Composite Source With Mule ESB

Composite Source With Mule ESB

Composite source is scope available with mule esb, which listens to multiple channels for incoming messages. Any of the receivers or inbound endpoint receive the message, it passes to next processor and results in triggering the flow. Scope in mule is also known as a wrapper.

There can be case where you need to define multiple sources to receive the messages. For example, you can receive purchase order from various customers and every one has to send message through different channels like File Share, Web Service Or Rest call, JMS, SFTP etc. But the way of handling or business process defined for each customer is same. So we can use the Composite source in such case.

Composite Source With Mule ESB

Search for Composite Source in Mule Pallette and place it to the source region of flow.

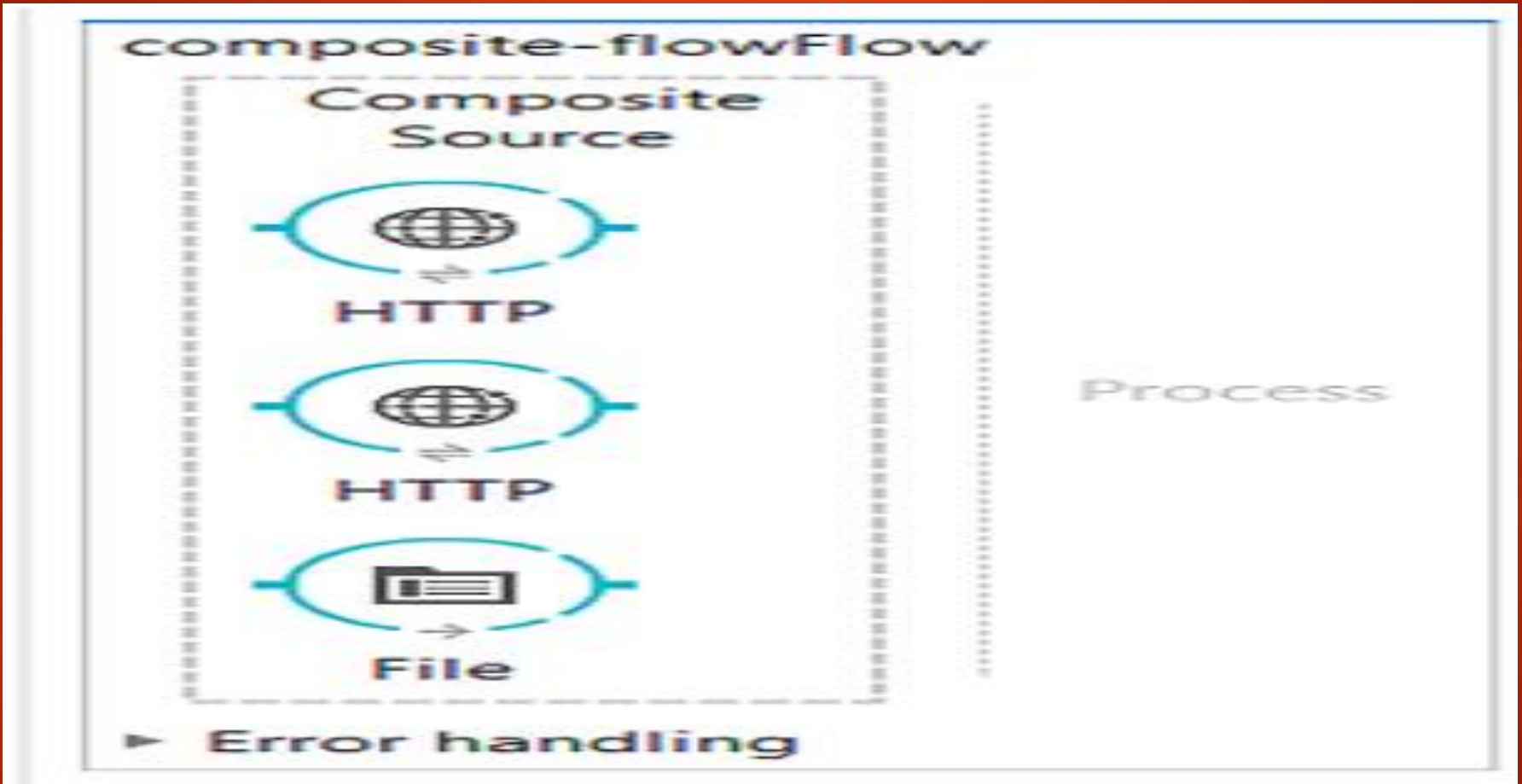
```
<flow name="composite-flowFlow">
        <composite-source doc:name="Composite Source"/>
    </flow>
```

Now you can drag drop multiple connector under composite source (i.e. wrap the multiple connectors with composite source). In this case we will two HTTP Listener and one File Connector as Inbound endpoints to receive message from different sources.

Composite Source With Mule ESB

```
<http:listener-config name="HTTP_Listener_Configuration" host="0.0.0.0" port="8081" doc:name="HTTP Listener
Configuration"/>
<http:listener-config name="HTTP_Listener_Configuration1" host="0.0.0.0" port="8082" doc:name="HTTP Listener
Configuration"/>
<flow name="composite-flowFlow">
<composite-source doc:name="Composite Source">
<http:listener config-ref="HTTP_Listener_Configuration" path="/cs" doc:name="HTTP" allowedMethods="POST"/>
<http:listener config-ref="HTTP_Listener_Configuration1" path="/cs" doc:name="HTTP" allowedMethods="POST"/>
<file:inbound-endpoint path="src/test/resources/in" responseTimeout="10000" doc:name="File"/>
</composite-source>
</flow>
```

Composite Source With Mule ESB

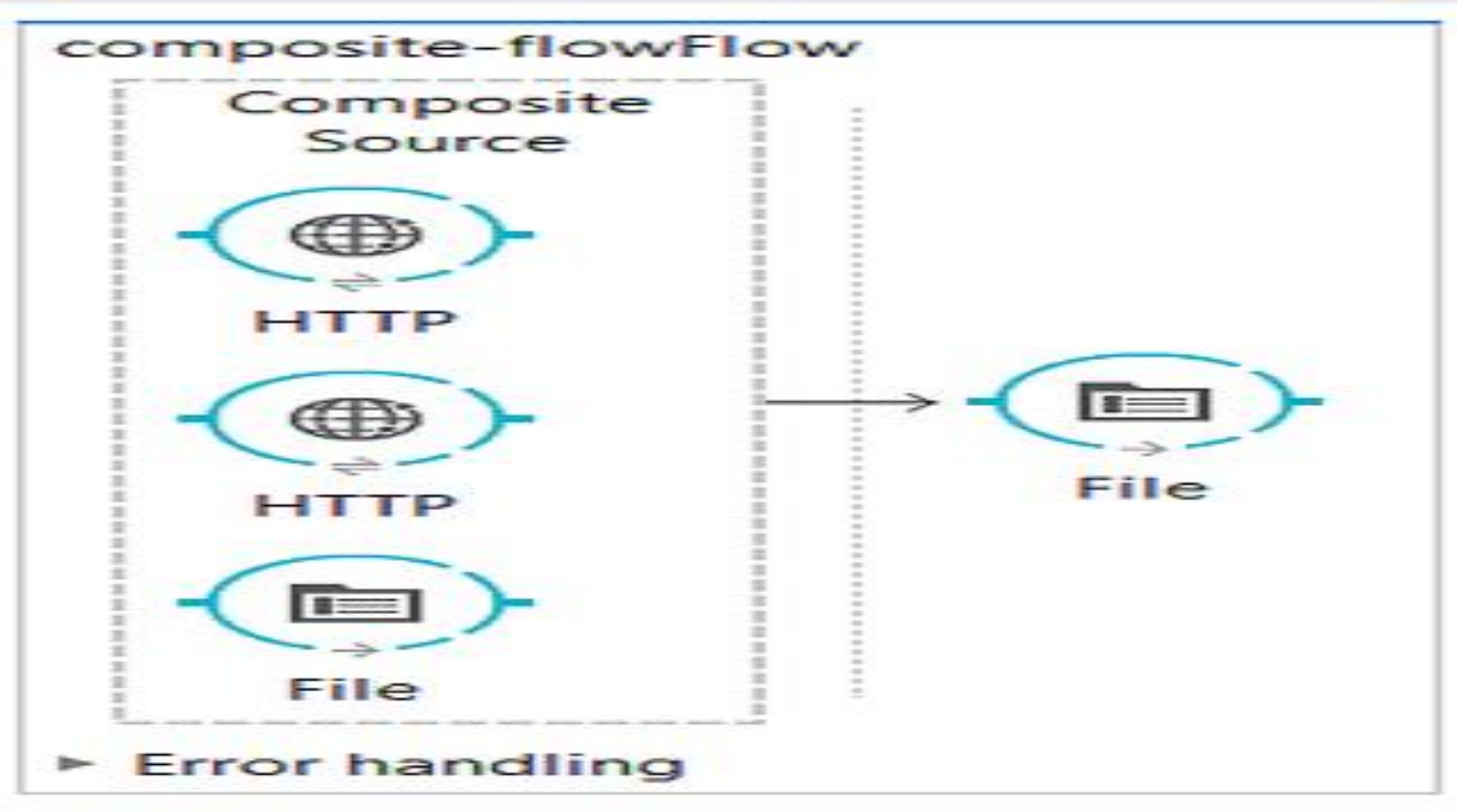


Composite Source With Mule ESB

Now, drag and drop the File connector in message processor region. Whenever incoming message received by any listener, it will passes to next processor. In this case, message will be passed to File connector in message processor region.

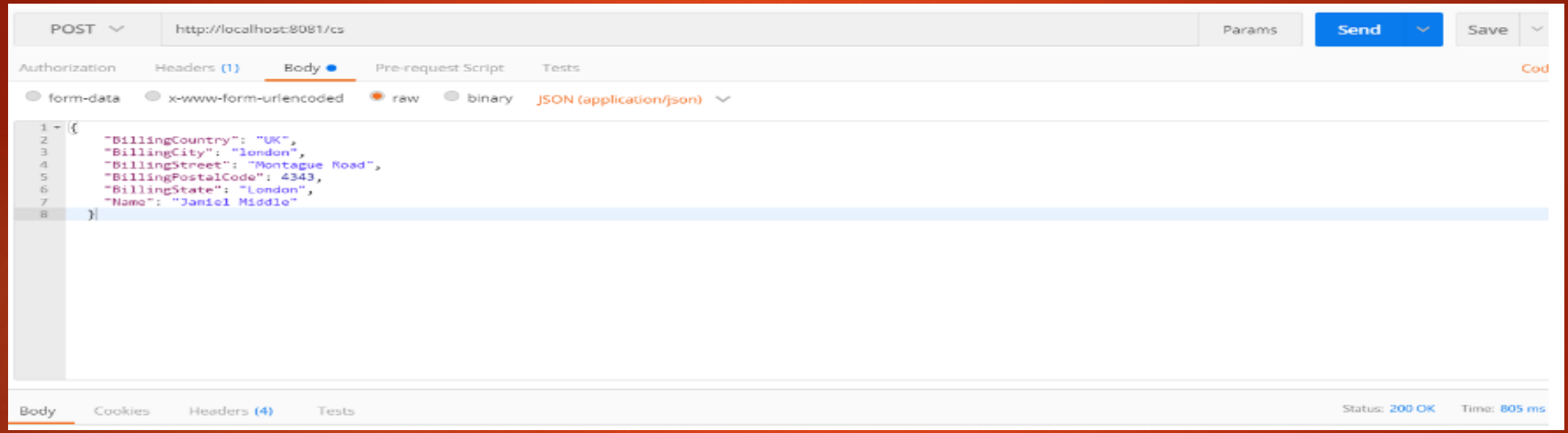
```
<?xml version="1.0" encoding="UTF-8"?>
<mule xmlns:file="http://www.mulesoft.org/schema/mule/file" xmlns:http="http://www.mulesoft.org/schema/mule/http"
xmlns="http://www.mulesoft.org/schema/mule/core" xmlns:doc="http://www.mulesoft.org/schema/mule/documentation"
xmlns:spring="http://www.springframework.org/schema/beans"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.springframework.org/schema/beans http://www.springframework.org/schema/beans/spring-beans-current.xsd
http://www.mulesoft.org/schema/mule/core http://www.mulesoft.org/schema/mule/core/current/mule.xsd
http://www.mulesoft.org/schema/mule/http http://www.mulesoft.org/schema/mule/http/current/mule-http.xsd
http://www.mulesoft.org/schema/mule/file http://www.mulesoft.org/schema/mule/file/current/mule-file.xsd">
<http:listener-config name="HTTP_Listener_Configuration" host="0.0.0.0" port="8081" doc:name="HTTP Listener Configuration"/>
<http:listener-config name="HTTP_Listener_Configuration1" host="0.0.0.0" port="8082" doc:name="HTTP Listener Configuration"/>
<flow name="composite-flowFlow">
<composite-source doc:name="Composite Source">
<http:listener config-ref="HTTP_Listener_Configuration" path="/cs" doc:name="HTTP" allowedMethods="POST"/>
<http:listener config-ref="HTTP_Listener_Configuration1" path="/cs" doc:name="HTTP" allowedMethods="POST"/>
<file:inbound-endpoint path="src/test/resources/in" responseTimeout="10000" doc:name="File"/>
</composite-source>
<file:outbound-endpoint path="src/test/resources/out" responseTimeout="10000" doc:name="File"/>
</flow>
```

Composite Source With Mule ESB



Testing Application

You can use postman to test the application and in this case there are two http listener and one file endpoints is listening to incoming messages.



Similarly, you can use other receivers to triggers the flow.

Thank You.