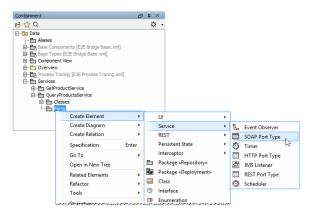
Web Service Interface Lesson 3 MD18

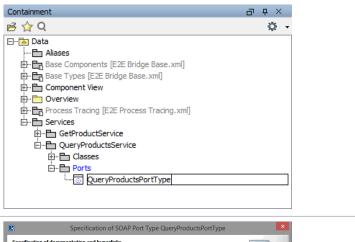


In the next development step, you will define the SOAP interface of the Web service.

Defining the Port Type

In the containment tree, collapse all open packages within the package **Data / Services**. Navigate to the package **Data / Services / QueryProductsService / Ports**, and create a new SOAP Port Type class. This can be done manually (as explained in lesson 2) or via **Create Element > Service > SOAP Port Type**.





Specification of SOAP Port Type QueryProductsPortType

Specification of documentation and hyperlinks
Write documentation for the selected SOAP Port Type and assign hyperlinks. The hyperlink can drect the user to a nodel element, web page, or file.

Documentation/Hyperlinks

Doc

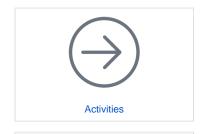
Double-click the port type and enter a description of the port type in the **Docum entation** /Hyperlinks section:

Assign the name QueryP

уре.

roductsPortT

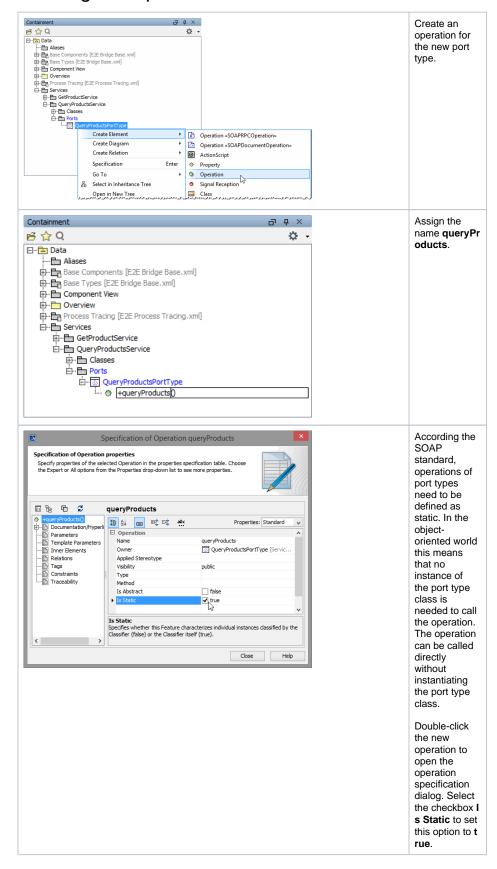
The port type provides an operation to query an XML file containing product data. The search result is displayed in the client application.

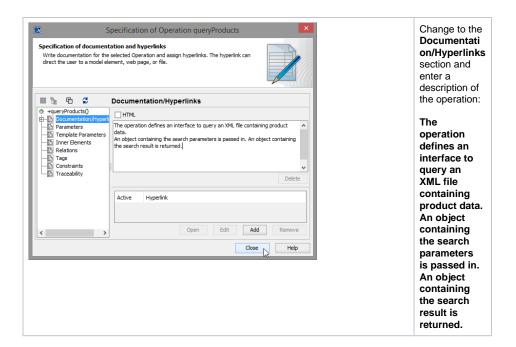


On this Page:

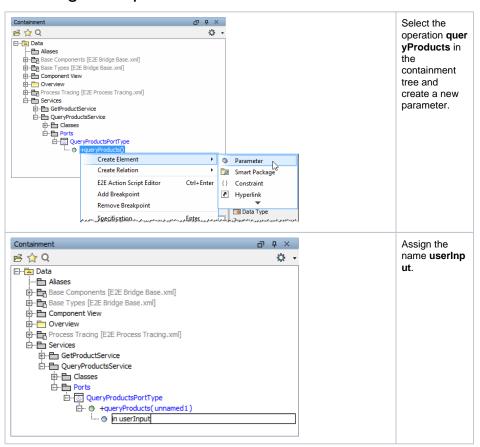
- Defining the Port Type
- Defining the Operation
- Defining the Operation Parameters
- Assigning a new Activity
 Diagram to the Operation
- Assigning Activity
 Diagrams to Use Cases

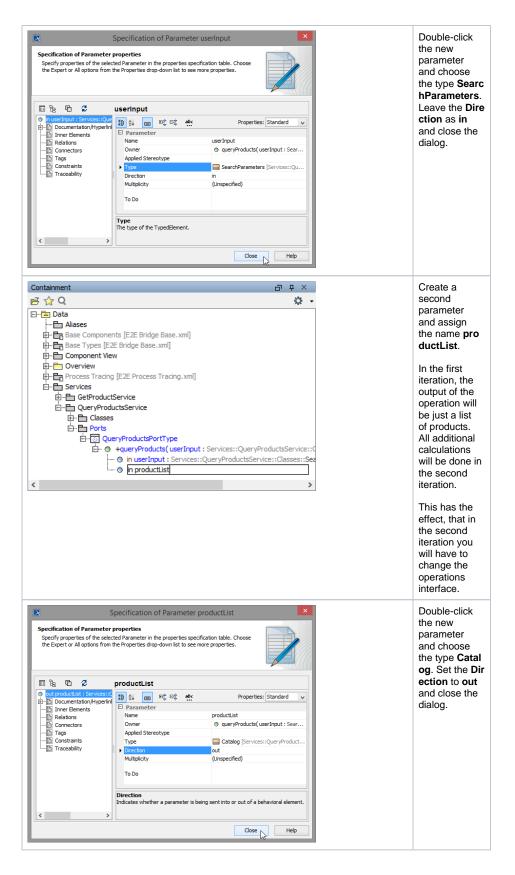
Defining the Operation





Defining the Operation Parameters



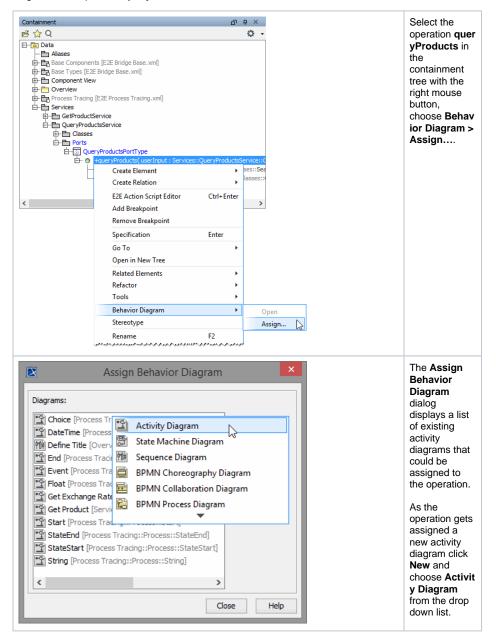


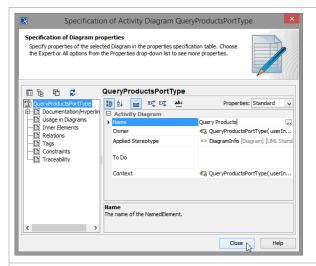
Assigning a new Activity Diagram to the Operation

At this point, the interface of the Web service is nearly complete. Each operation must be assigned to an activity diagram of the UML model.

Operations of a port type represent the interfaces of a Web service. Activity diagrams implement the behavior of these operations. Each port type operation has to be assigned to the implementing activity diagram. When the operation is called, the assigned activity diagram will be executed.

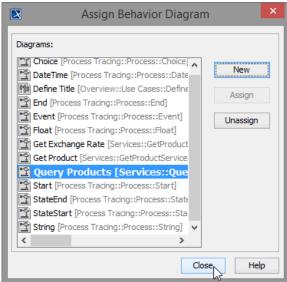
The activity diagram has not been created yet. In the next step, you will directly assign a new activity diagram to the operation **queryProducts**.





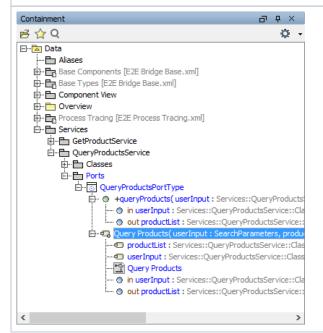
The name of the activity respectively the activity diagram should always correspond to the name of the operation it is specifying.

In the dialog S pecification of Activity Diagram QueryProduct tsPortType change the name to Quer y Products.



The new activity diagram now is listed in the Assign Behavior Diagram dialog and is assigned to the operation queryProducts

Click Close.



Expand the activity Query Products.

The activity diagram **Quer y Products** is part of the new activity that has been created at the same time.

Note, that the necessary parameter nodes have been created automatically as well. If you double-click the operation **queryProducts** in the containment tree, the assigned activity diagram **Query Products** will always open in the diagram pane.

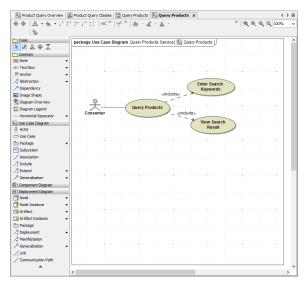
The definition of the third SOAP interface of the Web service is complete.

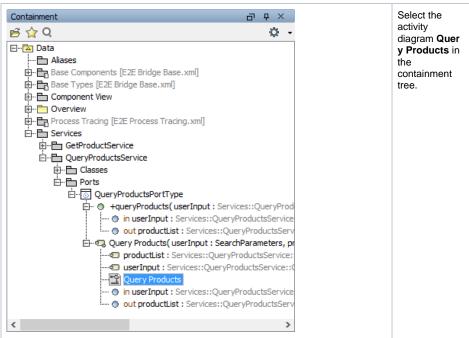
Save the UML model.

Assigning Activity Diagrams to Use Cases

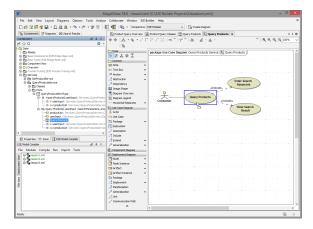
For documentation purposes and to simplify navigation through the UML model, you can link use cases to activity diagrams.

In MagicDraw, switch to the use case diagram tab Query Products you defined earlier.



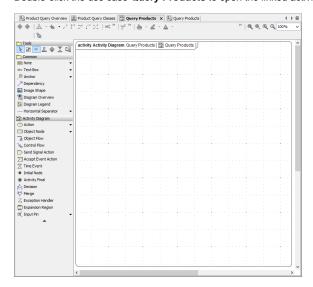


Drag the activity diagram symbol on the diagram pane and drop it onto the use case Query Products.



The use case **Query Products** has been linked to the activity diagram **Query Products** now. In the lower left of the use case, the activity diagram icon is shown.

Double-click the use case **Query Products** to open the linked activity diagram.



Save the UML model.