



IBM WebSphere MQ File Transfer Edition V7.0.3 is enhanced to support Web 2.0, REST, and extends connectivity

Table of contents

2 Overview	13 Publications
2 Key prerequisites	13 Technical information
2 Planned availability date	18 Ordering information
3 Description	24 Terms and conditions
8 Product positioning	32 Prices
10 Program number	34 Order now

At a glance

WebSphere® MQ File Transfer Edition V7.0.3 enhances the IBM® managed file transfer solution for both distributed platforms and z/OS® on IBM System z®. These enhancements add new web transfer capabilities and further increase the connectivity of this offering. WebSphere MQ File Transfer Edition leverages the proven WebSphere MQ transport to transfer files with auditiability, visibility, and reliability. Enhancements include:

- New capability for ad-hoc web transfers between end users
- Enables web transfers between end users and file transfer agents
- Includes new Representational State Transfer (REST) interface for Web 2.0 applications
- Allows you to convert files to messages and messages to files
- Includes enhanced integration with WebSphere Message Broker for file transformation, enrichment, and mediation
- Includes enhanced viewing capability of available agents and determine status from both the graphical user interface and command line
- Includes enhanced Database Logger component that allows it to be deployed to a JEE runtime environment
- Includes new capability to facilitate automatic start-up of agents on Microsoft® Windows®
- Includes enhanced integration with WebSphere Message Broker for file transformation, enrichment, and mediation
- Includes enhanced capabilities to encrypt file data in transit when combined with WebSphere MQ Advanced Message Security V7.0.1
- Extends platform support including: AIX® on Power7, Linux® on Power7, Oracle Solaris 10 on Intel® x86 and virtualized platforms

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

Overview

WebSphere MQ File Transfer Edition products deliver a managed file transfer solution for moving files with auditability, visibility, and reliability. These products leverage WebSphere MQ messaging as its reliable transport mechanism for moving files and enable files to be moved regardless of size.

An audit log of file movements enables organizations to demonstrate that business data in files is transferred with integrity from source to target file system. Graphical configuration tooling, supplied with the product on distributed platforms and integrated with WebSphere MQ Explorer, enables quick and easy definition of transfers remotely from Microsoft Windows or Linux on x86 machines without the need for programming.

On distributed platforms, WebSphere MQ File Transfer Edition includes a copy of WebSphere MQ, the license of which is limited for use on the same machine as the product. It entitles the client to use its full WebSphere MQ messaging functionality.

Trade-up licenses are available for existing clients who want to upgrade machines running WebSphere MQ to WebSphere MQ File Transfer Edition. Clients who upgrade can continue to use the full messaging capabilities of the limited license copy of WebSphere MQ that is supplied with WebSphere MQ File Transfer Edition. Machines running WebSphere MQ File Transfer Edition provide a multipurpose connectivity solution for files and messages.

WebSphere MQ for z/OS is a prerequisite for WebSphere MQ File Transfer Edition for z/OS. A separate license of WebSphere MQ for z/OS is required for this product on the System z platform.

Organizations can use WebSphere MQ File Transfer Edition to reduce and consolidate the infrastructure needed to move their files and messages onto a single, reliable transport capable of handling both kinds of traffic. Using a single reliable backbone can help achieve these operational efficiencies by reducing the need to deploy and manage separate parallel networks for messages and files.

Key prerequisites

For details, refer to the [Hardware requirements](#) and [Software requirements](#) sections.

Planned availability date

WebSphere MQ File Transfer Edition V7.0.3

- November 19, 2010 (electronic software delivery)
- November 26, 2010 (media and documentation)

WebSphere MQ File Transfer Edition for z/OS V7.0.3

- November 26, 2010 (media and documentation)

Description

WebSphere MQ File Transfer Edition delivers a managed file transfer solution for moving files regardless of their size. It adds file transfer services to the WebSphere MQ backbone to enable movement of files in a managed way with auditability, visibility, and reliability.

WebSphere MQ File Transfer Edition delivers a service-oriented architecture (SOA)-ready managed file transfer solution that can replace "home-grown" and FTP-based approaches to file movement.

The enhancements in WebSphere MQ File Transfer Edition V7.0.3 are compatible with previous releases.

What's new

- Web transfers

This V7.0.3 update offers a new capability for Web transfers between end users and agents. This enables end users to send files to a WebSphere MQ File Transfer Edition network, or receive files from a WebSphere MQ File Transfer Edition network, via web Browsers. This style of file transfers is often referred to as "ad hoc" because there is no need for the end user to install local WebSphere MQ File Transfer Edition Server or Client code in advance in order to transfer files. It provides a "zero footprint" approach to managed file transfer, where only a web browser is needed on a given machine in order to transmit and receive files. This feature makes use of a new RESTful API.

This web transfer feature also enables files to be sent and received from a web browser to a WebSphere MQ File Transfer Edition agent. It provides access to a range of transfer options such as selecting binary or text transfer or setting transfer priority level. It also enables end users to query the outcome of file transfers.

Web transfer support is provided by a new component - the Web Gateway. This component comprises a JEE application which when combined with a WebSphere MQ File Transfer Edition agent can transfer files between a HTTP client (for example an end-user's web browser) and other file transfer agents. The JEE application may also be used to retrieve status information about a user's transfers. The Web gateway requires a Java™ Platform, Enterprise Edition 5-compliant application server such as WebSphere Application Server (not provided) such as WebSphere Application Server. For a list of supported application servers please consult the *Specified Operating Environment* section.

File transfer activities that occur via the Web Gateway using end-user's browsers are captured into the audit trail log.

The Web Gateway is useful for situations where files need to be transferred to and from a machine where a WebSphere MQ File Transfer Edition agent cannot be deployed but where a HTTP client can be deployed or is already available.

The Web Gateway supports the following tasks:

- Sending files to a WebSphere MQ File Transfer Edition agent, using a Web page that is running in a Web browser
- Receiving files that have been sent to the Web Gateway by WebSphere MQ File Transfer Edition agents, using a Web page that is running in a Web browser.
- Monitoring the outcome of Web transfers, using a Web page running in a Web browser
- Sending or receiving files from a portable device such as a Smart phone or tablet computer that is not capable of running a local WebSphere MQ File Transfer Edition agent but already has HTTP capabilities

- Sending or receiving files from an operating system where WebSphere MQ File Transfer Edition agents are not available or supported on, but where HTTP capabilities are available
- Administering the Web Gateway to determine policies such as those which control the amount of file data that each user can store, or controlling the level of access that individual Web Gateway users have

The Web Gateway provides file spaces that can be used for the purpose of file storage by Web Gateway users. Access to the file space is restricted to users with authorization to read from it or write to it. The file space is provided in the form of a "mail box" for Web users so that files can be sent for their attention and held until they are online and able to retrieve these.

Files can be sent to an end user's file space for their attention. The files are stored at the Web Gateway and can be downloaded by the recipient using an HTTP client, such as a web browser. File space managed by the Web Gateway, can be used to get files to users who do not have access to a system hosting an agent. Transfers into or out of the file space managed by a Web Gateway are logged in the same way as a normal file transfer.

A sample web application for end users is included in this update. The sample web application uses the RESTful Web Gateway API to submit a file transfer and view the status of file transfers. This sample can be extended and customized to help customers and business partners develop web applications for their end users to use when sharing files.

- RESTful interfaces

The WebSphere MQ File Transfer Edition Web gateway provides a RESTful HTTP API. This RESTful interface can be used to exchanging files between end users and agents, view the status of submitted transfers and to administer the Web Gateway using HTTP requests and responses. This RESTful interface can be used by Web 2.0 applications. The API maps file transfer tasks to RESTful HTTP verbs.

- HTTP POST - Uploads a file or files to a file space, or updates a administrative property of the Web Gateway
- HTTP GET - Retrieves the status of a previous transfer, retrieves a list of files in a file space, downloads a file from a file space, or retrieves information about the current configuration of the Web Gateway
- HTTP DELETE - Delete, and optionally download, a file from a file space or revoke access rights for an end user to the Web Gateway function

Access to these RESTful interfaces is controlled using the access control mechanisms provided by the JEE application server to which the Web Gateway component is deployed. Role based access control can be used to determine which users have access to specific RESTful interface functions using the security mechanisms provided by the JEE server.

- Converting payloads between files and messages

This V7.0.3 update enables file-orientated and message-orientated systems to readily exchange information helping bring together organisation's messaging and file domains. For example, this feature can help modernize an existing solution in stages by enabling file-oriented applications to exchange data with messaging-based applications and services that are part of SOAs.

The new file-to-message feature enables WebSphere MQ File Transfer Edition to load data from a file onto a WebSphere MQ queue as a single message, or as multiple messages. The resulting messages can be read and used by MQ-enabled applications just like any other regular WebSphere MQ messages.

This V7.0.3 update provides the following types of file-to-message transfer:

- From a single file to a single message
- From a single file to multiple messages, by splitting the file into messages of a given length

- From a single file to multiple messages, by splitting a text file at a regular expression delimiter
- From a single file to multiple messages, by splitting a binary file at a hexadecimal delimiter

Correspondingly, this new update also provides conversion from message-to-file. This new feature enables WebSphere MQ File Transfer Edition to transfer data from one or more messages that are on a WebSphere MQ queue to a file. Applications that are already MQ-enabled can use this new capability to transfer messages and have these arrive as files on any system within a WebSphere MQ File Transfer Edition network.

This V7.0.3 update provides the following types of message-to-file transfer:

- From a single message to a single file
- From multiple messages to a single file
- From multiple messages with the same WebSphere MQ group ID to a single file
- From multiple messages to a single file, including a text or binary delimiter between the data from each message written to the file

This V7.0.3 update extends the existing WebSphere MQ File Transfer Edition capability to automatically 'trigger' a file transfer when a condition is met to include queue-based conditions. This can, for example, be used to initiate a message-to-file transfer when a complete group of messages is available on a WebSphere MQ queue. Using this capability to automatically initiate message-to-file transfers provides a way to integrate with existing MQ-based applications without requiring changes to these applications or manual intervention to initiate the transfer of data.

- Enhanced integration with WebSphere Message Broker

WebSphere Message Broker is an ESB built for universal connectivity and transformation in heterogeneous IT environments. It builds on the WebSphere MQ messaging layers with ESB capabilities that add transformation, intelligent routing, and information flow modelling. WebSphere Message Broker offers additional file processing capabilities to enable transformation, mediation, and enrichment specifically designed for file data.

WebSphere Message Broker provides native support for large file processing to simplify processing of large, repeating, complex file records without using excessive storage. Files can be delivered to WebSphere Message Broker using FTP or with reliability by using WebSphere MQ File Transfer Edition.

WebSphere Message Broker V7.0.0.1 provides new nodes for exchanging files with WebSphere MQ File Transfer Edition called FTEOutput and FTEInput.

- FTEInput node - enables WebSphere Message Broker to receive a file using WebSphere MQ File Transfer Edition and then process that file as part of a Message Broker flow
- FTEOutput node - enables WebSphere Message Broker to transfer a file that has been output by a message broker flow to another location in the network using WebSphere MQ File Transfer Edition

These new nodes effectively embed WebSphere MQ File Transfer Edition agent capabilities into WebSphere Message Broker enabling it to participate direct in Managed File Transfers across a WebSphere MQ File Transfer Edition network. These new nodes also enable WebSphere Message Broker to apply its ESB capabilities to files.

- Enhancements to viewing available agents and their status

This V7.0.3 update provides GUI and command-line enhancements to display additional information about the agent processes in a WebSphere MQ File Transfer Edition network. This includes the capability to remotely determine the status of agent processes, and remotely determine, for example, whether or not these are currently active.

- Support for additional platforms

V7.0.3 adds support for the following new hardware and software platforms:

- IBM AIX running on Power7 hardware
- Red Hat Enterprise Linux (RHEL) running on Power7 hardware
- SUSE Linux Enterprise Server (SLES) running on Power7 hardware
- Oracle Solaris 10 running on Intel x86 hardware (System x®)

Support is also added for the following virtualization platforms:

- PR/SM™ with z/OS
- PR/SM with Linux for System z
- z/VM® with z/OS
- z/VM with Linux for System z
- PowerVM™ with AIX
- VMWare ESX with Microsoft Windows
- VMWare ESX with Linux for System x

Defect support is available for the above virtualization environments when used to run a software configuration which is described in the *Specified Operating Environment* section. WebSphere MQ File Transfer Edition Support is unable to assist in issues related to configuration and setup, or issues that are directly related to the virtualization environment itself.

- Enhancements to the Database Logger component

This V7.0.3 update allows the component responsible for archiving audit log data to a database (the Database Logger component) to be deployed to a JEE server runtime. This can help simplify administration of the Database Logger component.

When used in conjunction with the Web Gateway functionality, deploying the Database Logger component to a JEE server can help reduce the complexity of the overall deployment required to build Web 2.0 applications that use REST APIs provided by the Web Gateway component.

- Integration with IBM WebSphere MQ Advanced Message Security

WebSphere Advanced Message Security expands the industry-standard security provided by WebSphere MQ with end-to-end data protection for your applications. It enables enterprise-wide, remote management of security policies on your MQ network and can be deployed to existing production environments without changes to existing WebSphere MQ applications.

This V7.0.3 update adds the capability to use WebSphere MQ Advanced Message Security V7.0.1 to provide end-to-end protection for file data as it flows between WebSphere MQ File Transfer Edition agents. This can offer an alternative to using SSL-based encryption which is more efficient for transferring file data through complex WebSphere MQ networks, as data is encrypted/decrypted only once per transfer - rather than on each hop through the WebSphere MQ network.

- Automatic start-up of agents on Microsoft Windows

This V7.0.3 update allows WebSphere MQ File Transfer Edition agents to run automatically on the Microsoft Windows Platform when the system starts up. This enhances the availability of WebSphere MQ File Transfer Edition on the Microsoft Windows platform.

- SupportPacs

In addition to the new capabilities provided by this update, IBM SupportPacs extend the capabilities of WebSphere MQ File Transfer Edition.

SupportPac™ FA01 can help govern the Agent infrastructure of WebSphere MQ File Transfer Edition. It provides a plug-in to the IBM SOA Repository, WebSphere Service Registry and Repository. Using this plug-in, information about file transfer

agents and queue manager connections can be retrieved from WebSphere MQ File Transfer Edition and SOA assets generated to represent these in WebSphere Service Registry & Repository. This can enable administrators to analyse the relationships between agents and the underlying MQ network, and determine the impact to agents of any changes made to the WebSphere MQ configuration. In addition, it enables SOA governance policies to be applied to managed file transfer agents.

The graphical tooling Eclipse plug-ins supplied for the WebSphere MQ Explorer can be installed into the separately downloadable WebSphere MQ Explorer package that is available as SupportPac MS0T.

For details about SupportPacs for WebSphere MQ File Transfer Edition, visit

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

Accessibility by people with disabilities

You can request a U.S. Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance at

http://www.ibm.com/able/product_accessibility/index.html

Section 508 of the U.S. Rehabilitation Act

WebSphere MQ File Transfer Edition V7.0.3 products are capable, as of November 19, 2010, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. You can request a U.S. Section 508 Voluntary Product Accessibility Template (VPAT) from

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

The WebSphere MQ family provides a universal messaging backbone for SOA. It is complemented by skills, services, and offerings from more than 1500 IBM Business Partners and more than 9000 certified developers worldwide.

- WebSphere MQ, the core of application integration, is the reliable, proven messaging backbone for SOA connectivity, as the universal, multipurpose data transport. It connects virtually any commercial IT system, with support for more than 80 platform configurations. WebSphere MQ supports industry-standard Java Message Service (JMS) and offers a choice of APIs. WebSphere MQ interoperates with the JMS messaging services embedded in WebSphere Application Server, extending its reach to non-JEE environments. WebSphere MQ delivers a flexible connectivity solution that can grow incrementally with changing business needs.
- WebSphere MQ File Transfer Edition adds file-specific features to the proven WebSphere MQ transport. It provides a managed file transfer solution that enables the movement of files between IT systems with reliability and without the need for programming.
- WebSphere MQ for z/OS exploits the platform-specific capabilities of the IBM System z platform to deliver a messaging powerhouse.
- WebSphere MQ for HP OpenVMS, WebSphere MQ for HP NonStop Server, and WebSphere MQ for z/VSE™ all extend the reach of WebSphere MQ to these specific computing platforms.
- WebSphere MQ Advanced Message Security expands the industry-standard security provided by WebSphere MQ with end-to-end data protection for your applications. It enables enterprise-wide, remote management of security policies on your MQ network and can be deployed to existing production environments without changes to existing WebSphere MQ applications.
- WebSphere MQ Low Latency Messaging extends the WebSphere MQ product family with low-latency, high-throughput delivery. It is optimized for the high-volume, low-latency requirements typical of financial market firms and other industries where speed of data delivery is paramount.
- WebSphere MQ Telemetry extends the universal messaging backbone provided by WebSphere MQ to a wide range of remote sensors, actuators, and telemetry devices. It extends WebSphere MQ so that it can now interconnect intelligent enterprise applications, services, and decision makers with networks of instrumented devices.

WebSphere MQ File Transfer Edition enables a transport layer for moving files that an ESB can build on with mediation, transformation, and routing services for files.

- WebSphere Message Broker is an ESB built for universal connectivity and transformation in heterogeneous IT environments. It builds on the WebSphere MQ messaging layers with ESB capabilities that add transformation, intelligent routing, and information flow modelling. WebSphere Message Broker offers additional file processing capabilities to enable transformation, mediation, and enrichment specifically designed for file data.

It provides native support for large file processing to simplify processing of large, repeating, complex file records without using excessive storage. Files can be delivered to WebSphere Message Broker using FTP or with reliability by using WebSphere MQ File Transfer Edition.

- WebSphere Message Broker Starter Edition is an entry-level starting point for deploying an ESB with the ability to grow as the client's business needs increase.
- WebSphere Message Broker for Remote Adapter Deployment enables deployment of adapters with a compact and efficient runtime at an affordable price.
- WebSphere ESB leverages Web services standards and builds on the embedded messaging in WebSphere Application Server. WebSphere MQ extends the reach of this ESB to non-JEE environments and a broader range of platforms.
- WebSphere DataPower® Integration Appliance XI50 offers an ESB in an appliance form factor. It is a 1U (1.75-in thin) rack-mountable network device capable of transforming between disparate message formats, including binary, legacy, and XML, and providing message routing and security. XI50 delivers client connectivity into the WebSphere MQ backbone.
- WebSphere DataPower B2B Appliance XB60 delivers purpose-built business-to-business (B2B) hardware that provides AS2 and AS3 messaging and trading-partner profile management in a high-performance, demilitarized zone (DMZ)-ready appliance.
- WebSphere Partner Gateway enables trading partner B2B integration. It provides centralized and consolidated B2B trading partner and transaction management to enable and manage process and data integration with trading partners. It supports standards-based transport protocols such as EDIINT AS1, AS2 or AS3, RosettaNet RNIF 1.1 and 2.0, cXML, CIDX Chem eStandards 4.0, ebXML Messaging Service (ebMS) 2.0 to support the connectivity needs of various trading partners, and FIPS 140-2 enablement to be compliant with the FIPS standard.

In addition, the Tivoli® portfolio offers systems management for large-scale WebSphere MQ solutions. Tivoli OMEGAMON® XE for Messaging can help improve the availability and performance of WebSphere MQ solutions. It can identify common problems and automate corrective actions using predefined industry best-practice situations, while monitoring key WebSphere MQ metrics.

Tivoli OMEGAMON XE for Messaging can help improve management of Service Level Agreements (SLAs) by monitoring availability and capacity using real-time and historical data analysis. Out-of-the box capabilities, such as auto-discovery and monitoring of complex WebSphere MQ environments, can improve IT staff productivity and reduce administration costs.

SupportPac product extensions, which enable additional function are available, visit

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

Program number

Program number	VRM	Program name
5724-R10	7.0.3	WebSphere MQ File Transfer Edition
5655-U80	7.0.3	WebSphere MQ File Transfer Edition for z/OS

Product identification number

Program PID number	Subscription and Support PID number	Program name
5724-R10		WebSphere MQ File Transfer Edition v7.0.3
5655-U80	5655-U81	WebSphere MQ File Transfer Edition for z/OS v7.0.3

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=210-311>

Additional information

Consulting and services

Professional Services are available to help you get into production quickly and, if desirable, to assist with planning and growing into full-blown business integration solutions. These services can be provided through our IBM Business Partner community or through IBM Global Services or IBM Software Services for WebSphere consulting teams. More information about these services is available at

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

IBM Software Services for WebSphere (SSW)

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

SSW (Lab Services) is adept at building effective teams consisting of your staff and IBM Global Business Services® personnel, or with a global systems integrator of your choice to support the successful deployment of WebSphere Managed File Transfer Edition. Lab Services brings product, technology, and best practices expertise that can make any implementation team more effective. As specialists in WebSphere products, IBM has the collective experience of hundreds of live customer implementations and hundreds of consultants globally to help ensure success.

Lab Services professionals complement the project delivery team by providing deep insight into product technology and architecture as well as linkages back to the software development organization. Its services offerings are tailored to your

individual needs, with services that range from a full outsourced deployment to focused specialist services packages that enable a project team or client to address specific challenges.

Lab Services can also assist with upgrading from earlier versions of WebSphere products. Any migration of applications involves proper planning, estimation, and timed execution. Lab Services can assist by precisely assessing and evaluating your existing infrastructure and support system. Lab Services has extensive, proven experience in successful product migrations.

Lab Services consultants:

- Can help make WebSphere products successful
- Minimize your migration risks. We have harnessed years of field experiences into a migration services program to help successfully migrate applications
- Offer extensive technical skills on WebSphere integration products
- Bring tried-and-true best practices expertise to every engagement.

Packaged and custom service offerings are available, including specific predefined services offerings to get you off to a running start with WebSphere process integration products.

Migration Assessment Services Offering

Do you need to migrate from Axway, Proginet, Metastorm Process Manager for Data (PM4Data), or other vendor offerings to WebSphere MQ File Transfer Edition? Engage the experts. Skilled Lab Services consultants can assist in successfully planning migration with the Migration Assessment Services Offering. Lab Services consultants will host a workshop which will assess a current WebSphere MQ File Transfer Edition environment and provide guidance on the best approach for migrating. For more details, contact your Lab Services sales representative.

Visit the following websites to learn more about Lab Services capabilities, and how to contact your Lab Services sales specialist for specific information about services offerings for WebSphere products.

To find your Lab Services sales specialist, visit

<http://www.ibm.com/WebSphere/developer/services/contacts.html>

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

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

IBM Technology Assessment and Consulting Services

IBM Technology Assessment and Consulting Services for WebSphere MQ healthcheck gives you an assessment of your WebSphere MQ environment and recommendations for improvement and to address identified problems or issues. The IBM offering includes:

A requirements workshop to:

- Gather and review your WebSphere MQ business requirements
- Agree on the WebSphere MQ systems and applications to be assessed
- Identify any specific WebSphere MQ problem areas to be assessed
- Document the findings in the Healthcheck Requirements document

A healthcheck assessment to assess your current WebSphere MQ environment, including aspects of WebSphere MQ:

- Product installation and configuration
- Systems

- Networking
- Performance
- Resilience
- Security
- Systems management
- Applications
- Backup and recovery
- Operational procedures
- Recommendations to address identified problems or issues
- Findings and recommendations in the Healthcheck Report

IBM Implementation Services

IBM Implementation Services for WebSphere MQ offers planning and installation services for WebSphere MQ Solutions to ensure that clients' WebSphere MQ commercial messaging environment is quickly up and running. An IBM specialist spends a week or longer (depending on your requirements) working with your technical and programming staff to increase productivity and accelerate implementation of WebSphere MQ licensed software in your business environment.

IBM Planning Services for WebSphere MQ Solutions

IBM Planning Services for WebSphere MQ Solutions is a customizable service designed to help implement a WebSphere MQ Solution within your organization. With this service, you can customize the plan. IBM can create the plan by collecting the necessary business requirements and infrastructure information, or can work with staff to create the WebSphere MQ plan. In addition, IBM Planning Services for WebSphere MQ Solutions assists in designing the system network architecture, developing deployment and application migration plans, and planning for recovery of WebSphere MQ objects and data.

IBM Design Services for WebSphere MQ Applications

IBM Design Services for WebSphere MQ Applications helps produce high- and low-level designs for WebSphere MQ applications, including assistance in modifying or writing applications, to take full advantage of the WebSphere MQ environment. This offering can be customized and may include assistance in evaluating test plans and making sure applications perform effectively.

IBM High Availability Services

IBM High Availability Services for WebSphere MQ is designed to assist clients with an assessment of, and recommendation for, your WebSphere MQ High Availability environment, including WebSphere MQ and WebSphere Message Broker products.

The offering includes:

- An understanding of the client's WebSphere MQ business and high-availability requirements
- An assessment of the client's current WebSphere MQ environment
- Recommendations on implementing a WebSphere MQ high-availability resilient environment to help ensure that the client's WebSphere MQ high-availability requirements are met and messages are delivered and handled promptly

For additional information on these offerings and service capabilities, contact an IBM Global Services representative. For further information, visit

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

Offering Information

Product information is available via the Offering Information website

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

Publications

WebSphere MQ File Transfer Edition for z/OS

A *Program Directory* (GI13-0530) and *License Information booklet* (GC34-6980) are shipped with this program.

WebSphere MQ File Transfer Edition

A Quick Start Guide is shipped with this program. No other printed publications are shipped.

The IBM Publications Center

<http://www.ibm.com/shop/publications/order>

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the U.S.) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

Technical information

Specified operating environment

Hardware requirements

WebSphere MQ File Transfer Edition for z/OS

Any System z processor, capable of running the required level of operating system, that has enough storage to meet the combined requirements of the programming prerequisites, WebSphere MQ for z/OS, the access methods, and the application programs.

WebSphere MQ File Transfer Edition

Any hardware that is explicitly compatible and fully capable of running the specified operating system, all the corresponding supporting software, and any associated applications unmodified. Responsibility to provide a statement of full compatibility between machines lies with the original equipment provider (if not IBM).

Software requirements

WebSphere MQ File Transfer Edition for z/OS

z/OS V1.6, V1.7, V1.8, V1.9, or V1.10

WebSphere MQ for z/OS V7.0, with at least the following fix: PK74350

WebSphere MQ for z/OS V6.0, with at least the following fix: PK67851 (6.0.2.5 MQ Java)

To run the WebSphere MQ Explorer plug-in:

Linux for System x (32-bit): Red Hat Enterprise Linux (RHEL) V5.0, V5.1, V5.2, and V5.3

Linux for System x (32-bit): SUSE Linux Enterprise Server (SLES) V10 with Service Pack 1, or later

Linux for System x (32-bit): SUSE Linux Enterprise Server (SLES) V11

Linux for System x (64-bit): SUSE Linux Enterprise Server (SLES) V11

Windows Server 2003 (32-bit) with Service Pack 2 (Standard or Enterprise Edition), or later

Windows Server 2008 (32-bit) (Standard or Enterprise Edition)

Windows XP Professional (32-bit) with Service Pack 2, or later

Windows Vista (32-bit) Business Edition

Windows Vista (64-bit) Business Edition

WebSphere MQ File Transfer Edition

Server platforms:

- AIX V5.3, with TL04 and appropriate firmware
- AIX V6.1
- HP-UX 11i V2 (11.23) on Itanium®
- HP-UX 11i V3 (11.31) on Itanium
- HP-UX 11.11 on PA-RISC
- i5/OS® V5R4
- i5/OS V6R1
- Linux for System x (32-bit): Red Hat Enterprise Linux (RHEL) V5.0, V5.1, V5.2, V5.3, and V5.4
- Linux for System x (32-bit): SUSE Linux Enterprise Server (SLES) V9 with Service Pack 4, or later
- Linux for System x (32-bit): SUSE Linux Enterprise Server (SLES) V10 with Service Pack 1, or later
- Linux for System x (32-bit): SUSE Linux Enterprise Server (SLES) V11
- Linux for System x (64-bit): Red Hat Enterprise Linux (RHEL) V5.3, V5.4
- Linux for System x (64-bit): SUSE Linux Enterprise Server (SLES) V9 with Service Pack 4, or later
- Linux for System x (64-bit): SUSE Linux Enterprise Server (SLES) V10 with Service Pack 1, or later
- Linux for System x (64-bit): SUSE Linux Enterprise Server (SLES) V11
- Linux for System P (64-bit): Red Hat Enterprise Linux (RHEL) V5.0, V5.1, V5.2, V5.3, V5.4
- Linux for System P (64-bit): SUSE Linux Enterprise Server (SLES) V9 with Service Pack 3
- Linux for System P (64-bit): SUSE Linux Enterprise Server (SLES) V10 with Service Pack 2
- Linux for System x (64-bit): SUSE Linux Enterprise Server (SLES) V11
- Linux for System z (64-bit): Red Hat Enterprise Linux (RHEL) V5.0, V5.1, V5.2, V5.3, V5.4
- Linux for System z (64-bit): SUSE Linux Enterprise Server (SLES) V10 with Service Pack 1, or later
- Linux for System z (64-bit): SUSE Linux Enterprise Server (SLES) V11
- Oracle Solaris V10 on SPARC
- Oracle Solaris V10 (32-bit) on x86 (System x)
- Windows Server 2003 (32-bit) Standard or Enterprise Edition, (Service Pack 2, or later)

- Windows Server 2003 RC2 (32-bit) Standard or Enterprise Edition, (Service Pack 1, or later)
- Windows Server 2008 (32-bit) Standard or Enterprise Edition
- Windows Server 2003 (64-bit) Standard or Enterprise Edition, (Service Pack 2, or later)
- Windows Server 2003 RC2 (64-bit) Standard or Enterprise Edition, (Service Pack 1, or later)
- Windows Server 2008 (64-bit) Standard or Enterprise Edition
- Windows Server 2008 RC2 (64-bit) Standard or Enterprise Edition

Client platforms (in addition to the server platforms)

- AIX 5.2 with Maintenance Level 3
- Linux for System x (32-bit): Red Hat Enterprise Linux (RHEL) V4.0 Update 8, or later
- Linux for System x (64-bit): Red Hat Enterprise Linux (RHEL) V4.0 Update 3, or later
- Oracle Solaris V8 (with SunSolve-recommended Patch Cluster level) on SPARC
- Oracle Solaris V9 (with SunSolve-recommended Patch Cluster level) on SPARC
- Microsoft Windows 2000 (32-bit) Server
- Microsoft Windows 2000 (32-bit) Professional
- Microsoft Windows 7 (64-bit) Professional
- Microsoft Windows 7 (64-bit) Ultimate Edition
- Microsoft Windows Vista (32-bit) Business Edition
- Microsoft Windows Vista (64-bit) Business Edition
- Microsoft Windows XP Professional (32-bit) (Service Pack 2, or later)

Databases supported for stand-alone audit log archiving capability:

- AIX 6.1: IBM DB2® V9.5 or Oracle 11g
- AIX 5.3: IBM DB2 V9.1
- Microsoft Windows 2003 (32-bit) Standard or Enterprise Edition: DB2 9.1, DB2 9.5, or Oracle 10.2
- Microsoft Windows XP (32-bit): DB2 9.1, DB2 9.5, or Oracle 10.2
- Linux for System x (32-bit): Red Hat Enterprise Edition Linux (RHEL) V5.3 with DB2 9.5, or Oracle 11 Linux for System z (64-bit): SUSE Linux Enterprise Server (SLES) V10 with Service Pack 1 or later, with Oracle 10.2
- Oracle Solaris V10 on SPARC: Oracle 11g
- z/OS: DB2 8.1, DB2 9.1

Databases and JEE servers supported for JEE audit log archiving capability

- Microsoft Windows XP Professional (32-bit) with SP2, with WebSphere Application Server V7.0.0.11 or later, with DB2 V9.5 or DB2 V9.7
- Linux for System x (32-bit): Red Hat Enterprise Linux (RHEL) V5.2, V5.3, V5.4, with WebSphere Application Server V7.0.0.11 or later, with DB2 V9.5 or DB2 V9.7
- Linux for System x (32-bit): SUSE Linux Enterprise Server (SLES) V10 with Service Pack 1, or later with WebSphere Application Server V7.0.0.11 or later, with DB2 V9.5 or DB2 V9.7
- Linux for System x (32-bit): SUSE Linux Enterprise Server (SLES) V11 with WebSphere Application Server V7.0.0.11 or later, with DB2 V9.5 or DB2 V9.7
- Microsoft Windows XP (32-bit) Professional: with WebSphere Application Server Community Edition V2.1 with DB2 V9.5 or DB2 V9.7
- Linux for System x (32-bit): Red Hat Enterprise Edition Linux (RHEL) V5.3, V5.4, with WebSphere Application Server Community Edition V2.1, with DB2 v9.5 or DB2 V9.7

- Linux for System x (32-bit): SUSE Linux Enterprise Server (SLES) V10 with Service Pack 2 or 3, with WebSphere Application Server Community Edition V2.1, with DB2 v9.5 or DB2 V9.7
- Linux for System x (32-bit): SUSE Linux Enterprise Server (SLES) V11, with WebSphere Application Server Community Edition V2.1, with DB2 v9.5 or DB2 V9.7

To run the Web Gateway capability for monitoring the outcomes of transfers:

- Microsoft Windows XP Professional (32-bit) with SP2, with WebSphere Application Server V7.0.0.11, or later
- Linux for System x (32-bit): Red Hat Enterprise Linux (RHEL) V5.2, V5.3, V5.4, with WebSphere Application Server V7.0.0.11, or later
- Linux for System x (32-bit): SUSE Linux Enterprise Server (SLES) V10 with Service Pack 1, or later with WebSphere Application Server V7.0.0.11, or later
- Linux for System x (32-bit): SUSE Linux Enterprise Server (SLES) V11 with WebSphere Application Server V7.0.0.11, or later
- Microsoft Windows XP (32-bit) Professional: with WebSphere Application Server Community Edition V2.1
- Linux for System x (32-bit): Red Hat Enterprise Edition Linux (RHEL) V5.3, V5.4, with WebSphere Application Server Community Edition V2.1
- Linux for System x (32-bit): SUSE Linux Enterprise Server (SLES) V10 with Service Pack 2 or 3, with WebSphere Application Server Community Edition V2.1
- Linux for System x (32-bit): SUSE Linux Enterprise Server (SLES) V11, with WebSphere Application Server Community Edition V2.1

Note: The Web Gateway capability for monitoring the outcomes of transfers also requires the installation of either the stand-alone audit log archiving or JEE audit log archiving capability. Refer to the preceding sections to determine the hardware and software requirements for these capabilities.

To run the Web Gateway capability for exchanging files between end-users and WebSphere MQ File Transfer Edition agents:

- Microsoft Windows XP Professional (32-bit) with SP2, with WebSphere Application Server V7.0.0.11, or later, with DB2 V9.5 or DB2 V9.7
- Linux for System x (32-bit): Red Hat Enterprise Linux (RHEL) V5.2, V5.3, V5.4, with WebSphere Application Server V7.0.0.11, or later, with DB2 V9.5 or DB2 V9.7
- Linux for System x (32-bit): SUSE Linux Enterprise Server (SLES) V10 with Service Pack 1, or later, with WebSphere Application Server V7.0.0.11, or later, with DB2 V9.5 or DB2 V9.7
- Linux for System x (32-bit): SUSE Linux Enterprise Server (SLES) V11 with WebSphere Application Server V7.0.0.11, or later, with DB2 V9.5 or DB2 V9.7
- Microsoft Windows XP (32-bit) Professional: with WebSphere Application Server Community Edition V2.1, with DB2 V9.5 or DB2 V9.7
- Linux for System x (32-bit): Red Hat Enterprise Edition Linux (RHEL) V5.3, V5.4, with WebSphere Application Server Community Edition V2.1, with DB2 V9.5 or DB2 V9.7
- Linux for System x (32-bit): SUSE Linux Enterprise Server (SLES) V10 with Service Pack 2 or 3, with WebSphere Application Server Community Edition V2.1, with DB2 V9.5 or DB2 V9.7
- Linux for System x (32-bit): SUSE Linux Enterprise Server (SLES) V11, with WebSphere Application Server Community Edition V2.1, with DB2 V9.5 or DB2 V9.7

For the most up-to-date list of system requirements please consult the WebSphere MQ File Transfer Edition system requirements web page, visit:

<http://www.ibm.com/software/integration/wmq/filetransfer/requirements/>

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.

Compatibility

WebSphere MQ File Transfer Edition V7.0.3 products interoperate with servers and clients from any previous level of WebSphere MQ File Transfer Edition.

Planning information

Direct customer support

Direct customer support is provided for WebSphere MQ File Transfer Edition 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

WebSphere MQ File Transfer Edition for z/OS V7.0.3

The package contains:

- WebSphere MQ File Transfer Edition for z/OS 3480 tape cartridge (uncompressed)
- Program Directory (GI13-0530)
- License Information booklet (GC34-6980)
- Documentation and Tools DVD (LCD7-1801)
- IPLA booklet (Z125-3301)

WebSphere MQ File Transfer Edition V7.0.3

The package contains:

- WebSphere MQ File Transfer Edition platform-specific server CDs and client CDs
- WebSphere MQ V7.0 CDs
- WebSphere MQ File Transfer Edition Documentation and Tools DVD
- Quick Start CD
- Printed Quick Start Guide

Security, auditability, and control

WebSphere MQ File Transfer Edition products use the security and auditability features of the host 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

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

These products may only be sold directly by IBM or by authorized IBM Business Partners for Software ValueNet®.

For more information about IBM Software ValueNet, visit

http://www-01.ibm.com/software/lotus/passportadvantage/IBM_SW_ValueNet.html

To locate IBM Business Partners for Software ValueNet in your geography for a specific Software ValueNet portfolio, contact your IBM representative.

Product group: Application and Integration Middleware

Product Identifier Description (PID)

WebSphere MQ File Transfer Edition for z/OS (5655-U80)

WebSphere MQ File Transfer Edition (5724-R10)

Product category: Application Connectivity

Charge metric

Program name	Part number or PID number	Charge metric Value Unit
WebSphere MQ File Transfer Edition for z/OS v7.0.3	5655-U80	
WebSphere MQ File Transfer Edition v7.0.3	5724-R10	Processor Value Unit Client Device

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) 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 cores¹ 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

- 1** 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.

Client Device

Client Device is the unit of measure by which the Program can be licensed. A Client Device is a single user computing device or special purpose sensor or telemetry device that requests the execution of or receives for execution a set of commands, procedures, or applications from or provides data to another computer system that is typically referred to as a server or is otherwise managed by the server. Multiple Client Devices may share access to a common server. A Client Device may have some processing capability or be programmable to allow a user to do work.

Examples include, but are not limited to actuators, appliances, automated teller machines, automated meter reading, cash registers, disk drives, desktop computers, kiosks, notebook computers, personal digital assistant, point-of-sale terminals, sensors, smart meters, tape drives, and technical workstations.

Licensee must obtain entitlements for every Client Device which runs, provides data to, uses services provided by, or otherwise accesses the Program and for every other computer or server on which the Program is installed.

Web Gateway

This update adds a new web transfer capability enabled component called the Web Gateway which is deployed alongside a suitable, supported JEE Application Server. WebSphere MQ File Transfer Edition Server licenses are required wherever the Web Gateway component is deployed, regardless of whether other program components are also used on a given machine. This license includes the entitlement to deploy the Extended Transactional Client component of WebSphere MQ, as supplied with the Program.

Entitlements for WebSphere MQ File Transfer Edition Server are required in order to use the Web Gateway component supplied with the Program. Entitlements for WebSphere MQ File Transfer Edition Clients are not sufficient to use the Web Gateway. In that case, licenses for WebSphere MQ File Transfer Edition Server must be acquired.

No product licenses are required in order to connect web applications and web browsers into the Web Gateway.

The z/OS program in this announcement has Value Unit-based pricing.

Program Number	Program Name	Value Unit Exhibit
5655-U80	WebSphere MQ File Transfer Edition for z/OS V7.0.3	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.

WebSphere MQ File Transfer Edition for z/OS

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>

Passport Advantage trade up

Below is a list of precursor products for which you must have already acquired a license, in order to be eligible to acquire equivalent licenses using the trade-up part number.

Precursor product	Trade up product	Trade-up part number
WebSphere MQ PVU License and SW S&S 12 Months	WebSphere MQ File Transfer Edition Processor Value Unit (PVU)	D04XALL
Qualified Competitor Tradeup License and SW S&S 12 Months	WebSphere MQ File Transfer Edition Processor Value Unit (PVU)	D05DHLL
Qualified Competitor Client Device License and Software S&S 12 Months	WebSphere MQ File Transfer Edition Client Device	D05DILL
WebSphere MQ for Linux on System z Processor Value Unit (PVU)	WebSphere MQ File Transfer Edition for Linux on System z Processor Value Unit (PVU) Trade Up from WebSphere MQ for Linux on System z Processor Value Unit (PVU) License and Software S&S 12 Months	D04XILL
Qualified Competitor Trade-up License and Software S&S 12 Months	WebSphere MQ File Transfer Edition Linux on System z Processor Value Unit (PVU)	D090PLL
Qualified Competitor Trade-up License and Software S&S 12 Months	WebSphere MQ File Transfer Edition Linux on System z Client Device	D090QLL

Consult your IBM representative if you have any questions.

Passport Advantage customer: Media pack entitlement details

Customers with active maintenance or subscription for the products listed are entitled to receive the corresponding media pack.

Entitled maintenance offerings description	Part number
WebSphere MQ File Transfer Edition V7.0.3	BA0ZHML
WebSphere MQ File Transfer Edition Processor Value Unit License + Software S&S 12 Months	D0453LL
WebSphere MQ File Transfer Edition Processor Value Unit Annual Software S&S Renewal	E04VPLL
WebSphere MQ File Transfer Edition Processor Value Unit Software S&S Reinstatement 12 Months	D0454LL
WebSphere MQ File Transfer Edition Processor per Day OoCoD Temporary Use Charge	D044ELL

WebSphere MQ File Transfer Edition Client Device License and Software S&S 12 Months	D045FLL
WebSphere MQ File Transfer Edition Client Device Annual Software S&S Renewal	E04VZLL
WebSphere MQ File Transfer Edition Client Device Software S&S Reinstatement 12 Months	D045GLL

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 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
WebSphere MQ File Transfer Edition for Linux on System z Processor Value Unit (PVU) License + Software S&S 12 Months	D0451LL
WebSphere MQ File Transfer Edition for Linux on System z Processor Value Unit (PVU) Software S&S Reinstatement 12 Months	D0452LL
WebSphere MQ File Transfer Edition for Linux on System z Processor Value Unit (PVU) Annual Software S&S Renewal	E04VLLL
WebSphere MQ File Transfer Edition for Linux on System z Client Device License + Software S&S 12 Months	D045HLL
WebSphere MQ File Transfer Edition for Linux on System z Client Device Software S&S Reinstatement 12 Months	D045ILL
WebSphere MQ File Transfer Edition for Linux on System z Client Device Annual Software S&S Renewal	E04W0LL

Basic license

On/Off Capacity on Demand (CoD)

WebSphere MQ File Transfer Edition for z/OS

The product is eligible for On/Off CoD with a temporary use charge calculated based on MSUs per-day usage.

Program name WebSphere MQ File Transfer Edition for z/OS V7.0.3
 Program PID 5655-U80

Entitlement identifier	Description	License option/Pricing metric
S0151SW	WebSphere MQ File Transfer Edition for z/OS V7.0.3	Basic OTC, Per MSU-day TUC

WebSphere MQ File Transfer Edition for z/OS

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: WebSphere MQ File Transfer Edition
for z/OS V7.0.3
Program PID: 5655-U80

Entitlement identifier	Description	License option/Pricing metric
S0151SW	WebSphere MQ File Transfer Edition for z/OS V7.0.3	Basic OTC, per Value Unit
Orderable supply ID	Language	Distribution medium
S014VNJ	English	3480 uncompressed tape cartridge
S016G9H	English	3590 Media

Note: Additional media type selections (3480 compressed, 3490E, 3590, 3592) are offered during Custom Build Offering ordering.

Subscription and Support PID: 5655-U81

Entitlement identifier	Description	License option/Pricing metric
S0151SV	WebSphere MQ File Transfer Edition for z/OS S&S	Basic ASC, per value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration
Orderable supply ID	Language	Distribution medium
S0151SS	English	Hardcopy pub

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. 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.

Terms and conditions for distributed products

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

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. Part number products only, offered outside of Passport Advantage, where applicable, are license only and do not include Software Maintenance.

This software license includes Software Subscription and Support (also referred to as Software Maintenance).

Agreement for Acquisition of Software Maintenance

The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) agreement applies for subscription and support (also referred to as 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. IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with the initial license acquisition of each program acquired. The initial period of Software Subscription and Support (also referred to as Software Maintenance) can be extended by the purchase of a renewal option, if available. 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

L-SBRY-83UF6R

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 technical support

Technical support of a program product will be available for a minimum of five years from the general availability date, as long as your Software Subscription and Support (also referred to as Software Maintenance) is in effect. This technical support allows you to obtain assistance (via telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Subscription and Support (Software Maintenance) also provides you with access to updates, releases, and versions of the program. You will be notified, via announcement letter, of discontinuance of support with 12 months' notice. If you require additional technical support from IBM, including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

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 (1) for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program and (2) 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

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.

IBM includes one year of Software Subscription and Support (Software Maintenance) with each program license acquired. The initial period of Software Subscription and Support (Software Maintenance) can be extended by the purchase of a renewal option, if available.

While your Software Subscription and Support (Software Maintenance) is in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions, and code-related questions. IBM provides assistance via telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your end users.) IBM provides Severity 1 assistance 24 hours a day, 7 days a week. For additional details, consult your *IBM Software Support Handbook* at

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

Software Subscription and Support (Software Maintenance) does not include assistance for the design and development of applications, your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under the applicable agreements.

For additional information about the International Passport Advantage Agreement and the IBM International Passport Advantage Express Agreement, visit the Passport Advantage website at

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

Yes. All distributed software licenses include Software Subscription and Support (also referred to as Software Maintenance) for a period of 12 months from the date of acquisition, providing a streamlined way to acquire IBM software and assure technical support coverage for all licenses. Extending coverage for a total of three years from date of acquisition may be elected.

Variable charges apply

No

Educational allowance available

Not applicable.

Terms and conditions for host products

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 subscription and support 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.

IBM System z Operational Support Services - SoftwareXcel is an option if you desire added services.

License Information form number

L-SBRY-83UF6R

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 technical support

Technical support of a program product will be available for a minimum of five years from the general availability date, as long as your Subscription and Support is in effect. This technical support allows you to obtain assistance (via telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Subscription and Support also provides you with access to updates, releases, and versions of the program. You will be notified, via announcement letter, of discontinuance of support with 12 months' notice. If you require additional technical support from IBM, including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

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

Yes

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-U80	WebSphere MQ File Transfer Edition for z/OS v7.0.3	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 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 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.

Sub-capacity utilization determination

Sub-capacity utilization is determined based on the product's own execution as reported to IBM in accordance with the requirements for reporting sub-capacity utilization for products.

On/Off Capacity on Demand (CoD)

To be eligible for On/Off CoD pricing, you must be enabled for temporary capacity on the corresponding hardware, and the required contract, Attachment for IBM System z On/Off Capacity on Demand (Z125-7883) must be signed prior to use.

IBM Electronic Services

IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a Web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM

on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

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

Prices

Business Partner information

If you are an IBM Business Partner -- Distributor for Workstation Software acquiring products from IBM, you may link to Passport Advantage Online for resellers where you can obtain Business Partner pricing information. An IBM ID and password are required.

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

Program name/Description	Part number
WebSphere MQ File Transfer Edition v7.0.3	BA0ZHML

For current prices, visit

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

Passport Advantage

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

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

Program name: WebSphere MQ File Transfer Edition for z/OS v7.0.3
 Program PID: 5655-U80

Entitlement identifier	Description	License option/Pricing metric
S0151SW	WebSphere MQ File Transfer Edition for z/OS v7.0.3	Basic OTC, per Value Unit
S0151SW	WebSphere MQ File Transfer Edition for z/OS v7.0.3	Basic OTC, per MSU-day TUC

Subscription and Support PID: 5655-U81

Entitlement identifier	Description	License option/Pricing metric
S0151SV	WebSphere MQ File Transfer Edition for z/OS S&S	Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration

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.

For current prices, visit

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

Choose the option entitled Purchase/upgrade tools.

Variable charges: The applicable processor-based one-time charge will be based on the group of the designated machine on which the program is licensed for use. If the program is designated to a processor in a group for which no charge is listed, the charge of the next higher group listed applies. For movement to a machine in a higher group, an upgrade charge equal to the difference in the then-current charges between the two groups will apply. For movement to a machine in a lower group, there will be no adjustment or refund of charges paid.

Passport Advantage

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

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

IBM Global Financing

IBM Global Financing offers competitive financing to credit-qualified customers to assist them in acquiring IT solutions. Offerings include financing for IT acquisition, including hardware, software, and services, from both IBM and other manufacturers or vendors. Offerings (for all customer segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or visit

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

IBM Global Financing offerings are provided through IBM Credit LLC in the United States, and other IBM subsidiaries and divisions worldwide to qualified commercial and government customers. Rates are based on a customer's credit rating, financing terms, offering type, equipment type, and options, and may vary by country. Other restrictions may apply. Rates and offerings are subject to change, extension, or withdrawal without notice.

Financing from IBM Global Financing helps you preserve cash and credit lines, enables more technology acquisition within current budget limits, permits accelerated implementation of economically attractive new technologies, offers payment and term flexibility, and can help match project costs to projected benefits. Financing is available worldwide for credit-qualified customers.

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).

Phone: 800-IBM-CALL (426-2255)
Fax: 800-2IBM-FAX (242-6329)
Internet: callserv@ca.ibm.com
Mail: IBM Teleweb Customer Support
ibm.com® Sales Execution Center, Americas North
3500 Steeles Ave. East, Tower 3/4
Markham, Ontario
Canada
L3R 2Z1

Reference: YE001

The Americas Call Centers, our national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

Note: Shipments will begin after the planned availability date.

IBM Software ValueNet

These products are available under IBM Software ValueNet, either directly from IBM or through authorized Business Partners who invest in skills and high-value solutions. IBM customers may benefit from the industry-specific or horizontal solutions, skills and expertise provided by these Business Partners.

Additions to Software ValueNet will be communicated through standard product announcements. For a current list of IBM software available under Software ValueNet, visit

http://www-01.ibm.com/software/lotus/passportadvantage/IBM_SW_ValueNet.html

Questions regarding IBM Software ValueNet may be sent to AskSoftwareValueNet@us.ibm.com

Trademarks

PR/SM, PowerVM, SupportPac, z/VSE and Electronic Service Agent are trademarks of IBM Corporation in the United States, other countries, or both.

WebSphere, IBM, z/OS, System z, AIX, System x, z/VM, DataPower, Tivoli, OMEGAMON, PartnerWorld, Global Business Services, i5/OS, DB2, Passport Advantage, ValueNet, Express, S/390, SystemPac, Parallel Sysplex, OS/390, z/Architecture, System z9 and ibm.com are registered trademarks of IBM Corporation in the United States, other countries, or both.

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

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

Intel and Itanium are registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

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

Other company, product, and service names may be trademarks or service marks of others.

Terms of use

IBM products and services which are announced and available in your country can be ordered under the applicable standard agreements, terms, conditions, and prices in effect at the time. IBM reserves the right to modify or withdraw this announcement at any time without notice. This announcement is provided for your information only. Additional terms of use are located at:

<http://www.ibm.com/legal/us/en/>

For the most current information regarding IBM products, consult your IBM representative or reseller, or visit the IBM worldwide contacts page

<http://www.ibm.com/planetwide/us/>