

**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.**

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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.

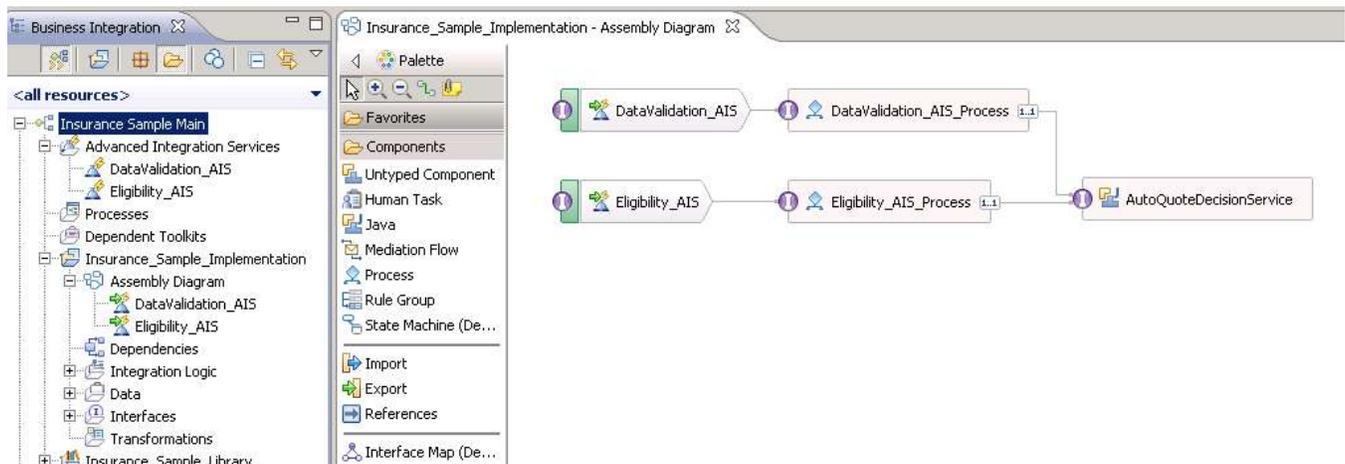
Open the **Insurance Sample** Process App in Process Designer and navigate to the **Eligibility_AIS** Advanced Integration Service.

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.



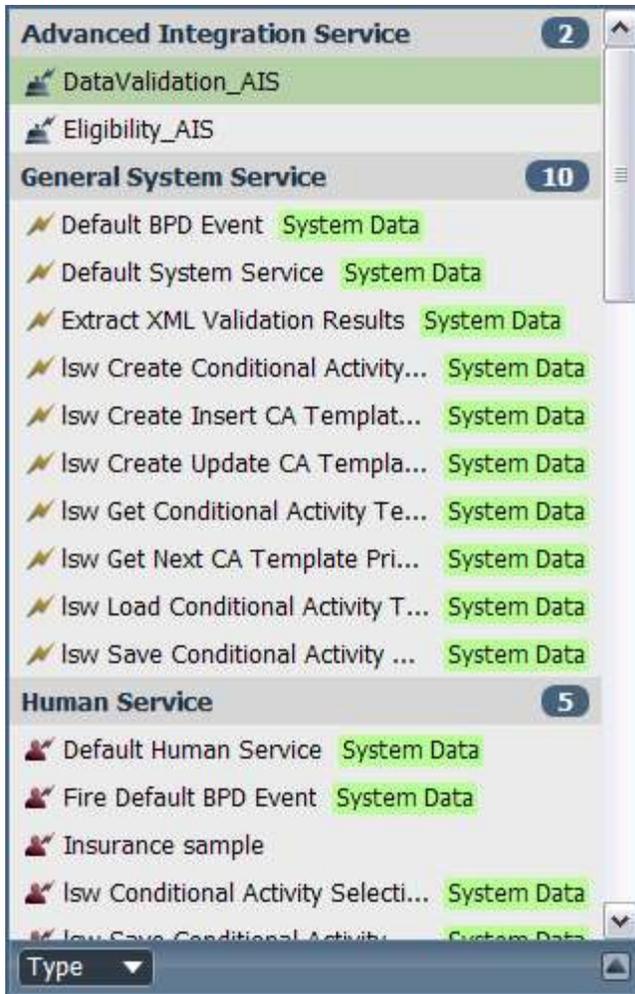
You should see that the implementation provided by development is now available.

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

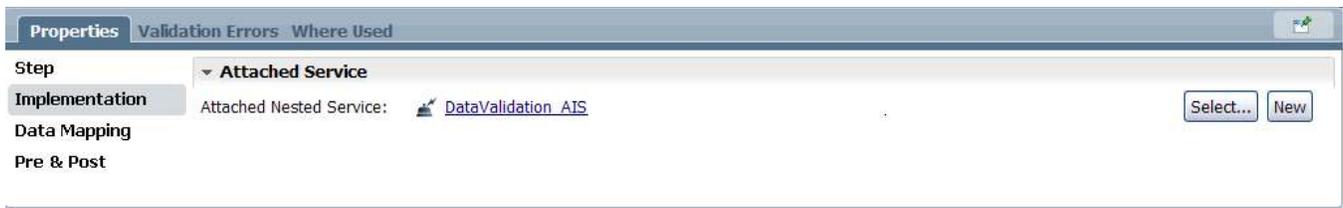
Step 2. Substitute the AIS Managed Decision Services for the embedded rule decision services

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.



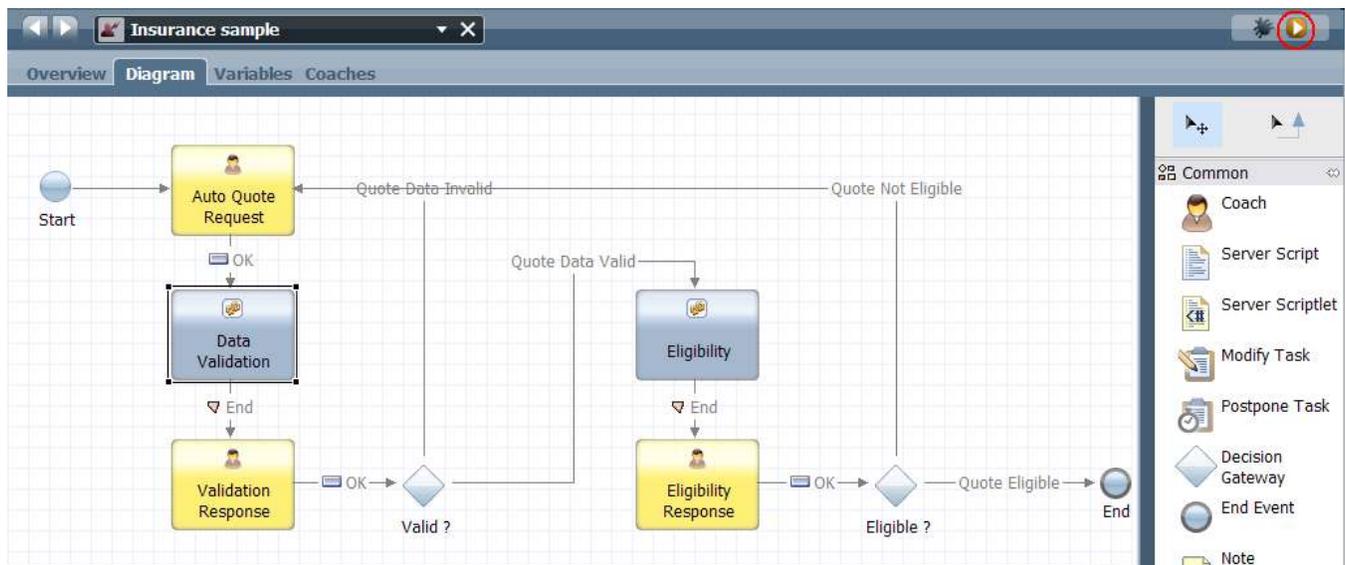
Repeat the process for the Eligibility decision service.

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:

Last Name:

Age:

Gender:

Number Of Accidents:

Vehicle

Vehicle Identification Number:

Make:

Model:

Value:

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

Validation Response

Validation Response

Validated:

Main Message:

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:

Last Name:

Age:

Gender:

Number Of Accidents:

Vehicle

Vehicle Identification Number:

Make:

Model:

Value:

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

Validation Response

Validation Response

Validated:

Main Message:

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

Eligibility Response

Eligibility Response

Eligible:

Main Message:

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:

Last Name:

Age:

Gender: ▼

Number Of Accidents:

Vehicle

Vehicle Identification Number:

Make:

Model:

Value:

OK

Click **OK** and observe 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:** rtsAdmin and **Password:** rtsAdmin.

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

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

The screenshot shows the IBM Decision Center interface. At the top, there is a navigation bar with 'Home', 'Explore', 'Compose', 'Query', 'Analyze', 'Project', and 'Configure' tabs. The 'Project: Eligibility' is displayed on the right. Below the navigation bar, there is a 'Smart Folders' section on the left with a tree view containing 'Business Rules 2', 'Ruleflows 1', 'Templates', 'Simulations', and 'Test Suites'. The main area is titled 'Business Rules' and contains a toolbar with 'New', 'Details', 'Edit', 'Delete', 'Copy', 'Lock', 'Unlock', 'Release lock', 'History', and 'Help'. Below the toolbar, there is a 'Display by' dropdown set to '10'. A table lists two business rules:

Actions	Name	Status	Priority	Last Changed By	Last Changed On
<input type="checkbox"/>	EligibleDefault	New		rtsAdmin	1/13/12 3:09 PM
<input type="checkbox"/>	TooManyAccidents	New		rtsAdmin	1/13/12 3:09 PM

At the bottom right of the table, it says '2 Results'.

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

The screenshot shows the 'Rule Editing' panel. At the top, there are 'Save' and 'Cancel' buttons. Below that, the 'Name' field is set to 'TooManyAccidents' and the 'Status' dropdown is set to 'New'. The rule logic is defined as follows:

```

[definitions]
if
  the number of accidents of the driver of AutoQuoteRequest [±] is more than ▼ 5 [±] ✕
then
  make it false [and/or] that EligibilityResponse is eligible ✕
  set the main message of EligibilityResponse to ▼ The driver has had FAR too many accidents [±] ✕
[else]
  
```

Below the rule logic, there are two options: 'Update major version number' (unchecked) and 'Add a comment to this version' (with an empty text area).

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

<input checked="" type="checkbox"/>	Name	Display Name	Major	Minor	Created On	Created By	Last Changed On	Last Changed By
<input checked="" type="checkbox"/>	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

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

RuleApp target

Deploy on a Rule Execution Server
 Generate a RuleApp archive

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



Versioning Policy

- Increment RuleApp major version
- Increment RuleApp minor version
- Replace RuleApp version
- Increment ruleset(s) major version
- Increment ruleset(s) minor version
- Replace ruleset(s) version

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



Select Server

Select the server where you want to deploy the RuleApp

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.

WebSphere Rule Execution Server Console

resAdmin Sign Out IBM

Home Explorer Decision Warehouse Diagnostics Server Info About | Print View | Help

Explorer > RuleApps

RuleApps View

Add RuleApp Deploy RuleApp Archive Update RuleApps

RuleApps
Total Number of RuleApps 2

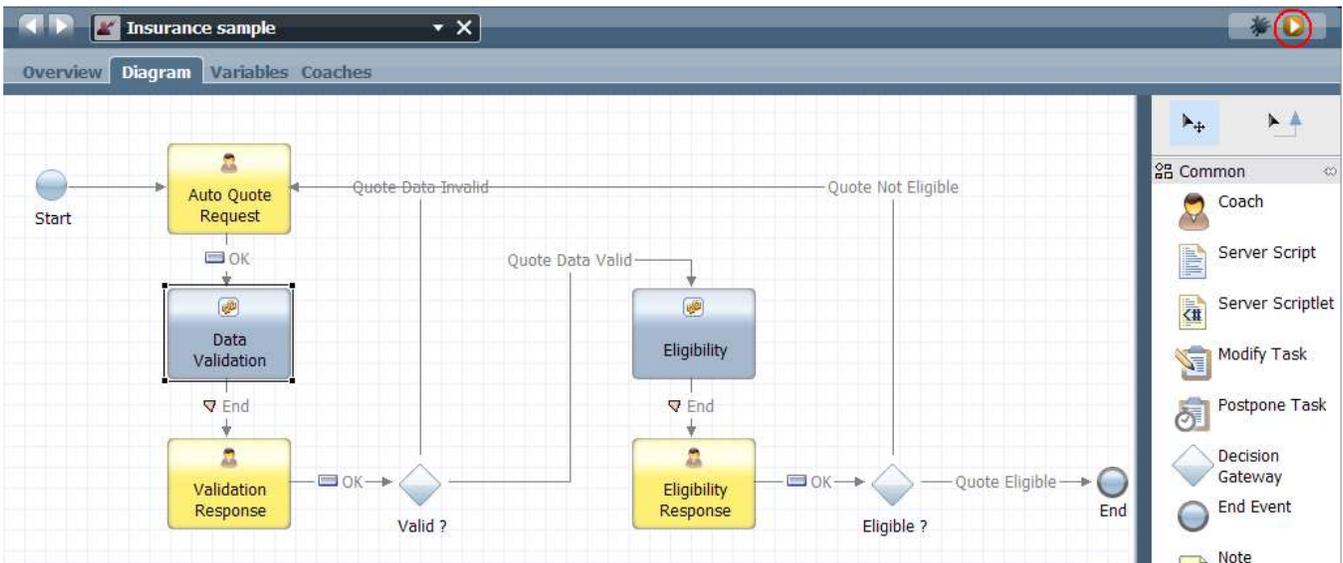
2 RuleApp(s) Name Filter: View only: Latest version Display by: 10

Select All	Name	Version	Creation Date	Number of rulesets	
<input type="checkbox"/>	InsuranceSampleRuleApp	1.0	Jun 13, 2011 3:03:15 PM GMT +01:00	2	Download Archive
<input type="checkbox"/>	InsuranceSampleRuleApp	2.0	Jun 16, 2011 4:29:56 PM GMT +01:00	2	Download Archive

RuleApp 1 - 2 of 2 prev 10 next 10 Remove

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.

Auto Quote Request

Driver

First Name:

Last Name:

Age:

Gender: ▼

Number Of Accidents:

Vehicle

Vehicle Identification Number:

Make:

Model:

Value:

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:

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:

Last Name:

Age:

Gender: ▼

Number Of Accidents:

Vehicle

Vehicle Identification Number:

Make:

Model:

Value:

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:

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