



IBM Software Group

# WebSphere® Business Monitor V6.0.2

## Overview



@business on demand.

© 2007 IBM Corporation  
Updated February 2, 2007

This presentation provides an overview of WebSphere Business Monitor V6.0.2.

## Goals

- Introduce WebSphere Business Monitor V6.0.2 features
- Review the changes from V6.0.1 to V6.0.2



You will see the new features of WebSphere Business Monitor Version 6.0.2 and the changes from the previous version.

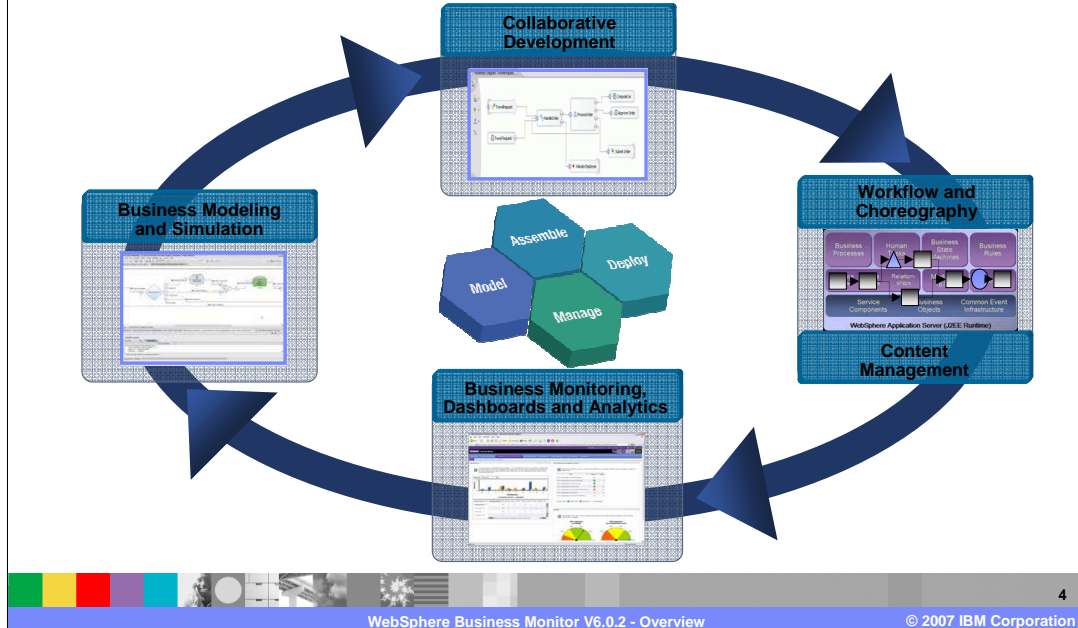
## Agenda

- Overview
- New features
- Target environment
- Migration



First, an overview is provided for WebSphere Business Monitor V6.0.2. Then you will see the new features of the product and how it differs from previous versions. You will look at the target software and hardware environment for installing WebSphere Business Monitor. And you will review migration from previous versions of the product.

## Only IBM delivers the full set of integrated BPM capabilities in an SOA



Business Process Modeling enabled by SOA delivers continuous life-cycle improvement driving innovation in the business process and business model. Capabilities from both the software and the expertise follow a logical life cycle approach for modeling, optimizing, designing, deploying, and managing business processes.

**Business Activity Monitoring** is the ability to monitor process performance and detect events that may influence performance, analyzing process efficiency and efficacy and aligning process improvement with enterprise goals and objectives.

## WebSphere Business Monitor at a glance

### Monitors process performance

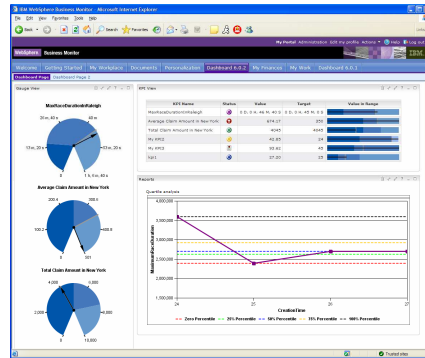
- In-progress processes can be monitored, bottlenecks can be eliminated
- Track Key Performance Indicators

### Responds to situations

- Detect anomalous situations in real-time...
  - ...out of threshold KPIs
  - ...individual process instances that need attention
- Take corrective action before problems arise

### Embeds business intelligence

- Analyze KPIs over time and other dimensions
- Drill up and down, slice and dice business measures to identify trends



WebSphere Business Monitor allows you to monitor the performance of your processes and to check key performance indicators as they relate to specified targets.

Monitor also allows you to detect potential problem situations and deliver alerts using e-mail or other means to notify users to take corrective actions.

Another key feature of Monitor is the ability to use multi-dimensional analysis to slice and dice your business measures to verify the state of your business.

## Name changes for V6.0.2

V6.0	V6.0.2
Business measures model	<i>Monitor model</i>
Business measures editor	<i>Monitor model editor</i>
Business measures container	<i>Monitoring context</i>
State database	<i>Monitor database</i>
History database	<i>Datamart database</i>
Schema generation	<i>Data services generation</i>
Replication manager	<i>Data movement services</i>

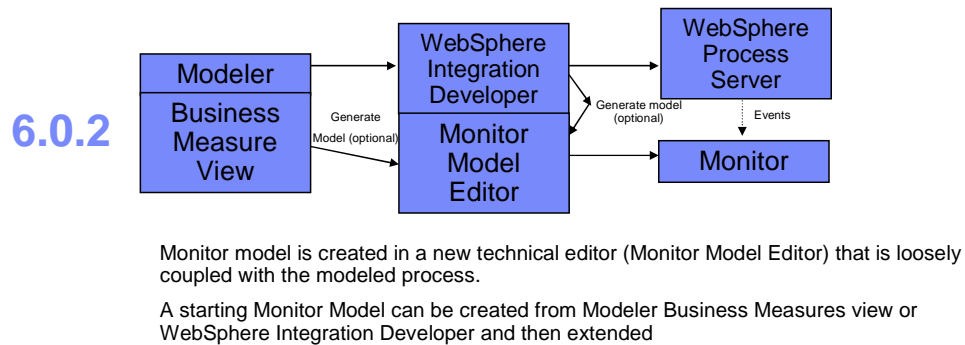
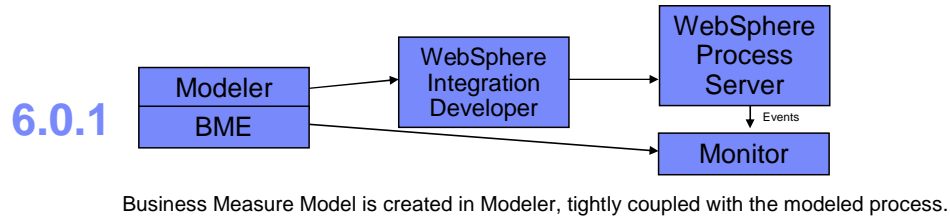
There are a few new names which are used in Monitor V6.0.2. In the first column are the current names in V6.0.1 and in the second column are the new names. Notice that a business measures model is now called a monitor model, and the model editor is now called the Monitor Model Editor. There have also been some name changes relative to the database and schema generation. Note that the new term for schema generation is Data Services Generation.

## New in version 6.0.2

- Monitor model life cycle
- Monitor programming model
- BAM authoring environment
- Support for any common base event source
- Improved KPIs
- Integrated test environment
- Improved installation
- Improved administration
- Improved version handling support
- Database architecture simplification
- Improved scalability
- Improved dashboards
- Dashboard creation SDK

Monitor V6.0.2 contains many new features, including new life cycle support for deployments, a new XML based programming model, and support for monitoring any application submitting Common Base Events. KPI's have been dramatically improved, and there is a new Integrated Test Environment to simplify testing. There are improvements across the board including installation, administration, and version handling. And the database has been simplified significantly.

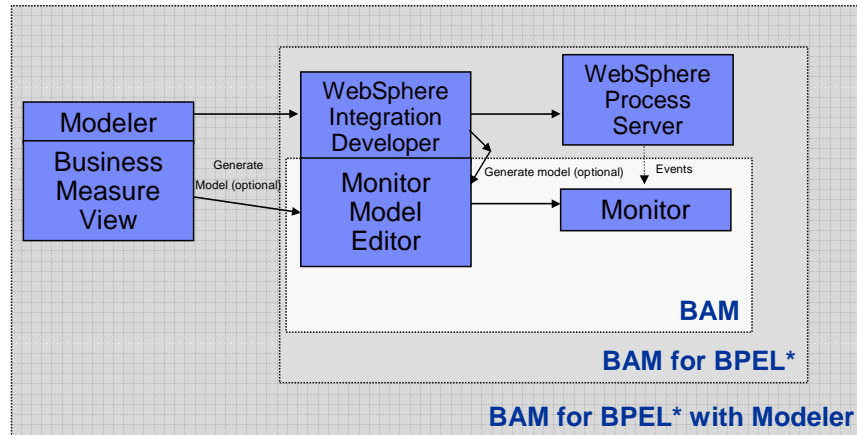
## Monitor model life cycle



This chart shows the new model life cycle compared to the previous version life cycle. In version 6.0.1 the business measures model was created in the BME in Modeler and the model was tightly coupled to the business process. In version 6.0.2, the monitor model is create in the Monitor Model Editor but there is a loose coupling with the modeled process. In the new version you can also create a high level model in the Business Measures View in Modeler, then complete the model in the Monitor Model Editor.



## Monitor model life cycle: Scenarios



\*Includes events from BPEL processes, Human Tasks, SCA components, ESB mediation flows

Monitor version 6.0.2 now includes support for Business Activity Monitoring (BAM) which is based on events that can come from any source. Monitor supports monitoring BPEL applications, which includes processes, human tasks, SCA components and ESB flows. And, just like in the previous version, Monitor supports monitoring BPEL with the usage of Modeler for creation of the starter model and a closed loop to feed actual values from Monitor into Modeler.

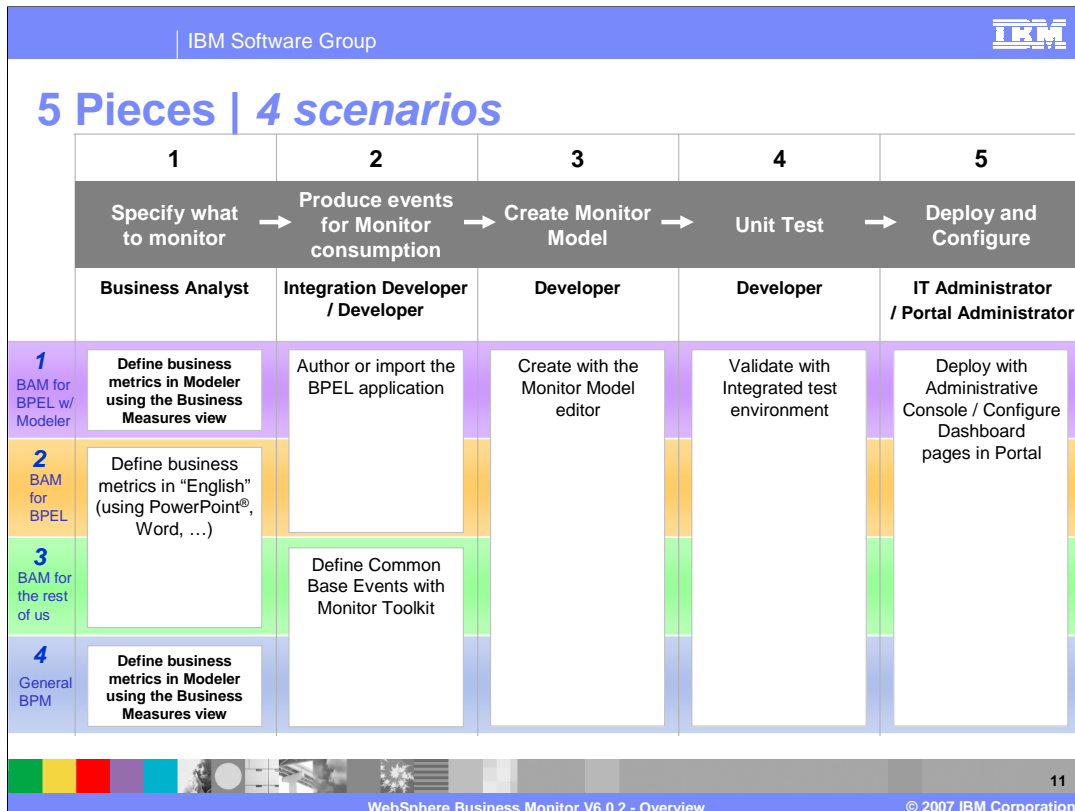
## Business Activity Monitoring in 4 scenarios using 5 easy pieces

	Modeler	WebSphere Integration Developer / WebSphere Process Server	Monitor Model editor / Monitor
1. BAM for BPEL (w/ Modeler)	✓	✓	✓
2. BAM for BPEL (w/o Modeler)		✓	✓
3. BAM for the rest of us			✓
4. General BPM	✓		✓

10

WebSphere Business Monitor V6.0.2 - Overview © 2007 IBM Corporation

This chart shows the four scenarios that are supported in version 6.0.2, namely monitoring BPEL with or without the use of Modeler, and monitoring non-BPEL sources with or without the use of Modeler.

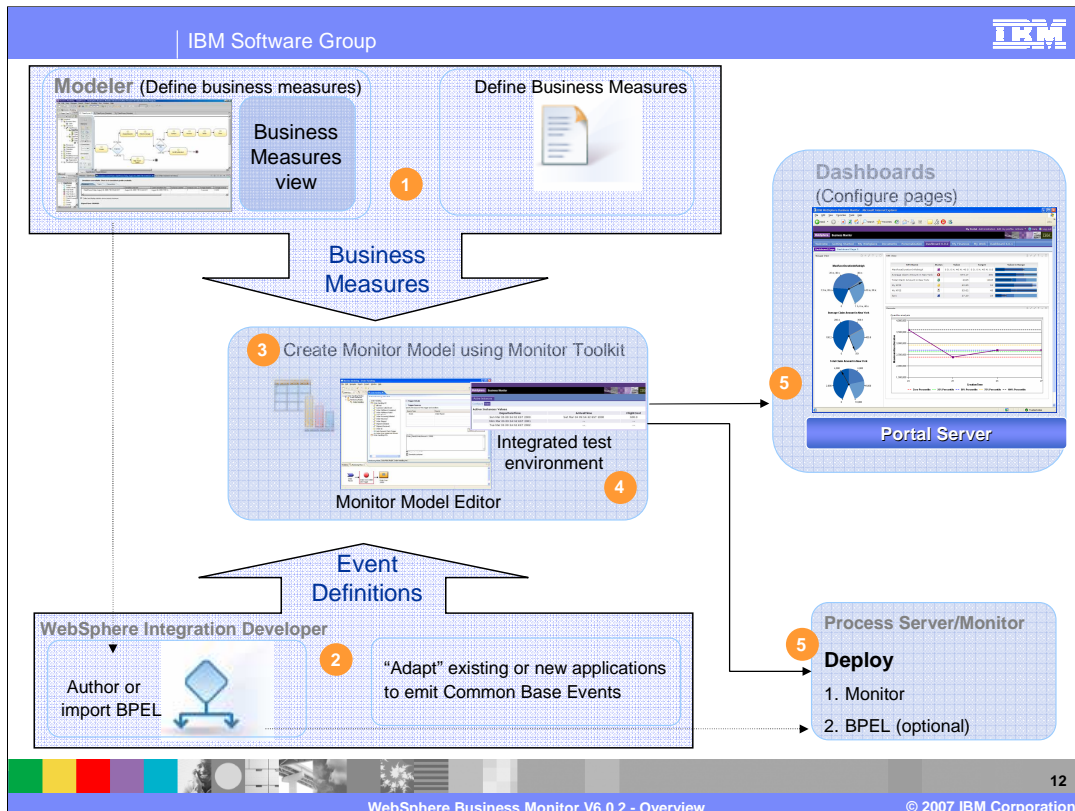


Here you see the four monitoring scenarios and the tools and high level processes that are involved.

For BPEL monitoring using Modeler, an analyst defines KPIs using the Business Measures view in Modeler. Then the BPEL application is created by the integration developer. The monitor model is created using the Monitor Model Editor, and validated in the integrated test environment and finally deployed to the Monitor Server and Dashboard Server.

For BPEL monitoring without Modeler, the process is the same except the KPIs are defined in English and conveyed to the integration developer.

For non-BPEL monitoring with or without Modeler, the processes are similar, except the applications are nonBPEL, so you need to instrument them to create common base events.



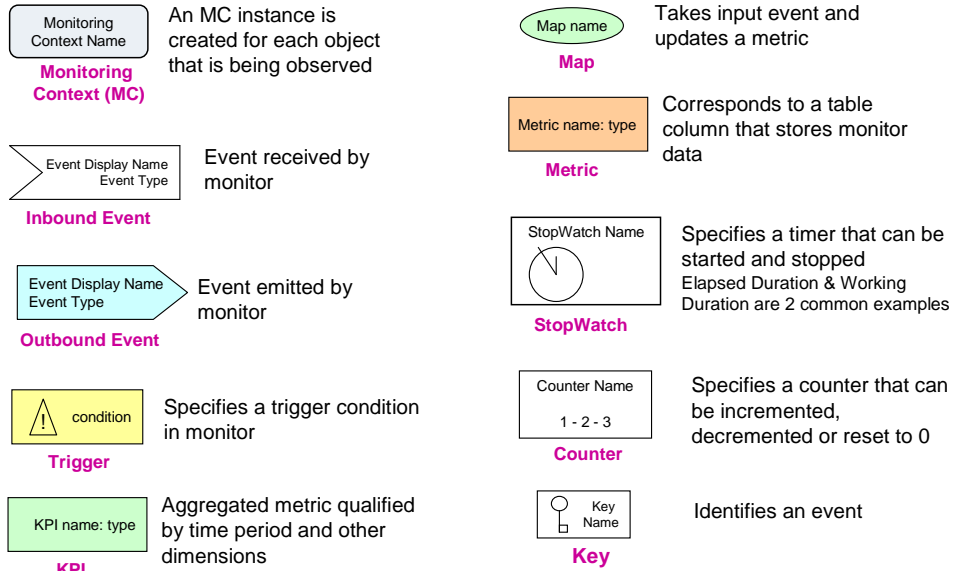
Here you see a graphical depiction of the different deployment scenarios. In step 1, if you define the high level metrics using the Business Measures view in Modeler, or you define them in English. In step 2 you build the BPEL application or instrument your application to emit Common Base Events. In step 3, you create the monitor model using the Monitor Model Editor in WebSphere Integration Developer and test it using the Integrated test environment. In step 5, you deploy the monitor model and if you are using BPEL, then you also deploy the BPEL application. And you configure your dashboard in the Dashboard Server.

## Monitor programming model

- XML representation of the monitor model
- XSD-based model validation
- Support for notepad development
- Shared interchange format between editor and monitor runtime, what you see is what you get

The monitor programming model is completely new in version 6.0.2. It is now based on XML rather than XMI. As you edit the model in the Monitor Model Editor using the editor panels, you are making updates to the underlying XML, but you are also given the option to edit the XML directly if you choose. The model is much easier to read in XML notation and the names of the model artifacts are in human readable form in the XML file. The Monitor Model Editor uses the XSD model schema to perform validation operations as you save changes to the model.

## Monitor programming model concepts

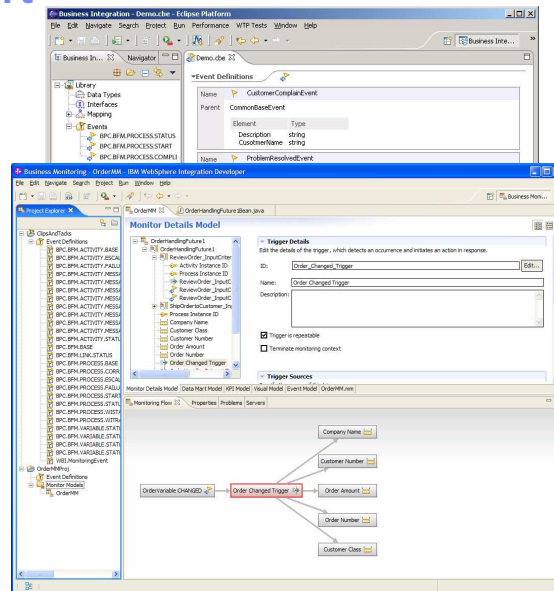


Many of the model artifacts carry over from the previous version. These include triggers, KPIs, metrics, stopwatches and counters. Now that Monitor uses event based models, a monitoring context is used to identify each new instance of a monitored entity. Inbound events are used to specify what events that the model will observe. Outbound events can be created in the model for many uses including situation detection. Maps are used to identify how payload is used from inbound events to update metrics. Keys are used to identify which events apply to which monitored instance.

## Improved BAM support

### 6.0.2 Highlights

- Design time: "What" as opposed to "How" separation: Modeler can optionally be used to specify *what* should be monitored about a business process. Monitor Model Editor is used to specify and test *how* events should be monitored.
- When used with IBM's BPM, provides "first class" support for range of WebSphere Process Server and ESB event types and integrates together with WebSphere Integration Developer.
- For other event sources, Monitor provides a toolkit with examples for emitting events from a database or a flat file



15

WebSphere Business Monitor V6.0.2 - Overview

© 2007 IBM Corporation

In version 6.0.2 there is improved Business Activity Monitoring Support. At design time, you can optionally use Modeler to specify what business measures needs to be monitored at a high level. Then you use the Monitor Model Editor to show what events are used to calculate these business measures.

There is first class support for IBM's business process events that are emitted by WebSphere Process Server and ESB. You can auto-generate the event definitions and a starter model.

For other event sources, you can use the Monitor toolkit to define the events and the monitor model to be deployed to the Monitor Server.

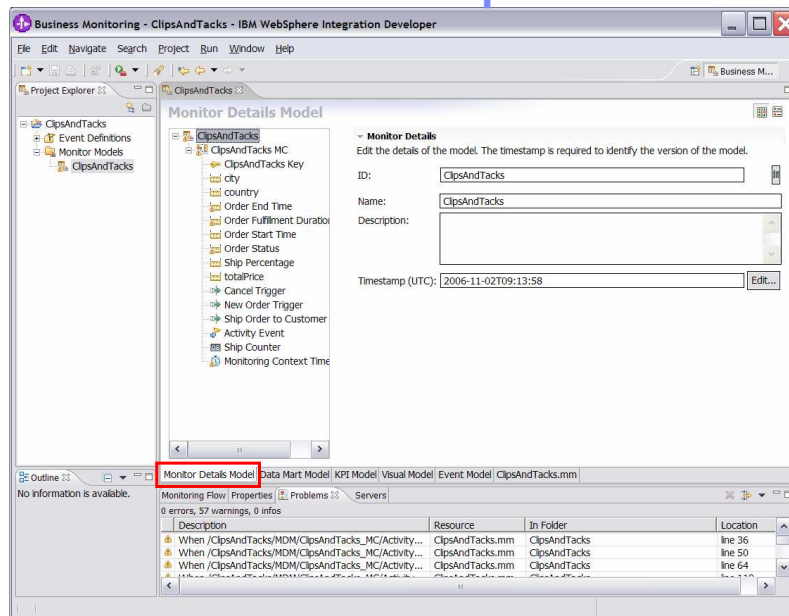
## BAM authoring environment: *Monitor model editor*

- GUI editor for Monitor Programming Model XMLs
- Delivered as plug-ins for WebSphere Integration Developer
- Output is a deployable EAR, not a monitor.zip file

The Business Activity Monitoring environment includes the Monitor Model Editor. It provides graphical panels for updating the XML model, and also a text editor for editing it directly. The Monitor Model Editor is delivered as a plug-in for WebSphere Integration Developer. Unlike the previous version, the output from the model editor is a deployable EAR file.



## Monitor model editor – Graphical editor



17

This is a screen capture of the Monitor Model Editor showing the Monitor Details Model, which is just one of several sub-models within the monitor model. Using panels similar to these, you can update the model information.

## Monitor model editor – XML editor

The screenshot shows the XML editor for a monitor model. The XML code is as follows:

```
<?xml version="1.0" encoding="UTF-8"?>
<mm:monitor xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:mm="http://www.ibm.com/xmlns/res/1.0/monitor" id="ClipsAndTacks">
  <monitorDetailsModel displayName="ClipsAndTacks" id="MDM">
    <monitoringContext displayName="ClipsAndTacks MC" id="ClipsAndTacks MC">
      <trigger displayName="Ship Order to Customer Trigger" id="Ship_Order_to_Custome">
        <onEvent ref="Activity_Event"/>
        <gatingCondition expression="Activity_Event/extendedData/ActivityEventData/ac">
        </gatingCondition>
      </trigger>
      <trigger displayName="Cancel Trigger" id="Cancel_Trigger" terminateContext="true">
        <onEvent ref="Activity_Event"/>
        <gatingCondition expression="Activity_Event/extendedData/ActivityEventData/ac">
        </gatingCondition>
      </trigger>
      <trigger displayName="New Order Trigger" id="New_Order_Trigger">
        <onEvent ref="Activity_Event"/>
        <gatingCondition expression="Activity_Event/extendedData/ActivityEventData/ac">
        </gatingCondition>
      </trigger>
      <inboundEvent displayName="Activity_Event" id="Activity_Event" multipleCorrelat">
        <correlationPredicate expressions="ClipsAndTacks_Key = Activity_Event/extended">
        </correlationPredicate>
        <filter expression="Activity_Event/extendedData/ActivityEventData/businessUni">
        </filter>
      </inboundEvent>
      <metric displayName="ClipsAndTacks_Key" id="ClipsAndTacks_Key" type="xsd:string">
        <map>
          <outputValue>
            <singleValue expression="Activity_Event/extendedData/OrderBOData/order">
            </singleValue>
          </outputValue>
        </map>
      </metric>
    </monitoringContext>
  </monitorDetailsModel>
</mm:monitor>
```

The bottom panel shows a table of monitoring flow details:

Description	Resource	In Folder	Location
When /ClipsAndTacks/MDM/ClipsAndTacks_MC/Activity...	ClipsAndTacks.mm	ClipsAndTacks	line 36
When /ClipsAndTacks/MDM/ClipsAndTacks_MC/Activity...	ClipsAndTacks.mm	ClipsAndTacks	line 50
When /ClipsAndTacks/MDM/ClipsAndTacks_MC/Activity...	ClipsAndTacks.mm	ClipsAndTacks	line 64
When /ClipsAndTacks/MDM/ClipsAndTacks_MC/Activity...	ClipsAndTacks.mm	ClipsAndTacks	line 110

This is a screen capture of the text editor for the monitor model. As you make updates in the graphical panels, the underlying XML model is updated automatically, but you can also use this text editor to update the XML directly.

## Support for any Common Base Event source

- Common Base Events emitted from any environment that are compatible with Monitor can be monitored
- WebSphere Process Server events and other events can be monitored together
- Sample event emitters with source code included
  - ▶ DB2® emitter
  - ▶ File emitter
- Best practices documentation

19

WebSphere Business Monitor V6.0.2 - Overview

© 2007 IBM Corporation

In version 6.0.2 you can monitor any target application which can be instrumented to emit common base events. In the previous version you could only monitor BPEL targets, but in version 6.0.2, you can monitor BPEL or non-BPEL targets. And you can easily monitor events which are produced from these sources at the same time using the Common Event Infrastructure.

There are sample event emitters which you can use to monitor events from file sources and DB2 sources. These use a common framework which you could extend to handle other event sources as well.

There will also be additional best practice documentation to help you in this new monitoring environment.

## Improved KPIs

- KPIs can be qualified based on time periods and other dimensions
- KPI values match values in dimension and report views, possible to drill-down and analyze KPIs dimensionally
- KPI targets and ranges can be updated at runtime based on changing business conditions
- KPI ranges can be personalized in dashboards based on user preferences

20

WebSphere Business Monitor V6.0.2 - Overview

© 2007 IBM Corporation

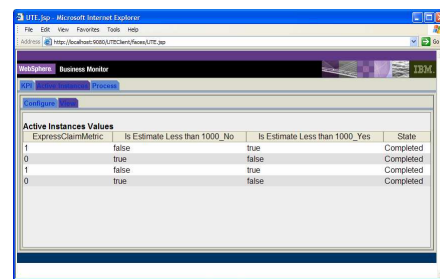
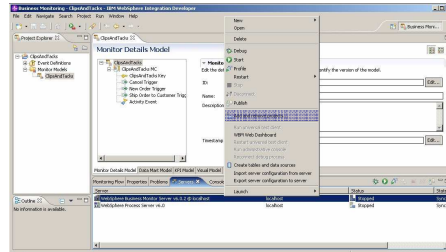
Key Performance Indicators are greatly improved in version 6.0.2. In the previous version, the KPIs displayed values for all historical information, but in the new version you can show KPIs qualified based on time or any other dimension that you setup in the model. For example, this could be used to display year-to-date KPI values for a specific geographical region.

Since KPI values are now based on cubes, KPI values in the KPI views now match exactly the values in the dimension and report views. And you can easily use multi-dimensional analysis to slice and dice your KPI data.

Another nice feature in this version is the capability to update KPI target and ranges at runtime to meet changing business conditions. Also, users can personalize the colors and icons and the ranges for their own dashboards, and this is saved just for that user.

## Integrated test environment

- Developer test environment provided in WebSphere Integration Developer/Monitor Model Editor
  - ▶ Lightweight environment avoiding the dashboard prereqs such as Portal, AlphaBlox and CubeViews.
- Streamlined deployment of a Monitor Model from Monitor Model Editor
- New Servlet/JSF based view of data collected during event processing to verify event processing and metrics



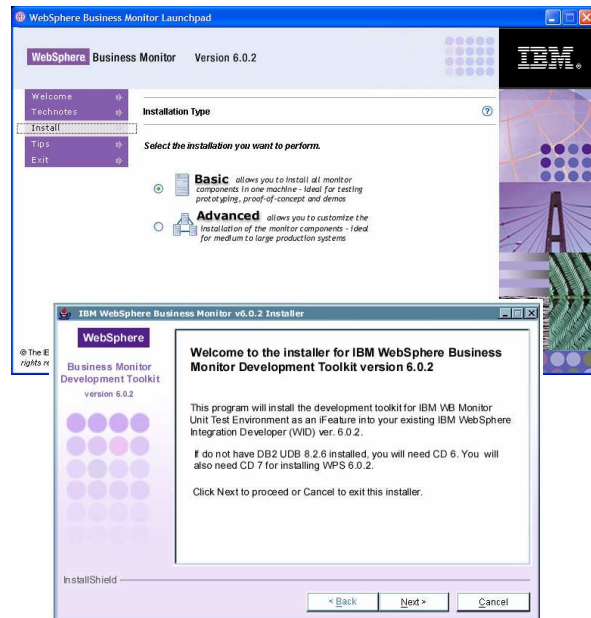
21

There is a new integrated test environment that is very lightweight because it does not include the dashboard prerequisites, so installation is much faster. Also, you can deploy a monitor model directly onto the server from the integrated test environment, and then test the output of monitored data by using a new set of JSPs. This is very handy for rapid deployment and testing purposes.

## Improved installation

### 6.0.2 Highlights

- Install on existing pre-requisites or have the Launchpad install the pre-requisites
- Select Basic or Advanced mode depending on stage of use (prototyping or production)
- Reduced Portal footprint
- Special installer for Business Monitor Development Toolkit – installs on top of WebSphere Integration Developer 6.0.2



22

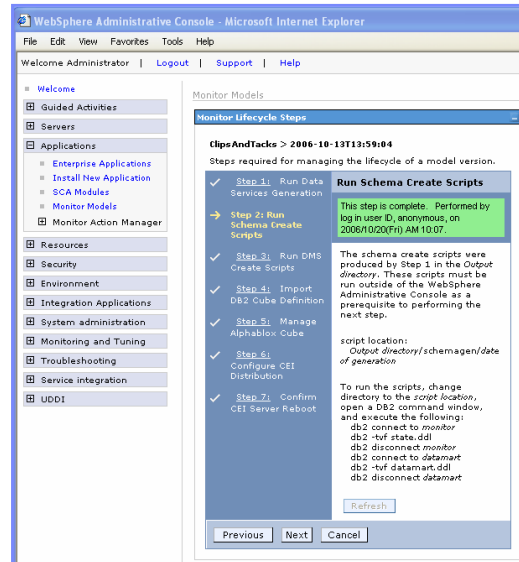
WebSphere Business Monitor V6.0.2 - Overview

© 2007 IBM Corporation

Installation has been improved significantly by allowing you to choose to install on existing prerequisites. Also there are two types of installation, either Basic or Advanced, which are used based on whether you are using it for development or production. The Portal footprint has been reduced so installation times have also been improved in this area. And now there is a separate installer for the Monitor Development Toolkit which allows you to install an Integrated Development Environment on top of WebSphere Integration Developer.

## Improved administration

- Improved administration that guides you through process of deploying and undeploying a Monitor Model
- Also provides non-GUI interface to administration
  - ▶ JMX mBean operations exposed (enables scripting)



Administration has been improved by providing a seven step life cycle management process which guides you through the deployment of a monitor model. As part of this life cycle, the creation of the Alphablox cubes has been automated. Also, you can now use a command line interface to invoke mBean operations which allows you to run scripts to invoke the life cycle steps and also to run scripts to do general purpose administration too.

## Improved version support

- Support for change management
  - ▶ For example, if you want to add a new metric
- Ability to run old version and new version in parallel
  - ▶ In-flight instances continue using old version; new instances use the new version



In version 6.0.2 Monitor has improved version handling support. You can make changes to a monitor model and deploy the new model which will run alongside any existing versions of the model. The existing monitor context instances use the old model, but any new instances are created using the new version.



## Database architecture simplification

- Reduced the number of databases from five to two
  - ▶ RUNTIME database has been removed
  - ▶ REPOS and STATE databases are converged into MONITOR database
  - ▶ HISTORY renamed to DATAMART database
  - ▶ AAMCAT moved to MONITOR database
- Reduced the number of replications from two to one
  - ▶ MONITOR to DATAMART
- Table and column names in plain text



25

WebSphere Business Monitor V6.0.2 - Overview

© 2007 IBM Corporation

The database has been simplified. Instead of five databases like in version 6.0.1, there are just two databases. The Runtime database has been removed and the Repos and State databases are combined into the new Monitor database. The History database is now called Datamart and the action manager database has also been removed, and the associated action manager tables have been moved to the Monitor database.

This also reduces the number of replications from two to one.

Also, the table names and column names are now in human readable form so it is easy to find the tables and columns that relate to specific monitor models and the metrics in those models.

## Improved scalability

- Enables separate Monitor Models to run independently
  - ▶ Each Monitor Model is a separate Java™ 2 Enterprise Edition (J2EE) application
  - ▶ Each Monitor Model receives events from separate JMS queues
- Isolates Monitor Models from problems occurring in other Monitor Models
- Support for WebSphere Network Deployment
  - ▶ Each Monitor Model can run on a separate server
  - ▶ Monitor servers can be federated into an Network Deployment cell to support failover
- Enables finer-grained administration model

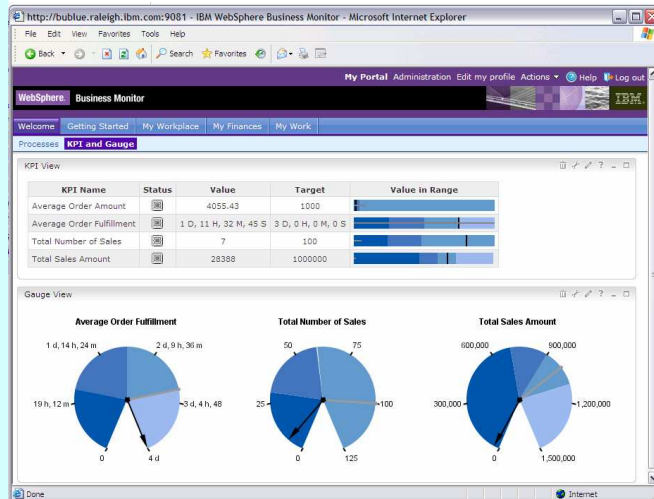
With version 6.0.2 each monitor model runs as an independent J2EE application, so there are also separate JMS queues for each model to handle events. Because of this independence any problems occurring with one model will not impede the operations of any other models.

New support for WebSphere ND means that each model can run on a separate server so that increased throughput is available. Also, failover capability exists since Monitor servers can be federated into an ND cell and clusters can be setup to automatically provide backup servers to run your models.

## Improved dashboards

### 6.0.2 Highlights

- Better use of whitespace
- New theme with more attractive color palette
- Enhanced click to action
- Combined the best of the Scorecard and KPI views
- New portlet: can display custom SVG diagrams annotated with metrics and KPIs
- Streamlined configuration and edit modes for easier customization



Dashboards have been refined in various ways. They make better use of white space, use a more attractive color palette, provide new click to action capability for custom portlets, and use a new streamlined configuration. The KPI scorecard has been merged into the KPI view. The Diagram portlet provides the ability to display SVG diagrams which are associated with your model, plus it will display metric and KPI values which have been annotated into the visual model.

## Dashboard Creation SDK

- Enables development of custom dashboard portlets
- Exposes datamart using Cube Views and Alphablox APIs
- Enables integration with other reporting products
- Samples with source code available on the Web

A new software development kit is provided which allows you to develop your own dashboard portlets so that you can easily access the Datamart database using the Cube Views APIs and Alphablox APIs. This should also allow you to integrate monitored data with other reporting products. Samples are provided on the Web to help you develop your own customized portlets.

## WebSphere Business Monitor V6.0.2 target environments

- Server
  - ▶ Windows® 2000 Server or Advanced Server, SP 4
  - ▶ Windows 2003 Standard or Enterprise, SP 1
  - ▶ Windows XP Professional (not supported, for non-production use only)
  - ▶ AIX® 5L 5.2, Maintenance level 7 (5200-07)
  - ▶ AIX 5L 5.3, Maintenance level 3 (5300-03)
- WebSphere Integration Developer V6.0.2
  - ▶ Windows 2000, Windows 2003, Windows XP,
  - ▶ Linux® is not supported for the Monitor Model Editor
- WebSphere Business Modeler V6.0.2
  - ▶ Windows 2000, Windows XP
- Database
  - ▶ DB2 8.2 fp6 on Windows 2000, Windows 2003, Sun Solaris™, AIX, Linux

These are the target environments for WebSphere Business Monitor version 6.0.2. The Monitor servers run on the listed Windows and AIX platforms. WebSphere Integration Developer runs on the listed Windows platforms, and, although WebSphere Integration Developer can be installed on Linux, use of the Monitor Model Editor is not supported on Linux. Modeler runs on the listed Windows platforms. The supported database is DB2 8.2 fix pack 6 on Windows, Sun, AIX or Linux.

## Supported runtimes

- BPEL applications deployed using WebSphere Integration Developer 6.0.2 and WebSphere Process Server 6.0.2
  - ▶ BPEL, HTM, SCA and WebSphere Enterprise Service Bus monitoring
- Any application configured to submit events to a CEI Server



These are the target runtime engines for WebSphere Business Monitor V6.0.2. WebSphere Business Monitor V6.0.2 supports monitoring BPEL applications that are running on WebSphere Process Server 6.0.2.

WebSphere Business Monitor V6.0.2 itself runs on WebSphere Process Server 6.0.2. Due to license restrictions, the BPEL applications that are monitored must run on WebSphere Process Server 6.0.2 on a separate server from Monitor Server.

Of course, Monitor will also work with any application which has been adapted to submit common base events to a CEI Server.

## Bundled software

- These versions must be used
- Do not apply maintenance until advised to do so
- WebSphere Process Server 6.0.2
- WebSphere Portal Server 5.1.0.4
  - ▶ WebSphere Application Server 6.0.2.17
- DB2 Alphablox 8.4.0
- DB2 Enterprise Server Edition 8.2 fp6 (same as 8.1 fp 13)
- DB2 Cube Views 8.2 fp6
- WebSphere Business Modeler 6.0.2
- WebSphere Integration Developer 6.0.2

These are the products that are included in the software bundle that is provided for your installation of WebSphere Business Monitor V6. Monitor Server runs on top of WebSphere Process Server. The Dashboards use Portal Server for configuration and display. Note that WebSphere Portal Server does not run on WebSphere Process Server at this release level, so WebSphere Application Server is used for the Dashboard Server. Alphablox widgets are used to display the multidimensional charts in the Dimensional views on the Portal page. DB2 Enterprise Server Edition contains data base support and DB2 Cube Views is used for multidimensional analytics. WebSphere Business Modeler contains the Business Measure View for specifying high level business measure information. WebSphere Integration Developer is used for the Monitor Model Editor for developing Monitor models.

## Monitor V6.0.2 hardware requirements

- Monitor development toolkit
  - ▶ 2 GHz minimum, 2 GB RAM minimum, 15 GB disk space
- AIX servers
  - ▶ RS/6000 at 450 MHz minimum or Power5
  - ▶ 2 GB RAM minimum, 15 GB disk space
- Windows servers
  - ▶ 2 GHz minimum, 2 GB RAM minimum, 15 GB disk space
- Basic installation (one machine for monitor server, dashboard server, DB server)
  - ▶ 2 GHz minimum, 4 GB RAM minimum, 15 GB disk space

These are the hardware requirements for WebSphere Business Monitor V6.0.2. Disk space, processor speed and memory is suggested. Your needs will vary depending on the complexity and number of models that you have deployed.



## Migration from previous versions

- Service Offerings are available to assist with migration
- V4.2.4
  - ▶ Migrate process models, performance models, notification metadata
- V5
  - ▶ Migrate process models
- V6.0.1
  - ▶ Migrate business measures models, process models




You can import V4.2.4 org files into WebSphere Business Modeler, and you can also import Modeler project files from version 5 and 6.0.1. However, this will migrate your process models only. Any business measure information will not be imported. At this time there are not any automated tools to assist with the process, but there are Service Offerings that are available to assist with migration of your models and data.

## Restrictions

- For BPEL monitoring, apps should run on WebSphere Process Server version 6.0.2
- Portal Server must not be installed on WebSphere Process Server
- Any Early Program models or deployments cannot be migrated nor moved to the GA driver
- GA driver is NLS enabled but only English language is provided

Here is a list of restrictions to be aware of when using Monitor V6.0.2. BPEL applications to be monitored should run on Process Server V6.0.2. Portal Server must not be installed on Process Server. For version 6.0.2 only English language is provided.

## References

- With the drivers
  - ▶ readme.html, installation\_readme.html
  - ▶ Launchpad – click on 
  - ▶ Dashboard portlets – click on 
  - ▶ Administrative Console – click on 
  - ▶ Administrative Console field help – hover over field label
  - ▶ Information Center Web site
  - ▶ WebSphere Integration Developer help center
- Monitor Web site for samples and best practices
- Announcement for WebSphere Enterprise Service Bus, WebSphere Process Server, and WebSphere Integration Developer V6.0.2
  - ▶ <http://www.ibm.com/fcgi-bin/common/ssi/ssialias?infotype=an&subtype=ca&appname=Demonstration&htmlfid=897/ENUS206-244>

Page help  
[More information about this page](#)

This chart lists the various help resources that are available. There are “readme” files, plus help in the Launchpad, Dashboard portlets, the Administrative Console, plus the Information Center. It also lists the URL for the announcement of the version 6.0.2 products.

## References

- IBM Education Assistant for Monitor
  - ▶ [http://publib.boulder.ibm.com/infocenter/ieduasst/v1r1m0/topic/com.ibm.iea.wpi\\_v6/wbmonitor/WBMONITORv60\\_Task.html](http://publib.boulder.ibm.com/infocenter/ieduasst/v1r1m0/topic/com.ibm.iea.wpi_v6/wbmonitor/WBMONITORv60_Task.html)
- IBM Redbooks™ (V6.0.1)
  - ▶ Patterns: SOA Foundation - Business Process Management Scenario,  
<http://www.redbooks.ibm.com/abstracts/sg247234.html?Open>
  - ▶ Business Process Management: Modeling through Monitoring Using WebSphere V6 Products,  
<http://www.redbooks.ibm.com/abstracts/sg247148.html?Open>



This chart lists some additional references.

## Summary

- Covered new features in WebSphere Business Monitor V6.0.2



In summary, you have seen an overview of WebSphere Business Monitor version 6.0.2 including some of the new and enhanced features which are available in this release.

## Trademarks, copyrights, and disclaimers

The following terms are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both:

AIX DB2 IBM Redbooks RS/6000 SP WebSphere

PowerPoint, Windows, and the Windows logo are registered trademarks of Microsoft Corporation in the United States, other countries, or both.

J2EE, JMX, Solaris, Sun, and all Java-based trademarks are trademarks of Sun Microsystems, Inc. in the United States, other countries, or both.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Product data has been reviewed for accuracy as of the date of initial publication. Product data is subject to change without notice. This document could include technical inaccuracies or typographical errors. IBM may make improvements or changes in the products or programs described herein at any time without notice. Any statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only. References in this document to IBM products, programs, or services does not imply that IBM intends to make such products, programs or services available in all countries in which IBM operates or does business. Any reference to an IBM Program Product in this document is not intended to state or imply that only that program product may be used. Any functionally equivalent program, that does not infringe IBM's intellectual property rights, may be used instead.

Information is provided "AS IS" without warranty of any kind. THE INFORMATION PROVIDED IN THIS DOCUMENT IS DISTRIBUTED "AS IS" WITHOUT ANY WARRANTY, EITHER EXPRESS OR IMPLIED. IBM EXPRESSLY DISCLAIMS ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. IBM shall have no responsibility to update this information. IBM products are warranted, if at all, according to the terms and conditions of the agreements (for example, IBM Customer Agreement, Statement of Limited Warranty, International Program License Agreement, etc.) under which they are provided. Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products in connection with this publication and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products.

IBM makes no representations or warranties, express or implied, regarding non-IBM products and services.

The provision of the information contained herein is not intended to, and does not, grant any right or license under any IBM patents or copyrights. Inquiries regarding patent or copyright licenses should be made, in writing, to:

IBM Director of Licensing  
IBM Corporation  
North Castle Drive  
Armonk, NY 10504-1785  
U.S.A.

Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. All customer examples described are presented as illustrations of how those customers have used IBM products and the results they may have achieved. The actual throughput or performance that any user will experience will vary depending upon considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve throughput or performance improvements equivalent to the ratios stated here.

© Copyright International Business Machines Corporation 2007. All rights reserved.

Note to U.S. Government Users - Documentation related to restricted rights-Use, duplication or disclosure is subject to restrictions set forth in GSA ADP Schedule Contract and IBM Corp.

