IBM WEBSPHERE BUSINESS MONITOR 6.2 - LAB EXERCISE

WebSphere Business Monitor V6.2 Clips and Tacks Business process monitoring lab

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What this exercise is about

The objective of this lab is to show you how to monitor a business process which was developed in WebSphere Business Modeler, implemented in WebSphere Integration Developer and deployed to WebSphere Process Server.

This lab will provide solutions that you can import into Modeler and WebSphere Integration Developer, so then you can concentrate on building the monitor model, deploying it, running tests and viewing monitored data in the dashboards.

Changes from the previous version

This lab has been modified for the 6.2 release. This includes user interface changes to the administrative console and the business space.

This lab has been modified for the 6.1.2 release. Here are the major changes:

- You can export a monitor model from Modeler which is ready to deploy. This monitor model has the BPEL event definitions along with inbound event correlation criteria and termination triggers. Also new in this release is the ability to select decision percentages in the business measures model in Modeler, then when you export the monitor model, the decision percentage metrics are created for you along with measures based on those metrics. So the lab has been updated so that you no longer need to merge the business measures model from Modeler with the auto-generated monitor model from BPEL. Since the monitor model from Modeler has the BPEL event definitions and correlation information, you can use this model as the base and add additional KPIs and measures to it. Also, since the decision percentages are already in the model which is exported from Modeler, the lab was updated to remove the steps for implementation of the decision metrics.
- The business space dashboard consolidates various widgets into a single integrated Web console, so you can view process server widgets for human tasks and business rules alongside the monitor widgets.

Lab requirements

List of system and software required for the student to complete the lab:

- WebSphere Business Modeler V6.2.
- WebSphere Integration Developer V6.2.
- WebSphere Business Monitor V6.2 Toolkit Installation including the Monitor Model editor and Monitor Server
 - DB2 Alphablox is an optional prerequisite for the installation of the Monitor toolkit. If you
 choose not to install it, then you will not be able to use the report and dimension views in the
 web dashboard.

What you should be able to do

At the end of this lab you should be able to:

- Use Modeler to export the business measures model and process model.
- Use WebSphere Integration Developer to implement the monitor model, and deploy it to the server.
- Define a business space dashboard to view monitored data.

Introduction

In this lab you will learn how to deploy a monitor model from end to end using WebSphere Business Modeler, WebSphere Integration Developer and WebSphere Business Monitor. This lab will show you the basic procedure for creating and implementing a simple model.

The model used in this lab is the **ClipsAndTacks** model which is also used in IBM Redbook **SG247148** – **Business Process Management: Modeling through Monitoring Using WebSphere V6.0.2 Products**. In the Redbook, there are several models that are referenced, but in this lab you will be using the Future 1 Process.

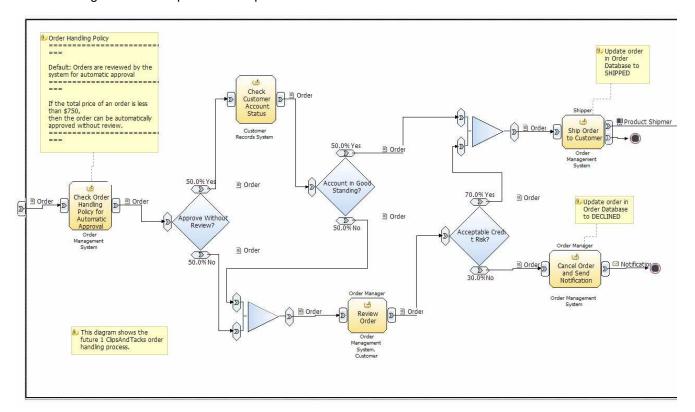
In this lab you will build a monitor model that has the same basic elements as the one that is defined in the Redbook. Namely you will create monitoring constructs in support of two KPIs:

- Average order fulfillment is 3 days or less
- Percentage of shipped orders is greater than 90%

You will also create situation events when the average order fulfillment time is greater than 3 days, and when the percentage of orders shipped is less than 85%.

For dimensional analysis, you will create a Location dimension which allows you to drill down on country and city. You will also add an Order Status metric, which shows orders as 'New', 'Cancelled' or 'Shipped', and you will create a dimension based on order status so that you can drill down on this value. And you will add measures for average order price, sum of order price for all orders, and order count.

Here is a diagram of the ClipsAndTacks process model:



This is the ordering process for the Clips And Tacks Company. In this process, orders are received and optionally submitted to a review process. Orders which pass all checks are shipped to the customer. Other orders may be cancelled.

In this lab you will use Modeler and import a process model which was created for you. You will select processing time and decision percentage monitored values in the business measures model in Modeler. Then you will export the process model and monitor model to WebSphere Integration Developer. You will import a solution file that contains the process implementation. Then you will complete the implementation

of the monitor model. You will deploy the monitor model, run process instances, and view results in the business space dashboard. Finally, you will export monitored values back to Modeler.

Useful URLs

The following URLs may be helpful to you as you exercise this lab. Note that the port numbers in the URL of your installation may be different depending on your configuration.

• Server administrative console

https://localhost:9044/ibm/console

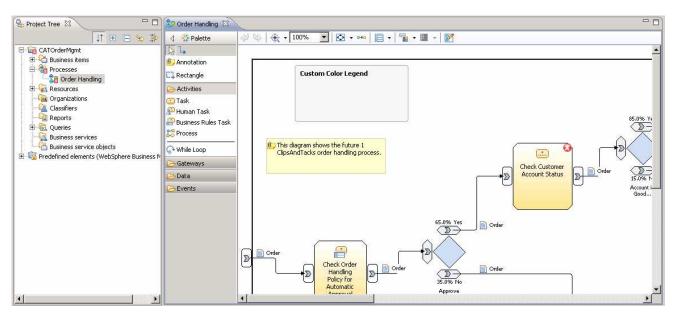
Business space dashboard

https://localhost:9444/BusinessSpace

Part 1: Import the model into Modeler

Modeler. You will review the process model and the business measures model.
1. Start WebSphere Business Modeler and setup the environment.
a. Start WebSphere Business Modeler, and when prompted point to a new workspace such as c:\workspaces\clipsmodel
b. Close the Welcome tab.
c. A quickstart wizard will pop up, click the Cancel button.
d. Click Modeling > Mode > WebSphere Process Server.
2. Import the supplied Modeler project.
a. Right click in the Project Tree, then select Import
b. Select WebSphere Business Modeler project (.mar, .zip)
c. For source directory, browse to the folder containing the supplied mar file, for example, c:\Labfiles62\ClipsAndTacksBPM
d. For files, select CATOrderMgmt.mar.
e. Click Finish .
f. You will see some errors in the Errors view indicating that the implementation type is not supported for direct deployment. However, this will not be a problem since you will not use direct deployment in this lab.
3. Review the process.
a. In the Project Tree, navigate to CATOrderMgmt > Processes > Order Handling , then double click the process to open the editor. In the editor, you can review the diagram which represents the process model. Notice that there are various tasks, decisions, human tasks, and a business rule.

Instead of building the process model from scratch, you will import the model into WebSphere Business



- __ b. For each task in the diagram, click the task, then click the Attributes tab and review the information. For implementation details, click the Technical Attributes View tab. You will see these implementations:
 - 1) Check Order Handling Policy for Automatic Approval rule group. Click the Business Rules tab and you will find that a business rule is used to check the order price and require manual approval if it is greater than or equal to \$750.
 - 2) Review Order human task
 - 3) Ship Order to Customer human task
 - 4) Check Customer Account Status java
 - 5) Cancel Order and Send Notification java
 - 6) Update Order Database java

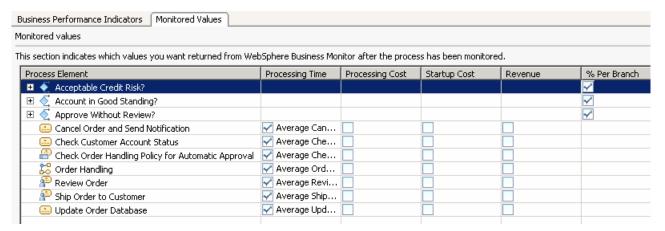
Part 2: Create the business measures model in Modeler

In this section you will create the business measures model in Modeler. You will select monitored values for decision percentages and processing times. You will also add aggregate measures, dimensions and KPIs.

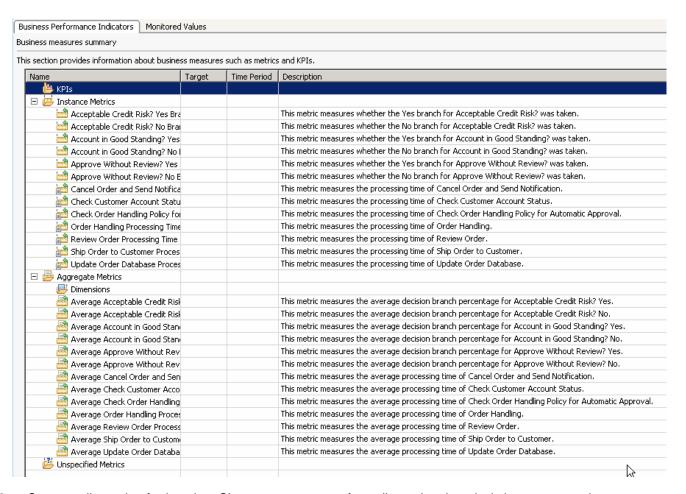
If you want to skip this section, then a solution has been provided. You can import the supplied Modeler MAR file and then proceed to the next section. Refer to Appendix 1, and then proceed to the next section.

1.	Select monitored values	
1.	Select monitored values	

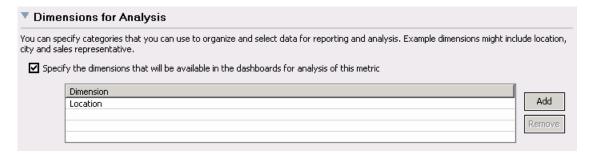
- a. In Modeler, click the white background of the process diagram.
- __ b. Click the Business Measures tab, then click the Monitored Values tab.
- __ c. On this tab is a list of all the elements in the process, including the decisions and tasks. If you select any of these items, then the corresponding business metrics are created automatically in the Business Performance Indicators tab. Select '% Per Branch' for the three decisions. Also select 'Processing Time' for the process and the six tasks.



__ d. On the Business Performance Indicators tab, review the metrics that were created based on your monitored values selections.



- 2. Create a dimension for location. Since you want to perform dimensional analysis by country and city, then you need to add the Location dimension. You cannot specify a two level dimension in Modeler, so you will just create a single level here and then you will complete the implementation in the Monitor toolkit.
 - __ a. On the Business Performance Indicators tab, double click the first aggregate metric in the list. This opens the Business Measures Details window.
 - __ b. On the Business Measure Details tab, select the check box to specify the dimensions that will be available.
 - __ c. Click the Add button, then highlight the default name of the dimension and change it to Location.



_ d. Leave the Business Measures Details window open. You will be adding metrics using this window.

3.	Create a KPI for average process duration.
	a. In the Business Measures navigator on the left of the Business Measure Details window, click the Add button.
	b. Change the name to Average Process Duration KPI
	c. For type, select KPI .
	d. On the Business Measure Details tab set the following values: type duration, target 3 days, range Good 1 to 3 days, range Too long 3 to 5 days, time period repeating yearly, specify an alert with default name
	1) Select the check box to specify a target
	2) Target type – Duration
	3) Target value – 3 Days
	4) Select the check box to specify a range
	5) Select button for range Actual Value
	6) Add range 'Good' with start value 1 day and end value < 3 days
	7) Add range 'Too long' with start value 3 days and end value < 5 days
	8) Select the check box to specify a time period
	9) Select button for time period Repeating
	10) Set period type to Yearly, select 'Period in progress'
	11) Select the check box to specify an alert
	12) Add an alert and take the default name 'Average Process Duration KPI Alert'
	 e. On the Advanced Details tab set the following values: metric 'Order Handling Processing Time' using function average
	1) Select the check box to specify how to calculate the KPI
	2) Set the instance metric to aggregate to 'Order Handling Processing Time'
	3) Set the aggregation function to Average.
 4.	Create a KPI for percentage of orders shipped.
	a. In the Business Measures navigator on the left of the Business Measure Details window, click the Add button.
	b. Change the name to Percentage of Orders Shipped KPI
	c. For type, select KPI .
	d. On the Business Measure Details tab set the following values: type number, target 90, range Low 0 to 85, range Good 85 to 90, range Great 90 to 100, no time period, specify an alert with default name

	e. On the Advanced Details tab you would normally select how to calculate the KPI, but you will leave this to the developer to determine, so no updates are necessary on this tab.
5.	Create a measure to track the total order count.
	a. In the Business Measures navigator on the left of the Business Measure Details window, click the Add button.
	b. Change the name to Order Count
	c. For type, select Aggregate metric .
	d. On the Business Measure Details tab set the following values: function count, take the default dimension 'Location'
	e. On the Advanced Details tab set the following values: instance metric 'Order Handling Processing Time', take the default dimension 'Location'. Note that you could select any instance metric in the model to count and this aggregation will work fine.
6.	Create a measure to count shipments.
	a. In the Business Measures navigator on the left of the Business Measure Details window, click the Add button.
	b. Change the name to Ship Count
	c. For type, select Aggregate metric .
	d. On the Business Measure Details tab set the following values: function average, take the default dimension 'Location'
	e. On the Advanced Details tab set the following values: do not specify an instance metric, take the default dimension 'Location'. You are not sure how to calculate this so just leave it up to the developer.
7.	Create a measure to count declined orders.
	a. In the Business Measures navigator on the left of the Business Measure Details window, click the Add button.
	b. Change the name to Decline Count
	c. For type, select Aggregate metric .
	d. On the Business Measure Details tab set the following values: function average, take the default dimension 'Location'
	e. On the Advanced Details tab set the following values: do not specify an instance metric, take the default dimension 'Location'. You are not sure how to calculate this so just leave it up to the developer.
8.	Create a metric for price so that you can use that metric as a source for aggregations that will average the order prices and total the order prices.
	a. In the Business Measures navigator on the left of the Business Measure Details window, click the Add button.
	b. Change the name to Price

c. For type, select Instance metric .
d. On the Business Measure Details tab set the following values: template 'Business Item Input', process element 'Order Handling', attribute 'Order.TotalPrice(Input), take the defaults for default value, do not specify an alert
 9. Create a measure to sum order price.
a. In the Business Measures navigator on the left of the Business Measure Details window, click the Add button.
b. Change the name to Sum Order Price
c. For type, select Aggregate metric .
d. On the Business Measure Details tab set the following values: function sum, take the default dimension 'Location'
e. On the Advanced Details tab set the following values: instance metric 'Price', take the default dimension 'Location'.
 _ 10. Create a measure to average order price.
a. In the Business Measures navigator on the left of the Business Measure Details window, click the Add button.
b. Change the name to Average Order Price
c. For type, select Aggregate metric .
d. On the Business Measure Details tab set the following values: function average, take the defaul dimension 'Location'
e. On the Advanced Details tab set the following values: instance metric 'Price', take the default dimension 'Location'.
 _ 11. Press Ctrl-S to save your work.

Part 3: Export to WebSphere Integration Developer

In this section you will export the business process and the business measures model to WebSphere Integration Developer.

_ 1.	Export to WebSphere Integration Developer.
_	a. Right click in the Project Tree on CATOrderMgmt, then select Export > WebSphere Integration Developer.
_	b. Click Next .
_	c. Browse to a target directory. Select 'Export entire project and related projects'.
_	_d. Click Next .
_	e. Use the recommended export option.
_	f. Click Next .
_	g. Select 'Export business measures as a monitor model or models'.
_	h. Select 'Export to a single monitor model'
_	i. Click Finish .
 _ 2.	This creates two project interchange files
_	a. Process file - CATOrderMgmt_ <timestamp>.zip</timestamp>
_	b. Business measures file - CATOrderMgmt_Monitor_ <timestamp>.zip</timestamp>
3.	Close WebSphere Business Modeler.

Part 4: Import the process into WebSphere Integration Developer and implement the activities

In this section you will import the process from Modeler into WebSphere Integration Developer. Normally, then you would implement the various activities in the process, but to save some time you will import a solution which already has the implementation for the activities. Using the best practice approach, Modeler has automatically created three separate projects, one for the process (CATOrderMgmt), one for the implementation (CATOrderMgmt_impl) and one for a library of common elements (CATOrderMgmt_lib).

1.	Start WebSphere Integration Developer and setup the environment.
	a. Start WebSphere Integration Developer, and when prompted point to a new workspace such as c:\workspaces\clipsbpm
	b. Close the Welcome tab.
	c. By default, you are in the Business Integration perspective.
2.	Import the process.
	a. In the Business Integration view, right click then select Import
	b. Navigate to Other > Project Interchange then click Next .
	c. For the .zip file, browse to the process output file from Modeler, for example, 'CATOrderMgmt_2008-06-15T10.12.26.zip'. Note that the timestamp in your file name will be different.
	d. You should see three projects listed, so click Select All .
	e. Click Finish .
	f. You should see three projects listed in the Business Integration view, one for the process (CATOrderMgmt), one for the implementation (CATOrderMgmt _impl) and one for a library of common elements (CATOrderMgmt _lib):
	Projects
	E CATOrderMgmt CATOrderMgmt_impl CATOrderMgmt_lib
3.	At this point, you could add the implementations for the human tasks, business rule and Java code. However, to save some time, you will import the solution which has already been updated with the implementations.
	a. In the Business Integration view, right click then select Import
	b. Navigate to Other > Project Interchange then click Next .
	c. For the .zip file, browse to the supplied file, for example,
	c:\Labfiles62\ClipsAndTacksBPM\CATOrderMgmt_ProcessSolution_PI.zip
	d. Select all projects.

e. Click Finish . Click OK to confirm overwrite.
f. If you see errors, then try to clean the workspace by selecting Project > Clean > select 'Clean all projects', then click OK.
g. If you want to review the implementation, in the Business Integration view, navigate to CATOrderMgmt_impl > Business Logic. You will find three Java implementations.
1) CheckCustomerAccountStatus – Java is used to calculate the credit amount for the customer. When you run an instance of the business process, you will enter the old credit rating and old credit amount. This routine calculates a new credit rating which is a random number between 500 and 800. It calculates a new credit amount which is based on an

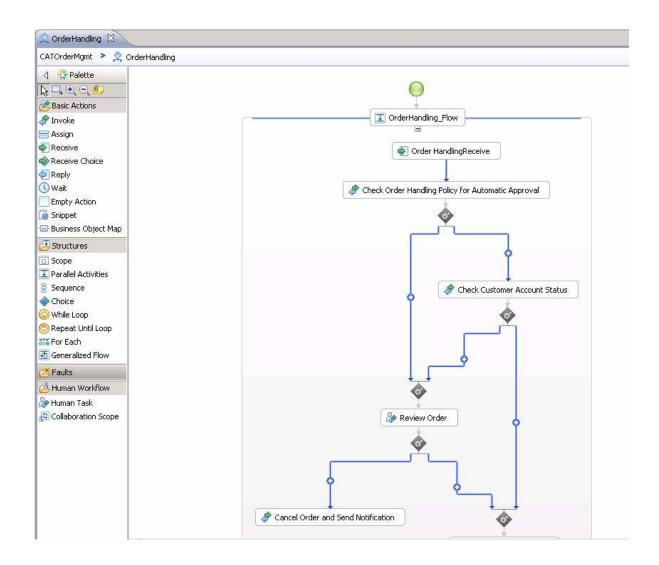
2) The other two Java implementations just print messages to the log.

+((newRating-oldRating)*0.1).

- __ h. If you want to review the BPEL process, in the Business Integration view, navigate to CATOrderMgmt > Business Logic > Processes > processes\orderhandling, then double click OrderHandling to open the BPEL editor. You may get a warning about a generated file, but you can click Yes to view the flow. This is a summary of the flow:
 - 1) Check Order Handling Policy for Automatic Approval. Implemented as a business rule. If Order.totalPrice < 750, go to Check Customer Account Status, else go to Review Order

adjustment to the old credit amount, using this formula: newAvailCredit = oldAvailCredit

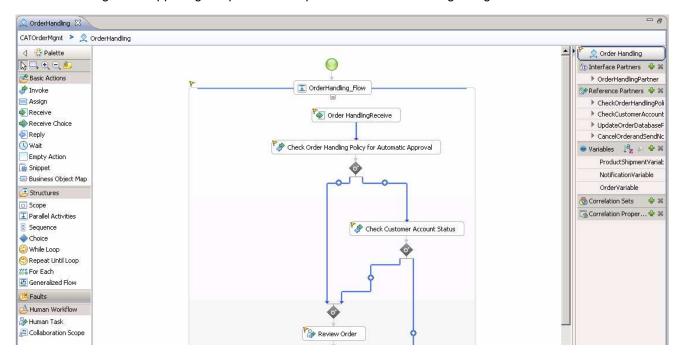
- Check Customer Account Status. Implemented as Java to calculate a new credit amount. If Order.totalPrice > new credit amount, go to Review Order else go to Ship Order to Customer.
- Review Order. Implemented as a human task. If ReviewOrder.OrderStatus is APPROVED then go to Ship Order to Customer else if ReviewOrder.OrderStatus is DECLINED go to Cancel Order and Send Notification.
- 4) Ship Order to Customer. Implemented as a human task. Goes to Update Order Database.
- 5) Cancel Order and Send Notification. Implemented as Java to print messages to the log. This is the end of the flow.
- 6) Update Order Database. Implemented as Java to print messages to the log. This is the end of the flow.



Part 5: Verify that the BPEL process emits monitor events

When you export the process from Modeler, the events that are required for monitoring are already selected to be emitted. Monitor will need events for the process and the invokes in the process. Modeler decisions become links in BPEL, so Monitor also needs events for the flow element in BPEL.

- In the Business Integration view, navigate to CATOrderMgmt > Business Logic > Processes > processes\orderhandling, then double click OrderHandlingFuture1 to open the BPEL editor.
- 2. Click the white background of the process. Make sure that you click outside of the flow element which is the large rectangle that contains the receive, reply and invoke elements. Then click the **Properties** tab, then click the **Event Monitor** tab. Note that all process events are selected.
- _____ 3. Click inside the flow element **OrderHandlingFuture1_Flow**, and note on the Event Monitor tab that all the events are selected.
- _____ 4. Select each invoke in the BPEL diagram and note on the Event Monitor tab that all the events are selected.
- 5. Here is a screen print that shows the small yellow flags that indicate that the events are selected for the components. There are flags on each of the six invokes. The flag in the upper left represents the flow. The flag in the upper right represents the process. So there are eight flags in total.



Part 6: Import the business measures into WebSphere Integration Developer and implement the monitor model

In this section you will import the business measures from Modeler into WebSphere Integration Developer. This section shows you how to complete the implementation of the monitor model.

If you want to skip this section, then a solution has been provided. You can import the supplied project interchange file and then proceed to the next section. Refer to Appendix 2, and then proceed to the next section.

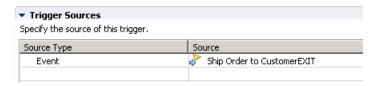
1.	Import the business measures from Modeler.
_	_ a. In the Business Integration view, right click then select Import
_	b. Navigate to Other > Project Interchange then click Next .
_	_ c. For the .zip file, browse to the business measures output file from Modeler, for example, 'CATOrderMgmt_Monitor_2008-06-15T10.12.26.zip'. Note that the timestamp in your file name will be different.
_	_ d. You should see one project listed, so select it.
_	_ e. Click Finish .
	_ f. You should see the new project CATOrderMgmt_Monitor listed in the Business Integration view. Note that it has a red 'x' marker because there are errors due to missing elements in the monitor model.
	CATOrderMgmt CATOrderMgmt_impl CATOrderMgmt_lib CATOrderMgmt_Monitor
2.	Switch to the Business Monitoring Perspective
_	_ a. In the upper right corner, click the perspective icon and select Business Monitoring.
	Business Integration Business Monitoring Profiling and Logging Other
3.	Open the Order Handling Monitor monitor model.
_	_ a. In the Project Explorer navigate to CATOrderMgmt_Monitor > Monitor Models and double click Order Handling Monitor.mm
4.	Review the monitor model. In the Monitor Details Model tab, you see there is a monitoring context for the process and one monitoring context for each activity in the process. On the inbound events

In the dimensional model tab, you see the measures in the Order Handling Cube. Several

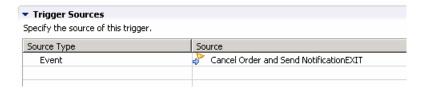
for the process and activities, the correlation information is already setup. There are also termination triggers setup for you. And notice the metrics and stopwatches that are in the model for calculation of the processing times and decision percentages. On the KPI Model tab, you see the two KPIs along with triggers for alerts. One of the KPIs needs implementation details so it has a red marker.

	the Event Model tab, expand the listing for /CATOrderMgmt_lib/businessitems/businessitems.xsd, and you will see the business item schema definitions which are located in the process library CATOrderMgmt_lib.
5	. Click the KPI Model tab.
6	. In the KPI model, update Average Process Duration KPI Trigger 1. This trigger is used to fire the situation event when the process duration is too long.
	a. For Trigger condition, enter this expression:
	Average_Process_Duration_KPI ge dayTimeDuration('P3DT1H')
	▼ Trigger Condition
	Specify the condition that determines whether the trigger will fire. Average Process Duration_KPI ge dayTimeDuration('P3DT1H')
7	. In the KPI model, update Percentage of Orders Shipped KPI Trigger 1. This trigger is used to fire the situation event when the percentage of shipped orders is too small.
	a. In the trigger source table, click Add
	b. Select Recurring wait time , then click OK. This will default to 1 minute.
	c. For Trigger condition, enter this expression:
	Percentage_of_Orders_Shipped_KPI < 85
	▼ Trigger Condition Specify the condition that determines whether the trigger will fire.
	Percentage_of_Orders_Shipped_KPI < 85
8	. Press Ctrl-S to save your work.
9	• • • • • • • • • • • • • • • • • • • •
	percentage of orders shipped you will create a KPI for the number of shipped orders, and you will create another KPI for the total number of orders, then you can determine the percentage by
	dividing the shipped orders by the total orders.
	a. In the details model, create a new trigger Shipped Order Trigger
	 Right click in the Monitor Details Model navigator on the Order Handling monitoring context, and select New > Trigger
	2) Enter name: Shipped Order Trigger, click OK
	3) In trigger sources, click Add, then select Other source type, navigate to Order Handling > Ship Order to Customer > Ship Order to CustomerEXIT, click OK

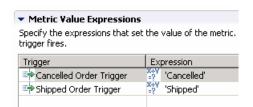
dimensions have red markers because they need implementation details. On the Visual Model tab, you see there are two SVG diagrams installed, one for the process and one for the KPI context. On



- __ b. In the details model, create a new trigger Cancelled Order Trigger
 - Right click in the Monitor Details Model navigator on the Order Handling monitoring context, and select New > Trigger
 - 2) Enter name: Cancelled Order Trigger, click OK
 - In trigger sources, click Add, then select Other source type, navigate to Order Handling > Cancel Order and Send Notification > Cancel Order and Send NotificationEXIT, click OK

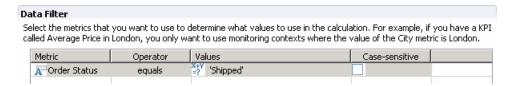


- __ c. In the details model, create a new metric Order Status
 - Right click in the Monitor Details Model navigator on the Order Handling monitoring context, and select New > Metric
 - 2) Enter name: Order Status, enter type: String, click OK
 - 3) Select 'A value is required for this metric', since a dimension will use this metric and that requires a value for dimensional analysis.
 - 4) For Default value, enter 'New' with the quotation marks.
 - 5) In Metric value expressions, click Add. In the trigger cell, enter trigger type Cancelled Order Trigger. In the expression cell, enter 'Cancelled' with the quotation marks.
 - 6) In Metric value expressions, click Add. In the trigger cell, enter trigger type Shipped Order Trigger. In the expression cell, enter 'Shipped' with the quotation marks.

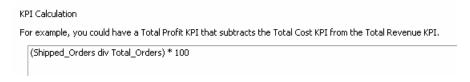


- __ d. In the KPI model, create a new KPI Shipped Orders. You will use the key metric to count all incoming instances, then filter it by the order status so you only count shipped orders. You will also filter it by the process state, so only completed process instances are counted.
 - 1) In the KPI model navigator, right click Order Handling KC and select New > KPI.
 - 2) Enter name Shipped Orders, click OK.
 - 3) Set the type to decimal.

- 4) Select 'Keep track of historical values for this KPI'
- 5) For KPI value, select 'Base this KPI on a metric and an aggregation function'
- 6) For monitoring context, browse to Order Handling
- 7) For metric, browse to Order Handling Instance ID.
- 8) For aggregation function, select Count
- 9) For data filter, click Add, then browse to Order Handling > Order Status, then click OK. In the values cell, enter 'Shipped' with the quotation marks.



- __ e. In the KPI model, create a new KPI **Total Orders.** You will use the key metric to count all incoming instances.
 - 1) In the KPI model navigator, right click Order Handling KC and select New > KPI.
 - 2) Enter name Total Orders, click OK.
 - 3) Set the type to decimal.
 - 4) Select 'Keep track of historical values for this KPI'
 - 5) For KPI value, select 'Base this KPI on a metric and an aggregation function'
 - 6) For monitoring context, browse to Order Handling
 - 7) For metric, browse to Order Handling Instance ID.
 - 8) For aggregation function, select Count
- __ f. Finalize the KPI, Percentage of Orders Shipped KPI
 - 1) In the KPI model navigator, select the KPI Percentage of Orders Shipped KPI
 - 2) For KPI Value, select 'Write an expression to calculate this KPI based on existing KPIs'
 - 3) For KPI Calculation, enter:
 - (Shipped_Orders div Total_Orders) * 100



- ____ 10. Press **Ctrl-S** to save your work.
- 11. Create the shipped percentage situation event which will use the built-in ActionServicesEvent definition. This event contains a field called BusinessSituationName which is a required field for the outbound situation event. Then you will define an outbound event which is fired by the trigger. In

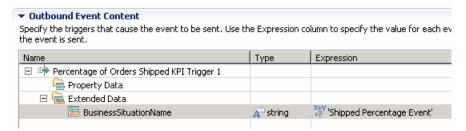
this outbound event, you will provide a value for the field BusinessSituationName which will be used later when configuring action manager in the server administrative console.

_ a. Click the KPI Model tab
_ b. Right click in the navigator on Order Handling KC, select New > Outbound Event
_ c. For name, enter Shipped Percentage Event

d. Select the check box for 'Configure this event to generate an alert in the dashboards'
 e. For trigger, browse to Order Handling KC > Percentage of Orders Shipped KPI Trigger 1
 f. Click OK

__ g. Notice that the extension name defaults to the ActionServicesEvent.

__ h. In the Outbound Event Content, navigate to Percentage of Orders Shipped KPI Trigger 1 > Extended Data > BusinessSituationName, and notice that the expression is already set.



- ____ 12. Press Ctrl-S to save your work.
- 13. Create the order processing time situation event. You will create an event definition containing a field called BusinessSituationName which is a required field for the outbound situation event. You will also create a field to store the average processing time to display in the alert. Then you will define an outbound event which is fired by the trigger. In this outbound event, you will provide a value for the field BusinessSituationName which will be used later when configuring action manager in the server administrative console, and you will supply the data source for the average processing time in the event.
 - __ a. Create an event definition for average order processing time.
 - 1) In Project Explorer, right click ClipsAndTacks and select New > Event Definition...(cbe)
 - 2) For file name, enter LateAverageOrderShippedEvent.cbe
 - 3) Click Finish
 - 4) The Event Definition Editor for LateAverageOrderShippedEvent opens.
 - 5) Double click the hierarchical icon next to the label **Parent**.
 - 6) On the **Select Event Definition** Dialog double click **event**.
 - 7) Event is now shown as the parent of LateAverageOrderShippedEvent
 - 8) On the event definition, click the icon for Add Extended Data . This adds a row to the Extended Data table.

- 9) For the new data element, change the Extended Data name from 'data1' to 'BusinessSituationName' by clicking data1 and typing the new name.
- 10) For the new element, change the type to string. Do this by clicking 'noValue' and then you are given a drop down box.
- 11) On the event definition, click the icon for Add Extended Data. This adds a second row to the Extended Data table.
- 12) For the second data element, change the Extended Data name to AverageOrderProcessingTime
- 13) For the second element, change the type to string.
- 14) Press Ctrl-S to save your work.

__ b. Create the outbound event Order Fulfillment Event

- 1) Click the KPI Model tab
- 2) Right click in the navigator on Order Handling KC, select New > Outbound Event
- 3) For name, enter Order Fulfillment Event
- 4) Select the check box for 'Configure this event to generate an alert in the dashboards'
- 5) For trigger, browse to Order Handling KC > Average Process Duration KPI Trigger 1
- 6) Click OK
- 7) In Event Type Details, for extension name, browse to CATOrderMgmt_Monitor > LateAverageOrderShippedEvent.cbe > LateAverageOrderShippedEvent, then click OK.
- 8) In the Outbound Event Content, navigate to Average Process Duration KPI Trigger 1 > Extended Data > BusinessSituationName, and notice that the expression is already set. For AverageOrderProcessingTime, set the expression to

xs:string(Average_Process_Duration_KPI div xs:dayTimeDuration('P1D'))

This will display the average process duration in day units.

Outbound Event Content Specify the triggers that cause the event to be sent. Use the Expression column to specify the value for each event attribute when the event is sent. Name Type Expression □ Property Data □ Property Data □ Extended Data □ Extended Data □ String □ Order Fulfillment Event' □ AverageOrderProcessingTime □ String □ Order Fulfillment Event' □ String (Average_Process_Duration_KPI div xs:dayTimeDuration('P1D'))

14. Press Ctrl-S to save your wo

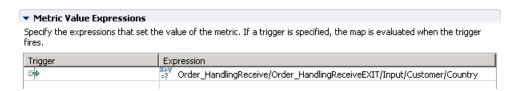
15. Click the **Dimensional Model** tab.

16. In the navigator, locate Order Handling > Order Handling Cube. All of the dimensional work will be performed in this cube.

17.	Delete Decline Count, Order Count , and Ship Count . You can get this information using the built-in function Instances Count in the Dimensional view of the dashboard, and then creating a dimension on order status which is a metric which identifies new orders, shipped orders and cancelled orders.
18.	Create dimension Order Status . This will be useful for drilling down in the Dimensional view of the dashboard to aggregate instances by their order status.
_	_ a. Right click in the Dimensional Model navigator on Order Handling Cube, then select New > Dimension.
_	_ b. Name it Order Status and click OK.
_	_ c. Right click Order Status in the navigator, then select New > Dimension Level
_	_ d. Name it Order Status, then click Browse next to Source Metric, and navigate to Order Handling > Order Status, then click OK.
_	_ e. Click OK.
19.	You want a multi-level dimension called Location which will allow you to drill down on country and then city within country. To enable Location, you need to create metrics for country and city, then you can complete the Location dimension to reference the metrics.

- __ a. In the monitor details model, create metric Country
 - Right click in the Monitor Details Model navigator on Order Handling, and select New > Metric
 - 2) Enter name: Country, enter type: String, click OK
 - 3) Select 'A value is required for this metric', since a dimension will use this metric and that requires a value for dimensional analysis.
 - 4) For default value, enter an empty string (two single quotation marks)
 - 5) In Metric Value Expressions, click Add. In the expression cell, use content assist to navigate to the Order Handling Receive EXIT event and select Country in the Input data in the Customer record.

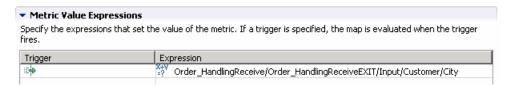
Order_HandlingReceive/Order_HandlingReceiveEXIT/Input/Customer/Country



- __ b. In the monitor details model, create metric City
 - Right click in the Monitor Details Model navigator on Order Handling, and select New > Metric
 - 2) Enter name: City, enter type: String, click OK
 - 3) Select 'A value is required for this metric', since a dimension will use this metric and that requires a value for dimensional analysis.

- 4) For default value, enter an empty string (two single quotation marks)
- 5) In Metric Value Expressions, click Add. In the expression cell, use content assist to navigate to the Order Handling Receive EXIT event and select City in the Input data in the Customer record.

Order_HandlingReceive/Order_HandlingReceiveEXIT/Input/Customer/City



- __ c. In the Dimensional model, update the **Location** dimension using the two metrics.
 - 1) In the Dimensional Model, navigate to the Order Handling Cube > Location. Notice that there is a dimension level called Location underneath the dimension Location.
 - 2) Right click the dimension level underneath the Location dimension and select delete. This will delete the dimension level, but the dimension will remain.
 - 3) Right click dimension Location, then select New > Dimension Level
 - 4) Name it Country, then click Browse next to Source Metric, and navigate to Order Handling > Country, then click OK.
 - 5) Click OK.
 - 6) Right click Location in the Dimensional Model navigator, then select New > Dimension Level
 - 7) Name it City, then click Browse next to Source Metric, and navigate to Order Handling > City, then click OK.
 - 8) Click OK.
 - 9) In the navigator you should see Location listed with two sub-levels as follows:

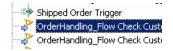


- ____ 20. Press Ctrl-S to save your work.
- _____ 21. Select Project > Clean..., then select 'Clean all projects', then click OK.
- 22. Check for any errors in the Problems view. You should resolve any errors before continuing. Warnings and informational messages may be present but these will not be a problem.

Part 7: Generate and publish the model to the server

In this section you will use WebSphere Integration Developer to publish the monitor model to the monitor server.

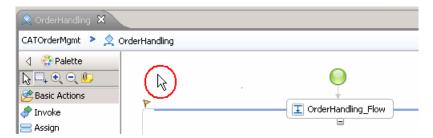
- __ 1. You should first verify that the 'valid from date' in the process matches the monitor model. This can be a problem if you imported the process solution but did not import the monitor solution. But it is a good practice to verify the 'valid from date' in any case.
 - __ a. In Project Explorer, expand CATOrderMgmt_Monitor > Monitor models > Order Handling Monitor.mm and open it by double clicking it.
 - __ b. In the monitor details model, navigate to Order Handling > Order Handling, then scroll to find the first inbound event that is in the list. Then click it to select it.



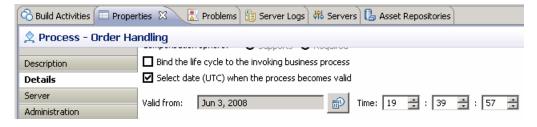
__ c. In the details page, check the filter condition and look for 'processTemplateValidFrom' and note the exact date and time that is listed.



- __ d. Switch to the Business Integration perspective.
- __ e. In the Business Integration view, navigate to CATOrderMgmt > Business Logic > Processes > processes\orderhandling, then double click OrderHandling to open the BPEL editor.
- f. Click the white background canvas outside of the box that surrounds the flow.



__ g. Click Properties > Details, then verify that the date and time listed is the same as the processTemplateValidFrom date and time in the monitor model.



_	$_$ h. If the date or time is different, then update i	t to match the one in the mo	nitor model.
_	_ i. Press Ctrl-S to save your work.		
2.	Open the Business Monitoring perspective.		
3.	In Project Explorer, expand CATOrderMgmt_Monitor > Monitor models > Order Handling Monitor.mm. Right click and then select Generate Monitor J2EE Projects from the pop-up menu		
4.	Select Finish.		
5.	A progress dialog shows the status of the operation and it closes when the operation is complete. Check for errors in the Problems view. There may be warnings, but there should not be any errors. you see errors, then try to perform a clean to see if the errors can be removed: Project > Clean > select 'Clean all projects', then click OK.		
6.	Click the Servers tab, then right click and select Business Monitor Server v6.2. This may take a		e server WebSphere
(1	Monitoring Flow 🔲 Properties 📳 Problems 👭 Servers 🗵	Console 🔓 Asset Repositories	
	Server A	State	Status
	webSphere Business Monitor Server v6.2 on WebSphere Process WebSphere Process Server v6.2 at localhost	Server 🚡 Started	Synchronized
7. 8.	Right click in the servers view, then select Add Click to move Order Handling MonitorApplic CATOrderMgmtApp from the list of available	ation, CATOrderMgmt_im	
9.	Click Finish.		
10.	A progress message is displayed in the lower	right corner of the window.	
11.	When the publishing is complete, the application	ons should show started in the	ne Servers view:
		Console	
	Server WebSphere Business Monitor Server v6.2 on WebSphere Process	State Server Started	Status
		Server Scarted	Synchronized Synchronized Synchronized Synchronized
12.	If you are using the integrated server within W need to setup Monitor data security, since the models. If you are using a different server, the navigate to Security > Monitor Data Security	administrative user is autom n you should open the admir	natically authorized to all nistrative console,

resource group.

Part 8: Configure action manager for business situation events

This section shows you how to configure action manager to create alerts based on business situation events defined in the monitor model. The alerts will be visible in the Alert view on your dashboard.

You do not need an LDAP server to test the situation events. When you configure the notification template, you can specify a dashboard login rather than a user registry.

In this section, you will use the administrative console to configure the alerts. However, you could also create business user alerts using the Alert Manager widget in the dashboard. In a production environment, an end user could use the alert manager widget to manage the business user alerts, however, an IT administrator would manage the modeled alerts in the administrative console.

1.	Start the administrative console.
	a. In the Servers view, right click the Monitor server and select Run administrative console.
	b. Enter 'admin' without the quotation marks for both user ID and password.
2.	Add a template for shipped percentage alerts.
	a. In the administrative console, navigate to Applications > Monitor Services > Monitor Action Services > Template Definitions > Notifications.
	b. Click New.
	c. Enter AlertShip as Template name and a description.
	d. Select Dashboard Alert.
	e. Select User id.
	f. For the To field, enter admin. This user ID is the one that will receive the alert, so you must log into the dashboard with this user ID.
	g. Enter a subject, such as 'Percentage of shipped orders'
	h. Enter the body, such as 'Percentage of shipped orders is less than 85.'
	i. Click OK .
3.	Add a template for order processing time alerts.
	 a. In the administrative console, navigate to Applications > Monitor Services > Monitor Action Services > Template Definitions > Notifications.
	b. Click New.
	c. Enter AlertTime as Template name and a description.
	d. Select Dashboard Alert.
	e. Select User id.
	f. For the To field, enter admin. This user ID is the one that will receive the alert, so you must log into the dashboard with this user ID.
	g. Enter a subject, such as 'Order processing time'.

substituted for %AverageOrderProd	order pro	a substitution variable as shown below. cessing time from the event payload will e% in the body. For example:	
The average order processing tin	ne is %Ave	rageOrderProcessingTime% days.	
i. Click OK .			
_ 4. Add the binding from the situation ever	nt to the ac	tion type for shipped percentage.	
a. In the administrative console, navig Services > Installed Situation Eve		lications > Monitor Services > Monitogs.	or Action
b. Click New .			
c. Enter the situation event name that situation name as follows:	you define	d in the model. In this lab, you created a	a busines:
Shipped Percentage Ev	ent ent		
screen capture from the model snot	wing the SI	nipped Percentage Event attributes:	re is a
▼ Outbound Event Content	_	nipped Percentage Event attributes:	ie is a
·	_		ile is a
▼ Outbound Event Content Specify the triggers that cause the event to be sent. Us Name □ ➡ Percentage of Orders Shipped KPI Trigger 1	e the Expression	column to specify the value for each eve	ile is a
▼ Outbound Event Content Specify the triggers that cause the event to be sent. Us Name □ ➡ Percentage of Orders Shipped KPI Trigger 1 ➡ Property Data	e the Expression	column to specify the value for each eve	
▼ Outbound Event Content Specify the triggers that cause the event to be sent. Us Name □ □ □ Percentage of Orders Shipped KPI Trigger 1	e the Expression	column to specify the value for each eve	ile is a
▼ Outbound Event Content Specify the triggers that cause the event to be sent. Us Name Percentage of Orders Shipped KPI Trigger 1 Property Data Extended Data BusinessSituationName e. Enter a description, then click Apply New Situation Event Binding General Properties * Situation event name	Type	column to specify the value for each eve Expression	16 13 a
▼ Outbound Event Content Specify the triggers that cause the event to be sent. Us Name Percentage of Orders Shipped KPI Trigger 1 Property Data Extended Data BusinessSituationName e. Enter a description, then click Apply New Situation Event Binding General Properties	Type	column to specify the value for each eve Expression	11

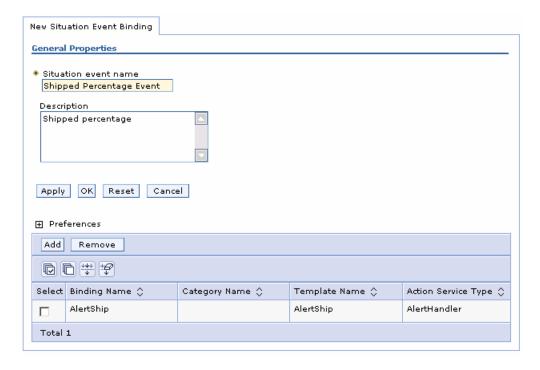
__ f. Click Add.

Apply OK Reset Cancel

__ g. Enter a binding name, then select the template **AlertShip.**

__ h. Click **OK**.

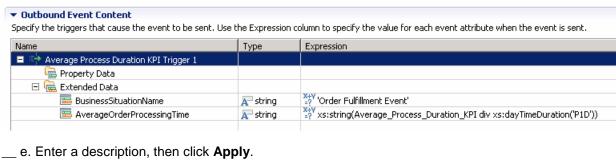
__ i. Notice that you now have one action defined for this situation event. If you had other action templates defined then you could add more actions to this event. So then you could send a notification for this situation to multiple destinations including e-mail, alerts, and Web services.



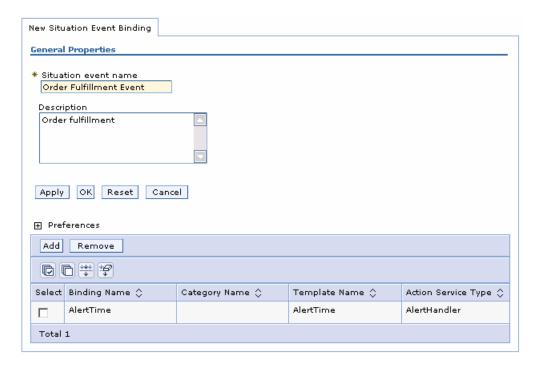
- __ j. Click **OK**.
- Add the binding from the situation event to the action type for order processing time.
 - __ a. In the administrative console, navigate to Applications > Monitor Services > Monitor Action Services > Installed Situation Event Bindings.
 - b. Click New.
 - __ c. Enter the situation event name that you defined in the model. In this lab, you created a business situation name as follows:

Order Fulfillment Event

_ d. . This must match exactly the value in the BusinessSituationName field in the outbound event. You may want to copy/paste from the model, but do not copy the quotation marks. Here is a screen capture from the model showing the Order Fulfillment Event attributes:



- __ f. Click Add.
- __ g. Enter a binding name, then select the template AlertTime, then click OK.



- __ h. Click OK.
- _____ 6. In the administrative console, navigate to **Applications > Monitor Services > Monitor Action Services > Installed Situation Event Bindings.** You should see the two bindings that you created.



Part 9: Run events to exercise the model

In this section you will use the business process choreographer explorer to run process instances.

There are five different paths to take through the model. For each path, here are sample data elements that will invoke the listed path:

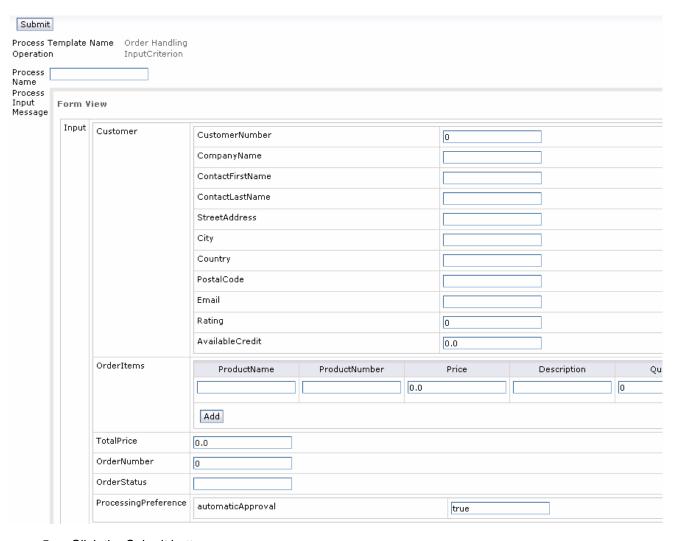
- a. Approve without review, account in good standing, ship
 - i. Start instance: rating 800, available credit 800, total price 20
 - ii. Ship task: no required elements
- b. Approve without review, account not in good standing, approve the order, ship
 - i. Start instance: rating 800, available credit 100, total price 200
 - ii. Review task: order status APPROVED
 - iii. Ship task: no required elements
- c. Approve without review, account not in good standing, decline the order
 - i. Start instance: rating 800, available credit 100, total price 200
 - ii. Review task: order status DECLINED
- d. Do not approve without review, approve the order, ship
 - i. Start instance: rating 10, available credit 10, total price 900
 - ii. Review task: order status APPROVED
 - iii. Ship task: no required elements
- e. Do not approve without review, decline the order
 - i. Start instance: rating 10, available credit 10, total price 900
 - ii. Review task: order status DECLINED

In order to see an alert in the alerts view of the dashboard, you will need the number of shipped orders to be less than 85 percent of the total number of orders. An easy way to achieve this is to process one DECLINED order, then before you add any other process instances, go to the dashboard section of this document and create a dashboard to view the alerts.

- 1. In the Servers view, right click server WebSphere Business Monitor Server v6.2 > Launch > Business Process Choreographer Admin Client
- ____ 2. Click My Process Templates



- 3. Select Order Handling, then click Start Instance
- 4. In the following data entry page, enter a unique value for the process name, then enter values for the fields in the various business objects listed. You can use just one line item for OrderItems, or you can enter additional ones if you like by clicking the Add button. The values for Rating, AvailableCredit, and TotalPrice determine which paths the process will take. See the introduction to this section for more information.

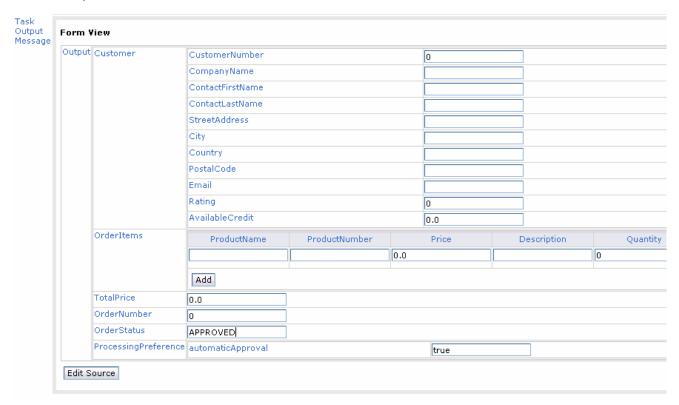


- ____ 5. Click the Submit button.
- _____ 6. Select Task Instances > My To-do's. Here you will find either the Review Order task or the Ship Order to Customer task, depending on the values that you entered when you started the process instance.



- 7. To complete a task, select the check-box for it, then click 'Work on'. You will be given a page to enter values for the task. You should enter the values in the section for the task output message.
 - __ a. For the ship task, you can just press the Complete button, since the data elements are not required values for this process.

- __ b. For the review task, you should enter 'APPROVED' or 'DECLINED' (without the quotation marks) into the OrderStatus field. The other fields are optional for this process, so you can choose to not enter them to save time. Then press the Complete button.
- __ c. This screen capture shows the review task and the string 'APPROVED' (without the quotation marks) has been entered in the OrderStatus field.



Part 10: Create a dashboard in business space

In this section you will build a dashboard in business space. You will add views to the dashboard and configure them.

- Create the dashboard.
 - __ a. The default browser is 'Internal Web Browser', but you should not use this one since some standard functions are not provided that you may need. Select Window > Preferences > General > Web browser > select 'Use external Web browser'. Select an external browser. Click OK.
 - __ b. In WebSphere Integration Developer, in the servers view, right click and select Business Space
 - __ c. When prompted, enter admin for the user ID and enter admin for the password. You must log in with 'admin' so that you can view the alerts which were setup in action manager to be sent to this particular user ID. Also, in the toolkit environment, this is the user that is automatically defined on the secured server.
 - __ d. Click the icon to create a new space.



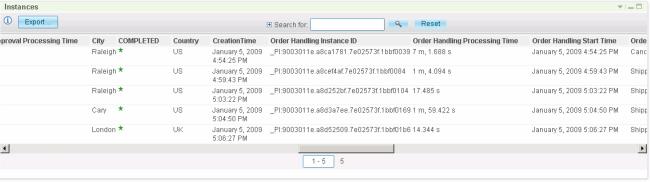
- __ e. Enter a name such as Dashboard, select Empty, then click **OK**.
- f. Click the icon to create a new page in the Dashboard space.



- __ g. Enter a name such as Page1, select Empty, then click **OK**.
- h. Click Page1 to open it.

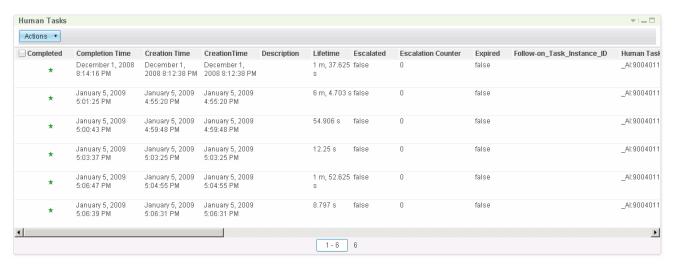


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i. Now you can add widgets to the page by clicking 'Add widgets' in the upper right corner i. Now you can add widgets to the page by clicking 'Add widgets' in the upper right corner i. then dragging a widget to the page. If you want to rename the page, change the layout or remove the page from display, use the icons to the right of the page name on the tab i. To return to the business space list, click 'Manage Business Spaces' in the upper right corner i. To return to the business space list, click 'Manage Business Spaces' in the upper right corner.	;
2. Add the instances widget to see monitored instances.	
a. Click Add widgets , then select Instances and drag it to the page.	
b. Click Configure on the widget menu.	
1) To Access the menu, hover the mouse over the right corner of the widget and then click the down arrow. On this menu you can configure the widget, refresh the widget and delete the widget. Configure Refresh Delete Help	
c. Click the Show/Hide tab, and select monitoring context 'Order Handling'.	
Click button >> to move all the fields to the Selected box. Also, click button 'Set as default' which will make this the default monitoring context to display. d. Then click OK. You should see a list of monitoring context instances for the events that you just	
processed.	
Instances ① Export ② Reset	~
proval Processing Time City COMPLETED Country CreationTime Order Handling Instance ID Order Handling Processing Time Order Handling Start Raleigh * US January 5, 2009 _PI:9003011e.a8ca1781.7e02573f.1bbf0039 7 m, 1.688 s January 5, 2009 4:54	

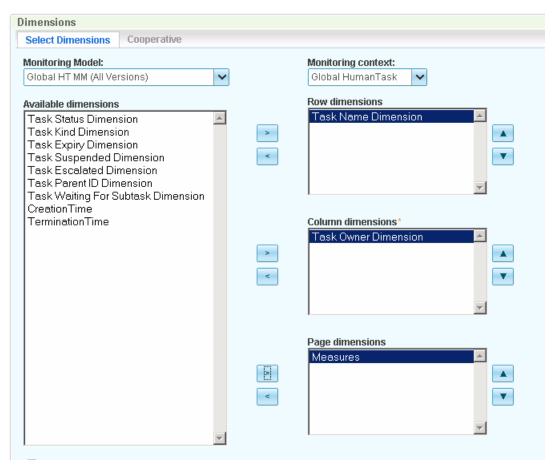


- Add the human tasks widget. 3.
 - __ a. Click **Add widgets**, then select **Human Tasks** and drag it to the page.
 - __ b. Click **Configure** on the widget menu.
 - __ c. Click the **Show/Hide** tab.
 - __ d. Click >> to copy all the metrics from the available list to the selected list.

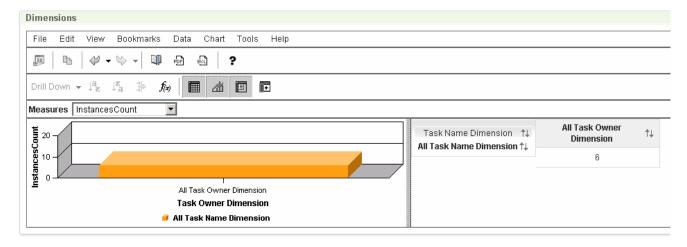
__ e. Click OK.



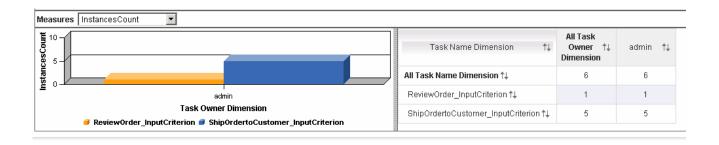
- _____ 4. Add the dimensions widget and configure it to show aggregated human task information.
 - a. Click **Add widgets**, then select **Dimensions** and drag it to the page.
 - b. Click **Configure** on the widget menu.
 - __ c. Select the following values:
 - 1. Monitoring Model: Global HT MM (All Versions)
 - Note that this is the global human task monitor model which is automatically installed when you install the toolkit.
 - 2. Monitoring Context: Global Human Task
 - 3. Select **Task Name Dimension** from the **Available Dimensions** list and click the right direction arrow () next to **Row Dimensions** text area.
 - 4. Now select **Task Owner Dimension** from the **Available Dimensions** list and click the right directional arrow () next to **Column Dimensions** text area
 - 5. Now select **Measures** from the **Available Dimensions** list and click the right direction arrow () next to **Page Dimensions**



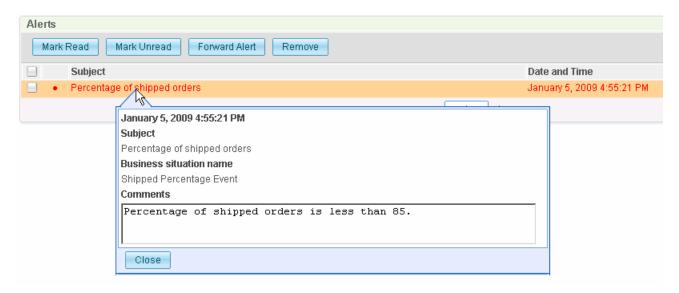
- __ b. Click the **OK** button.
- __ c. The Dimensions view displays the instances count based on task name and task owner. If you see a row alignment problem such as in this screen capture, you can correct it easily by selecting the right edge of a column and dragging it to adjust the width of the column, then it will refresh the row alignment.



__ d. You can double click **All Task Name Dimension** to drill down on task name. Then double click **All Task Owner Dimension** to drill down on task owner.



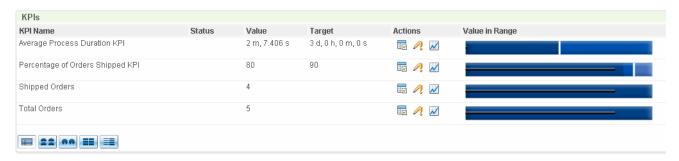
- _ 5. Add the alerts widget. There are two alerts defined in the model, one for shipped percentage and one for order processing time. The latter is based on a processing time greater than three days, so it will be difficult to test here, unless you use the KPI Manager widget to reduce the target. The former can be tested easily by ensuring that the number of shipped orders is less than 85 percent of the number of total orders.
 - __ a. Click **Add widgets**, then select **Alerts** and drag it to the page. You can click the alert to see the details.



- __ b. On the widget menu you can select 'Send Widget...' to send a screen capture of the alert as an attachment to a human task.
- ____ 6. Add the KPIs widget.
 - __ a. Click **Add widgets**, then select **KPIs** and drag it to the page.
 - __ b. Click **Configure** on the widget menu.
 - __ c. On the tab 'KPIs', select the KPIs to display.



__ d. Click **OK**.



- e. In the lower left corner, you can select different display formats for the KPI.
- __ f. The Status column displays icons which represent the value of the KPI relative to the target and ranges. Initially this is blank, but you can use the KPI Manager widget to configure them.
- __ g. On the widget menu you can select 'Send Widget...' to send a screen capture of the KPIs as an attachment to a human task.
- 7. Export values to Modeler. Note that you must have some completed monitoring context instances for this, so make sure that you have started and completed some process instances before exporting the values.

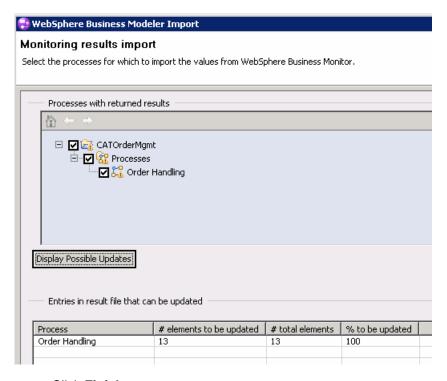


- __ a. Click **Add widgets**, then page forward using the right arrow select **Export Values** and drag it to the page.
- __ b. Select the Order Handling model.
- __ c. Click Preview Data to see the data that will be exported.

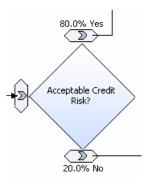


__ d. Click Export.

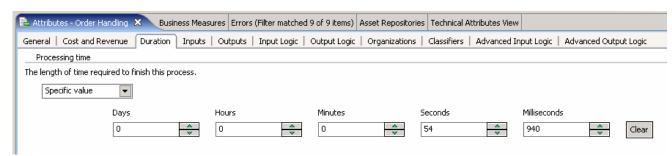
- __ e. The XML is displayed in a browser window, click File > Save page as... or Save as..., then select your destination folder and click Save. The file is stored by default as exportvalues.xml.
- __ f. Open WebSphere Business Modeler, and point to the workspace containing your model.
- __ g. In the project tree, navigate to CATOrderMgmt > Processes > Order Handling, and select it
- __ h. Right click Order Handling, then select Import...
- __ i. Select WebSphere Business Monitor results (.xml), then click Next.
- __ j. **Browse** to the folder containing the exportvalues.xml file.
- __ k. Select **exportvalues.xml**, then click **Next**.
- __ I. Click 'Display Possible Updates' to see the update summary.



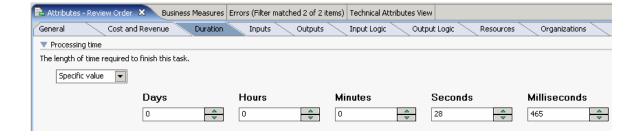
- __ m. Click **Finish**.
- __ n. Double click the process in the project tree to open the process diagram. Browse the process diagram to see the updated values for the six decision percentages.



__ o. To check the updated process duration time, click the background of the diagram, then click the Attributes tab, then click the Duration tab.



__ p. To check the updated task duration times, click one of the tasks in the diagram, then click the Attributes tab, then click the Duration tab, then click the icon in front of 'Processing time'.



What you did in this exercise

In the lab, you imported the model into WebSphere Business Modeler and reviewed the process model. You created the business measures model.

You exported the process model and business measures model to WebSphere Integration Developer, and imported the implemented process solution.

You completed the implementation of the monitor model.

You deployed the process and the monitor model, and ran process instances.

Finally, you created a dashboard in business space and exported monitored values back to Modeler.

Appendix 1 – Import the solution into Modeler

A solution has been provided so that you do not have to build the business measures model from scratch. This section shows you how to import the MAR project into WebSphere Business Modeler. After importing the project then you can review the business measures model and then proceed to the section to export the projects to WebSphere Integration Developer.

1.	Import the supplied Modeler project.
_	_ a. In Modeler, right click in the Project Tree, then select Import
_	_ b. Select WebSphere Business Modeler project (.mar, .zip)
_	_ c. For source directory, browse to the folder containing the supplied mar file, for example, c:\Labfiles62\ClipsAndTacksBPM
_	_ d. For files, select CATOrderMgmt_Solution.mar.
_	_ e. Click Finish .
2.	Open the Order Handling process, click the process diagram background, then select the Business Measures tab. On this tab you can review the business measures that have been previously created.
3.	Now you may proceed to the section to export the projects from Modeler to WebSphere Integration Developer.

Appendix 2 – Import the solution into the monitor model editor

A solution has been provided so that you do not have to build the monitor model from scratch. This section shows you how to import the monitor model project into WebSphere Integration Developer. After importing the model then you can proceed to the section to publish the model to the server.

1.	Import the monitor model project into WebSphere Integration Developer.
_	_ a. In the Business Integration view, right click then select Import
_	_ b. Navigate to Other > Project Interchange then click Next .
_	_ c. For the .zip file, browse to the supplied file, for example,
_	_ d. c:\Labfiles62\ClipsAndTacksBPM\CATOrderMgmt_MonitorSolution_PI.zip
_	_ e. You should see one project listed, so select it.
	_ f. Click Finish .
2.	Expand the project in the Project Explorer view, then expand the Event Definitions and you will see the events listed. Expand Monitor Models and you will see the model listed.

Now you can proceed to the section to generate and publish the model to the server.

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