

6 Modifying the Mediator

6.1	Introduction.....	2
6.2	Modifying the application.....	4
6.3	Deploying and testing the application	6

6.1 Introduction

Note: The solution for this chapter can be found in [c:\po\solutions\ch6](#).

The application is almost complete, but there is an issue. For orders under \$1,000, the order is routed directly to the file adapter via the Mediator. For orders over \$1,000, the mediator routes to the request to the BPEL process for approval before sending it to the file adapter to be written.

Look at Figure 1 and Figure 2 which show the output for a small order and large respectively. There is an important difference, do you see it?

Figure 1 Output file for a small order

```

1 <?xml version="1.0" ?><impl:Order xmlns:impl="http://xmlns.oracle.com/ns/order">
2   <impl:customerId>1111</impl:customerId>
3   <impl:orderId>2222</impl:orderId>
4   <impl:prodName>Bluetooth Headset</impl:prodName>
5   <impl:itemType>electronics</impl:itemType>
6   <impl:price>49.99</impl:price>
7   <impl:qty>1</impl:qty>
8   <impl:status/>
9   <impl:creditCardInfo>
10    <impl:cardNumber>8765-8765-8765-8765</impl:cardNumber>
11    <impl:cardType>MC</impl:cardType>
12  </impl:creditCardInfo>
13 </impl:Order>

```

Figure 2 Output file for a large order

```

1 <?xml version="1.0" ?><impl:Order xmlns:impl="http://xmlns.oracle.com/ns/order">
2   <impl:customerId>1111</impl:customerId>
3   <impl:orderId>2222</impl:orderId>
4   <impl:prodName>iPod shuffle</impl:prodName>
5   <impl:itemType>electronics</impl:itemType>
6   <impl:price>145</impl:price>
7   <impl:qty>30</impl:qty>
8   <impl:status>approved</impl:status>
9   <impl:creditCardInfo>
10    <impl:cardNumber>1234-1234-1234-1234</impl:cardNumber>
11    <impl:cardType>MC</impl:cardType>
12  </impl:creditCardInfo>
13 </impl:Order>

```

In the case of the large order, the BPEL process sets the status. In this case, the status is **approved**. But in the case of small orders that get routed only through the Mediator, the status is not set:

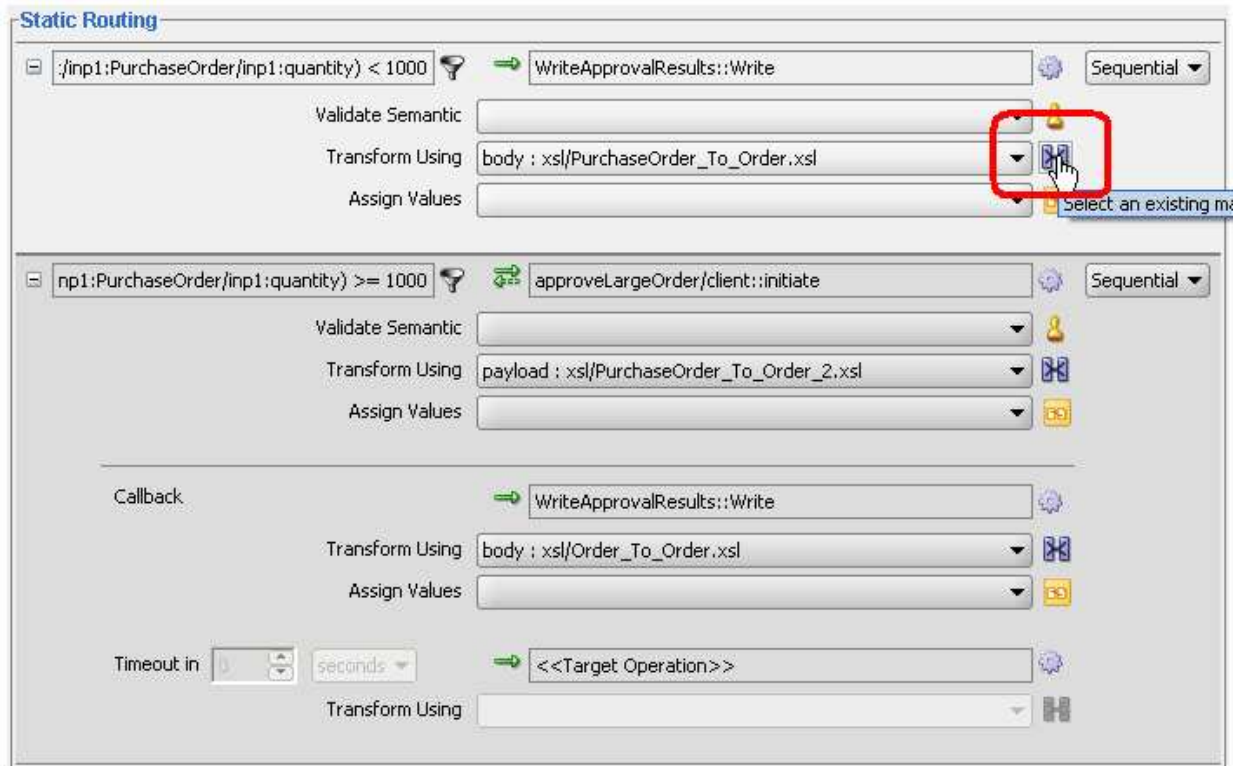
```
1 <?xml version="1.0" ?><inp1:Order xmlns:inp1="http://xmlns.oracle.com/ns/order">
2   <inp1:customerId>1111</inp1:customerId>
3   <inp1:orderId>2222</inp1:orderId>
4   <inp1:prodName>Bluetooth Headset</inp1:prodName>
5   <inp1:itemType>electronics</inp1:itemType>
6   <inp1:price>49.99</inp1:price>
7   <inp1:qty>1</inp1:qty>
8   <inp1:status/>
9   <inp1:creditCardInfo>
10    <inp1:cardNumber>8765-8765-8765-8765</inp1:cardNumber>
11    <inp1:cardType>MC</inp1:cardType>
12  </inp1:creditCardInfo>
13 </inp1:Order>
```

This creates inconsistent data. The application should be modified such that small orders are always approved.

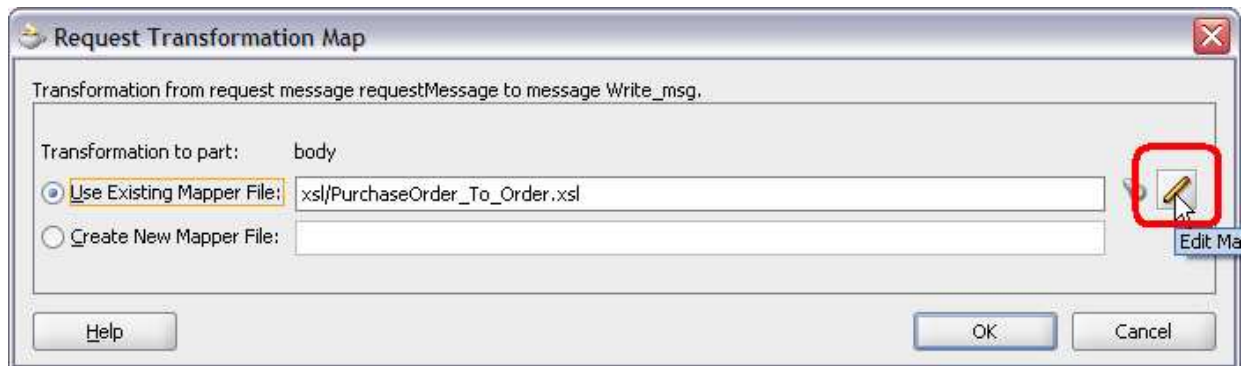
Here is your chance to think. Where do you think this change should be made? Follow the next steps to find out.

6.2 Modifying the application

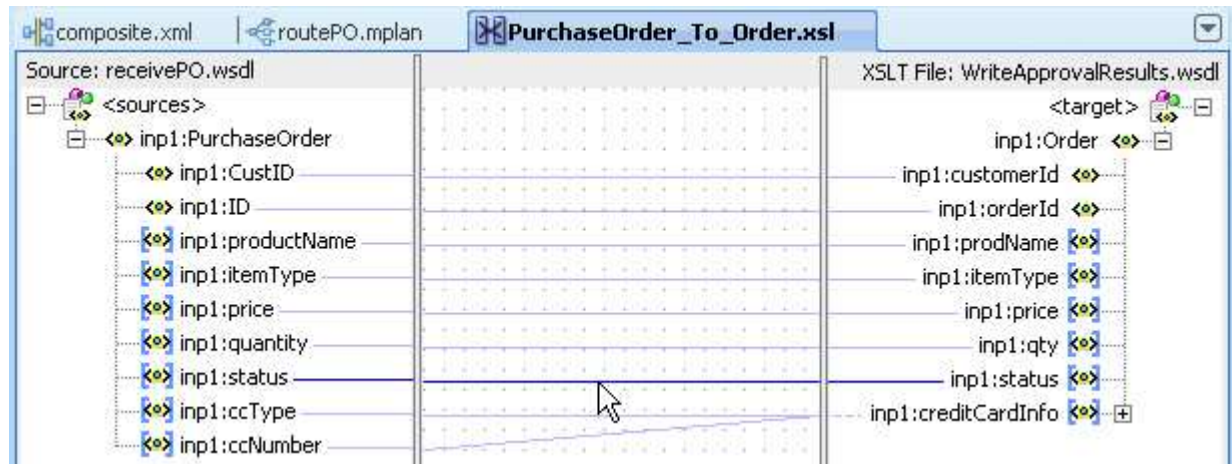
1. In the composite, double-click the **routePO** Mediator component to open it.
2. Modify the existing transformation for the **WriteApprovalResults::Write** operation by clicking the transformation button to the right of the **Transform Using** field.



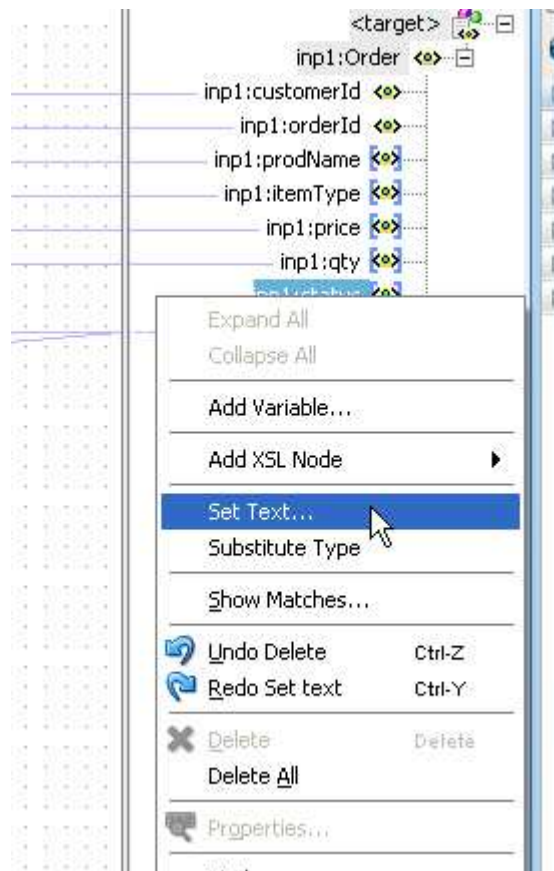
3. Ensure that **Use Existing Mapper File** is selected, and click the edit button, it looks like a pencil. This will open an existing transformation.



4. Click the mapping for status to highlight it.



5. Press the delete key on your keyboard to remove it.
6. Right-click **status** on the target side and select **Set Text**.

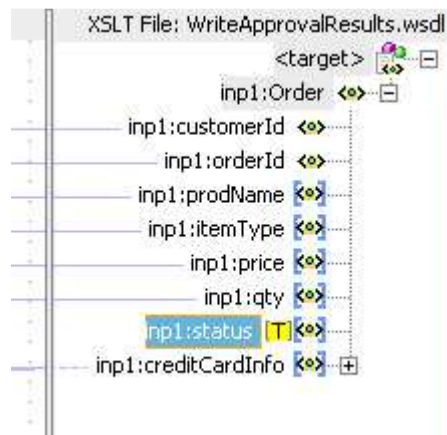


7. Enter **approved** in the **Text** field.



8. Click **OK**.

The **status** field has a visual cue to let you know a test value has been assigned.



9. Save and close the mapper.
10. Save and close the Mediator editor.

6.3 Deploying and testing the application

1. Deploy the composite.
2. Test the application using the small order input (i.e., from `c:\po\input\po-small-Headsetx1.xml`).
3. Open the resulting output order file and see that the status is approved.

```

1 <?xml version="1.0" ?><inp1:Order xmlns:inp1="http://xmlns.oracle.com/ns/order">
2   <inp1:customerId>1111</inp1:customerId>
3   <inp1:orderId>2222</inp1:orderId>
4   <inp1:prodName>Bluetooth Headset</inp1:prodName>
5   <inp1:itemType>electronics</inp1:itemType>
6   <inp1:price>49.99</inp1:price>
7   <inp1:qty>1</inp1:qty>
8   <inp1:status>approved</inp1:status>
9   <inp1:creditCardInfo>
10     <inp1:cardNumber>8765-8765-8765-8765</inp1:cardNumber>
11     <inp1:cardType>MC</inp1:cardType>
12   </inp1:creditCardInfo>
13 </inp1:Order>

```