

This presentation provides a description of the Business Measures View that is a new feature of WebSphere Business Modeler V6.0.2



This presentation discusses the business measures view in WebSphere Business Modeler V6.0.2, explaining the evolution of the monitoring specification capabilities and the relationship with the WebSphere Business Monitor toolkit.

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Functio	n comparison: V6.0.1 and V6.0.2
Existing	WebSphere Business Modeler and WebSphere Monitor were tightly coupled through the business measures model.
0.0.1	The WebSphere Business Modeler must be used to create or change the business measures model
New 6.0.2	Business measures view has been introduced to create KPIs and metrics associated with a business process.
	The monitoring model is decoupled from the WebSphere Business Modeler.
Benefits	The monitoring model is created using the monitoring model editor of the WebSphere Business Monitor development toolkit.
	Business Measures view © 2007 IBM Corporation

With the release of WebSphere Business Modeler V6.0.2 there have been significant changes with the way business measures are specified.

With WebSphere Business Modeler V6.0.1 the Business Model and the Business Measures model which was used by WebSphere Business Monitor were very tightly coupled. The models were essentially elements of the same model and to realize the monitoring model the integration developer was required to use WebSphere Business Modeler.

With WebSphere Business Modeler V6.0.2 the creation and maintenance of the Monitor Model, has been moved to a separate tool called the WebSphere Business Monitor Development Toolkit, which is an Eclipse plug-in. This allows the integration developer to create a much richer monitoring model that can use information from the WebSphere Business Modeler business model, but is not dependent upon it.



The comparison chart shown here captures the key differences between WebSphere Business Modeler V6.0.1 and V6.0.2 and the way the business measures are managed.

To begin with, the Business Measures Editor in V6.0.1 has been reduced to a view of the process editor. This is an important distinction because this means that the business measures specifications are now associated directly with the business process, which will have ramifications on version handling strategies for business process models.

The next significant item is the export format and target. With V6.0.2 the export format is now using standard XML and the export target is now the WebSphere Business Monitor Development Toolkit instead of the monitor runtime. The Monitor Toolkit is where the monitor model is really created and the business measures flowing from the WebSphere Business Modeler become 'suggestions' or recommendations about what should be monitored. The WebSphere Business Modeler describes the analysis model while WebSphere Integration Developer and the Monitor Toolkit define the implementation models, providing a clear separation between analysis and design.

Separating the monitoring model in this way also decouples it from the BPEL model allowing the evolution of the monitoring model without impacting the BPEL implementation.

With V6.0.2 the process diagrams are also exported as SVG files so they can be displayed by the monitor dashboard.



The specifications for the business measures are configured in a view of the business process editor.

There are two tabs in this view, one for the Business Performance Indicators and another for the Monitored Values.

The Business Measures are specified on the Business Performance Indicators tab. The details will be discussed in coming slides.

On the Monitored Values tab, you can specify what process information to collect in WebSphere Business Monitor to be returned to WebSphere Business Modeler.

You use this information to improve the accuracy of simulations by providing realistic and accurate data derived from actually running the process.



First, set the Modeler Mode to the Advanced Mode.

If you are starting from a new WebSphere Business Modeler V6.0.2 workspace then the tab for the Business Measures view will be visible in the workspace by default.

If you are starting from a WebSphere Business Modeler V6.0.1 workspace you may not see the new Business Measures view.

If you do not see it, you can use the Show View dialog to add it to your workspace.



Shown here is the Business measures view with the Business Performance Indicators tab selected.

There is one key performance indicator already defined. A new one can be created by selecting the Add button, which will open a form for specifying the KPI and its optional properties.

IBM Software Group	<u>i kiņi</u>
Business measures details	
🖬 Business Measure Details 🛛	
Business Measure Details Specify additional details to describe how the business measure is calculated.	
Name Measure 1	
Description	
► Dashboard views	
OK Cancel	
By default the Business Measures Details window comes up with unspecified se	lected.
The information presented will depend on the <b>Type</b> selected.	
Business Measures view © 2007 IBM (©	8 Corporation

After you click the Add button, you are presented with a dynamic form.

The contents that are displayed depend on the radio button that is selected.

Here the Unspecified radio button is selected by default and you can see that there is little to specify – only the description of what this Business Measure should be capturing.

Notice the red triangle indicator for the Dashboard View. More on this in the next slide.



Selecting the radio button for the KPI will present a larger form with more options. The dialog is too large to fit onto a single slide and it has very distinct sections. This is the first section with the triangular indicator for the Dashboard views expanded.

First notice the Description field.

This is the most important field in the entire specification. Remember, that with V6.0.2 you will be describing what the KPI will do.

The metrics defined here are hints and guidelines for the integration developer who will be implementing the monitoring model, using the WebSphere Business Monitor development toolkit. For this reason it is very important to have a complete description of the intent and purpose of the KPI business measure.

The Dashboard Views provide information that will help the Business Analyst determine how to specify the optional KPI values so that the integration developer will be able to implement them to achieve the required result.

Selecting the link for a dashboard view will display a sample view. Shown here is the gauge, which is a likely candidate for a KPI. The other fields in the form, which are optional, will provide the additional information required to implement a gauge.

The dashboard design is not part of WebSphere Business Modeler.



Listed here are the optional fields associated with the KPI type of business measure. These are all optional but will be very helpful to the integration developer who will be constructing the monitoring model.

Target value and type define what it is that you want to capture.

Time period defines the period of time for which you want to gather the information; this can be a finite period of time or a recurring interval.

Setting range details is how you specify the ranges on the gauge that are categorized as acceptable, good or bad values.

When to send an alert allows you to specify what value of the KPI will trigger an alert being sent to a configurable address.

Specifying dimensions allows you to group the data in categories such as location or time.

	IBM Software G	roup			IKM
Detail	s: KPI ta	rget valu	ue and ty	ре	80039 View 0 2 7 - □ New Cartonees KPI 12 - 0 19 - 19 - 19 - 19 - 19 - 19 - 19 - 19 -
• Targ	get value	and type	ar duration (	dava haur	
> Ty	e value is t	he value yo	ou expect th	e KPI to ac	s,) hieve
Specify a ta The target is a	<b>rget value and type</b> an exact value that the	e KPI should achieve.			
Type:	Duration Days	▼ Hours	Minutes	Seconds	Milliseconds
Target value:	3	0	0	0 🔦	0
					11

Notice the check box under the mouse pointer. This indicates that this is an optional parameter.

The Type is limited to Number or Duration and the duration can be days, hours, minutes, seconds or milliseconds as shown in the slide.

If the Type is number, then the target value displayed will change to a single field for entering decimal numbers.

If no type is selected, the value is optional and can be any text.

IBM Software Grou	ıp	<u>IKM</u>
Details: KPI tim	e period	Wings Yow 0 → 7 → 0 The Colomon 202 Online 35 per data (1997) 12 10 0 → 1 → 0 12 10 0 → 1 12 10 0 → 1 10 10 0 → 1 10 10 0 → 1 10 0 → 1 10 0 → 1 10 0 → 1 10
<ul> <li>Time period ov measure will be</li> </ul>	er which the bus e monitored.	siness
Repeated ( dail	ly, monthly, yearly	)
<ul> <li>Rolling         <ul> <li>Number of previou</li> <li>Fixed</li> </ul> </li> <li>Specify a time period over which the specify a time period over</li></ul>	s days, up to or including te business measure will be monitore	the current day.
O Repeating	O Rolling	• Fixed
Period type: Yearly Base period on: O Last full period O Period in progress	Size of period: Number of previous days: 30	Start date: August 01, 2006 End date: August 31, 2006
	Business Measures view	© 2007 IBM Corporation

The repeated time option lets the business analyst specify the time period over which to collect the information;

repeated, rolling or fixed.

## Repeated:

Select the Period type (daily, monthly, or yearly) and specify whether you want to see the last full period or the period in progress.

For example, if you select daily, then the KPI can either show the value from yesterday, or the value based on the day so far.

## Rolling:

Select the Number of previous days that you want to see and specify whether you want to include the last full day (yesterday) or the day in progress.

For example, if you select 30 days, you will see the value of the KPI based on the last 30 days either up until yesterday, or up to the current time.

Restrictions:

Rolling dates are limited to 100 days.

Start and end dates cannot be more that 100 days apart

WBModeler602\_BMV.ppt

IBM Software Group			
Details: KPI range	e details		Sange Vere 13 / 7 - 0 Tere Catholene KEY Dorker Sibaged Daly KE 10 - 19 - 19 - 10 - 10 - 10 - 10 - 10 -
Range details			a 50 o 200
A range or set of r	anges against w	hich to tracl	k the KPI
<ul><li>Percentage of the targe</li><li>Actual value</li></ul>	et value.		
<ul> <li>Specify range details:</li> <li>Ranges can be defined as percentages of the t</li> <li>O Percentage of target value (target value =</li> <li>O Actual value</li> <li>Specify ranges</li> <li>A range is a set of values, such as allowable mages</li> </ul>	arget value or as fixed, actual values. 100%) argins or lower and upper limits, agains	t which to track your KPI.	
Range name	Start value	End value	
Dya 1	0 seconds	< 1 days	Add
Day 2	1 days	< 2 days	
Day 3	2 days	< 3 days	Remove
Day 4 Day 5	3 days 4 days	< 4 days < 5 days	Sort
	Burings Magura view		13 © 2007 IBM Corporation

Remember the dashboard view that was presented earlier, it was the gauge.

This is where you specify the ranges that should be displayed, something like high, medium, or low.

There are two options, the percentage of the target value can be used or the actual value can be used.

Select Percentage of target value to have the target value treated as 100% for setting the ranges, or select Actual value if you have no target or want to specify exact values.

For example, you might have an Acceptable range that is from 90% to 100% of the target and a Good range that is from 100% to 110% of the target.

Or, using actual values, you might have an Acceptable range that is from 5 to 10 and a Good range that is from 10 to 20.

IBM Software Group	IKŅ
Details: KPI alerts	8 sept + her The transmission of the transmi
<ul> <li>Alerts</li> <li>Describe the conditions under which an alert should be sent a happen as a result of the alert.</li> <li>This description will be used by the Monitoring Model implementation.</li> </ul>	nd what should enter.
<ul> <li>Example: "If the value of the KPI dips into the Poor range e-mail to the manager" or "If the value of the KPI exceeds notify Marketing."</li> </ul>	, send an the target,
☐ Specify when to send an alert and the action to take as a result	
For example, when this measure exceeds a certain value, an email may need to be sent.	()
Alert description	Add
	14
Pusieses Messures view	© 2007 IPM Corporation

Alerts are fairly straightforward. You can have an alert sent by selecting this box. The text in the description will tell the integration developer when the alert should be sent and to whom.

A clear and concise description is paramount for this option.

Alert description:

Describe the conditions under which an alert should be sent and what should happen as a result of the alert.

For example, you could type "If the value of the KPI dips into the Poor range, send an email to the manager" or "If the value of the KPI exceeds the target, notify Marketing."

IBM Software Group	
<ul> <li>Details: KPI dimension specification</li> <li>Dimensions</li> <li>Dimensions are used to calculate sub-groups</li> <li>The data categories that will be used to calculate the value of the KPI</li> <li>By country, sales, representative, or growth</li> <li>Select Add and change the default name.</li> <li>To specify a dimension that is available for calculating this the check box.</li> </ul>	s KPI, select
<ul> <li>Select the aspects across which to calculate the KPI value</li> <li>For example, Total profit by City, or Average salary by Date.</li> <li>Dimension</li> <li>Start Time</li> </ul>	Add Remove
Business Measures view	© 2007 IBM Corporation

- Specify the dimensions to use to calculate the KPI value to specify the data categories that will be used to calculate the value of the KPI.
- All the dimensions that you have previously added are displayed. If a previously defined dimension is not appropriate for the KPI being specified, clear the check box.
- To add a new dimension, click Add. Change the default name of the dimension to a dimension name such as Location, Sales Rep, or Product.
- To specify a dimension that is available for calculating this KPI, select the check box.

IBM Software Gro	up	IKM
Dectails: Instance Business Measure Details peorly additional details to describe how the business measure is calculated. Marine Type Description This metric with applies the number of items in a given or Deschoord views Detabloards research continuously undetect business measures data if	ce metrics	<ul> <li>Instance metrics capture the result from one run of a business process.</li> </ul>
An instance metric contrain a value resulting from one run of the pro displayed in the following databoard views: Alerta: Displays alerts that notify users of defined situations occurring at run then. Displays against different dimensional view of business performance data. Cherts and guids present data for analysis against different dimensions. Displays performance reports ratio the to a time acis. Displays performance reports ratio to a time acis. Displays performance reports ratio to a time acis. Displays performance reports ratio to a time acis.	a y dana tolmak to make teesy to data picess periormatic. ess, such as "Namber of items in order." This type of data can be Instance View IP ? - I AutoParts New Orders I P Results 1 to 7 of 7. Diagram Order1D 11 Costomer D 14 Order Account 14 1000 103101 435 1000 290372 005 1000 292372 005 1000 292372 005 1000 00422 005 1000 005 10000	
	OK Canel	© 2007 IBM Corporatio

Shown here is the beginning of the dialog for specifying a second type of business measure called an instance metric.

An instance metric is used to capture specific information about a single (individual) run of the business process.

An example of an instance metric might be the number of items in a given order.

< a few words about how the instances metrics are used in the monitor dashboard >

The Dashboard Instances view

In the monitor dashboard, the Instances view displays the modeled instance metrics.

The dashboard administrator selects the instances or set of instances to display.

The administrator can connect the Instances view to the Alerts view. When a user clicks the source of an alert in the Alerts view, the process instance that triggered the alert is displayed in the Instances view. Similarly, the administrator can connect the Instances view to the Diagram view. The instance diagram can be highlighted based on the instance selected from the Instances view.



The list of optional parameters for the instance metric business measure is smaller than for the KPI business measure.

Here, for the instance metric, the default value and type, when to send and how to aggregate over what dimension can be specified.

IBM Software Group
Details: Instance metrics
<ul> <li>Default type and value</li> </ul>
If a type other than unspecified is selected, then a default value must be supplied.
▶ Types:
Boolean integer
Date string
<ul> <li>Duration unspecified</li> </ul>
Specify a default value and type
Type: Integer
Duration
Integer
Time
Specify Specified as a result
Business Measures view @ 2007 IBM Corporation

There are four different types of instance metrics that can be specified, 5 if you want to count unspecified as a type.

Boolean, Date, DateTime and Duration.

For the example given in the previous slide, where the instance metric represents the number of items in the order, the type would be Integer and the default value would be 1.

If the requirement was to flag all orders that took longer than 15 minutes to complete, then the type could be a Boolean or maybe a duration. This would depend on what data is available in the implementation model.



Specifying the alert for the instance metric business measure is the same as for the KPI business measure.

The description is all important. In the example shown here the descriptions are not very good examples because they specify when to fire the alert but they do not say to who they should be directed to or what other kind of action can be taken. The more details here, the better.

<section-header><section-header><section-header><section-header><section-header><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></section-header></section-header></section-header></section-header></section-header>	IBM Software Group	
<text><list-item><form><text><text></text></text></form></list-item></text>	Details: Instance me	etrics multiple runs of the
<text><text><text><text></text></text></text></text>	process.	
<text><text><text><text></text></text></text></text>	When this metric is aggregation of the second se	ted you can specify the aggregate value to
I great historical analysis in the Dimensional view.          Image: Dimensional view.       Image: Dimensional view.         Image: Dimensional view.       Image: Dimensional view.         Image: Dimensional view.       Image: Dimensional view.         Sum dimensional view.       Image: Dimensional view.         Image: Dimensional view.       Image: Dimensional view. <td>De a min, max, sum, count o</td> <td>multiple runs of the process</td>	De a min, max, sum, count o	multiple runs of the process
Image: New York of Way Peer Voider Aggregation       Image: New York of Way New York o	This can be used for historical analysis in the Dimension	nal view.
Items Per Order Aggregation       Add         Sum       Sum         Sum       Sum         Quart       Average         Average       Items Per Order Aggregate this measure across multiple runs of the process         Tis can be used for historical analysis in the Dimensional view.       Image         Name       Function         Average       Items Per Order         Minimum Items Per Order       Minimum         Minimum Items Per Order       Minimum	Name	Function
Image       Image         Barning       Court         Average       Image         Image       Image <t< td=""><td>Items Per Order Aggregation</td><td>Average 🗾 Add</td></t<>	Items Per Order Aggregation	Average 🗾 Add
Maximum         Count         Average    In Son may specify more than one with the Add button.          Image: Count Average		Minimum
Source  Average		Maximum
• You may specify more than one with the Add button.    • Specify how to aggregate this measure across multiple runs of the process Tis can be used for historical analysis in the Dimensional view.    Minimum Items Per Order		Sum
You may specify more than one with the Add button.      Sectify how to aggregate this measure across multiple runs of the process     This can be used for historical analysis in the Dimensional view. <u>Name Function Average     Minimum Items Per Order     Minimum     Compose  </u>		Average
This can be used for historical analysis in the Dimensional view.         Name       Function         Average Items Per Order       Average         Minimum Items Per Order       Minimum         Image Items Per Order	<ul> <li>You may specify more than</li> <li>Specify how to aggregate this measure</li> </ul>	one with the <b>Add</b> button.
Name     Function       Average Items Per Order     Average       Minimum Items Per Order     Minimum	This can be used for historical analysis in the	Dimensional view.
Average Items Per Order     Average       Minimum Items Per Order     Minimum       Remove     Remove	Name	Function
Minimum Items Per Order Minimum Remove	Average Items Per Order	Average
	Minimum Items Per Order	Minimum Remove
		20

The instance metric provides information about a single instance of a business process but that does not mean that it can not be aggregated over several runs to highlight trends.

When specifying how the instance metric is to be aggregated, there are five functions that can be applied to the data:

min, max, sum, count or average.

You are not limited to just one. You can specify more than one by adding another with the Add button.

IBM Software Group	
Details: Instance metrics	Date         Date           B         30           B         30
	<u> </u>
Specify data categories that you can use to organize an select data for retrieval, monitoring, and analysis	nd
All of the dimensions that have been previously added are already displayed. (example: Order handling was added when specifying the KPI metric)	
☑ Specify how to break down the aggregate business measure in the Dimensional view	
For example, break down the business measure by country, sales representative, or month.           Dimension         Order Handling (Current) Dimension         Re	Add
	21

Specifying the dimension for the instance metric is the same as with the KPI business measure.

Details: Aggregate metrics Business Measure Details siness Measure Details	Aggregate metrics
Image       Marging Ship Percentage         Tor       Brip Construction       Agregate marking Onspecification         Construction       The business measure will capture the the therementation of orders actually shipped.         ** Instruction       Instruction       Instruction         ** Instruction       Respective of actions actually shipped.       Instruction         ** Instruction       Respective of actions actually shipped.       Instruction         ** Instruction       Respective of actions actually shipped.       Instruction         ** Instruction       Respective of actual shipped.       Instruction       Instruction         ** Instruction       Respective of actual shipped.       Instruction       Instruction       Instruction         ** Instruction       Respective of actual shipped.       Instruction       Instruction       Instruction       Instruction         ** Instruction       Respective of actual shipped.       Instruction       Instruction       Instruction       Instruction         ** Instruction       Respective of actual shipped.       Respective of actual shipped.       Instruction       Instruction       Instruction       Instruction         ** Instruction       Respective of actual shipped.       Respective of actual shipped.       Instruction       Instructin       Instruction	<ul> <li>capture the results across multiple runs of a business process.</li> <li>When exported to Monitor, these show up as <i>Business</i> <i>Measures</i></li> </ul>

The aggregate metrics capture the results across multiple runs of a business process.

When they are exported to the WebSphere Business Monitor Development Toolkit they show up as business measures.

Notice that there are fewer dashboard views that are available.



The optional parameters have been reduced to the only those that are applicable to the aggregations, that is, how to aggregate and what dimensions should be used.



Shown here is the Business Measures View with the Monitored Values tab selected.

For each of the major constructs in the business model the business analyst can specify which values should be monitored and returned back to WebSphere Business Modeler.

Processing Time, Processing Cost, Startup Cost, Revenue, % per Branch

In the early iterations of the model, the business analyst may not have enough information to develop a good cost or revenue model so they would focus on the Processing Time and maybe in some cases the Processing Cost.

After the monitoring model has been running for a sufficient period of time, the values can be returned to WebSphere Business Modeler using export and import functions. The newly imported values will replace the monitored values which are a part of the business model and thus modify the behavior of the simulations. Running simulations with the new values will provide more accurate simulations.

IBM Software Group		IKM	
Exporting the business measures			
<ul> <li>When the specification of the</li> </ul>	WebSphere Business Modeler Export Select type. Select a format and click Next.		
is completed, the next step is to	Types		
export them using the	Constant Maching The Mark Mark Mark Mark Mark Mark Mark Mark		
WebSphere Business Monitor Development Toolkit	WebSphere Business Monitor Development Toolkit (.mm)		
type.	<back next=""> Finish Cancel</back>	1	
Name A KM_Order_Handling_x0028_current_x0029_KC.svg MDM_Order_Handling_x0028_current_x0029_MC.svg MDM_Order_Handling_x0028_current_x0029_MC_Receive_Order Order Handling (Current) Business Measures.mm	MC.svg		
	usiness Measures view © 2007 IB	25 M Corporation	

Having completed the specifications of the business model, the business analysts then exports the monitor model from WebSphere Business Modeler.

The export is composed of several files, the .MM file in XML format, and several SVG files.

There is one SVG file generated for each process, sub-process, and loop in the process diagram, and a second SVG file is generated for the KPI context that will be used for aggregation information.



The next topic to discuss is the WebSphere Business Monitor Toolkit and its relationship to WebSphere Business Modeler V6.0.2.



The WebSphere Business Monitor Toolkit is an Eclipse plug-in that comes with the WebSphere Business Monitor.

Once the plug-in is installed, a Business Monitoring Perspective is available where the integration developer can create the Business Monitoring Project.

When the files exported from the WebSphere Business Modeler are imported into the WebSphere Business Monitor Toolkit the imported information is placed into the Monitoring Models folder.

There is no specific import type for the .MM file so when importing, use the System File type of import, to import the individual files.



- The Business Measures Specifications that are made in WebSphere Business Modeler are guidelines for the integration developer to use when developing the Monitoring Model.
- It will be up to the integration developer to use the input provided from the Business Modeler, to complete the Monitoring Model. Anticipate collaboration between the business analyst and the integration developer during the early phases of the development cycle and later during the project as the results of the monitoring requires changes to the models, both business and monitoring.
- Shown here are the basic tasks the integration developer must do to get started working with the business measures specification.

Create the perspective

Create the project

Import the files

Notice that there are a lot of red flags in the error view after the import. This is to be expected as the business measures specification is only a starting point, describing what the analyst needs. It is the work of the integration developer to understand the errors and warnings and to create the complete and correct monitor model.



The monitor model and the business process models are both completed and then installed into their respective runtime environments.

Data is collected over a period of time and then the monitored values are exported from the monitor runtime and given to the business analyst.

IBM Software Group	
Importing the Mon	itor data (xml)
Types	WebSphere Business Modeler Import
WebSphere Business Modeler project (.mar, .zip)	Source and destination Click Finish to import.
WebSphere Business Integration Workbench V4.2.4 (.org)     Mercosoft Vist (.csv, .bxt)     Way Mercosoft Vist (.vsv)     Way Mercosoft Vist (.vsv)     Way Monitoring result (.xml)     Way Business services and service objects(.wsd) .xsd)	Source directory C:\pocuments and Settings\Administrator\My Documents\Skills Xfer\6.0.2\Modeler 6.0.2  Browse Files Files Target project ClipsAndTacks
	<back next=""> Finish Cancel</back>
	30

Having received the latest monitored values from the integration developer the business analyst then imports them into WebSphere Business Modeler.

There is a special import type specifically for this called, Monitoring results.

Make sure there is a backup of the target project and then...

just locate the source files and point them to the target project and select next.

It is recommended to use next and not just finish at this point.

IBM Software Group	IKŅ
Importing the Monitor data (xml)	
WebSphere Business Modeler Import	
Monitoring results import Select the processes for which to import the values from WebSphere Business Monitor.	
Processes with returned results	
Process # elements to be updated # total elements % to be updated	
Crder Handling (Current) 1 1 100	
<back next=""> Finish Cancel</back>	
Business Measures view	© 2007 IBM Corporation

By selecting next, the business analyst gets an opportunity to asses the impact of the changes using the Display Possible Updates button.

This provides some information, but it is still not clear exactly what is going to be updated. The next few slides will discuss how to identify and verify exactly which elements in the business model are going to be updated.



Shown here are key snippets from the files that were exported from WebSphere Business Modeler and imported from monitor ( that is, exported from monitor to be imported into WebSphere Business Modeler )

Notice that the name Order\_Handling.....does not show up in the file coming from Monitor. The only way to match it up with the original export from WebSphere Business Modeler is with the tracking ID.

When a Monitor Model is exported from Modeler and the business analyst has indicated that some actual values are to be returned to the process model, the export creates a 'Measure' for each value to be returned. It assigns a tracking key that will allow the actual value for that measure to be correlated to a particular process model attribute at import time. The tracking key itself is not particularly human readable... it is constructed using system IDs of objects in Modeler.

When the monitor model containing the measures has been deployed and is running in the Monitor Server, the system integrator can choose to 'export actual values' from the dashboard. This results in an XML file that basically contains a key/value mapping between tracking key and the value of the corresponding measure. This file is used as the import to Modeler at which point the tracking key is interrogated and used to identify the process attribute that should be updated with the corresponding value from the XML file.

Once the actual values have been imported, you can verify that the process model attributes now have the value that was observed on the dashboard. For example, if you chose to return the Processing Time for a particular task back to Modeler, you can look at the value of the Processing Time attribute for that task in the Attributes View of Modeler, before and after the import.



Specifying Business Measures in WebSphere Business Modeler V6.0.2 has been simplified, moving the implementation details to the Monitor Toolkit. The Business Measures Editor has been replaced by the Business Measures View.

Specifications in WebSphere Business Modeler are suggestions from the business analysts for the integrator developer who will be completing the Monitor Model in the toolkit.

The Monitored Values can be imported back into Modeler. However, keep an eye on the tracking ID.



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