Resource Exchange Type: Resource Exchange

Resource Exchange: <NEW>

Sending Resource: Boat

Receiving Resource: MRT Driver

Direction: From Boat To MRT Driver

☐ Add Resource Exchange to corresponding relationships

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Next >

Finish

Cancel

Help

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

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

☒ 1. Create New or Select Existing Resource Exchange

☐ 2. Specify Producing and Consuming Functions

Exchange Kind: Resource Communication

Conveyed Item:

Resource Exchange Type: Resource Exchange

Direction: From Boat To MRT Driver

☐ Add Resource Exchange to corresponding relationships

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Next >

Finish

Cancel

Help

Box	Description
Exchange Kind	Shows the type of exchanged resources: - Resource Communication. - Resource Movement. - Resource Energy Flow. - Geo Political Extent Exchange.

Conveyed Item	One or more Resource Exchange Items that are conveyed by the information flow from the sending Resource to receiving Resource. <table data-bbox="456 205 1036 961"><tr><th data-bbox="456 205 745 258">Exchange Kind</th><th data-bbox="745 205 1036 258">Conveyed Item</th></tr><tr><td data-bbox="456 258 745 348">Geo Political Extent Exchange</td><td data-bbox="745 258 1036 348"> • Geo Political Extent Type </td></tr><tr><td data-bbox="456 348 745 459">Resource Communication</td><td data-bbox="745 348 1036 459"> • Data Element • Resource Signal </td></tr><tr><td data-bbox="456 459 745 550">Resource Energy Flow</td><td data-bbox="745 459 1036 550"> • Natural Resource </td></tr><tr><td data-bbox="456 550 745 961">Resource Movement</td><td data-bbox="745 550 1036 961"> • Security Enclave • Resource Mitigation • Capability Configuration • System • Resource Architecture • Natural Resource • Technology • Software • Resource Artifact • Project • Responsibility • Person • Post • Organization • Known Resource </td></tr></table>	Exchange Kind	Conveyed Item	Geo Political Extent Exchange	• Geo Political Extent Type	Resource Communication	• Data Element • Resource Signal	Resource Energy Flow	• Natural Resource	Resource Movement	• Security Enclave • Resource Mitigation • Capability Configuration • System • Resource Architecture • Natural Resource • Technology • Software • Resource Artifact • Project • Responsibility • Person • Post • Organization • Known Resource
Exchange Kind	Conveyed Item										
Geo Political Extent Exchange	• Geo Political Extent Type										
Resource Communication	• Data Element • Resource Signal										
Resource Energy Flow	• Natural Resource										
Resource Movement	• Security Enclave • Resource Mitigation • Capability Configuration • System • Resource Architecture • Natural Resource • Technology • Software • Resource Artifact • Project • Responsibility • Person • Post • Organization • Known Resource										
Resource Exchange	Resource Exchange that specifies an information flow for specified conveyed items. 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. The direction of the information flow won't be editable.  Available if sending and receiving Resources are known from the wizard invocation context.										
Sending Resource	 Available if a Resource is unknown from the wizard invocation context.										
Receiving Resource	 Available if a Resource is unknown from the wizard invocation context.										

Direction	Direction of the information flow. Sending Resource: Boat Receiving Resource: MRT Driver Direction: From Boat To MRT Driver From Boat To MRT Driver From MRT Driver To Boat ☐ Add Resource Exchange 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.
Add Resource Exchange to corresponding relationships	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: - Resource Connector (SV-1 Internal, SV-2 Internal) - Function Control Flow (SV-4) - Function Object Flow (SV-4) - Resource Message (SV-10c) - Association (SV-1, SV-2) - Control (SV-1, SV-2) - Command (SV-1, SV-2) - Intersection in the matrix (SV-3, SvcV-3a , SvcV-3b)

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.

Realized Resource Exchange

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

☐ Add
 ☐ Remove From Table
 ☐ Show Full Paths

Producing Function	Consuming Function
Send Message	Receive Message

☒ Update Diagrams

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](#)