



# IBM Business Monitor V7.5 delivers real-time, end-to-end business operations, transactions, and process monitoring for IBM middleware infrastructure

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## At a glance

New capabilities for IBM® Business Monitor V7.5 include:

- Built-in tooling and run-time support for integrated monitoring of IBM Process Manager Standard Edition (formerly WebSphere® Lombardi Edition)
- Fully integrated Cognos® Business Intelligence Server V10.1.0.1 for analysis and reporting on historical data
- Fine-grained security for dimensional, KPI, and instance data: enable or prevent anyone, based on any category, to see any information depth or detail
- Enhanced business user customization of data filtering, dashboard controls & reports, and alerts
- Numerous deployment and operational improvements

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001 ).

## Overview

IBM Business Monitor V7.5 (formerly IBM WebSphere Business Monitor) is a comprehensive business activity monitoring (BAM) software offering that is tightly integrated with the IBM middleware portfolio of IBM Business Process Manager (IBM BPM), BRMS<sup>1</sup>, SOA<sup>2</sup>, and transactional solutions.

Built-in tooling support and run-time event hooks for products including, but not limited to, IBM Integration Designer, WebSphere ILOG® JRules BRMS, WebSphere Message Broker, IBM BPM, and IBM CICS®, plus the ability to monitor third-party application events, allows IT to provide business users and managers with an end-to-end, real-time, and historical view of their entire business operation at any level of detail. IBM Business Monitor V7.5 provides customizable dashboards that calculate and display key performance indicators (KPIs) and metrics derived from business transactions, processes, business activity data, and business events.

Business users can view these KPIs, metrics, and alerts through various means including lightweight web interfaces, mobile devices, and corporate portals, and can drill into specific transaction and process instances. These capabilities offer business users and managers immediate actionable information and insight into their business operations to mitigate problems or take advantage of opportunities.

IBM Business Monitor enables IT to empower their business to increase revenue and reduce costs:

- **Increase revenue:** Real-time operational visibility may increase sales by, for example, identifying business opportunities early to gain competitive advantage, and improving customer satisfaction through improved customer service and faster operational response times.
- **Reduce costs:** Real-time operational visibility may decrease costs by, for example, ensuring critical business processes meet commitments to customers, identifying inefficiencies in processes, ensuring key business metrics meet targets, or improving operational planning based on volume analysis.

IBM Business Monitor implementations are relatively low cost and low risk, and provide a relatively high return on investment:

- **Low risk:** Mission-critical systems and process flows are not "changing." IT is simply instrumenting systems that are already in place or being developed.
- **Low cost:** Most implementations take 3-6 months with 2-3 IT developers.
- **High return on investment:** Studies show high quantifiable IT value delivered to IT budget.

IBM Business Monitor significantly reduces the time and cost needed to implement a Business Intelligence solution for IBM middleware customers:

- The combination of built-in tooling and runtime event/message collection support for the IBM middleware portfolio of products along with the seamless integration of IBM Cognos Business Intelligence provides for a replacement of the traditional Extract Transform Load data warehousing process, saving IT significant time and cost.

New capabilities in IBM Business Monitor V7.5:

- Improved tooling and run-time support for monitoring of IBM Business Process Manager (the follow on product to WebSphere Process Server and WebSphere Lombardi Edition), including playback support and IBM Process Center integration.
- Cognos Business Intelligence V10.1.0.1 for advanced analysis and reporting on historical data are seamlessly integrated into Monitor's installation, monitor model development, administration and business user experience - No Cognos experience needed.
- Fine-grained security for dimensional, KPI, and instance data enable or prevent anyone, based on any category, to see any information depth or detail.
- Enhanced business user customization of data filtering and dashboard controls & reports.
- A single monitor model may now execute concurrently on all members of a cluster, providing for significant scalability improvements resulting in much higher rates of events that can be processed per second.
- Includes a tooling wizard for easier correlation of events across processes that include sub-processes.
- A number of deployment and operational improvements include:
  - High-performance purging of unwanted data for improved overall performance
  - A utility to help administrators consolidate old monitor model versions and associated data over to a new monitor model version
  - A documented Disaster Recovery strategy that describes how to back up Monitor data so that your customer can quickly restore their system

**1** Business Rule Management Systems

**2** Service-oriented architecture

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## Key prerequisites

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### Supported environments

- SUSE Linux® Enterprise Server
- Red Hat Enterprise Linux
- HP-UX Itanium®
- Microsoft® Windows®
- IBM AIX®
- Sun Solaris

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## Planned availability date

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- June 3, 2011: Electronic distribution - U.S. English and national languages
- June 17, 2011: Media packs - U.S. English and national languages

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## Description

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IBM Business Monitor V7.5 delivers real-time, end-to-end business operations, transactions, and process monitoring for IBM middleware infrastructure.

### **New accelerated development of end-to-end business monitoring solutions**

IBM Business Monitor V7.5 continues to make it easier for IT to provide their business with the real-time and historical business information they require. With built-in tooling and run-time support already in place for WebSphere ILOG JRules, IBM adapters, CICS, IMS™, Filenet P8, WebSphere Business Events, WebSphere Enterprise Service Bus, WebSphere Message Broker, WebSphere MQ Workflow, IBM BPM, and WebSphere Sensor Events, IBM Business Monitor V7.5 now adds:

- Auto-generation of a complete monitor model and Dashboard for IBM BPM Standard -- For those customers who have a current or future need to monitor information outside of their Standard Edition-generated processes, IBM Business Monitor now provides a turnkey, yet customizable, dashboard experience that is stored in Process Center. No Integration Designer is needed.
- Accelerated dashboards for IBM BPM Advanced. Events from both BPEL and BPMN engines carry the instance identifiers that are needed for cross-engine correlation, making it easier to create the monitor model that will follow each process from start to finish (including any sub-processes). Users can drill down to see activity status, user assignments, and so on, as well as see all the business level information against which the process is executing.

### **New integrated and embedded Cognos Business Intelligence V10.1.0.1**

- The combination of built-in tooling and runtime event/message collection support for the IBM middleware portfolio of products along with the seamless integration of Cognos Business Intelligence provides for a replacement of the traditional Extract Transform Load datawarehousing process. This saves IT significant time and cost when implementing a Business Intelligence solution for an IBM middleware-based enterprise architecture.
- Cognos' advanced analysis and reporting capabilities that are seamlessly integrated into IBM Business Monitor's installation, monitor model development, administration and business user experience (no Cognos experience needed), providing for a significant improvement in reporting capabilities on monitor-created data, including rolling time periods, drag-and-drop re-ordering, report preview, and many other powerful report editing tools.

## **New enhanced security and business user capabilities**

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- "Fine-grained" security for IBM Business Monitor data enables or prevents viewing of any information depth or detail, based on any category. From instances of KPIs to dimensional data to metrics to alert templates to cube dimensions and measures, IBM Business Monitor can now be configured to enable or prevent access based on any category, based on users/groups defined in Lightweight Directory Access Protocol (LDAP), another application, or defined within IBM Business Monitor itself.
- Enhanced business user customization of data filtering and dashboard controls & reports: New enhancements include improved date & time, and/or, data-assist, and persistent search/filtering, amongst others.

## **New enhanced scalability, deployment and operational functionality**

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- Full scalability to any number of machines in a cluster or multiple servant regions on a z/OS® server
- A number of deployment and operational improvements, including:
  - Improved logging capabilities for deployment troubleshooting
  - High-performance purging of unwanted data for improved overall performance
  - A utility for the batch transfer of instances when migrating to a new version
  - A documented Disaster Recovery strategy that describes how to back up IBM Business Monitor data to quickly restore it

## **New user interface capabilities via an upgrade to Business Space V7.5**

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IBM Business Monitor V7.5 is upgraded to the new Business Space V7.5 component, including these enhancements:

- Major usability enhancements
  - Improved page-to-page navigation, including graphical tooling for contextual page discovery and linking.
  - Completely customizable themes and rebranding, including broader support for CSS and HTML page restyling, banner customization, and web-based Distributed Authoring and Versioning (WebDAV) for easier editing, managing, and deployment of the docs and files that define the theme.
  - Complete banner customization, including remove/hide based on a user's access rights.
  - Support for custom layouts. Create any number of rows, columns, and so on.
  - Widget personalization persistence: in addition to being able to share spaces and pages between multiple users, individual users can now save their own preferences for widgets on those pages as well.
- For those customers using or considering WebSphere Portal V7.0, the Business Space V7.5 component is now a part of Portal's IBM universal hub, for unified page presentation of components developed with different tools and frameworks:
  - Seamlessly mix and wire together Business Space iWidgets with Portal Portlets on the same Portal page.
  - Quickly register local and remote iWidgets in Portal for aggregation and use with native Portlets
  - Include other WebSphere Portal V7.0 innovations and new features
    - Blog and wiki templates: Easily add popular social features with out-of-the-box blog and wiki content templates provided for WebSphere Portal Enable, WebSphere Portal Extend, and WebSphere Portal Express®.
    - Tagging and rating: Easily empower users to organize and evaluate content using the tagging and rating feature within the page builder theme.
    - Virtualization support includes full VMware support for replication of operating systems configured with WebSphere Portal.
    - Multiple profile support speeds up and simplifies administrator's ability to create a portal farm and clustered environment for increased scalability.

## **Maximizing the value of your IBM Software investment**

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with IBM Software Subscription and Support

A comprehensive product upgrade and Technical Support solution, IBM Software Subscription and Support, available through IBM Passport Advantage® and Passport Advantage Express, delivers:

- Product upgrades
- New releases and new versions
- Phone and technical support

To download upgrades to your licensed IBM Software, sign in to Passport Advantage Online.

<http://www.ibm.com/software/passportadvantage>

IBM Software Subscription and Support is one of the most cost-effective ways for your business to ensure that your users have access to latest technology. Whether you choose to upgrade and how you choose to upgrade is always up to you. You manage your upgrade cycles in the way that works best for your business.

Take advantage of product upgrades to:

- Reduce your software acquisition expenses budget and plan for IT enhancements
- Maintain the highest levels of IT performance and productivity
- Integrate new features and functions for measurable performance and efficiency gains

### **Accessibility by people with disabilities**

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A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

[http://www.ibm.com/able/product\\_accessibility/index.html](http://www.ibm.com/able/product_accessibility/index.html)

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## **Product positioning**

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IBM Business Monitor provides comprehensive BAM that is the aggregation, analysis, and presentation of real-time operational, transactional, and process information collected from internal systems and sources, and also those involving customer's partners, and third parties. BAM is both a starting point and a major capability for IBM software for BPM, which is a discipline combining software capabilities and business expertise to accelerate process improvements.

Process change is enhanced by SOA, a flexible IT architecture that accelerates the creation and reuse of business services to facilitate business innovation. The design of BAM is to provide real-time information about the status and results of various operations, processes, and transactions to help business leaders and managers make smarter business decisions, address problem areas quickly, and manage resources more effectively. BAM systems are driven by business events, fed directly from integration software or from BPM software.

IBM Business Monitor allows IT to enable business users and managers to track their entire business operation on a single dashboard, receive alerts, and subsequently drill down to the lowest level of instance detail. Real-time information from any application can be captured for true end-to-end monitoring, enabling business users to take immediate action to remedy anomalous situations, take advantage of emerging business opportunities, and improve operations for improved customer satisfaction and improved business results. Studies have shown that real-time visibility solutions significantly increase revenue and decrease costs.

Rich embedded analytics, via Cognos BI V10.1.0.1, also help business users analyze historical and operational data with the goal of improving performance and making smarter decisions. Predictive capabilities enable business users to act before a problem or opportunity presents itself. Additional products that interact with and support IBM Business Monitor include:

- IBM BPM - A single BPM platform that combines the human-centric and integration-centric capabilities. It provides business users with a single, scalable platform designed for every aspect of business process automation, optimization, and improvement. A high-performance business engine to help choreograph and automate business processes.
- Blueworks Live - A BPM "platform as a service" offering that promotes business process design, simulation, and mapping through teaming and collaboration in a cloud environment.
- IBM WebSphere Decision Server - A combination of the most comprehensive set of business rule management capabilities on the market and WebSphere Business Events for process events, patterns, and correlation.

The business rule management system enables organizations to define, deploy, monitor, and maintain the variety and complexity of decision logic used by operational systems. It allows decision logic to be extracted and managed separately from core application code, so it can be easily understood, maintained, and reused across organizations. Business experts can define and manage decision logic, reducing the amount of time and effort required to update decision logic in production systems, increasing an organization's ability to respond to changes in the business environment.

- Integration Designer - One tool, one set of skills based on business-driven design principles for discovering, authoring (building), and integrating process, mediation, adapter, and component services.
- IBM BPM Industry Packs - Delivers BPM-based solutions that are further solidified with the help of industry standards based SOA assets to ensure improved time-to-value, consistency, and reuse. These assets are useful across the process lifecycle.
- WebSphere Business Events - Enables earlier detection of business situations, providing more intelligent insight for timely and effective business decisions.
- Case Manager - Delivers unified platform for Enterprise Content Management (ECM) that includes at its core FileNet Business Process Manager for content-based processes and case handling scenarios.
- CICS - Delivers a family of application servers and connectors that provides industrial-strength, online transaction management and connectivity for mission-critical applications.
- WebSphere Adapters - Allows customers to create integrated processes that exchange information between enterprise resource planning (ERP), human resource (HR), customer relationship management (CRM), and supply chain systems. These adapters service enable customer applications by connecting them to the IBM Connectivity products, which power your customer's SOA.
- WebSphere Service Registry and Repository - Provides clear visibility into service associations and relationships, while encouraging reuse of services to avoid duplication and reduce cost.
- WebSphere Enterprise Service Bus - Applies web services connectivity and service-oriented integration to power your customer's SOA, and improves flexibility through the adoption of service-oriented interfaces. It supports hundreds of ISV solutions via WebSphere Adapters.
- WebSphere Message Broker - Delivers an advanced enterprise service bus providing connectivity and universal data transformation.
- WebSphere Partner Gateway - Delivers customer-required, business-to-business enablement to integrate or extend applications and processes with those of organizations Business Partners, for both sell-side and buy-side. It offers an environment for creating and managing supply chain partners that are being integrated into the business, as well as providing the support to send and receive multiple data types over multiple choices of protocols and transport layers.
- WebSphere DataPower® SOA Appliances - Represent an important element in the IBM holistic approach to SOA. IBM SOA appliances are purpose-built,

easy-to-deploy network devices that simplify, help secure, and accelerate your customer's XML and web services deployments while extending their SOA infrastructure.

- WebSphere MQ Workflow - Supports long-running business process workflows as they interact with systems and people. It automates and tracks business processes in accordance with business design and provides integration processes with rich support for human interactions.
- IBM Rational® Asset Manager -- Helps create, modify, govern, find, and reuse any type of development assets, including SOA, systems development assets, process models, and monitoring models.
- IBM Rational Application Developer -- Comprehensive Eclipse-based rapid application development for software developers to quickly design, develop, analyze, test, profile, and deploy high-quality Java™ and J2EE, Portal, web, web services, and SOA applications.
- Cognos Business Intelligence V10.1.0.1 -- Delivers the complete range of business intelligence capabilities on a single SOA-based platform. Includes author, share, and use reports that draw on data across all enterprise sources for better business decisions.
- WebSphere Sensor Events -- Delivers the platform for integrating new sensor data, identifying the relevant business events from that data using situational event processing, and then integrating and acting upon those events with SOA business processes.

Additional products and services that can be sold or used to enhance the value of this solution:

- IBM Software Services for WebSphere methodology and services -- The open BPM framework and engagement model is based on IBM best practices, and includes methods, assessments, and service engagement points.
- IBM Global Business Services® (GBS) is the professional services arm of Global Services, including management consulting, systems integration, and application management services. Through IBM's extensive industry experience, business process expertise, and wealth of intellectual capital, GBS delivers business value and innovation to customers.
- IBM Information Framework (IFW) process models combine prebuilt banking industry process templates and banking best practice processes with intellectual capital in a set of business models.
- IBM Insurance Application Architecture (IAA) transforms business processes by integrating applications and processes across lines of business, offerings, channels, and systems to improve customer satisfaction and overall effectiveness.
- IBM Lotus® ActiveInsight™ helps organizations define and communicate goals, view real-time metrics, and track actions via composite, role-based dashboards and scorecards, thus helping to improve overall performance.
- IBM Benchmark Wizard is part of IBM GBS and provides processed-based performance measurement data on demand to help customers more quickly get started with measuring KPIs and Key Agility Indicators (KAIs). The Benchmark Wizard is part of the IBM GBS Benchmark Program.

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## Reference information

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For information on IBM Business Process Manager V7.5, refer to Software Announcement [211-092](#), dated April 5, 2011.

For information on IBM Business Process Manager Industry Packs V7.5, refer to Software Announcement [211-082](#), dated April 5, 2011.

For information on IBM Business Monitor for z/OS, V7.5, refer to Software Announcement [211-063](#), dated April 5, 2011.

For information on WebSphere Enterprise Service Bus V7.5, refer to Software Announcement [211-075](#), dated April 5, 2011.

For information on WebSphere Service Registry and Repository V7.5, refer to Software Announcement [211-084](#), dated April 5, 2011.

For information on WebSphere Service Registry and Repository for z/OS, V7.5, refer to Software Announcement [211-085](#), dated April 5, 2011.

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## Availability of national languages

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Description	Language	Availability date
IBM Business Monitor V7.5 (electronic download)	Multilingual (French, Russian, Hebrew, Arabic, Korean, Chinese-Simplified, Spanish, Portuguese-Brazilian, German, Japanese, Chinese-Traditional, Hungarian, English U.S., Greek, Turkish, Czech, Italian, Polish, Romanian)	June 3, 2011
IBM Business Monitor V7.5 (media pack)	Multilingual (French, Russian, Hebrew, Arabic, Korean, Chinese-Simplified, Spanish, Portuguese-Brazilian, German, Japanese, Chinese-Traditional, Hungarian, English U.S., Greek, Turkish, Czech, Italian, Polish, Romanian)	June 17, 2011

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## Program number

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Program number	VRM	Program name
5724-M24	7.5.0	IBM Business Monitor

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## Education support

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IBM training provides education to support many IBM offerings. Descriptions of courses for IT professionals and managers are on the IBM training website

<http://www.ibm.com/services/learning/>

The link to the WebSphere Education customer portal gives students easy access to all of the IBM courses and training paths

<http://www.ibm.com/software/websphere/education/>

Call IBM training at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments.

For additional information visit

<http://www.ibm.com/software/websphere/education/curriculum/bpm/index.html>



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## Offering Information

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Product information is available via the Offering Information website

<http://www.ibm.com/common/ssi>

Also, visit the Passport Advantage website

<http://www.ibm.com/software/passportadvantage>

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## Publications

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IBM Business Monitor V7.5 documentation is shipped in an information center, which can be viewed from a web browser with Internet access or run locally. A local copy of the information center can be installed using the IBM Business Monitor installation program. Any new V7.5 documentation can then be added to that locally installed information center.

On June 3, 2011, the online version of the IBM Business Monitor V7.5 information center will be available at

<http://publib.boulder.ibm.com/infocenter/dmndhelp/v7r5mx/index.jsp>

Portions of the documentation for Business Monitor will be translated and available within thirty 30 days of product availability.

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## Technical information

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### **Specified operating environment**

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#### ***Hardware requirements***

#### **AIX (32- and 64-bit kernel support)**

- IBM POWER family of processors
- Disk space requirements, visit  
<http://www.ibm.com/support/docview.wss?rs=802&context=SSRR3&uid=swg27016841>
- Minimum 4 GB physical memory, 8 GB recommended
- DVD-ROM drive (for DVD media)

#### **HP-UX PA Itanium**

- Intel® Itanium 2 processor
- Minimum 4 GB physical memory, 8 GB recommended
- Disk space requirements, visit  
<http://www.ibm.com/support/docview.wss?rs=802&context=SSRR3&uid=swg27016843>
- DVD-ROM drive

#### **Solaris SPARC**

- SPARC processor compatible with Sun Solaris operating environment
- 440 MHz or faster processor
- Minimum 4 GB physical memory, 8 GB recommended

- Disk space requirements, visit  
<http://www.ibm.com/support/docview.wss?rs=802&context=SSSRR3&uid=swg27016846>
- DVD-ROM drive (for DVD media)

## Windows

One of the following processors:

- 1.5 GHz, single-core minimum. Recommended: Intel 2.0 GHz dual-core or better
- Intel EM64T or AMD Opteron
- Minimum 4 GB physical memory, 8 GB or greater recommended
- Disk space requirements, visit  
<http://www.ibm.com/support/docview.wss?rs=802&context=SSSRR3&uid=swg27016847>
- DVD-ROM drive (for DVD media)

## Linux on x86

- One of the following processors
  - 1.5 GHz, single-core minimum. Recommended: Intel 2.0 GHz dual-core or better
  - Intel EM64T or AMD Opteron
- Disk space requirements, visit  
<http://www.ibm.com/support/docview.wss?rs=802&context=SSSRR3&uid=swg27016844>
- Minimum 4 GB physical memory, 8 GB recommended
- DVD-ROM drive (for DVD media)

## Linux on System z®

- System z processors
- Disk space requirements, visit  
<http://www.ibm.com/support/docview.wss?rs=802&context=SSSRR3&uid=swg27016845>
- Minimum 4 GB physical memory, 8 GB or greater recommended
- DVD-ROM drive (for DVD media)

## Linux on Power®

- IBM POWER family of processors
- Disk space requirements, visit  
<http://www.ibm.com/support/docview.wss?rs=802&context=SSSRR3&uid=swg27016845>
- Minimum 4 GB physical memory, 8 GB recommended
- DVD-ROM drive (for DVD media)

## Business Monitor development toolkit

- One of the following processors:
  - 1.5 GHz, single-core minimum. Recommended: Intel 2.0 GHz dual-core or better
  - Intel EM64T or AMD Opteron
- Minimum 4 GB physical memory, 8 GB or greater recommended

- Disk space requirements, visit  
<http://www.ibm.com/support/docview.wss?rs=802&context=SSRR3&uid=swg27016847>
- DVD-ROM drive (for DVD media)

### **Software requirements**

#### **AIX (32- and 64-bit kernel support)**

Operating systems (one of the following):

- AIX V5L V5.3 (32- and 64-bit kernel) supports Business Monitor (32- or 64-bit)
- AIX V6.1 (6100-01-00-0822) 64-bit kernel supports Business Monitor (32- and 64-bit)
- AIX V7.1 (64-bit kernel) supports Business Monitor (32- and 64-bit)
- Visit AIX product site at  
<http://www.ibm.com/servers/aix/index.html>

Software requirements

- Application server:
  - WebSphere Application Server Network Deployment V7.0 (included)
  - Monitor is still fully supported by IBM BPM and WebSphere Enterprise Service Bus application servers, as WebSphere Application Server Network Deployment is included in both of these products.
- One of the following databases:
  - DB2 Universal Database™ Enterprise Server Edition V9.7
  - DB2 Universal Database Enterprise Server Edition V9.5
  - DB2® for z/OS, V8
  - DB2 for z/OS, V9.1
  - DB2 for z/OS, V10
  - Oracle 11g Standard or Enterprise release 1
  - Oracle 11g Standard or Enterprise release 2
  - Oracle 10g Standard or Enterprise release 2 - 10.2.0.2, or later
  - Microsoft SQL Server 2008
  - DB2 Express Server 9.7 (included for non-production support only)
- Any LDAP directory server that supports the LDAP V3 specification rfc 2251 is supported unless specific LDAP is noted on unsupported page.
- WebSphere Portal Server V7.0.0.1 (optional)
- Cognos Business Intelligence V10.1.0.1
- Supported web browsers running on a Windows operating system:
  - Adobe® SVG Viewer 3.0.3
  - Mozilla Firefox 3.6
  - Internet Explorer 7.0
  - Internet Explorer 8.0
- IBM Support Assistant V4.1, required when using Business Monitor support assistant plug-in

#### **HP-UX PA Itanium**

Operating systems (one of the following):

- HP-UX Itanium 11i v2 (11.23), 64-bit kernel support
- HP-UX Itanium 11i v3 (11.31), 64-bit kernel support

## Software requirements

- Application server:
  - WebSphere Application Server Network Deployment V7.0 (included)
  - Monitor is still fully supported by IBM BPM and WebSphere Enterprise Service Bus application servers, as WebSphere Application Server Network Deployment is included in both of these products.
- One of the following databases:
  - DB2 Universal Database Enterprise Server Edition V9.7
  - DB2 Universal Database Enterprise Server Edition V9.5
  - DB2 for z/OS, V8
  - DB2 for z/OS, V9.1
  - DB2 for z/OS, V10
  - Oracle 11g Standard or Enterprise release 1
  - Oracle 11g Standard or Enterprise release 2
  - Oracle 10g Standard or Enterprise release 2 - 10.2.0.2, or later
  - Microsoft SQL Server 2008
  - DB2 Express Server 9.7 (included for non-production support only)
- Any LDAP directory server that supports the LDAP V3 specification rfc 2251 is supported unless specific LDAP is noted on unsupported page.
- WebSphere Portal Server V7.0.0.1 (optional)
- Cognos Business Intelligence V10.1.0.1
- Supported web browsers running on a Windows operating system:
  - Adobe SVG Viewer 3.0.3
  - Mozilla Firefox 3.6
  - Internet Explorer 7.0
  - Internet Explorer 8.0
- Support Assistant V4.1, required when using Business Monitor support assistant plug-in

## **Solaris SPARC**

Operating systems (one of the following):

- Sun Solaris 9 (64-bit kernel) with Business Monitor (32- or 64-bit modes)
- Sun Solaris 10 (64-bit kernel) with Business Monitor (32- or 64-bit modes)

## Software requirements

- Application server:
  - WebSphere Application Server Network Deployment V7.0 (included)
  - Monitor is still fully supported by IBM BPM and WebSphere Enterprise Service Bus application servers, as WebSphere Application Server Network Deployment is included in both of these products.
- One of the following databases:
  - DB2 Universal Database Enterprise Server Edition V9.7
  - DB2 Universal Database Enterprise Server Edition V9.5
  - DB2 for z/OS, V8
  - DB2 for z/OS, V9.1
  - DB2 for z/OS, V10
  - Oracle 11g Standard or Enterprise release 1
  - Oracle 11g Standard or Enterprise release 2

- Oracle 10g Standard or Enterprise release 2 - 10.2.0.2, or later
- Microsoft SQL Server 2008
- DB2 Express Server 9.7 (included for non-production support only)
- Any LDAP directory server that supports the LDAP V3 specification rfc 2251 is supported unless specific LDAP is noted on unsupported page.
- WebSphere Portal Server V7.0.0.1 (optional)
- Cognos Business Intelligence V10.1.0.1
- Supported web browsers running on a Windows operating system:
  - Adobe SVG Viewer 3.0.3
  - Mozilla Firefox 3.6
  - Internet Explorer 7.0
  - Internet Explorer 8.0
- Support Assistant V4.1, required when using Business Monitor support assistant plug-in

## Windows

Operating systems (one of the following 64-bit recommended):

- Windows XP Professional SP3 (32-bit) with Business Monitor (32-bit) for non-production use only
- Windows Vista Business Edition (32- and 64-bit) with Business Monitor (32- or 64-bit) for non-production use only
- Windows Vista Enterprise Edition (32- and 64-bit) with Business Monitor (32- or 64-bit) for non-production use only
- Windows 7 Professional (32- and 64-bit) with Business Monitor (32- or 64-bit) for non-production use only
- Windows Server 2003 Enterprise Edition SP2 (32- and 64-bit) with Business Monitor (32- or 64-bit)
- Windows Server 2003 Standard Edition SP2 (32- and 64-bit) with Business Monitor (32- or 64-bit)
- Windows Server 2008 Enterprise Edition SP1 (32- and 64-bit) with Business Monitor (32- or 64-bit)
- Windows Server 2008 Standard Edition SP1 (32- and 64-bit) with Business Monitor (32- or 64-bit)
- Windows Server 2008 R2 Enterprise Edition SP1 (64-bit) with Business Monitor (32- or 64-bit)
- Windows Server 2008 R2 Standard Edition SP1 (64-bit) with Business Monitor (32- or 64-bit)

Software requirements

- Application server:
  - WebSphere Application Server Network Deployment V7.0 (included)
  - Monitor is still fully supported by IBM BPM and WebSphere Enterprise Service Bus application servers, as WebSphere Application Server Network Deployment is included in both of these products.
- One of the following databases:
  - DB2 Universal Database Enterprise Server Edition V9.7
  - DB2 Universal Database Enterprise Server Edition V9.5
  - DB2 for z/OS, V8
  - DB2 for z/OS, V9.1
  - DB2 for z/OS, V10
  - Oracle 11g Standard or Enterprise release 1
  - Oracle 11g Standard or Enterprise release 2
  - Oracle 10g Standard or Enterprise release 2 - 10.2.0.2, or later

- Microsoft SQL Server 2008
- DB2 Express Server 9.7 (included for non-production support only)
- Any LDAP directory server that supports the LDAP V3 specification rfc 2251 is supported unless specific LDAP is noted on unsupported page.
- WebSphere Portal Server V7.0.0.1 (optional)
- Cognos Business Intelligence V10.1.0.1
- Supported web browsers running on a Windows operating system:
  - Adobe SVG Viewer 3.0.3
  - Mozilla Firefox 3.6
  - Internet Explorer 7.0
  - Internet Explorer 8.0
- Support Assistant V4.1, required when using IBM Business Monitor support assistant plug-in

## **Linux on x86**

Operating systems (one of the following):

- Red Hat Enterprise Linux 4.0 Advanced Platform (update 6), (32- and 64-bit kernel) with Business Monitor (32- or 64-bit)
- Red Hat Enterprise Linux 5.0 Advanced Platform (update 1), (32- and 64-bit kernel) with Business Monitor (32- or 64-bit)
- Red Hat Enterprise Linux 6.0 Advanced Platform, (32- and 64-bit kernel) with Business Monitor (32- or 64-bit)
- Visit Red Hat site at  
<http://www.redhat.com/software/rhel/>
- SUSE Linux Enterprise Server 10.0 SP1, 32- and 64-bit kernel, with Business Monitor (32- or 64-bit)
- For information on SUSE Linux Enterprise Server 10.0, visit  
<http://www.novell.com/products/linuxenterpriseserver/>
- SUSE Linux Enterprise Server 11.0, 32- and 64-bit kernel, with Business Monitor (32- or 64-bit)
- For information on SUSE Linux Enterprise Server 11.0, visit  
<http://www.novell.com/products/linuxenterpriseserver/>

Software requirements

- Application server:
  - WebSphere Application Server Network Deployment V7.0 (included)
  - Monitor is still fully supported by IBM BPM and WebSphere Enterprise Service Bus application servers, as WebSphere Application Server Network Deployment is included in both of these products.
- One of the following databases:
  - DB2 Universal Database Enterprise Server Edition V9.7
  - DB2 Universal Database Enterprise Server Edition V9.5
  - DB2 for z/OS, V8
  - DB2 for z/OS, V9.1
  - DB2 for z/OS, V10
  - Oracle 11g Standard or Enterprise release 1
  - Oracle 11g Standard or Enterprise release 2
  - Oracle 10g Standard or Enterprise release 2 - 10.2.0.2, or later
  - Microsoft SQL Server 2008
  - DB2 Express Server 9.7 (included for non-production support only)

- Any LDAP directory server that supports the LDAP V3 specification rfc 2251 is supported unless specific LDAP is noted on unsupported page.
- WebSphere Portal Server V7.0.0.1 (optional)
- Cognos Business Intelligence V10.1.0.1
- Supported web browsers running on a Windows operating system:
  - Adobe SVG Viewer 3.0.3
  - Mozilla Firefox 3.6
  - Internet Explorer 7.0
  - Internet Explorer 8.0
- Support Assistant V4.1, required when using Business Monitor support assistant plug-in

## Linux on System z

Operating systems (one of the following):

- Red Hat Enterprise Linux 4.0 Advanced Platform for system z (update 6), (64-bit kernel) with Business Monitor (64-bit only)
- Red Hat Enterprise Linux 5.0 Advanced Platform for system z (update 1), (64-bit kernel) with Business Monitor (64-bit only)
- Red Hat Enterprise Linux 6.0 Advanced Platform for system z (64-bit kernel), with Business Monitor (64-bit only)
- Visit Red Hat site at  
<http://www.redhat.com/software/rhel/>
- SUSE Linux Enterprise Server 10.0 for system z SP1, 64-bit kernel, with Business Monitor (64-bit only)
- SUSE Linux Enterprise Server 11.0 for system z 64-bit kernel, with Business Monitor (64-bit only)
- For information on SUSE Linux Enterprise Server 10.0 and 11.0, visit  
<http://www.novell.com/products/linuxenterpriseserver/>

Software requirements

- Application server:
  - WebSphere Application Server Network Deployment V7.0 (included)
  - Monitor is still fully supported by IBM BPM and WebSphere Enterprise Service Bus application servers, as WebSphere Application Server Network Deployment is included in both of these products.
- One of the following databases:
  - DB2 Universal Database Enterprise Server Edition V9.7
  - DB2 Universal Database Enterprise Server Edition V9.5
  - DB2 for z/OS, V8
  - DB2 for z/OS, V9.1
  - DB2 for z/OS, V10
  - Oracle 11g Standard or Enterprise release 1
  - Oracle 11g Standard or Enterprise release 2
  - Oracle 10g Standard or Enterprise release 2 - 10.2.0.2, or later
  - Microsoft SQL Server 2008
  - DB2 Express Server 9.7 (included for non-production support only)
- Any LDAP directory server that supports the LDAP V3 specification rfc 2251 is supported unless specific LDAP is noted on unsupported page.
- WebSphere Portal Server V7.0.0.1 (optional)
- Cognos Business Intelligence V10.1.0.1
- Supported web browsers running on a Windows operating system:

- Adobe SVG Viewer 3.0.3
- Mozilla Firefox 3.6
- Internet Explorer 7.0
- Internet Explorer 8.0
- IBM Support Assistant V4.1, required when using Business Monitor support assistant plug-in

## Linux on Power

Operating systems (one of the following):

- Red Hat Enterprise Linux 4.0 Advanced Platform on Power System (update 6), (64-bit kernel) with Business Monitor (32- or 64-bit)
- Red Hat Enterprise Linux 5.0 Advanced Platform on Power System (update 1), (64-bit kernel) with Business Monitor (32- or 64-bit)
- Red Hat Enterprise Linux 6.0 Advanced Platform on Power System (64-bit kernel) with Business Monitor (32- or 64-bit)
- Visit Red Hat site at  
<http://www.redhat.com/software/rhel/>
- SUSE Linux Enterprise Server 10.0 on Power System SP1, 64-bit kernel, with Business Monitor (32- or 64-bit)
- SUSE Linux Enterprise Server 11.0 on Power System, 64-bit kernel, with Business Monitor (32- or 64-bit)
- For information on SUSE Linux Enterprise Server 10.0 and 11.0, visit  
<http://www.novell.com/products/linuxenterpriseserver/>

Software requirements

- Application server:
  - WebSphere Application Server Network Deployment V7.0 (included)
  - Monitor is still fully supported by IBM BPM and WebSphere Enterprise Service Bus application servers, as WebSphere Application Server Network Deployment is included in both of these products.
- One of the following databases:
  - DB2 Universal Database Enterprise Server Edition V9.7
  - DB2 Universal Database Enterprise Server Edition V9.5
  - DB2 for z/OS, V8
  - DB2 for z/OS, V9.1
  - DB2 for z/OS, V10
  - Oracle 11g Standard or Enterprise release 1
  - Oracle 11g Standard or Enterprise release 2
  - Oracle 10g Standard or Enterprise release 2 - 10.2.0.2, or later
  - Microsoft SQL Server 2008
  - DB2 Express Server 9.7 (included for non-production support only)
- Any LDAP directory server that supports the LDAP V3 specification rfc 2251 is supported unless specific LDAP is noted on unsupported page.
- WebSphere Portal Server V7.0.0.1 (optional)
- Cognos Business Intelligence V10.1.0.1
- Supported web browsers running on a Windows operating system:
  - Adobe SVG Viewer 3.0.3
  - Mozilla Firefox 3.6
  - Internet Explorer 7.0
  - Internet Explorer 8.0



- Support Assistant V4.1, required when using Business Monitor support assistant plug-in

### **WebSphere Business Monitor development toolkit**

Operating systems (one of the following, 64-bit recommended):

- Windows XP Professional SP3 (32- and 64-bit)
- Windows Vista Business Edition (32- and 64-bit)
- Windows Vista Enterprise Edition (32- and 64-bit)
- Windows 7 Professional (32- and 64-bit)
- Windows Server 2003 Enterprise Edition SP2 (32- and 64-bit)
- Windows Server 2003 Standard Edition SP2 (32- and 64-bit)
- Windows Server 2008 Enterprise Edition SP1 (32- and 64-bit)
- Windows Server 2008 Standard Edition SP1 (32- and 64-bit)

Software requirements

- Application server:
  - WebSphere Application Server Network Deployment V7.0 (included)
  - Monitor is still fully supported by IBM BPM and WebSphere Enterprise Service Bus application servers, as WebSphere Application Server Network Deployment is included in both of these products.
- Supported databases
  - DB2 Express Server 9.7
- Development platforms
  - IBM Integration Designer V7.5
  - IBM Rational Application Developer for Websphere software V8.0.2

Supported web browsers running on a Windows operating system:

- Adobe SVG Viewer V3.03
- Mozilla Firefox 3.6
- Internet Explorer 7.0
- Internet Explorer 8.0

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a README file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

### ***Companion products***

#### **IBM products enabled for event monitoring**

Business Monitor can be used to monitor any package of information flowing from an application or system that is formatted via XML/JMS.

The following products have been pre-enabled to emit events specifically for Business Monitor:

- IBM BPM V7.5
- WebSphere Process Server V6.1 or later
- WebSphere ESB V6.1 or later
- WebSphere Message Broker V6.1.0.3 or later
- WebSphere ILog JRules BRMS V7.1 with Support Pac LB01

- WebSphere MQ Workflow V3.6 with Service Pack 6 or later
- WebSphere Application Adapters V6.2 or later
- WebSphere Business Events V6.2 or later
- WebSphere Sensor Events V6.2 or later
- WebSphere DataPower XI50 or XI50B
- CICS V4.1 or later
- IMS V11 or later
- Filenet P8 V4.0 or later

### ***Limitations***

Cognos does not support dynamic query mode for DB2 on z/OS at this time. For those customers requiring dimensional reports based on DB2 on z/OS databases, we recommend continuing to use the embedded Alphablox® component.

### **Planning information**

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Cognos Business Intelligence has replaced Alphablox for creating reports on historical data. For customers upgrading from former releases who do not want to use Cognos, Alphablox is still available in this release.

### ***Packaging***

Business Monitor is distributed via electronic download and a single physical media pack consisting of multiple DVDs and CD-ROMs.

### **Security, auditability, and control**

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Business Monitor uses the security and auditability features of the host hardware or software.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

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## **Software Services**

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IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

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## Ordering information

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This product is only available via Passport Advantage. It is not available as shrinkwrap.

Product group: WebSphere

Product Identifier	Description	(PID)
IBM Business Monitor		5724-M24

Product category: Application Integration Middleware Other

### **Charge metric**

Program name	PID number	Charge unit description
IBM Business Monitor	5724-M24	Processor value unit (PVU)

### **Processor Value Unit**

Processor Value Unit (PVU) is a unit of measure by which the Program can be licensed. The number of PVU entitlements required is based on the processor technology (defined within the PVU Table by Processor Value, Brand, Type and Model Number at

[http://www.ibm.com/software/lotus/passportadvantage/pvu\\_licensing\\_for\\_customers.html](http://www.ibm.com/software/lotus/passportadvantage/pvu_licensing_for_customers.html)

and the number of processors made available to the Program. IBM continues to define a processor, for the purpose of PVU-based licensing, to be each processor core on a chip. A dual-core processor chip, for example, has two processor cores.

Licensee can deploy the program using either Full Capacity licensing or Virtualization Capacity (Sub-Capacity) licensing according to the Passport Advantage Sub-Capacity Licensing Terms (see webpage below). If using Full Capacity licensing, Licensee must obtain PVU entitlements sufficient to cover all activated processor cores\* in the physical hardware environment made available to or managed by the program, except for those servers from which the program has been permanently removed. If using Virtualization Capacity licensing, Licensee must obtain entitlements sufficient to cover all activated processor cores made available to or managed by the program, as defined according to the Virtualization Capacity License Counting Rules at

[http://www.ibm.com/software/lotus/passportadvantage/Counting\\_Software\\_licenses\\_using\\_specific\\_virtualization\\_technologies.html](http://www.ibm.com/software/lotus/passportadvantage/Counting_Software_licenses_using_specific_virtualization_technologies.html)

\* An Activated processor core is a processor core that is available for use in a physical or virtual server, regardless of whether the capacity of the processor core can be or is limited through virtualization technologies, operating system commands, BIOS settings, or similar restrictions.

### **Notes**

Some programs may require licenses for the program AND what is being managed. In that case, the following applies: In addition to the entitlements required for the program directly, Licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.

Some programs may be licensed on a managed basis ONLY. In that case, the following applies: Instead of the entitlements required for the program directly, Licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.

A few programs on an exception basis may be licensed on a referenced basis. In that case, the following applies: Rather than obtaining entitlements for the activated processor cores available to the program, Licensee must obtain PVU entitlements for this program sufficient to cover the environment made available to the Referenced program as if the program itself were executing everywhere the Referenced program was executing, independent of the basis on which the Referenced program is licensed.

Express and Workgroup programs may be licensed with maximum use terms. In that case, the following applies: The maximum authorized use terms and conditions for PVU licensed IBM Express and Middleware programs can be found in the *IBM Express and Middleware Licensing Guide*.

### Passport Advantage

Program name/Description	Part number
IBM Business Monitor Per processor value unit (PVU) License + SW subscription and support 12 months	D56KQLL
IBM Business Monitor Per processor value unit (PVU) Annual SW subscription and support renewal 12 months	E029TLL
IBM Business Monitor Per processor value unit (PVU) SW subscription and support reinstatement 12 months	D56KULL

### Passport Advantage customer: Media pack entitlement details

Customers with active maintenance for the products listed are entitled to receive the corresponding media packs.

Media packs description	Part number
IBM Business Monitor v7.5 Multilingual	AF0CDML

### Cross-platform product for use on System z Integrated Facility for Linux (IFL) engines

Order the part numbers that follow when the product is intended to run on the Linux operating system on System z Integrated Facility for Linux (IFL) engines. If the product is not intended to run on the Linux operating system on System z IFL engines, order from the other set of part numbers in this announcement. This set of part numbers provides the identical supply and authorization as the other set in this announcement.

Program name/Description	Part number
IBM Business Monitor for Linux on System z Per processor value unit (PVU) License + SW subscription and support 12 months	D04MBLL
IBM Business Monitor for Linux on System z Per processor value unit (PVU) Annual SW subscription and support renewal 12 months	E055LLL
IBM Business Monitor for Linux on System z Per processor value unit (PVU) SW subscription and support reinstatement 12 months	D04MCLL

### Cross-platform product for use on System z

Order the part numbers that follow when the product is used for either the development of code that will be deployed on System z servers or when the product will be communicating and/or transferring data between a distributed server

and a System z server. Otherwise order from the other set of part numbers in this announcement. This set of part numbers provides the identical supply and authorization as the other set in this announcement.

Program name/Description	Part number
IBM Business Monitor for System z Per processor value unit (PVU) License + SW subscription and support 12 months	D60QNLL
IBM Business Monitor for System z Per processor value unit (PVU) Annual SW subscription and support renewal 12 months	E03NSLL
IBM Business Monitor for System z Per processor value unit (PVU) SW subscription and support reinstatement 12 months	D60QPLL

### **Processor Value Unit (PVU) sub-capacity licensing**

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This software product is eligible for sub-capacity licensing. Customers must accept the terms of the IBM International Passport Advantage Agreement Attachment for Sub-Capacity Licensing Terms (Attachment), and must obtain PVU Proofs of Entitlement (PoEs) for the maximum processor core capacity available to an eligible sub-capacity product when deployed in an eligible virtualization environment. This is also referred to as sub-capacity or virtualization capacity licensing.

Customers must use the IBM License Metric Tool unless they meet the exceptions described in the Attachment.

For information regarding PVU sub-capacity licensing, including terms and IBM License Metric Tool ordering information, visit

<http://www.ibm.com/software/lotus/passportadvantage/subcaplicensing.html>

The programs in this announcement all have Value Unit-Based pricing.

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assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.

***License Information form number***

L-DJEN-8D4JV6

The program's License Information will be available for review on the IBM Software License Agreement website

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***Limited warranty applies***

Yes

***Limited warranty***

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***Money-back guarantee***

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

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**Volume orders (IVO)**

No

**Passport Advantage applies**

Yes, and through the Passport Advantage website at

<http://www.ibm.com/software/passportadvantage>

**Usage restriction**

Yes. For additional information, refer to the License Information document that is available on the IBM Software License Agreement website

<http://www.ibm.com/software/sla/sladb.nsf>

**Software Subscription and Support (Software Maintenance) applies**

Yes. Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and Technical Support are provided by the Software Subscription and Support (Software Maintenance) offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software and Technical Support provides voice and electronic access to IBM support organizations, worldwide.

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<http://www.ibm.com/software/passportadvantage>

**IBM Operational Support Services - SoftwareXcel**

No

**System i Software Maintenance applies**

No

**Variable charges apply**

No

## **Educational allowance available**

Not applicable.

## **Sub-capacity pricing terms and conditions**

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To be eligible for sub-capacity pricing, the machine on which the eligible products are installed and running must be eligible for sub-capacity pricing terms and conditions. Software pricing, at less than full machine capacity for eligible products, apply when running:

- AIX 5L™ V5.1, or later, on an IBM System p® 690 or equivalent partition-capable operating system and machine
- OS/400® V5R1, or later, running on an IBM System i®
- Linux running in an LPAR under AIX 5L V5.1, OS/400 V5R1, or in a partition on an equivalent partition-capable operating system and server

Sub-capacity pricing for eligible products is based on the current program pricing methodology, but the number of processors will be determined based on the sum of processors for all partitions where the program is defined (used). To obtain pricing at less than full machine capacity for eligible products, you are required to:

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- Install available updates to the operating system and eligible products such that license use can be accurately managed.
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## **Prices**

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<https://www.ibm.com/software/howtobuy/passportadvantage/paoreseller>

For Passport Advantage information and charges, contact your IBM representative or authorized IBM Business Partner. Additional information is also available at

<http://www.ibm.com/software/passportadvantage>

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