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WebSphere® Business Monitor V6.1.2

Introduction



@business on demand.

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This presentation should introduce you to the new features in WebSphere Business Monitor version 6.1.2.

Agenda

- Overview
- Platform support
- Runtime support
- Code generation
- Google gadgets
- Blackberry dashboard



This is the agenda for this presentation. You will see an overview of the changes in this release.

You will review the new platform and runtime support in this release of Monitor.

You will see the changes made to code generation and the resulting performance enhancements.

There are new dashboard gadgets that can be installed into the Google desktop, so you will see how to install and use them.

Now you can also use a Monitor dashboard on your Blackberry.

WebSphere Business Monitor V6.1.2

- Blackberry dashboards
- Google gadgets
- Monitor debugger
- Auto-generated monitor model from Modeler
- Asset repository
- Dashboard updates and business space
- New runtime support – Message Broker, WebSphere Business Events, Fabric
- Installation



New in Monitor version 6.1.2 is the ability to view Monitor dashboards on your Blackberry mobile device and on your desktop using Google gadgets. This means that you can easily check your key performance indicators anywhere that you go.

A new feature that is now available is the Monitor model debugger. This feature allows you to easily determine why your model is discarding events or why your dashboard data is incorrect. You can use the Eclipse debug environment to iteratively step through your monitor model logic to determine the exact nature of problems that you are seeing.

In version 6.1.2, you can now automatically create a complete monitor model from the Modeler business measures model. Also, the monitor model editor has been integrated with the Rational Asset Manager.

The dashboard looks different in this release. There are many new enhancements in the dashboard views including a new simplified KPI view. Also the business space is now used to integrate process applications and other applications with the dashboard.

Also, new integration has been added to Message Broker, WebSphere Business Events and Fabric, so that Monitor can receive these events and provide monitoring data and visualizations on the dashboard.

New platform support

- New platforms that are supported in 6.1.2:
 - ▶ 64-bit Solaris 9 (SPARC only)
 - 32-bit application server running on 64-bit kernel (due to Portal 6.0.1.1 dependency)
 - ▶ Support 64-bit Solaris 10 (SPARC only) * - 64-bit applications
 - ▶ Support 64-bit zLinux SUSE 9, 10 * - 64-bit applications
 - ▶ DB2® 9.5
 - Also support installing Monitor on DB2 9.1, upgrading DB2 to 9.5
 - DB2 Enterprise Server 9.5 is only supported in 64-bit mode for UNIX®

* Note: Profile management tool is not supported on 64-bit and zLinux platforms



In the previous version, Monitor supported Windows, AIX, HP-UX, Red Hat Linux and SUSE Linux. AIX and HP-UX are 64-bit platforms, but the WebSphere Application Server support is 32-bit.

In this release there is new support for 64 bit platforms. Support for 64-bit Solaris is for SPARC machines only, so the Intel machines are not supported in this release. Note that the application server runs in 32 bit mode due to a Portal restriction.

There is true 64 bit platform and application server support for Solaris 10 and zLinux SUSE using versions 9 and 10.

In this release of Monitor both DB2 version 9.1 and version 9.5 are supported.

Note that the profile management tool is not usable on some platforms but you can use the manageprofiles script in the command window to perform all of these functions.

Other support

- Prerequisites
 - ▶ Unchanged: WebSphere Portal Server 6.0.1 fp1, DB2 Alphablox 9.5
 - ▶ WebSphere Integration Developer 6.1.2, WebSphere Business Modeler 6.1.2, WebSphere Process Server 6.1.2, WebSphere Application Server Network Deployment 6.1 fix pack 17
- Runtimes
 - ▶ WebSphere Process Server 6.1, 6.0.2
 - ▶ WebSphere Enterprise Service Bus 6.1, 6.0.2
 - ▶ FileNet® P8
 - ▶ WebSphere MQ Workflow v3.6 SP6,
 - ▶ WebSphere Adapters 6.1
 - ▶ WebSphere Business Events 6.1
 - ▶ WebSphere Business Services Fabric 6.1
 - ▶ WebSphere Message Broker 6.1



In this release of Monitor, the Portal and Alphablox pre-requisite software versions have not changed so you will not need to update them. But there are new versions of WebSphere Integration Developer, WebSphere Business Modeler, WebSphere Process Server and WebSphere Application Server.

From the previous release, support was provided for WebSphere Process Server, WebSphere Enterprise Service Bus, FileNet, WebSphere MQ Workflow and WebSphere Adapters. But new to this release of Monitor is support for WebSphere Business Events, WebSphere Business Services Fabric and WebSphere Message Broker.

Monitoring WebSphere Business Events

- WebSphere Business Events
 - ▶ Helps businesses detect, evaluate, and respond to the impact of business events based on the discovery of actionable event patterns.
- Using with WebSphere Business Monitor
 - ▶ Actions are defined in WebSphere Business Events using graphical tools that identify activity when one or more rules are satisfied.
 - ▶ Action events are configured to flow from WebSphere Business Events to the common event infrastructure (CEI) server using an embedded connector.
 - ▶ The WebSphere Business Events data director exports XML schema definitions (XSD) for each defined action event. You can import these exported schemas into the monitor model editor to manually author monitor models.



WebSphere Business Events easily handles detecting events based on presence, absence, timing, sequence and relationship to other activities. It includes a design tool for defining the event flows, a runtime server to monitor the event flows, and a browser based dashboard for viewing results. WebSphere Business Events runs as an application EAR on WebSphere Application Server. The design tool metadata is stored in a database repository. Actions can be setup using embedded connectors for destinations such as e-mail and the user console.

For integration with Monitor, you will need to import the schema definitions for the events and then manually create a monitor model based on the business payload in these events.

Monitoring WebSphere Business Services Fabric

- WebSphere Business Services Fabric
 - ▶ Provides capabilities to assemble policy driven composite business applications and offers optional industry content packs containing pre-built SOA assets.
- Using with WebSphere Business Monitor
 - ▶ WebSphere Business Services Fabric generates several events such as dynamic endpoint selection and select error situations.
 - ▶ To enable monitoring by the Monitor server, you import the Fabric schemas into the monitor model editor and manually create a monitor model.
 - ▶ Fabric ships with sample monitor models to help you get started.



Included in WebSphere Business Services Fabric is the dynamic assembler which provides policy driven runtime assembly of business services. The content packs contain pre-built SOA assets that accelerate development of industry-specific service-oriented business solutions.

The runtime components are installed on WebSphere Process Server. The design-time tool is loaded in WebSphere Integration Developer as a separate perspective and it allows you to assemble business services, create business policies, and simulate dynamic assembly of business services.

To integrate with Monitor, you will import the event schemas into the monitor model editor and then manually create a monitor model. To assist you with this, you can start with the sample that is supplied with Fabric, and use this as a starting point.

Monitoring WebSphere Message Broker

- WebSphere Message Broker
 - ▶ Used to route messages between senders and recipients, and to transform the messages from one format to another.
- Using with WebSphere Business Monitor
 - ▶ You create an XML file which defines the event schema and payload. Then run commands to create a monitoring profile and associate it with a message flow. A default profile is available for every message flow.
 - ▶ If event monitoring is enabled for a message flow, WebSphere Message Broker emits entry, exit and failure messages.
 - ▶ A sample monitoring model is provided in the samples gallery in the WebSphere Message Broker Toolkit. This model allows simple flow entry and flow exit events to be monitored. It can be extended to allow monitoring of events which include one or more fields from the message payload.
 - ▶ See the WebSphere Message Broker 6.1 information center.



The broker toolkit uses the Eclipse platform and Rational framework, and it is used to develop message flows. The runtime component hosts the message flows and interacts with application clients using point-to-point and publish-subscribe communications.

There are commands that allow you to create a monitor profile and to associate the profile with a message flow. You can use the default profile if it meets your needs, or you can create an XML file which describes the business payload for your flow and use this custom profile with the flow. For each monitored flow, Broker emits entry, exit and failure messages. A sample monitor model is provided which shows you how to use the default events to perform business monitoring. You can use this as a starting point to customize your own monitor model that is specific to your business payload. For more information, reference the Broker information center.

Quick application update

- In previous releases, a model is un-deployed, re-generated and re-deployed every time a simple or complex change is made to a model.
- In this release, the installer skips many of these steps if they are not necessary.
- If “quick update” is performed, the database tables are not dropped, but the data is cleared from the tables.



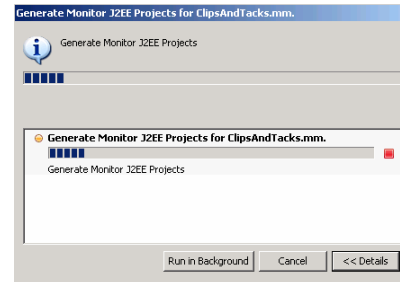
In the previous release, when you updated a monitor model application, the model was completely replaced. This included dropping database schemas, deleting cubes, reconfiguring the CEI server, and deleting and recreating the related projects.

In this release, the model installer skips many of these steps if they are not necessary. A quick application update is possible when there have been no changes made to the database schema, cube definitions, and CEI filters.

If a quick update is performed then the data is cleared from the monitor tables, so this is consistent with behavior when a complete application replacement is performed.

Run in background

- The 'Run in Background' button is available when generating the Java EE projects.
- There is a progress bar in the lower right corner indicating the code generator's progress. Clicking on the icon will open the Progress view.
- Code generation for many models can be run simultaneously.



Generate Monitor J2...mm.: (10%)



A new 'run in background' button is now available when generating the monitor projects. Clicking on the button dismisses the dialog box, restoring control to you while continuing to run the code generation in the background. The progress bar shows you the progress of the operation. If you click on the icon in the lower right corner then you will open the progress view. The progress view displays all the jobs currently running in the background. The progress view provides the ability to cancel a code generation job that is in progress.

With this new function, you can now run code generation for many models simultaneously and then use the progress view to check the progress of them.

Monitor gadgets for Google Desktop

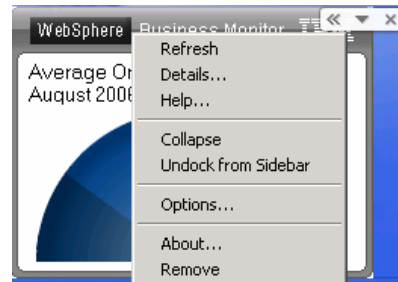
- Monitor gadgets displayed on your desktop
 - ▶ KPI subscriber – display individual KPI
 - ▶ KPI search – searches your desktop and for KPIs
 - ▶ Alerts® – display alerts for specified user

The screenshot displays the WebSphere Business Monitor interface with several gadgets. At the top, there is a gauge for 'Average Order Fulfillment KPI August 2006'. Below it is a search bar. The middle row shows a search results window for 'credit check' with a list of items like 'Average Credit Check Duration' and 'Ultimate Paintball, LLC Checkout Page'. To the right is a details window for 'Average Credit Check Duration' showing a value of 8h, 20m, 52.173s and a target of 4h, 0m, 0s. The bottom row features an alert window for 'Declined order alert' dated 05/22/2006 at 2:33:07 PM, and a clock gadget.

A new feature in this release is the use of Monitor gadgets for your desktop. If you have the Google Desktop loaded on your computer then you can also install Monitor dashboard gadgets which allow you to view KPIs, search for KPIs and to view alerts for the configured user. In addition to searching for KPIs, the KPI search also performs a Google Desktop search, so it can look for your search terms in files, e-mails, Web history and chats. The KPI search uses the current options settings for the Google Desktop search to determine the scope of the search.

Gadget menu

- Refresh – refresh data
- Details – show details
- Options – configure



Each gadget has a menu which you can view by hovering over the right corner of the gadget. Click on the down arrow and you will see the menu. The refresh option will refresh the data displayed in the gadget. The details options will show more detailed information about the displayed data. If you select options then you can configure various aspects of the gadget.

Options page

- Server, user name, password
- Refresh interval
- Model, version, KPI
- Search security and indexer

The image displays three screenshots of the 'Options' dialog box for different WebSphere Business Monitor gadgets. Each dialog has a title bar with 'Options' and a close button. The top dialog is for a 'KPI subscriber' gadget, showing fields for 'Monitor server' (localhost:9081), a checkbox for 'Use SSL for secure communication', a dropdown for 'Model' (ClipsAndTacks), a dropdown for 'Version' (2007-09-11 12:07:30), a dropdown for 'KPI' (Average Order Fulfillment KPI August 200...), and a 'Refresh Interval' of 10 minutes. The middle dialog is for an 'Alerts' gadget, showing fields for 'Monitor server' (localhost:9081), 'Username' (admin), 'Password' (masked with asterisks), a checkbox for 'Use SSL for secure sever communication', 'Alerts shown per page' (10), and 'Refresh interval (minutes)' (10). The bottom dialog is for a 'KPI search' gadget, showing a 'Security Token' field with a long alphanumeric string, a checkbox for 'Color KPIs according to status', a 'Refresh interval' of 10 minutes, 'Results shown per page' (10), a 'WebSphere Business Monitor KPI Indexer Configuration' section with an 'Indexer Executable' field (C:\wsl\code\mon.kpicrawler\dist\monit...) and a 'Browse...' button, a checkbox for 'Index KPIs every' (10 minutes), and an 'Index KPIs Now!' button. A note at the bottom of this dialog states 'KPIs have been previously indexed.' Yellow callout boxes with black text identify each dialog: 'KPI subscriber', 'Alerts', and 'KPI search'.

When you select the options menu item, you will see the options page for the gadget. This slide shows screen captures of the three Monitor gadgets. You can configure the server connection, user, password, data refresh interval, model/version and select the KPI. For the KPI search gadget, you can also specify the security token which is a Google Desktop value that is installed with the Google Desktop. You can find it in your computer registry. This token prevents unauthorized searches on your computer. The KPI indexer is used to find KPIs on the monitor server. You need to click the button to index the KPIs after you point it to the indexer binary which is supplied with the gadgets. You need to rerun the indexer to capture any new KPIs which have been added to the server.

Installation

- Install Google Desktop
 - ▶ <http://desktop.google.com/>
- Monitor gadgets available on Monitor public samples page
 - ▶ <http://www-306.ibm.com/software/integration/wbimonitor/library/tutorials.html>
- Installation
 - ▶ If Google Desktop is installed then you double click on the .gg file to install a particular gadget

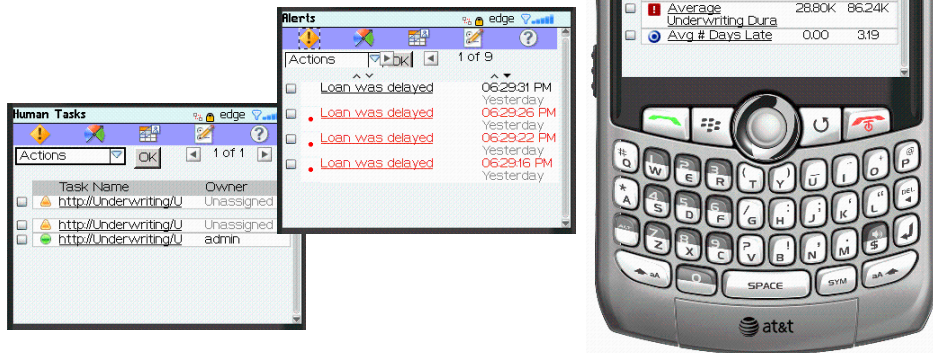


In order to install the Monitor gadgets, you must first install the Google Desktop which you can access and download for free at the listed URL. The Monitor gadgets are available on the IBM WebSphere Business Monitor public sample Web page.

A gadget is supplied as a single file with a gg suffix. To install a gadget, just double click on the gg file and then Google Desktop will recognize this as a gadget and install it into your Google Desktop toolbar.

BlackBerry dashboard

- View a mobile version of the dashboard on your BlackBerry using the BlackBerry browser




A new feature in this release is the use of the dashboard on your Blackberry. You can now use your BlackBerry to view Monitor dashboard views for human tasks, alerts and KPIs. So, this is a handy feature which you can use away from the office to allow you to monitor your key performance indicators, tasks and alerts. The BlackBerry browser is used to navigate to the mobile dashboard pages on the monitor server.

BlackBerry configuration







- Open browser > menu key > Options > Browser configuration
 - ▶ Set these options:
 - Support JavaScript
 - Allow JavaScript popups
 - Support HTML Tables
 - User Foreground and Background Colors
 - User Background Images
 - Support Embedded Media
 - Support Style Sheets

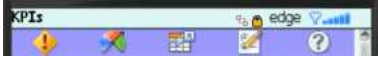


You should make sure that you configure the BlackBerry browser properly, so make sure that the options listed on this slide are set. If they are not set, then you may not get a proper visualization of your monitored data. For example, JavaScript and HTML tables should be supported to view the dashboard data correctly.

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BlackBerry icons

-  Alerts
-  KPIs
-  Human tasks
-  Settings
-  Help
-  About this application



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These are the icons that are listed on the BlackBerry browser that provide the monitor views. You have icons for alerts, KPIs and human tasks. You can also click to update settings for the views, or to get help for using the views. These icons are listed across the top of the browser, and the text showing the name of the icon highlighted is listed in the title bar directly above the icon bar. You can see this in the sample shown on this slide.

BlackBerry settings

- Set the number of alerts per page
- Set the number of human tasks per page
- Make alerts my default view
- Make human tasks my default view
- Make KPIs my default view
- Display only the tasks that have a specific status
 - ▶ On Schedule
 - ▶ Needs Attention
 - ▶ Late



If you click on the settings icon, then you will open the settings page. On the settings page, you can set the number of alerts or tasks to list on each page. You can set any of the views as the default view which means it is the first view to be displayed when you initially browse to the mobile dashboard. For the task view, you can also filter the view by displaying only records with a specific task status.

BlackBerry usage

- Default URL: http://host_name:port/MobileDashboard
 - ▶ Enter user name and password
- Alerts
 - ▶ View summary, details
 - ▶ Actions: Forward, mark read, mark unread, refresh, remove
 - ▶ Change subscription
 - Dashboard, Cell Phone, Pager, and E-mail
- KPIs
 - ▶ View summary, details
 - ▶ Actions: Hide, refresh, show selected KPIs
- Human tasks
 - ▶ View summary, details
 - ▶ Actions: Assign, claim, complete, refresh, release, transfer



To access the monitor mobile dashboard, navigate to the listed URL in the BlackBerry browser. On each view, you can see a summary of the monitored data, and you can also click to view details of the data. For Alerts, you can perform actions such as forward or remove, and you can also change your subscription information so that you can get the alerts using other means. For KPIs you can perform actions such as hiding or showing selected KPIs. For human tasks, you can perform actions such as claim, transfer or release.

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