IBM MQSeries Integrator V2 Available on New Platforms

Overview

MQSeries® Family
The Internet continues to reach more and more households. Companies want to implement e-business rapidly.

MQSeries messaging is a simple way to couple systems together and to allow Internet users controlled access to legacy data, such as their account transactions. Business integration across many applications is also a common element of successful implementation.

MQSeries Integrator V2.0 has the tools to add value outside the message queuing paradigm to include application connectors and application collaboration.

MQSeries Integrator, V2
MQSeries Integrator V2.0 is central to the MQSeries portfolio. It helps you to create, deploy, and control message-based business solutions:

- Integrate existing applications with new e-business requirements
- Connect applications between enterprises and their suppliers

MQSeries Integrator V2.0 provides a rich range of tools, GUIs, message dictionaries, and enables third-party plug-ins. It supports XML, an emerging Internet standard. XML lets documents contain structured information, such as words, pictures, or sounds; or specific pieces of tagged information, such as delivery dates or zip codes.

Version 2 is an evolutionary step forward from MQSeries Integrator V1, and contains all of the V1 functionality. The new publish/subscribe function is compatible with the existing MQSeries V5 publish/subscribe offering.

The product is already available on the Windows NT™ platform, and includes the corresponding MQSeries base product necessary for its operation. Now integration opportunities are advanced significantly with availability on the Sun Solaris and AIX platform.

Note that the tools run on Microsoft® Windows NT; only the Message Broker and User Name Server run on the Sun Solaris or AIX platforms.

Details of MQSeries Integrator for Windows NT, V2.0 remain unchanged. Also, ordering details for MQSeries Integrator for AIX, V2.0 remain unchanged.


Key Prerequisites
Message Broker and Configuration Manager
MQSeries for AIX, V2.0
- AIX 4.3 only (not V4.2 as announced)

MQSeries for Sun Solaris, V2.0
- Sun Solaris 7
- DB2® V6.1 with ODBC

Transactional support is not available in this release on the following optional databases:
- Oracle, V7
- Oracle, 8.1 (8i)
- Sybase V11 or V12

Other Components
- Microsoft Windows NT, V4.0

At a Glance
Integrate, link, and extend your business applications with:
- Availability on Sun Solaris and AIX in addition to Windows NT
- Information modelling
- Routing and transformation
- Content-based publish/subscribe
- Visual tools
- Euro ready

Open, yet secure...MQSeries Integrator cross-platform middleware is scalable and manageable.

Span the divide between business processes and provide consistent information within and between enterprises.

Key Prerequisites
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- AIX 4.3 only (not V4.2 as announced)

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- Oracle, V7
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- Sybase V11 or V12

Other Components
- Microsoft Windows NT, V4.0

Planned Availability Date
August 25, 2000

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Reference: YE001

800-IBM-CALL

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Reference: YE001

Planned Availability Date
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200-071
Enhanced MQSeries Integrator technology extends V2 to the Sun Solaris and AIX platforms, in addition to the Windows NT platform already available.

MQSeries Integrator is a cross-platform middleware service—a powerful message broker—that manages:

- Business information and process models
- Information spaces and delivery networks and the subscription and distribution of information published in those spaces
- Information flow between decoupled business applications via rules external to the applications
- Message transformation; extending message-based business processes through operational policies and broker services

The MQSeries Integrator V2 product is also upward compatible with the rules and formatter capability of V1. Within the new enhancements is a new architecture based on the concept of a “processor node.” A library of function for these nodes is provided by IBM, but you can add function.

Additionally, the V2 product has close synergy with relational database technology for message augmentation, warehousing, and message flow tools.

Dynamic publish/subscribe offers the full level of MQSeries integrity. The advanced message format dictionary and manipulation tools support multiple formats including XML, plug-ins, and third-party dictionaries and formats.

MQSeries Integrator V2.0 uses MQSeries to carry messages. It simplifies the complexity of connections between applications by establishing a hub through which:

- Messages pass
- Operations on messages can be performed
- Enterprise-defined rules can be intelligently applied

Operations on messages include:

- Filtering
- Computation from message content
- Generating messages by data extraction from databases
- Directing messages to the dynamic Integrator publish/subscribe function

Reformatting works dynamically with the rules component to parse, map, and reformat messages by using on-the-fly conversions and transformations.

Message formats can be self-defining using XML or defined using an IBM-provided format repository or third-party message dictionaries. Predefined templates mean MQSeries Integrator V2.0 can exchange information with major packaged applications.

**Features of MQSeries Integrator**

- **Configurable data flow framework** allows filter operations and manipulation of message content
  - Extraction of databases (DB2, Oracle, and Sybase on AIX and Sun Solaris)
  - Delivery of messages to dynamic (client controlled) subscribers
  - Warehousing
  - Invocation of third-party message processing capabilities

- **GUI tools** define, deploy, and administer the message processing services that act on a message stream. A visual builder for designing message processing services is included. These services can be updated while the broker is active to respond to changing business needs and allow continuous online operation. A graphical editor for defining publish/subscribe broker topology is also included (runs on the Windows NT platform).

- **Publish/subscribe service** includes:
  - Routing a message to interested subscribers on both the message topic and content
  - Authorization based on hierarchically structured topic-name space
  - Support for flexible multiple-broker network topology for publish/subscribe use
  - Compatibility with MQSeries V5 base publish/subscribe function allows interoperation or interception of base messages

- **Compliance with industry standards** such as XML and SQL

- **Self-defining messages with XML syntax** and messages defined through a dictionary—the IBM-provided dictionary, the New Era of Networks dictionary provided with MQSeries Integrator V1, or third-party dictionaries, such as Mercator.

- **National language messages**, including DBCS, flow through the system (user messages and GUI panels are in U.S. English)

**Benefits of MQSeries Integrator**

- Bridges and adapts between mixed application environments using industry-standard protocols and technologies
- Simplifies programming of application messaging with new higher-level language interfaces
- Enables use of the facilities that support each of these activities, together or individually
- Supports clients using the MQSeries MQI API
- Supports clients built using a new MQSeries Application Messaging Interface (AMI)

AMI V1.0 is available from the MQSeries Web site. The AMI is a new high-level MQSeries API for use with MQSeries messaging and MQSeries Integrator V2.0. It enables the development of applications that are unaware of the transport method in use. The current version of the AMI is being updated to generate MQRFH headers for publish/subscribe understood by MQSeries Integrator V2.0 so the AMI publish/subscribe APIs are available.
MQSeries Integrator V2.0 includes a full licence for MQSeries and the functionality of MQSeries Integrator Version 1, on the corresponding platform.

Refer to Technical Information for amended AIX requirements.

Transaction Processing SupportPacs

The IBM Transaction Processing SupportPacs library consists of material that complements the family of MQSeries products marketed by IBM. Each SupportPac™ supplies a particular function or service that can be used with one or more of the MQSeries products. The Transaction Processing SupportPacs library is available on the Internet at URL:

http://www.ibm.com/software/mqseries/txppacs

Year 2000

This product is Year 2000 ready. When used in accordance with its associated documentation, it is capable of correctly processing, providing, and/or receiving date data within and between the twentieth and twenty-first centuries, provided that all products (for example, hardware, software, and firmware) used with the product properly exchange accurate date data with it.

The service end date for this Year-2000-ready product is December 31, 2002.

Product Positioning

Industry trends and business drivers, such as e-business and supply chain integration, drive your need to link and extend existing and new business systems rapidly.

The MQSeries Message Broker strategy and product family represents IBM’s response to this market need.

A part of the MQSeries Integrator V2.0 initiative addresses business and application integration by helping you manage information flow with:

- Additional platform support
- Information modeling
- Routing and transformation
- Publish/subscribe

System connectivity is typically enhanced into application integration by developers who write code to capture, evaluate, translate, and reformat data from source applications to a format understood by destination applications.

MQSeries Integrator V1, already available on this platform, is a toolkit that greatly simplified the burden of creating mutual understanding between source and receiving applications. Additionally, the rules engine can test the content of messages and modify flow including rerouting, creating additional messages, or similar business automation activities.

Compare MQSeries Integrator V2.0 to V1:

- Backward compatibility with rules, formats, and templates
- Publish/subscribe function compatible with the existing MQSeries publish/subscribe offering, and with a high level of service, including subject/content distribution and static/dynamic subscription
- Compatibility with higher levels of integration including workflow and “state” management systems
- Compatibility and exploitation of host directory, warehousing, or transactional capability
- Compatibility with relevant standards, such as OMG, EJIM, XML/EDI, and ERP formats

Advantages of MQSeries Integrator, V2:

- Protects your investment in V1 (included in V2)
- Allows multiple uses with parallel operation across multiple brokers
- Simplifies support of multiple environments with multiple application adapters, templates, and tools
- Programmed easily via the AMI (available separately)
- Extensible via an architecture framework published with specifications for how alternative rules, formats, warehouse, directory, security, encryption, compression, or other services may be attached

Positioning with WebSphere™ Transcoding Publisher

- WebSphere Transcoding Publisher is primarily focused on transforming Web-based content so that it can be delivered to a variety of client environments and devices according to the capability of the device, type of connection, and customized selections.

For example, WebSphere Transcoding Publisher can transform and adapt XML- and HTML-based documents and images to many target environments.

MQSeries Integrator and WebSphere Transcoding Publisher can work together to extend your business-to-business integration to new environments such as pervasive devices.

For example, MQSeries Integrator could be used alongside WebSphere Transcoding Publisher to deal directly with HTML-based pages that needed both reformatting and routing.

Reference Information

Refer to Software Announcement 200-070, dated April 4, 2000, for more information on further MQSeries family enhancements.


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**Education Support**

The appropriate curriculum will be updated, as necessary, to include the enhancements described in this announcement.

Details of the education support will be provided by planned availability through separate education announcement.

Descriptions of all classroom and self-study courses are available.

For MQSeries® courses, access:

http://www.ibm.com/software/mqseries

Call IBM Learning Services in the U.S. at 800-IBM-TEACH (426-8322) for education catalogs, schedules, and enrollments.

**Offering Information**

Product Information is available through Offering Information (OITOOL) at:

http://www.ibm.com/wwoi

**Publications**

An MQSeries Integrator for Sun Solaris Installation Guide and MQSeries for Sun Solaris Quick Beginnings are included with these programs. The following books are shipped on the product CD-ROM in PDF format only:

<table>
<thead>
<tr>
<th>Description</th>
<th>Hardcopy</th>
<th>In box?</th>
<th>PDF on CD?</th>
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<tr>
<td><strong>MQSeries Integrator</strong></td>
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<tr>
<td>For Sun Solaris Installation Guide</td>
<td>GC34-5842</td>
<td>Yes</td>
<td>Yes</td>
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<td>Introduction and Planning</td>
<td>GC34-5599</td>
<td>No</td>
<td>Yes</td>
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<tr>
<td>Using the Control Center</td>
<td>PDF only</td>
<td>No</td>
<td>Yes</td>
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<tr>
<td>Administration Guide</td>
<td>PDF only</td>
<td>No</td>
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<tr>
<td>Messages</td>
<td>PDF only</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Programming Guide</td>
<td>PDF only</td>
<td>No</td>
<td>Yes</td>
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</table>

PDF files can be downloaded from the Web after availability.

Other MQSeries family books are included on the MQSeries V5.1 CD.

Hardcopy books can be ordered from country program libraries after planned availability. To order, contact your IBM representative.

**Related Books: Family**

<table>
<thead>
<tr>
<th>Title</th>
<th>Order Number</th>
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<tbody>
<tr>
<td>MQSeries Planning Guide</td>
<td>GC33-1349</td>
</tr>
<tr>
<td>MQSeries Application Programming Guide</td>
<td>SC33-0807</td>
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<tr>
<td>MQSeries Application Programming Reference</td>
<td>SC33-1673</td>
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<td>MQSeries Programmable System Management</td>
<td>SC33-1482</td>
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<td>MQSeries Command Reference</td>
<td>SC33-1369</td>
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<td>MQSeries Intercommunication</td>
<td>SC33-1872</td>
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<td>MQSeries Introduction to Messaging and Queuing</td>
<td>GC33-0805</td>
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<tr>
<td>MQSeries Messages</td>
<td>GC33-1876</td>
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<td>MQSeries Planning Guide</td>
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<td>MQSeries System Administration</td>
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<td>MQSeries Using C++</td>
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<td>MQSeries Clients</td>
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<td>MQSeries Queue Manager Clusters</td>
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<td>MQSeries Brochure</td>
<td>G511-1908</td>
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<tr>
<td>MQSeries Using Java™</td>
<td>SC34-5456</td>
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<tr>
<td>MQSeries Administration Interface</td>
<td>SC34-5390</td>
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<tr>
<td>Programming Guide and Reference Directory</td>
<td></td>
</tr>
<tr>
<td>MQSeries Business Partner</td>
<td>GC34-5440</td>
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</tbody>
</table>

Additional hardcopy documentation can be ordered separately for a fee.

**Displayable Softcopy Publications:** MQSeries Integrator manuals are offered in displayable softcopy form.

The displayable manuals are part of the basic machine-readable material. The files are shipped on the same media type as the basic machine-readable.

These displayable manuals are available in PDF format, and some are also available in HTML format.

**Technical Information**

**Hardware Requirements:** Any Year-2000-ready vendor hardware explicitly compatible and fully capable of running the specified operating system, the corresponding supporting software and associated applications unmodified. Responsibility to provide statement of full compatibility between machines lies with the original equipment provider.

**Server Products**

- IBM RS/6000 processor machines (MQSeries Integrator for AIX)
- Sun Microsystems SPARC processor machines (MQSeries Integrator for Sun Solaris)
Software Requirements: Refer to the MQSeries home page for the latest information:

http://www.ibm.com/software/mqseries

MQSeries Integrator V2.0

Operating System for Message Broker and User Name Server
- AIX 4.3 (MQSeries Integrator for AIX)
- Sun Solaris 7 (MQSeries Integrator for Sun Solaris)

Operating System for Other Components
- Microsoft® Windows NT® Workstation, V4
- Microsoft Windows NT Server, V4

Databases Supported
- DB2® V6.1 with ODBC driver
  Transactional support is not available in this release on the following optional databases:
  - Oracle, V7
  - Oracle, 8.1 (8i)
  - Sybase V11 or V12

Interoperability: For details on MQSeries family platforms, messaging links, gateways and interfaces, MQSeries Integrator platforms, MQSeries Workflow platforms, and additional information, access:


Limitations: MQSeries Integrator, V2.0 is available in U.S. English only. It is not translated to other languages in this release.

Planning Information

MQSeries Integrator, V2.0

Upgrade to Version 2: Passport Advantage Subscription customers with MQSeries Integrator V1 can obtain upgrades to MQSeries Integrator V2.0 up to their currently authorized level of use.

Use of Components on Separate Machines: MQSeries Integrator V2.0 consists of several components:
- Message broker
- Configuration manager
- User Name Server
- Database manager
- New Era of Networks formatter and rules
- Control center

Each component may be installed on only a single machine at any one time under the terms of the MQSeries Integrator V2.0 license, except for the Control Center, which may be installed on multiple machines provided that they are all used in conjunction with the same message broker machine.

It is the use of the Message Broker component that determines which MQSeries Integrator product is required. Users of MQSeries Integrator for AIX, V2 may run only the message broker on the RS/6000 platform. Users of MQSeries Integrator for Sun Solaris, V2.0 may only run the Message Broker on Sun Microsystems SPARC processor machines.

Developer Licenses: Developer licenses are only available on the Windows NT platform to develop and test MQSeries Integrator V2.0 applications and flows. They may not be used for production use. Developer licenses include one capacity unit.

The Development license entitles users to develop and test MQSeries Integrator applications, but not to deploy them or to use them in production.


To upgrade from a current authorized Development License to the corresponding full MQSeries Integrator license obtain the Upgrade to Full License with the appropriate number of capacity units part number.

Customer Responsibilities: You must provide at least the minimum hardware and software environments in which the licensed programs operate.

Customers must identify the machine on which they will install the MQSeries Integrator products, and purchase the required number of capacity units with their program package order.

Problem determination (PD) is a customer responsibility. PD is an assessment of whether a problem is caused by hardware or software. PD is complete only when the cause of the problem is identified. This assessment includes examination of available symptoms using the PD procedures documented in the product.

Problem source identification (PSI) is a customer responsibility. PSI begins when software is determined to be the source of the problem. PSI includes tracing the source of the program to a host system control program (SCP), an application program, or another source. Assisting the customer with PSI is an IBM service and support responsibility.

Installability: Users of MQSeries Integrator, V1 may continue to use message format definitions developed for this product.

Message transactional support is only provided for the UDB (DB2) database.

Packaging: Media is on CD-ROM only. It contains program code, PDF files of the publications for viewing online, and HTML files for selected publications. It also contains the complete appropriate MQSeries product necessary to run MQSeries Integrator V2.0, or for other use, and a restricted version of DB2 Universal Database®. Customers may also use the product with an existing version of DB2, and can move to a full version of DB2 at any time for an additional charge.

The package contains:
- MQSeries Integrator V2 (2 CD-ROMs)
- MQSeries V5.1 CD-ROM
- MQSeries V5.1 Clients CD-ROM
- IBM International Program License Agreement
- License Information
- Proof of Entitlement
- MQSeries Integrator V2.0 Installation and Configuration Guide
- Relevant MQSeries Quick Beginnings manual
- MQSeries Integrator Workstation Processor Group List

Security, Auditability, and Control

MQSeries uses the security and auditability features of the workstation operating system.
In addition, MQSeries implements a level of security including access control of queues and authorization identification between message queue managers.

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

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**Ordering Information**

Program package and optional features available in one packs only. Separate capacity units are available in packs of one. There is no change to ordering information for MQSeries Integrator for AIX®, V2.0 or MQSeries for Windows NT, V2.0.

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Part Number</th>
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<tr>
<td>1 MQSI Capacity Unit Pack</td>
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**Program Packages**

**MQSeries Integrator for Sun Solaris, V2.0**

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**Upgrade Protection (Entitled Customers)**

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<tr>
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<td>Windows NT and Oracle, V1</td>
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<td>Windows NT and DB2, V1 Dev. License</td>
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</table>

1 No HP-UX product has been announced for Version 2.

Customers entitled to upgrade protection may convert capacity units from V1 to entitle use of V2. Capacity units allow customers to change use of the product from one platform to another. Refer to the following URL for details of capacity unit transfer, and to the MQSeries Integrator Processor Group List (GC34-5519) as reference.

http://www.ibm.com/software/mqseries/

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**Terms and Conditions**

**Licensing:** IBM International Program License Agreement. Proofs of Entitlement (PoE) are required for all authorized use.

Refer to the section on planning information for the use of components on separate machines.

**Limited Warranty:** Yes

**Program Services**

**MQSeries Integrator for Sun Solaris, V2:** Available until December 31, 2002

**Money-Back Guarantee:** 60-day, money-back guarantee

**Copy and Use on Home/Portable Computer:** No

**Volume Orders (IVO):** No

**Passport Advantage Applies:** Yes

**Passport Advantage Subscription Applies:** Yes
**Usage Restriction:** Yes
Processor-based usage

**Support Line:** Yes

**AIX/UNIX® Upgrade Protection Applies:** No

**Entitled Upgrade for Current AIX/UNIX Upgrade Protection Licensees:** No

**AS/400® Software Subscription Applies:** No

**Variable Charges Apply:** Yes. Refer to MQSeries Integrator Processor Group list.

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### Charges

Contact your IBM representative for charges information for this announcement.

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### Order Now

Use Priority/Reference Code: YE001

**Phone:** 800-IBM-CALL  
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**Internet:** ibm_direct@us.ibm.com  
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Dept. YE001  
P.O. Box 2690  
Atlanta, GA 30301-2690

You can also contact your local IBM Business Partner or IBM representative. To identify them, call 800-IBM-4YOU.

**Note:** Shipments will begin after the planned availability date.

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**Year 2000 Readiness Disclosure**