SupportPac LA71: IBM Operational Decision Manager Integration for WebSphere Process Server

Getting started with
IBM Business Process Manager

Task 8 – Business Process Author manages the Advanced Integration Service Decision in a BPMN Process.

Copyright

Overview

In this task you will then go through the steps a Business Process Author undertakes to use and test the Advanced Integration Decision Services you developed in task 7 in their original process. You will then go on to modify the rules using Decision Center and observe the effects of that managed change on the Quote Process.

Readers who want to skip the exercise should import the task 8 solution into Process Center from the snapshot saved at
[SupportPac LA71 Path]\BPMTutorial\task8\Insurance_Sample - LA71TT8.twx
You should then open the Process App in Process Designer and test the integration as described in step 3 onwards.

Step 1.   Examine the Advanced Integration Service available in Process Designer.

In Task 1 the Business Process Author designed the Decisions that were required and specified Advanced Integration Services interfaces that should be used to invoke the Managed Decision services that IT should develop. In task 7 the IT developers provided an implementation that is now available.

Open the **Insurance Sample** Process App in Process Designer and navigate to the **Eligibility_AIS** Advanced Integration Service.

From within your Integration workspace switch to the Process Center perspective.

At the Process Center login enter the process Center URI to correspond to your environment.
Enter the User Name and Password – use **admin** / **admin** for a default install.
Click Login.

Close the Welcome pane and select the **Insurance Sample (LA71TT1)** Process Application.

Select Open in workspace and the project will be opened showing the default structure of the two Advanced Integration Services.
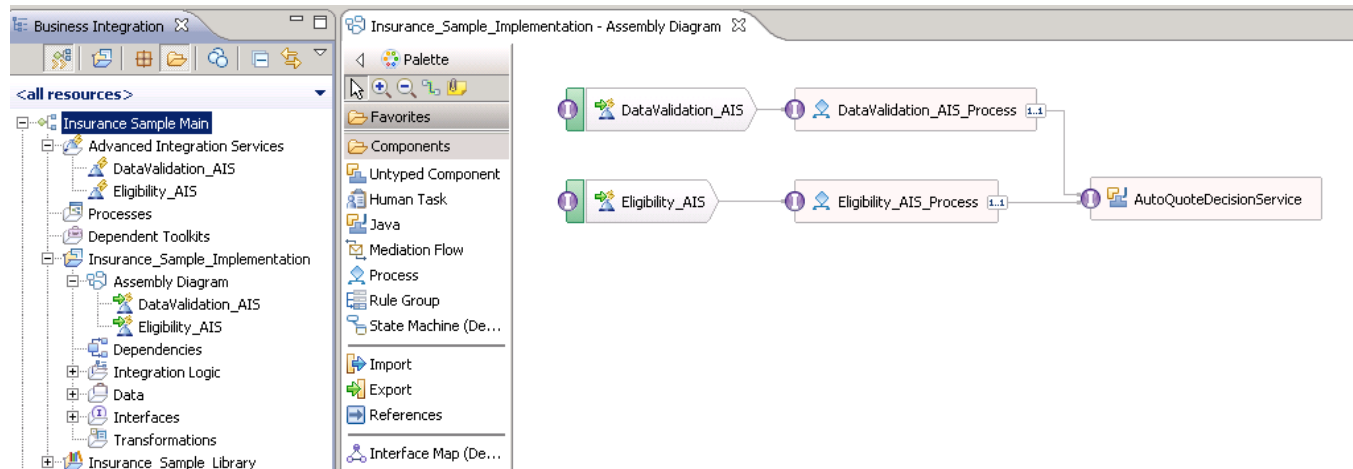

You should see that the implementation provided by development is now available.

You now need to substitute the embedded rules currently being used for the new Managed Decision Services

Step 2. Substitute the AIS Managed Decision Services for the embedded rule decision services

Click on the **User Interface** icon and double-click the **Insurance sample** Human Service. Select the **Data Validation** Nested Service in the diagram. In the properties screen select the **Implementation** tab to show the current use of the DataValidation decision service based on embedded rules.
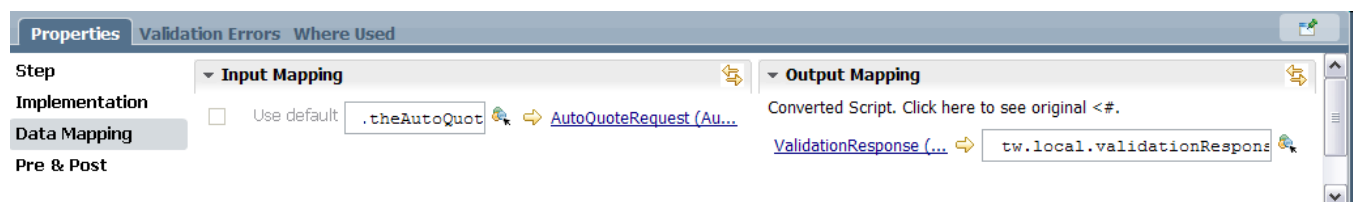
Click the **Select...** button and select the **DataValidation_AIS** Advanced Integration Service from the pulldown.
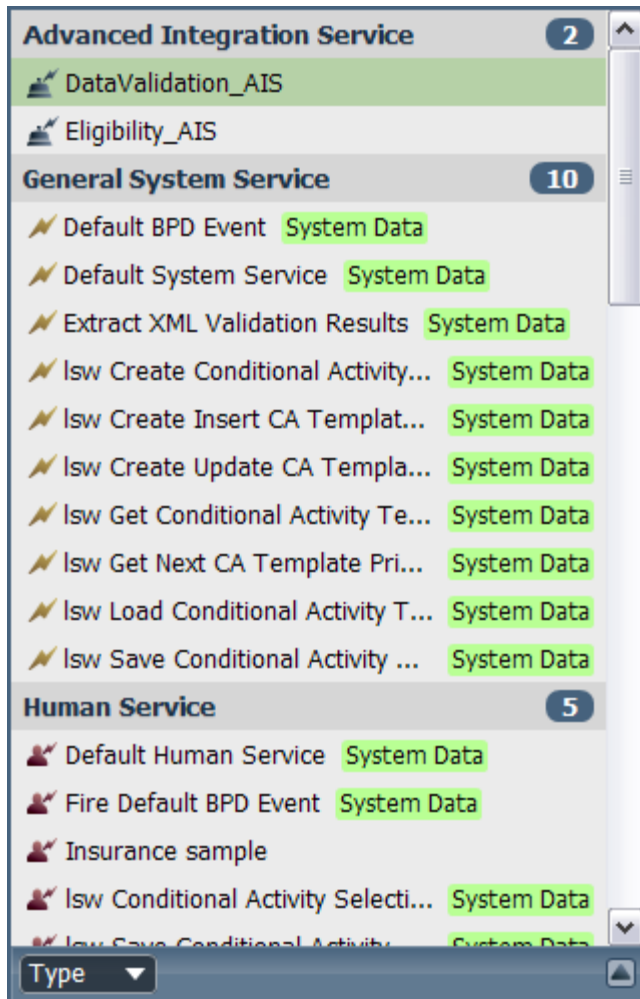
This should result in the following display
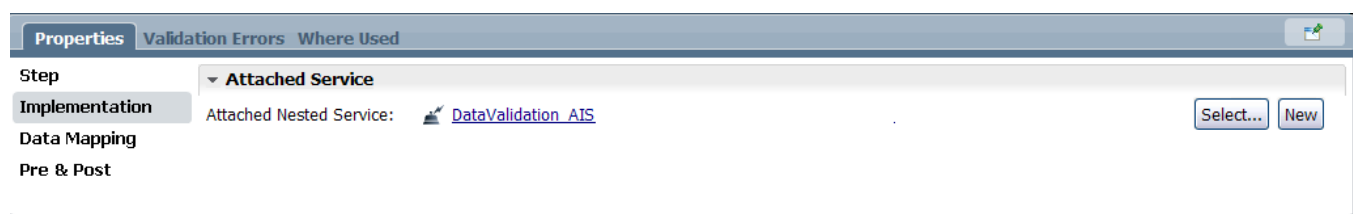
Select the Data Mapping tab and click on the **Select a variable** icon in the Output Mapping panel. Double-click Local > Private > validationResponse in the popup.


Repeat the process for the Eligibility decision service.

Select the **Eligibility** Nested Service in the diagram. In the Properties screen select the Implementation tab to show the current use of the Eligibility decision service based on embedded rules. Click the **Select...** button and select the **Eligibility_AIS** Advanced Integration Service from the pulldown.

Use the menu option **File > Save All** to save your changes.

Step 3. Test the AIS Managed decision services in the Process

The next step is to test that the AIS Managed Decisions work in the process. Navigate to the Insurance sample Human Service and click the Run Service Icon.
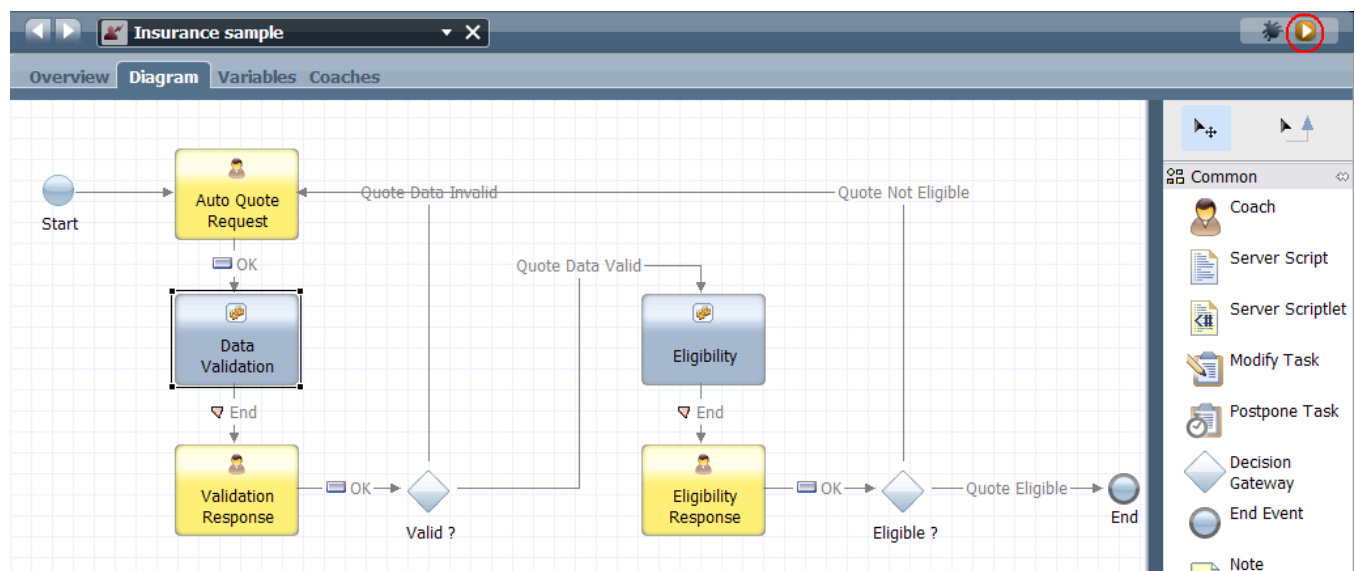
A browser opens with the Auto Quote Request Coach content. Leave the Number Of Accidents as -1 which should check the Data Validation rules.

Auto Quote Request

Driver

First Name: John

Last Name: Doe

Age: 40

Gender: Male

Number Of Accidents: -1

Vehicle

Vehicle Identification Number: 123456

Make: Lemon

Model: Yellow

Value: 0

OK

Click **OK**. The Validation Response shows that the rules have operated correctly.

Validation Response

Validation Response

Validated: ☐

Main Message: The number of accidents should not be negative

OK

Click **OK**.
Set the **Number Of Accidents** to **5** which should pass the **Data Validation** rules but be rejected by the Eligibility Rules.

Auto Quote Request

Driver

First Name: John

Last Name: Doe

Age: 40

Gender: Male

Number Of Accidents: 5

Vehicle

Vehicle Identification Number: 123456

Make: Lemon

Model: Yellow

Value: 0

OK

Click **OK** and observer that the **Data Validation** rules pass.

Validation Response

Validation Response

Validated: ☑

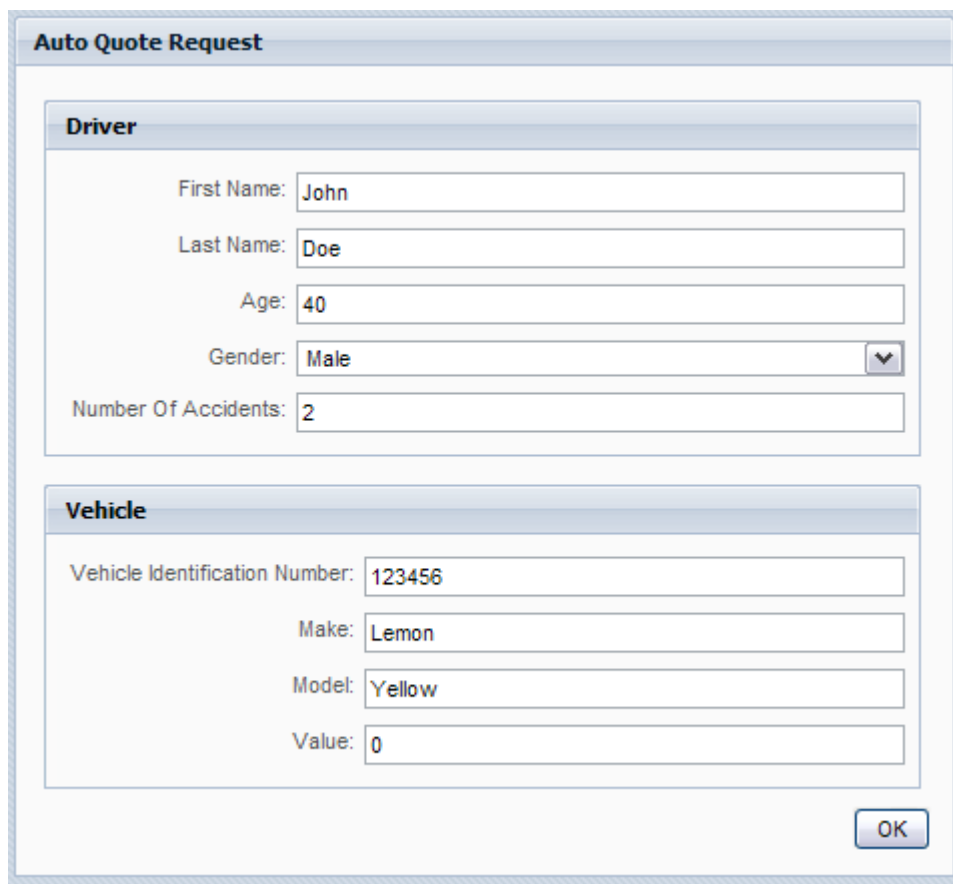Main Message: The Quote Data is valid

OK
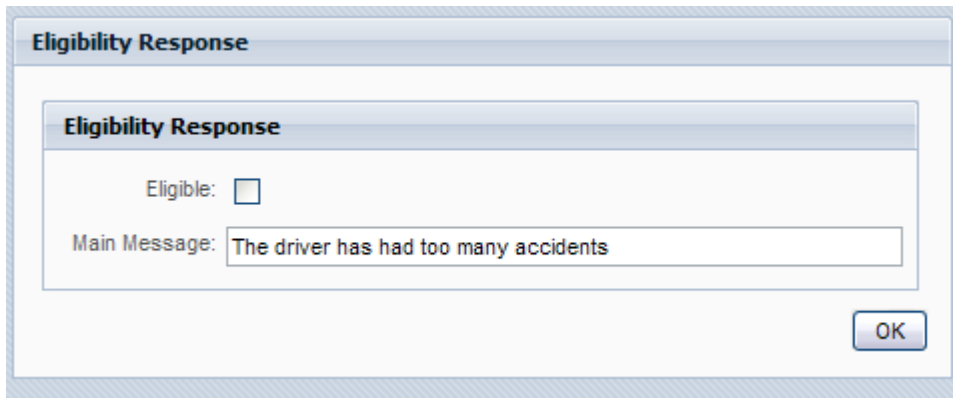
Click **OK** again and observe that the **Eligibility** rules reject the quote.

Eligibility Response

Eligibility Response

Eligible: ☐

Main Message: The driver has had too many accidents

OK
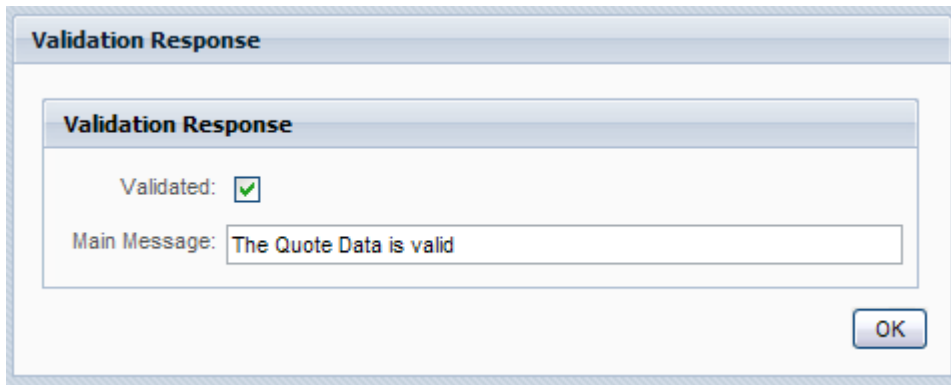
Click **OK**.
Set the **Number Of Accidents** to **2** which should pass both the **Data Validation** rules and the **Eligibility** Rules.

Auto Quote Request

Driver

First Name: John

Last Name: Doe

Age: 40

Gender: Male ▾

Number Of Accidents: 2

Vehicle

Vehicle Identification Number: 123456

Make: Lemon

Model: Yellow

Value: 0

OK

Click **OK** and observer that the **Data Validation** rules pass.

Click **OK** again and observe that the **Eligibility** rules pass.

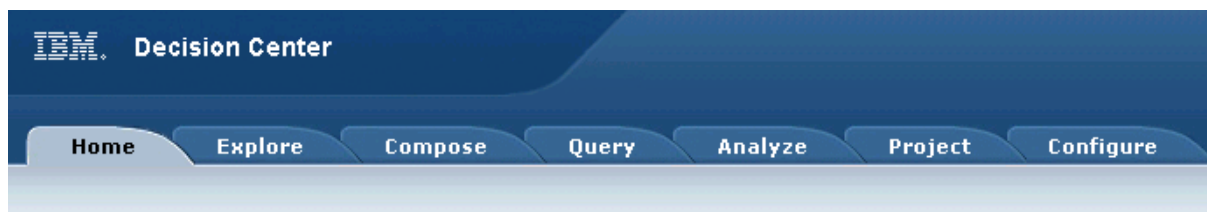Click **OK** again to exit the service.

You have now used the Advanced Integration Managed Decision Services in a BPMN process.

Step 4. Manage the Decisions Using Decision Center

In this step you will change the rules being used for the Eligibility to increase the limit on number of accidents.

Open Decision Center logging in as **Username**: admin and **Password**: admin.

In the **Home** tab select the **Eligibility** project.

Navigate to the **Explore** tab and click the Q**uick edit** icon for the **TooManyAccidents** rule.

In the **Rule Editing** panel change the number of accidents to 5 and modify the message as shown.

Click **Save** and check your editing in the **Rule Preview** panel that is displayed.

Rule Preview

✎ Edit

Name TooManyAccidents
Status New

---

if
   the number of accidents of the driver of **AutoQuoteRequest** is more than 5
then
   make it *false* that **EligibilityResponse** is eligible ;
   set the main message of **EligibilityResponse** to **"The driver has had FAR too many accidents"** ;

You now need to deploy the changes you have made to the rule execution server.
Navigate to the **Configure** tab and select the **Manage RuleApps** link. Select the **InsuranceSampleRuleApp**

Home	Explore	Compose	Query	Analyze	Project	Configure

Configure > Manage RuleApps   Eligibility

Available RuleApps

New | Details | Edit | Delete | Deploy | Redeploy | Refresh | Help

Display by 10 ▾

☑	Name	Display Name	Major	Minor	Created On	Created By	Last Changed On	Last Changed By
☑	InsuranceSampleRuleApp	LA71 Insurance Sample	1	0	6/9/11 1:11 PM	rtsAdmin	6/9/11 1:11 PM	rtsAdmin

1 Result

Click **Deploy** and in the Deployment Name uncheck the **Create a baseline for this deployment** box.

Deployment Name

☐ Create a baseline for this deployment [   ]

Cancel Previous Next

Click **Next** and select **Deploy on a Rule Execution Server**.

RuleApp target

⦿ Deploy on a Rule Execution Server
◯ Generate a RuleApp archive

Cancel Previous Next

Click Next and select **Increment RuleApp major version**.

Click **Next** and select the BPMRES server that you have configured.

Click **Deploy** and the RuleApp is deployed to the Rule Execution Server. A summary screen is displayed showing the versioning that has been applied.

You can log into the Rule Execution Server management console as resAdmin password resAdmin to check the new deployment status and versions that have been used.

Step 5. Testing the Changed Decision

You should now return to Process Designer, navigate to the **Insurance sample** Human Service and click the Run Service icon.
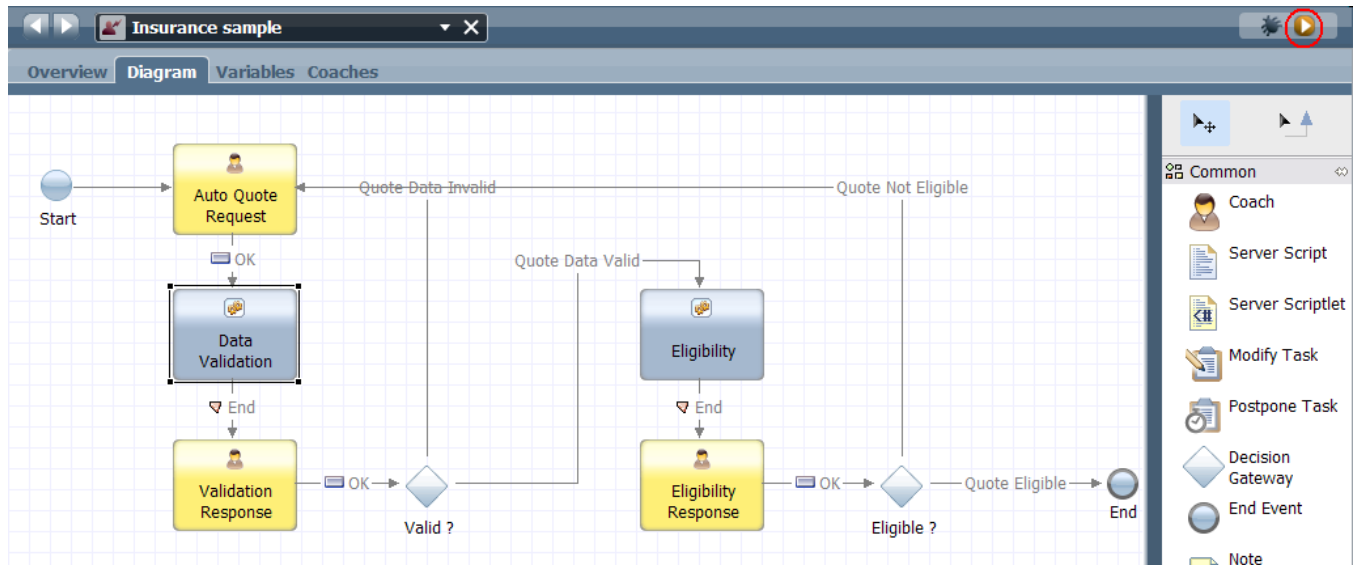
In the **Auto Quote Request** coach set the number of accidents to **10**. This should exceed the new **Eligibility** threshold.
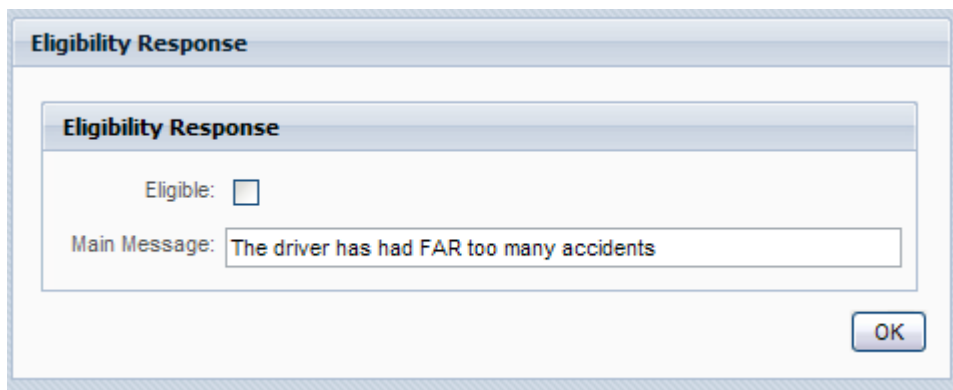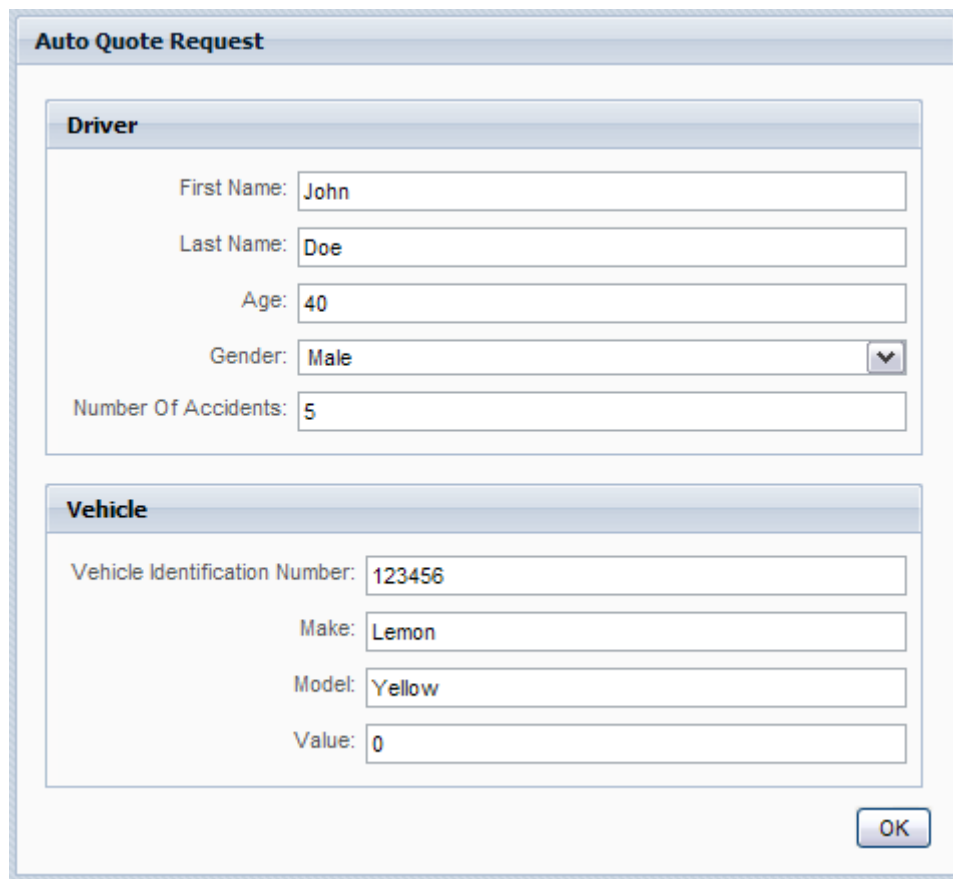
Click **OK** and **OK** again to the Validation Response.

The Eligibility Response show the message from the changed rule.

Eligibility Response
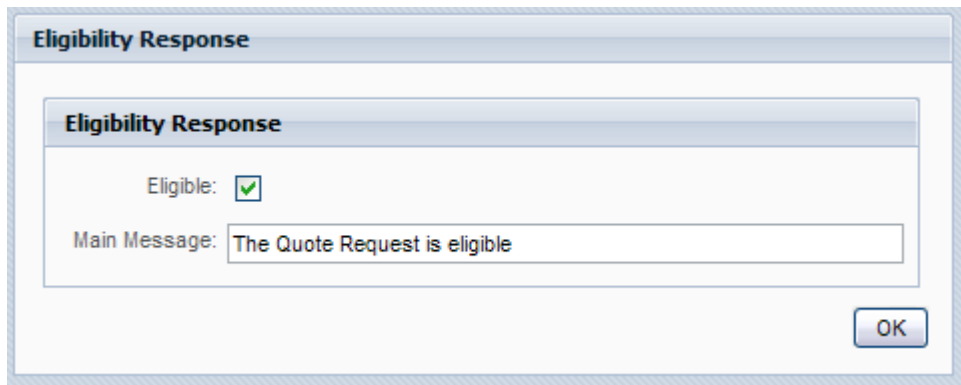
> **Eligibility Response**
>
> Eligible: ☐
>
> Main Message: The driver has had FAR too many accidents
>
> OK

Click **OK** and in the next **Auto Quote Request** coach set the **number of accidents** to **5** which failed **Eligibility** in previous runs.

Auto Quote Request

> **Driver**
>
> First Name: John
>
> Last Name: Doe
>
> Age: 40
>
> Gender: Male ▼
>
> Number Of Accidents: 5
>
> **Vehicle**
>
> Vehicle Identification Number: 123456
>
> Make: Lemon
>
> Model: Yellow
>
> Value: 0
>
> OK

Click **OK** and **OK** again to the Validation Response. This time the Eligibility rules accept the higher number of accidents showing the changed rules are active.

Eligibility Response

Eligibility Response

Eligible: ☑

Main Message: The Quote Request is eligible

OK

This completes Task 8 of the tutorial. You have now completed the whole tutorial from a Business Process Author defining a process and the decisions within it, through developers implementing a Managed Decision from those specifications, to the Business Process Author modifying the rules in those Managed Decisions and observing the impact on their processes.