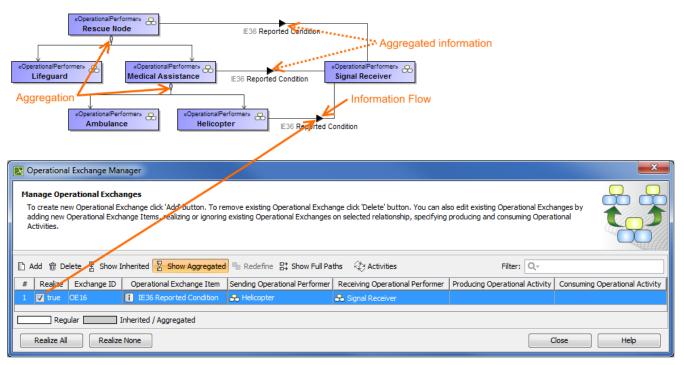
Inheritance, Aggregation, Composition, and Redefinition of Exchanges

The Operational Exchanges and Resource Exchanges can be inherited, aggregated, or composed. You can redefine the inherited flows.

You can see the inherited, aggregated, and composed exchanges in:

- Operational Exchange Manager dialog
- Resource Exchange Manager dialog
- Role-based tables OV-3, NOV-3, SV-6, NSV-6, L3, and P3.



Case Study

Let's say, we have Operational Performers Search Node and Place Of Safety related with the Operational Exchange Warning Order. The Operational Performer Aircraft specifies Operational Performer Search Node. Then we draw an association between Aircraft and Place Of Safety. In this case, the drawn association inherits the Operational Exchange information that can be realized or not and also can be redefined.

Let's realize the Operational Exchange. We can do this in two ways:

- By clicking hin the association smart manipulator toolbar.
- By selecting the check box in the Realize column of the Operational Exchange Manager dialog.

CoperationalPerformers Search Node place Of Safety IE6 Warning Order place Of Safety place Of								
Operational Exchange Man	nager							
Manage Operational Exchanges To create new Operational Exchange dick 'Add' button. To remove existing Operational Exchange dick 'Delete' button. You can also edit existing Operational Exchanges by adding new Operational Exchange Items, realizing or ignoring existing Operational Exchanges on selected relationship, specifying producing and consuming Operational Exchanges by Activities.								
🗈 Add 🍵 Delete 🚪 Show I	inherited 🖁 Show Aggregated	Redefine 😫 Show Full Pa	ths 🔶 Activities	Filter: Q-				
# Realize Exchange ID	Operational Exchange Item	Sending Operational Performer	Receiving Operational Performer	Producing Operational Activity	Consuming Operational Activity			
1 🗌 false OE14	i IE6 Warning Order	🐣 Aircraft	용 Place Of Safety					
2 🗌 false OE1	i IE6 Warning Order	용 Search Node	용 Place Of Safety	🔗 Send Warning Order	References Warning Order			
Regular I	Regular Inherited / Aggregated							
Realize All Realize None Close Help								

To hide inherited exchanges in dialogs

1. Click Options > Project.

In the Project Options dialog, select General > UAF.
 Set the Respect UAF Information Flows on Generalization property value to *false*.

- The exchange is not created for the drawn association, it is only realized.
- The realization of the exchange will be removed from the association when Generalization or Exchange is removed.

All the inherited exchanges can be also seen in the role-based tables. The inherited exchange rows are displayed in gray.

To see the inherited exchanges

1. On the table toolbar, select Show Rows and then click the Inherited Operational Exchange or Resource Exchange button.

	OV-3 Role-based ×								
🔶 🔶 🗓 Add Existing < Activities 🍵 Delete 🖷 Remove From Table 🧯 🕁 🦊 🦌 Show Columns 🍬 Show Rows 🕴 🖺 Report 🗈 Export 🕴 🧲									
Criteria					Configuration Exchange				
Scope (optional): Drag elements from the Model Browser () Filter: 🖓				~	Energy Exchange				
# Exchange ID		Operational Exchange		~	Geo Political Extent Exchange				
		Item	Sending Role		Information Exchange				
1	OE1	IE6 Warning Order	🔗 Searcher	~	Materiel Exchange				
2	OE2	IE9 Medical Condition	Searcher	~	Organizational Exchange				
			0- 3- 3- 3- 3- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-		Inherited Operational Exchange				
3	OE2	i IE9 Medical Condition	🔗 Searcher	 Image: A start of the start of	Aggregated Operational Exchange ^し る				

⁽)

When we have the inherited Operational Exchange, we can redefine it. This means, that the inherited Operational Exchange will be copied together with the information such as Actual Measurements, Conveyed Items, Documentation. The new Operational Exchange will be created in the model.

	place Of Safety Operational	Performer» 📿							
Search Node IE6 Warning Order Place Of Safety									
«OperationalPerformer» & aircraft Aircraft «OperationalPerformer» & helicopter Helicopter	Place Of Safety Place	of Safety	*****	*****					

😰 Operational Exchange Manager				X					
Manage Operational Exchanges To create new Operational Exchange click 'Add' button. To remove existing Operational Exchange click 'Delete' button. You can also edit existing Operational Exchanges by adding new Operational Exchange Items, realizing or ignoring existing Operational Exchanges on selected relationship, specifying producing and consuming Operational Exchanges Activities. Redefine selected row									
adding new Operational Exchange Items, realizing or ignorin	g existing Operational Exchanges	on selected relationship, specifying							
adding new Operational Exchange Items, realizing or ignorin	g existing Operational Exchanges	on selected relationship, specifying							
adding new Operational Exchange Items, realizing or ignorin Activities.	g existing Operational Exchanges	on selected relationship, specifying	producing and consuming Opera						
adding new Operational Exchange Items, realizing or ignorin Activities.	g existing Operational Exchanges Redefine selected d 단 Redefine 맑 Show Full Pa	on selected relationship, specifying rOW ths 갻강 Activities	Filter: Q.	tional					
adding new Operational Exchange Items, realizing or ignorin Activities. C Add @ Delete 문 Show Inherited 문 Show Aggregate # Realize Exchange ID Operational Exchange Item	g existing Operational Exchanges Redefine selected d The Redefine ## Show Full Pa Sending Operational Performer	on selected relationship, specifying TOW ths ② Activities Receiving Operational Performer	Filter: Q.	tional Consuming Operational Activity					
adding new Operational Exchange Items, realizing or ignorin Activities.	g existing Operational Exchanges Redefine selected d Redefine # Show Full Pa Sending Operational Performer & Helicopter	on selected relationship, specifying TOW ths C Activities Receiving Operational Performer C Place Of Safety	Filter: Q Producing Operational Activity	Consuming Operational Activity Redefined					
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adding new Operational Exchange Items, realizing or ignorin Activities.	g existing Operational Exchanges Redefine selected d Redefine 3: Show Full Pa Sending Operational Performer & Helicopter Search Node	on selected relationship, specifying TOW ths C Activities Receiving Operational Performer Place Of Safety Place Of Safety Place Of Safety	Producing and consuming Operatorial Filter: Q.	Consuming Operational Activity Redefined					

To redefine the Operational Exchange

1. In the **Operational Exchange Manager** dialog, select the inherited Operational Exchange and click the **Redefine** button. The new Operational Exchange is created.

(i) All the information that comes from the inherited exchange when redefining it can be modified in the model.