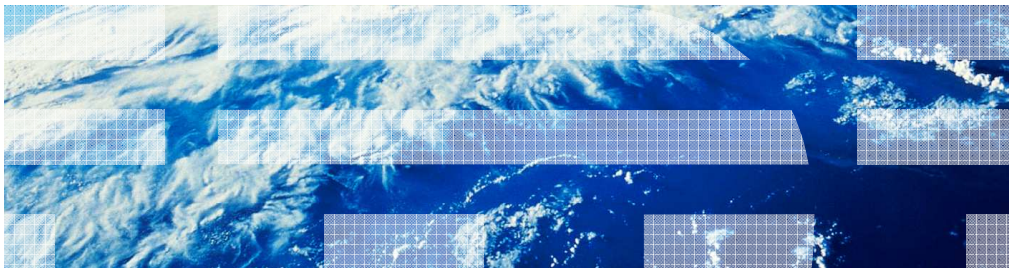


Business Process Management

IBM Business Monitor V7.5.1

What is new in V7.5.1



WebSphere software

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This presentation provides an introduction to the new features in V7.5.1 of the IBM Business Monitor product.

IBM Business Monitor V7.5.1 features

- Monitor new process elements
 - Send message event, event gateway, subprocess, event subprocess
- Generate diagrams for custom monitor model
- Widget updates
 - Report viewer: show instances, swap axis
 - Instances: drill down to subprocess
 - Diagrams: drill down to subprocess
 - Internet Explorer 9: now supporting V7, V8, V9; built-in Scalable Vector Graphics (SVG) diagram support
 - Firefox 4: now supporting V3.6 and V4

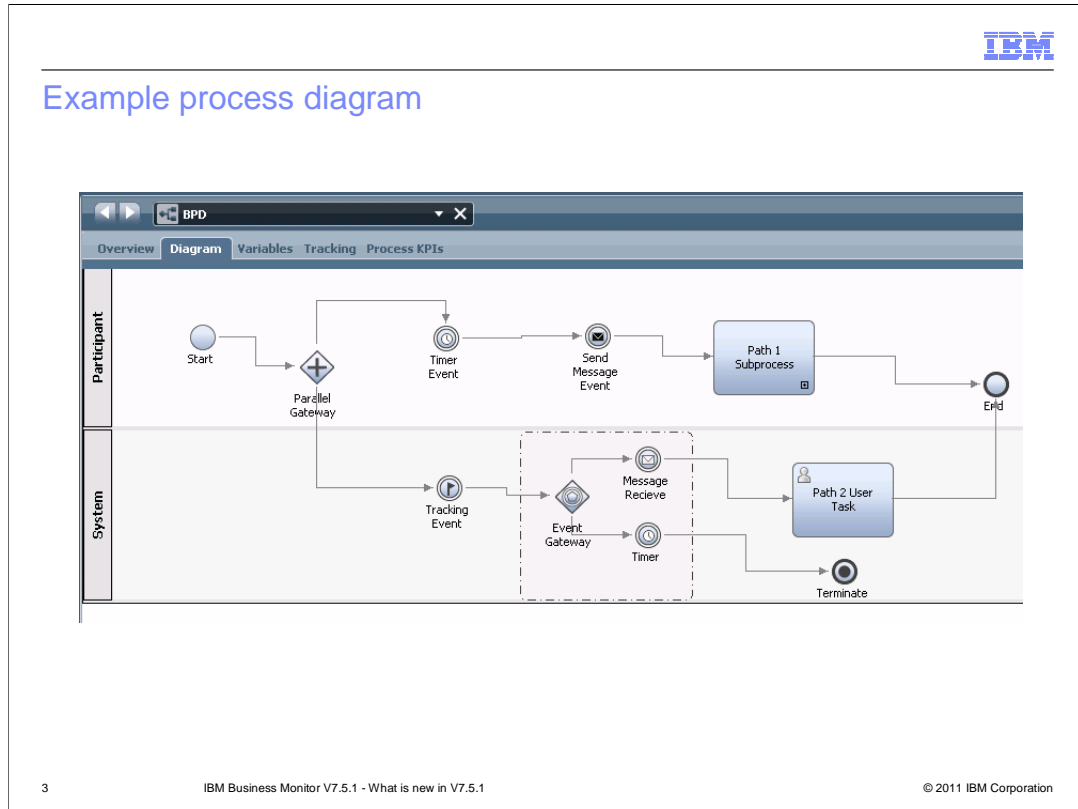
IBM Business Monitor V7.5.1 includes many new features and enhancements. There are some new process elements that are provided in Business Process Manager, namely the send message event, event gateway, subprocess and event subprocess. Events are emitted for these elements which Monitor receives for tracking purposes. If you have installed the global process monitor model, then you can automatically view the monitoring of these elements. You can also auto-generate the default model if you need more capability in monitoring. Finally you can generate a custom model and create your own monitoring constructs in support of these new BPM features.

In version 7.5 the process diagrams were generated for your default models, but they were not generated for custom models. In this version you have the process diagram generated in both cases.

There have been several updates for the monitor business space widgets. For the Cognos report viewer, you can open the menu on a cell in the table and click to show the monitored instances that comprise the cell quantity. Also, you can swap the x axis with the y axis in the chart and table. For the instances widget, there are links in the instances list which allow you to drill down into the subprocesses that are defined in the process. Likewise, in the diagrams widget you can click a subprocess icon to open the diagram for the subprocess.

For version 7.5.1 there are updates to the versions of the browsers that are supported. For Internet Explorer, version 9 is now supported. This is significant because SVG diagram support is built into this version so you will not need to install a separate SVG diagram viewer to use the diagrams widget. For Firefox, version 4 is now supported.

Example process diagram



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In this example, the process diagram contains a send message event, subprocess and event gateway. In the next slides you can see how monitored instances depict these process elements.

Global process monitor model – Business space

The screenshot displays the IBM Business Monitor Global Process Monitor (Basic) interface. At the top, there is a navigation bar with tabs for Processes, Process Statistics, Invocation Chains, Tasks, Task Statistics, Task Owner Statistics, and Subtask Hierarchy. The main content area is titled 'Instances' and includes an 'Export...' button. Below this, a table lists process definitions with columns for Name, Steps, Step Definition, Started, In Progress, Finished, Process Execution, Min Total Duration, and Avg Total Duration. Two process definitions are shown: 'Order handling' and 'BPD'. Below the main table, there are two detailed views. The left view shows 'Process Execution Step' details for 'BPD', listing steps like 'Parallel Gateway', 'Event Gateway', 'Path 1 Subprocess', '(Path 1 Subprocess) Path...', and 'Path 2 User Task'. The right view shows 'Process Execution Variable' details for 'BPD', listing variables like 'BPDVar', 'messageReceived', and 'MyVar'.

Name	Steps	Step Definition	Started	In Progress	Finished	Process Execution	Min Total Duration	Avg Total Duration
Order handling	16		2	0	2		1 m, 33.907 s	1 m, 45.703 s
BPD	38		9	0	9		24.172 s	1 m, 1.409 s

Process Definition ...	Name	Kind	State
BPD	Parallel Gateway	parallelGateway	COMPLETED
BPD	Event Gateway	eventBasedGateway	COMPLETED
BPD	Path 1 Subprocess	subProcess	COMPLETED
BPD	(Path 1 Subprocess) Path...	userTask	COMPLETED
BPD	Path 2 User Task	userTask	COMPLETED

Name	Value	Timestamp	Value
BPDVar		September 28, 2011 9:28:32 AM	BPD
messageReceived		September 28, 2011 9:28:32 AM	false
MyVar		September 28, 2011 9:28:36 AM	aValue

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If you have the global process monitor model installed, then you can configure the business space to display instances for this model. In the screen capture at the top, you see the process definitions that are available to view. After drilling down on the process execution for the process definition, you can see the process steps. This is shown in the screen capture in the lower left. Here you see the event gateway and subprocess elements listed. In the lower right screen capture you can drill down to see the tracking variables for the process and for the subprocesses within the process.

Default model - Auto generated business space

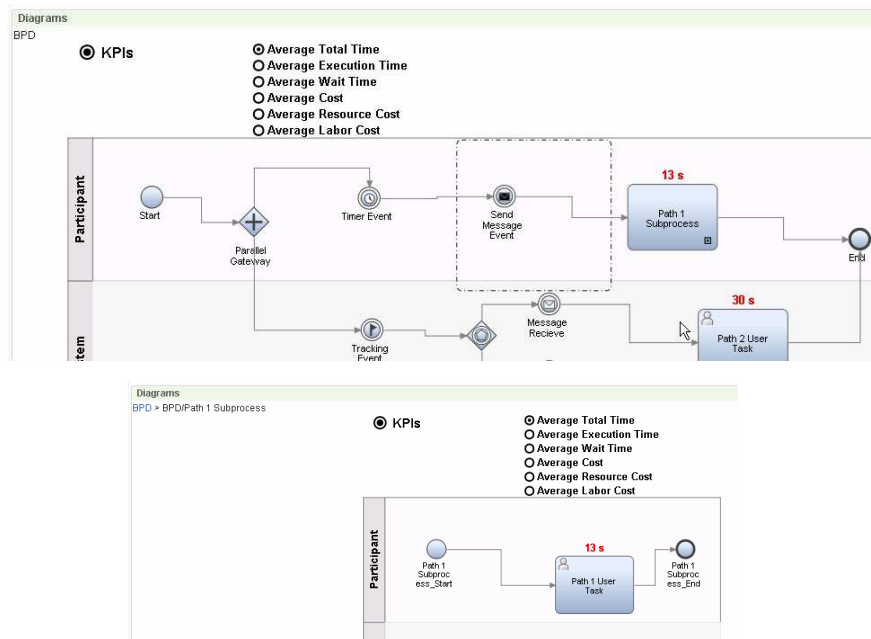
The screenshot displays the IBM Business Monitor interface for a process named 'SEG_SimpleEventGw_Main 20110928-094316'. It features three main panels:

- Top Panel (BPD Instances):** Shows a table with columns 'BPD Instance ID', 'Start Time', 'End Time', and 'BPDV2'. One instance is listed with ID 'd576903a-7f61-4f5e-a30...' and times from September 28, 2011, 9:50... to 9:51... BPD.
- Bottom Left Panel (Instances):** Shows a detailed view of process steps. The table includes columns for 'BPDVar', 'BPDVar*', 'COMPLETED', and 'Step Name'. Steps include 'Start', 'Parallel Gateway', 'Tracking Event', 'Timer Event', 'Event Gateway', 'Timer', 'Message Recieve', 'Send Message Event', 'Path 1 Subprocess', and 'Path 2 User Task'. All steps are marked as completed with a green star.
- Bottom Right Panel (Instances):** Shows a detailed view of subprocess steps. The table includes columns for 'COMPLETED', 'MyVar', 'MyVar*', and 'Step Name'. Steps include 'Path 1 Subprocess_Start', 'Path 1 User Task', and 'Path 1 Subprocess_End'. All steps are marked as completed with a green star. The 'MyVar' column shows 'aValue' for the subprocess steps.

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In the process designer, you can generate a default monitor model for your process definition using the option 'Update tracking definitions'. A business space dashboard is also automatically created for you. In the screen capture at the top you see the instances widget that is automatically configured to show your monitored instances. You can drill down into the steps of the process, as shown in the screen capture in the lower left. Here you see all the steps of the process including the event gateway, send message event and subprocess. You can also drill down into the subprocess steps as shown in the lower right. Notice that this also displays the values of your subprocess tracking variables. In this case there is one tracking variable called 'MyVar'. The column 'MyVar' shows the value after the step completes. The column 'MyVar*' shows the value before the step starts.

Drill down on subprocess in the diagram



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On this slide you see the process diagram in the dashboard. There is a subprocess called 'Path 1 Subprocess' which you can see in the upper screen capture. By clicking on the subprocess element, you can drill down into the subprocess diagram. This is shown in the screen capture at the bottom of the slide. There are breadcrumbs at the top of the diagrams widget to make it easy to navigate back to the parent process.

Report viewer: Swap row columns, show instances

The screenshot shows the 'Report Viewer' interface for a report titled 'testreport'. The main visualization is a heatmap where the vertical axis is labeled 'InstancesCount' and the horizontal axis is labeled 'BPDVar(All)'. A context menu is displayed over a cell in the heatmap, listing several actions: 'Drill Down', 'Drill Up', 'Change Display Type', 'Filter', 'Sort', 'Calculate', 'Delete', 'Group / Ungroup', 'Swap Rows and Columns' (which is highlighted with a mouse cursor), and 'Show Instances'. The 'InstancesCount' column header shows a value of '1' for the 'BPDVar(All)' row.

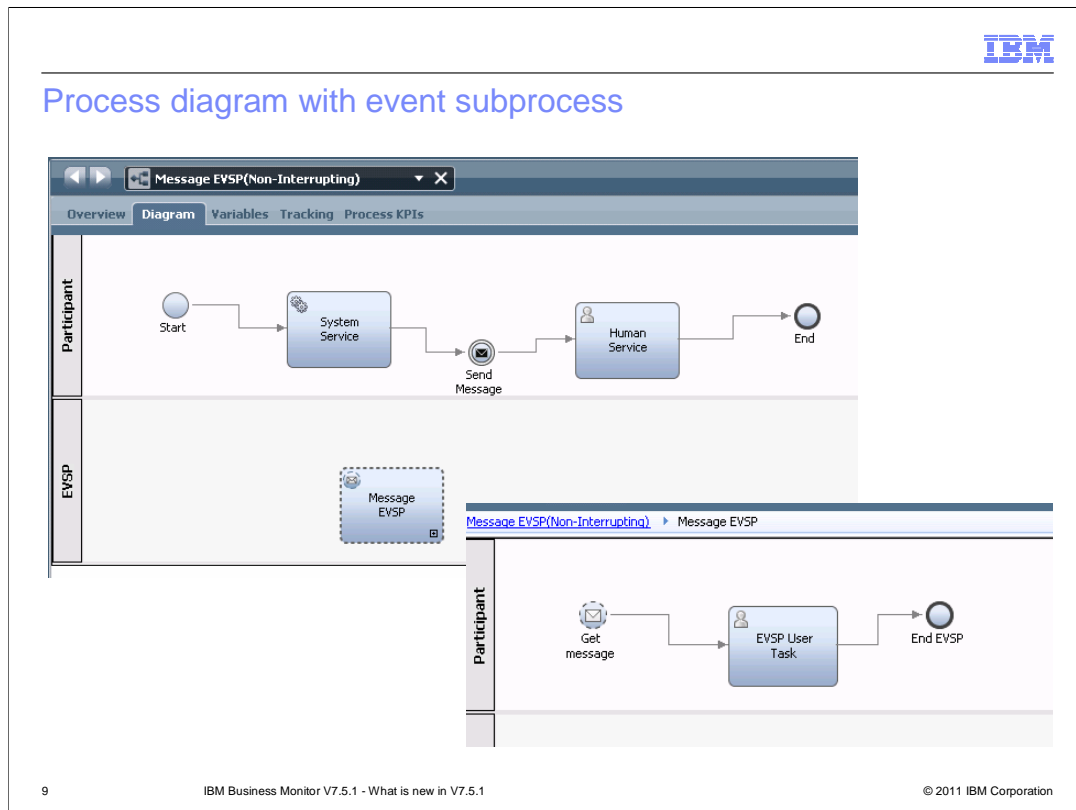
In the report viewer widget, you can use the menu to perform additional functions. Select 'Swap Rows and Columns' to swap the x axis with the y axis. In this example, BPDVar moves from rows to columns and State Dimension moves from columns to rows. Select 'Show Instances' to see details about the instances that comprise the quantity listed in the cell. You need to add the instances widget to the same page to enable this feature.

Custom monitor model

The screenshot displays the IBM Business Monitor V7.5.1 interface. At the top left, a context menu is open with the option 'Generate Monitor Model...' selected. The main window shows the 'Generate Monitor Model' wizard with the 'Choose What to Monitor' step. The 'Event Source' list includes various elements such as BPD, BPD Steps, Path 1 Subprocess, Path 2 User Task, End, Message Receive, Send Message Event, Start, Terminate, Timer, Timer Event, Tracking Event, Event Gateway, Parallel Gateway, and Path Subprocess. The 'Path Subprocess' is currently selected. Below the wizard, the 'Visual Model' is displayed, showing a BPMN diagram with a 'Start' event, a parallel gateway, a 'Timer Event', and a 'Send Message Event'. The 'KPIs' section is visible, listing metrics like Average Total Time, Average Execution Time, Average Wait Time, Average Cost, Average Resource Cost, and Average Labor Cost. The bottom of the slide contains the text '8 IBM Business Monitor V7.5.1 - What is new in V7.5.1 © 2011 IBM Corporation'.

In Integration Designer you can generate a custom monitor model for the process application. In the generation wizard you can choose what to monitor. In this list you see the new elements, including send message event, event gateway and subprocess. In the screen capture at the bottom of the slide you see the visual model of the generated model. There is a diagram for the parent process plus a diagram for each subprocess within the parent process.

Process diagram with event subprocess



In this example, the process diagram contains an event subprocess called 'Message EVSP'. In the next slides you can see how monitored instances depict the event subprocess.

Global process monitor model – Business space

The screenshot shows the 'Global Process Monitor (Basic)' interface. The 'Instances' section is active, displaying a table of process execution steps. The table has columns for Name, Kind, State, Process Execution State, Total Duration, Waiting Duration, and Working Duration. The 'Message EVSP' row is highlighted in orange and has a red box around its 'Name' and 'Kind' cells.

Process Definition ...	Name	Kind	State	Process Execution State...	Total Duration	Waiting Duration	Working Duration
Message EVSP(Non-Inter...	Message EVSP	subProcess	COMPLETED		33.813 s	33.813 s	0 s
Message EVSP(Non-Inter...	System Service	task	COMPLETED		0.047 s	0.047 s	0 s
Message EVSP(Non-Inter...	Human Service	userTask	COMPLETED		16.938 s	10.938 s	6 s
Message EVSP(Non-Inter...	(Message EVSP) EVSP U...	userTask	COMPLETED		28.969 s	23.688 s	5.281 s

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If you have the global process monitor model installed, then you can configure the business space to display instances for this model. This screen capture shows the instances widget drilled down to process steps for a monitored instance. Here you see the message event subprocess listed as a step in the flow, along with the step state and other information such as the duration.

Default model - Auto generated business space

Message EVSP(Non-Interrupting) Instances

Export ...

Message EVSP(Non-Interrupting) > Message EVSP > Message EVSP Steps

<input type="checkbox"/>	Step Name	Step Instance ID	errorEVSPVar°	inVar°	decVar°	dateVar°
<input type="checkbox"/>	Get message	98fe6743-8f65-47f6-a4c6...				
	EVSP User Task	98fe6743-8f65-47f6-a4c6...	Error EVSPVar value	0	10	October 5, 2011 11:35:39 ...
	End EVSP	98fe6743-8f65-47f6-a4c6...	Error EVSPVar value	0	10	October 5, 2011 11:35:39 ...

In the process designer, you can generate a default monitor model for your process definition using the option 'Update tracking definitions'. A business space dashboard is also automatically created for you. This screen capture shows the instances for the event subprocess drilled down to the steps within it. Notice that this also displays the values of your event subprocess tracking variables.

Custom monitor model

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In Integration Designer you can generate a custom monitor model for the process application. In the generation wizard you can choose what to monitor. In this list you see the event subprocess, and you can select from a list of predefined monitoring templates on the right. These monitoring templates are added to the generated monitor model. Then you can use the monitor model editor to tailor the model to your needs.

Summary

- Covered the new features in IBM Business Monitor V7.5.1

In summary, you have seen an overview of the new features in IBM Business Monitor V7.5.1.



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This module is also available in PDF format at: [./BPMv751_BusinessMonitor_WhatsNew.pdf](http://BPMv751_BusinessMonitor_WhatsNew.pdf)

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