



IBM Business Monitor for z/OS , 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 Business Monitor for z/OS®, 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 that is relevant to them
- Enhanced business user customization of data filtering, dashboard controls & reports, and alerts
- Numerous deployment and operational improvements

For ordering, contact Your IBM representative or an IBM Business Partner. For more information contact the Americas Call Centers at 800-IBM-CALL (426-2255). Reference: LE001

Overview

IBM Business Monitor for z/OS, V7.5 (formerly IBM WebSphere Business Monitor for z/OS) 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), BRMS¹, SOA², 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. It 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.

Business Monitor for z/OS 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.

Business Monitor for z/OS implementations are relatively low cost and low risk and provide a relatively high return on investment:

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

Business Monitor for z/OS 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 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 Business Monitor for z/OS, 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 development, administration and business user experience.
- Fine-grained security for dimensional, KPI, and instance data enable or prevent anyone, based on any category, to see any information depth or detail that is relevant to them.
- Includes 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

Planned availability date

June 17, 2011

Description

Business Monitor for z/OS, 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

Business Monitor for z/OS, 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, Business Monitor for z/OS, 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, 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 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 integration of Cognos Business Intelligence provides for a replacement of the traditional Extract Transform Load data warehousing 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 are integrated into Business Monitor's development, administration and business user experience 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

- "Fine-grained" security for Business Monitor data that enables or prevents viewing of any information depth or detail, based on any category. From instances to KPIs to dimensional data to metrics to alert templates to cube dimensions and measures, 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 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

- Full scalability to multiple 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 Business Monitor data to quickly restore it

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

IBM Business Monitor for z/OS, 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.

Accessibility by people with disabilities

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

Value Unit-based pricing

Value Unit pricing for eligible IBM System z® IBM International Program License Agreement (IPLA) programs enables a lower cost of incremental growth and enterprise aggregation. Each System z IPLA product with Value Unit pricing has a single price per Value Unit and a conversion matrix, called Value Unit Exhibit, for converting from some designated measurement to Value Units. Most commonly, Millions of Service Units (MSUs) is the measurement designated by IBM to be converted to Value Units. Some other measurements are engines or messages.

Since MSUs are the most common measurement, that measurement will be used for the remainder of this description.

Value Unit pricing offers price benefits for you. For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the **required license capacity**. Each of the various Value Unit Exhibits stipulate that the larger your required license capacity, the fewer Value Units per MSU you will need. Value Unit Exhibits are uniquely identified by a three digit code and referred to using the nomenclature VUExxx, where xxx is the three digit code.

Subsequent acquisitions of Value Unit priced programs offer additional price benefits. The quantity of each System z IPLA program that you have acquired is referred to as **entitled license capacity**. If you wish to grow your entitled license capacity for a System z IPLA program, the calculation to determine additional needed Value Units is based upon the number of Value Units already acquired.

For each System z IPLA program with Value Unit pricing, you should:

- Determine the required license capacity, in MSUs
- Aggregate the MSUs across the enterprise
- Convert the total MSUs to Value Units, using the applicable Value Unit Exhibit
- Multiply the price per Value Unit by the total number of Value Units to determine the total cost

To simplify conversion from the designated measurement to Value Units or vice-versa, use the Value Unit Converter Tool. For additional information or to obtain a copy of the Value Unit Converter Tool, visit the Value Unit Converter Tool website

<http://ibm.com/zseries/swprice/vuctool>

Note that Value Units of a given product cannot be exchanged, interchanged, or aggregated with Value Units of another product.

To determine the required license capacity for the System z IPLA program you selected, refer to the [Terms and conditions](#) section.

Product positioning

IBM Business Monitor for z/OS 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 client'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 deliver 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 for z/OS 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 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 for z/OS include:

- Business Process Manager - 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.
- 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.

Reference information

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 05, 2011

For information on IBM Business Monitor V7.5, refer to Software Announcement [211-077](#), 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 05, 2011

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

Availability of national languages

Description	Language	Availability date
IBM Business Monitor for z/OS, V7.5	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

Note: Cognos-based report viewing does not support Hebrew, Turkish and Arabic languages. Reports will be displayed in English for those languages.

Program number

Program Name	Program Number
IBM Business Monitor for z/OS, V7.5	5655-w11

Product identification number

Program PID number	Subscription and Support PID number
5655-w11	5655-w12

Education support

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-01.ibm.com/software/websphere/education/curriculum/bpm/index.html>

Offering Information

Product information is available via the Offering Information website

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

Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld® ID and password are required (use IBM ID).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=211-063>

Publications

IBM Business Monitor for z/OS, 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 17, 2011, the online version of the IBM Business Monitor for z/OS, V7.5 information center will be available at

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

Portions of the documentation for IBM Business Monitor for z/OS, will be translated and available within thirty 30 days of product availability.

Technical information

Specified operating environment

Hardware requirements

- Any hardware that supports z/OS 1.10, 1.11, and 1.12
- DVD-ROM Drive (required for DVD media, not downloadable images)

Software requirements

Supported operating systems

The following operating systems are supported:

- z/OS, V1.10 (64-bit only)
- z/OS, V1.11 (64-bit only)
- z/OS, V1.12 (64-bit only)

Base application server requirements

- WebSphere Application Server Network Deployment V7.0.0.17, for z/OS with the XML Feature Pack 1.0.0.9
- WebSphere Enterprise Service Bus for z/OS, V7.5

Supported data bases:

- DB2® for z/OS, V8.1
- DB2 for z/OS, V9.1

- DB2 for z/OS, V10.1

Any LDAP directory server that supports the LDAP V3 specification rfc 2251 is supported unless specific LDAP is noted on unsupported page.

Supported Web browsers

The following browsers are supported when running on a Windows® operating systems:

- Internet Explorer 7.0
- Internet Explorer 8.0
- Mozilla Firefox 3.6

Security

Resource Access Control Facility (RACF®)

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

IBM 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 IBM 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 z/OS at this time. A separately purchased and installed Cognos BI V10.1.0.1 offering on a supported platform can be seamlessly accessed remotely by IBM Business Monitor for z/OS.

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

Direct customer support

Direct customer support is provided by IBM Operational Support Services - SoftwareXcel. This fee service enhances your productivity by providing voice and electronic access into the IBM support organization. IBM Operational Support Services - SoftwareXcel helps answer questions pertaining to usage and suspected software defects for eligible products.

Installation and technical support is provided by Global Services. For more information call 800-IBM-4YOU (426-4968).

For technical support or assistance, contact your IBM representative or visit

<http://www.ibm.com/support>

Packaging

IBM Business Monitor for z/OS, V7.5 includes:

- Program directory (GI11-9819-01)
- License document (LC23-5087-01)
- IBM Business Monitor development toolkit DVD (LCD8-1473-01)
- IBM Business Monitor test environment DVD (LCD8-1474-01)

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, and will be presented for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

Security, auditability, and control

IBM 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.

Software Services

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.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

Ordering information

Charge metric

Program name	PID number	Charge unit description
IBM Business Monitor	5655-w11	Value unit

for z/OS, v7.5

Install

Install is a unit of measure by which the Program can be licensed. An Install is an installed copy of the Program on a physical or virtual disk made available to be executed on a computer. Licensee must obtain an entitlement for each Install of the Program.

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

Program number	Program name	Value Unit exhibit
5655-w11	IBM Business Monitor for z/OS, v7.5	VUE007

Value Unit exhibit VUE007

	MSUS minimum	MSUS maximum	Value Units/MSU
Base	1	3	1
Tier A	4	45	0.45
Tier B	46	175	0.36
Tier C	176	315	0.27
Tier D	316	+	0.2

Value Units for mainframes without MSU ratings:

Hardware	Value Units/machine
MP3000 H30	6
MP3000 H50	8
MP3000 H70	12
ESL models	2

Ordering example

The total number of Value Units is calculated according to the following example.

If your required license capacity is 1,500 MSUs for your selected System z IPLA product, the applicable Value Units would be:

Translation from MSUs to value Units

	MSUS	*	Value Units/MSU	=	value Units
Base	3	*	1.00	=	3.00
Tier A	42	*	.45	=	18.90
Tier B	130	*	.36	=	46.80
Tier C	140	*	.27	=	37.80
Tier D	1,185	*	.20	=	237.00
Total	1,500				343.50

When calculating the total number of Value Units, the sum is to be rounded up to the next integer.

Ordering z/OS through the Internet

ShopzSeries provides an easy way to plan and order your z/OS ServerPac or CBPDO. It will analyze your current installation, determine the correct product migration, and present your new configuration based on z/OS. Additional products can also be added to your order (including determination of whether all product requisites are satisfied). ShopzSeries is available in the U.S. and several countries in Europe. In countries where ShopzSeries is not available yet, contact your IBM representative (or IBM Business Partner) to handle your order via the traditional IBM ordering process. For more details and availability, visit the ShopzSeries website at

<http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp>

Program name - IBM Business Monitor for z/OS, V7.5
Program number - 5655-w11

Entitlement identifier	Description	License option/pricing metric
S0160NK	IBM Business Monitor for z/OS, V7.5	Basic OTC, per MSU-Day TUC

Basic license

Translation from MSUs to Value Units

	MSUs	Value Units/MSU
Base	1-3	1.00
Tier A	4-45	0.45
Tier B	46-175	0.36
Tier C	176-315	0.27
Tier D	316+	0.20

To order, specify the program product number and the appropriate license or charge option. Also, specify the desired distribution medium. To suppress shipment of media, select the license-only option in CFSW.

Program name: IBM Business Monitor for z/OS, V7.5
Program PID: 5655-w11

Entitlement identifier	Description	License option/Pricing metric
S0160NK	IBM Business Monitor for z/OS, V7.5	Basic OTC, per Value Unit

Orderable supply ID	Language	Distribution medium
S016P6T	MUL	3590 Tape Cartridge

Media feature code = 6001

Subscription and Support PID: 5655-w12

Entitlement identifier	Description	License option/Pricing metric
S0160NL	IBM Business Monitor for z/OS Subscription & Support v1.1.0	Basic ASC, Value Units SW S&S No charge, decline SW S&S Per MSU SW S&S Registration

Orderable supply ID	Language	Distribution medium
S0160NN	English	Hardcopy Pubs

Media feature code = 6000

Subscription and Support

To receive voice technical support via telephone and future releases and versions at no additional charge, Subscription and Support must be ordered. The capacity of Subscription and Support (Value Units) must be the same as the capacity ordered for the product licenses.

To order, specify the Subscription and Support program number (PID) referenced above and the appropriate license or charge option.

IBM is also providing Subscription and Support for these products via a separately purchased offering under the terms of the IBM International Agreement for Acquisition of Software Maintenance (IAASM). This offering:

- Includes and extends the support services provided in the base support to include technical support via telephone.
- Entitles you to future releases and versions, at no additional charge. Note that you are not entitled to new products.

When Subscription and Support is ordered, the charges will automatically renew annually unless cancelled by you.

The combined effect of the IPLA license and the Agreement for Acquisition of Software Maintenance gives you rights and support services comparable to those under the traditional ICA S/390® and System z license or its equivalent. To ensure that you continue to enjoy the level of support you are used to in the ICA business model, you must order **both** the license for the program **and** the support for the selected programs at the same Value Unit quantities.

Single version charging

To elect single version charging, you must notify and identify to IBM the prior program and replacement program, and the machine the programs are operating on.

Customized Offerings

Product deliverables are shipped only via CBPDO, ServerPac, SystemPac®.

CBPDO and ServerPac are offered for Internet delivery in countries where ShopzSeries product ordering is available. Internet delivery reduces software delivery time and allows you to install software without the need to handle tapes. For more details on Internet delivery, refer to the ShopzSeries help information at

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

You choose the delivery method when you order the software. IBM recommends Internet delivery. In addition to Internet and DVD, the supported tape delivery options for CBPDO, ServerPac, and SystemPac, include:

- 3590
- 3592

Most products can be ordered in ServerPac and SystemPac the month following their availability on CBPDO. z/OS can be ordered via all three offerings at general availability. Production of software product orders will begin on the planned general availability date.

- CBPDO shipments will begin one week after general availability.
- ServerPac shipments will begin two weeks after general availability
- SystemPac shipments will begin four weeks after general availability due to additional customization, and data input verification.

Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage® Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

Licensing

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

Agreement for Acquisition of Software Maintenance

The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) applies for Software Subscription and Support (Software Maintenance) and does not require customer signatures.

These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone 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

IBM Business Monitor for z/OS, V7.5: L-DJEN-8DEQT7

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

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

Limited warranty applies

Yes

Limited warranty

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the *IBM Software Support Handbook* found at

<http://www.ibm.com/support/handbook>

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

Program support

Enhanced support, called Subscription and Support, includes telephone assistance, as well as access to updates, releases, and versions of the program as long as support is in effect. You will be notified of discontinuance of support with 12 months' notice.

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.

For clarification, note that for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Volume orders (IVO)

No

Passport Advantage applies

No

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

No. For operating system software, the revised IBM Operational Support Services - SoftwareXcel offering will provide support for those operating systems and associated products that are not available with the Software Subscription and Support (Software Maintenance) offering.

This will ensure total support coverage for your enterprise needs, including IBM and selected non-IBM products. For complete lists of products supported under both the current and revised offering, visit

<http://www.ibm.com/services/sl/products>

IBM Operational Support Services - SoftwareXcel

No

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Yes. A 15% education allowance applies to qualified education institution customers.

Sub-capacity terms and conditions

For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the required license capacity. Your required license capacity is based upon the following factors:

- The System z IPLA program you select
- The applicable Value Unit Exhibit
- The applicable terms
- Whether your current mainframes are full-capacity or sub-capacity

For more information on the Value Unit Exhibit for the System z IPLA program you selected, refer to the [Ordering information](#) section.

Program number	Program name	Terms
5655-w11	IBM Business Monitor for z/OS, v7.5	Execution-based

Full-capacity mainframes

In cases where full capacity is applicable, the following terms apply.

Execution-based, z/OS-based, full-machine-based: The required capacity of a System z IPLA program with these terms equals the MSU-rated capacity of the machines where the System z IPLA program executes.

For more information on mainframe MSU-rated capacities, visit

<http://www-1.ibm.com/servers/eserver/zseries/library/swpriceinfo/>

Reference-based: The required license capacity of a System z IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the parent program.

Sub-capacity mainframes

In cases where sub-capacity is applicable, the following terms apply.

Execution-based: The required capacity of a System z IPLA sub-capacity program with these terms equals the capacity of the LPARs where the System z IPLA program executes.

z/OS-based: The required license capacity of a System z IPLA program with these terms equals the license capacity of z/OS on the machines where the System z IPLA program executes.

Reference-based: The required license capacity of a System z IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the parent program.

Full-machine-based: The required license capacity of a System z IPLA program with full-machine-based terms equals the MSU-rated capacity of the machines where the System z IPLA program executes.

For more information on mainframe MSU-rated capacities, refer to *The IBM System z Machines Exhibit, Z125-3901*, or visit the *Mainframes section of the System z Exhibits website*

<http://ibm.com/zseries/library/swpriceinfo/>

For more information on sub-capacity System z IPLA terms and conditions, refer to Software Announcement [204-184](#), dated August 10, 2004.

For additional information for products with reference-based terms, System z IPLA sub-capacity programs with reference-based terms adds value to the parent program across the environment, regardless of where in the environment the System z IPLA program executes.

An environment is defined as either a single or stand-alone machine or a qualified Parallel Sysplex®. You may have one or more different environments across the enterprise. To determine the required license capacity for each System z IPLA program with referenced-based terms, each environment should be assessed separately.

When a System z IPLA sub-capacity program with reference-based terms is used in a qualified Parallel Sysplex environment, the required license capacity of the System

z IPLA program must equal with the license capacity of the parent program across the Parallel Sysplex. Qualified Parallel Sysplex refers to one:

- That meets the criteria defined in Hardware Announcement [198-001](#), dated January 13, 1998
- Where MLC pricing is aggregated across the sysplex

Sub-capacity eligibility

To be eligible for sub-capacity charging on select System z IPLA programs, you must first implement and comply with all terms of either sub-capacity Workload License Charges (WLC) or sub-capacity Entry Workload License Charges (EWLC). To implement sub-capacity WLC or EWLC, a machine must be System z (or equivalent). On that machine:

- All instances of the OS/390® operating system must be migrated to the z/OS operating systems
- Any licenses for the OS/390 operating system must be discontinued
- All instances of the z/OS operating systems must be running in z/Architecture® (64-bit) mode

For that machine, you must create and submit a Sub-Capacity Report to IBM each month. Sub-Capacity Reports must be generated using the Sub-Capacity Reporting Tool (SCRT). For additional information or to obtain a copy of SCRT, visit the System z Software Pricing website

<http://ibm.com/zseries/swprice>

You must comply with all of the terms of the WLC or EWLC offering, whichever is applicable:

- The complete terms and conditions of sub-capacity WLC are defined in the IBM Customer Agreement - Attachment for System z Workload License Charges (Z125-6516).
- The complete terms and conditions for sub-capacity EWLC are defined in the IBM Customer Agreement - Attachment for IBM System z 890 and 800 License Charges (Z125-6587).

Additionally, you must sign and comply with the terms and conditions specified in the amendment to the IPLA contract - *Amendment for IBM System z9® and System z Programs Sub-Capacity Pricing* (Z125-6929). Once the amendment is signed, the terms in the amendment replace any and all previous System z IPLA sub-capacity terms and conditions.

IBM Getting Started Sub-capacity Pricing for z/OS IPLA Software applies.

Sub-capacity utilization determination

Sub-capacity utilization is determined based on the utilization of an eligible operating system and machine (for example, z/OS running in z/Architecture (64-bit) mode on a System z ((or equivalent) server).

Prices

Information on charges is available at

<http://www.ibm.com/support>

Choose the option entitled Purchase/upgrade tools.

Program name: IBM Business Monitor for z/OS, v7.5
Program PID: 5655-W11

Entitlement identifier	Description	License option/Pricing metric
S0160NK	IBM Business Monitor for z/OS, V7.5	Basic OTC, per Value Unit
Orderable supply ID	Language	Distribution medium
S016P6T	MUL	3590 Tape Cartridge

Media feature code = 6001

Subscription and Support PID: 5655-w12

Entitlement identifier	Description	License option/Pricing metric
S0160NL	IBM Business Monitor for z/OS Subscription & Support V1.1.0	Basic ASC, Value Units SW S&S No charge, decline SW S&S Per MSU SW S&S Registration
Orderable supply ID	Language	Distribution medium
S0160NN	English	Hardcopy Pubs

Media feature code = 6000

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For more financing information, visit

<http://www.ibm.com/financing>

Order now

To order, contact the Americas Call Centers or your local IBM representative, or your IBM Business Partner.

To identify your local IBM representative or IBM Business Partner, call 800-IBM-4YOU (426-4968).

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Fax: 800-2IBM-FAX (242-6329)
Internet: callserv@ca.ibm.com
Mail: IBM Teleweb Customer Support
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