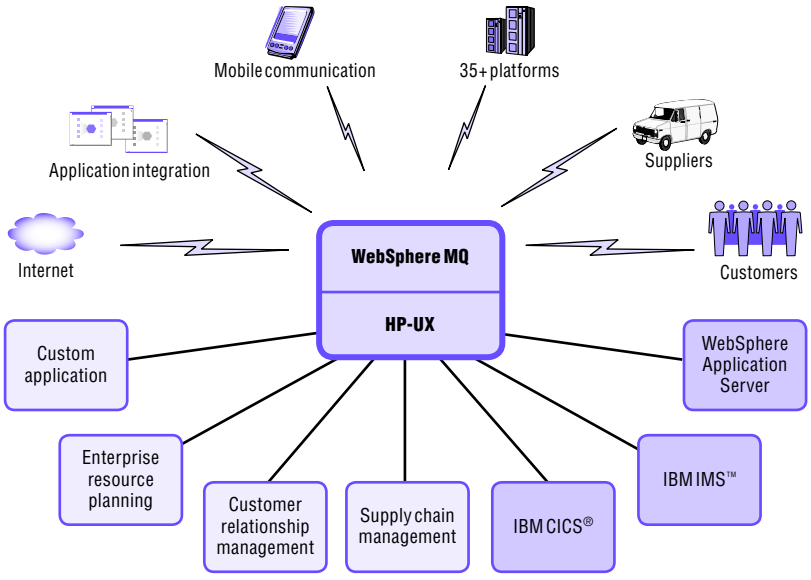
WebSphere® software

# WebSphere MQ for HP-UX, Version 5.3

## Highlights

- ***Transports data between more than 35 WebSphere MQ and MQSeries platforms, allowing encryption if required***
- ***Supports clusters of queue managers to simplify administration, workload balancing and communication failover***
- ***Enables participation in publish and subscribe as part of a WebSphere MQ publish and subscribe network***
- ***Provides three high-level-language APIs: MQ API, JMS and downloadable Application Messaging Interface (AMI)***




*WebSphere MQ for HP-UX, Version 5.3 enables business applications to exchange information across different platforms.*

In today's fast-paced business environment, you need to use your skills to handle key business requirements instead of wrestling with underlying network complexities. IBM WebSphere® MQ messaging products enable application integration and assure once-only delivery of important messages. They deal with communication protocols, as well as dynamically distribute workload across available resources. And they can handle recovery after system problems and help make programs portable. Offloading these time-consuming tasks to reliable WebSphere MQ application integration software frees you to complete work that is critical to your organization.

**A common API for simpler integration**

WebSphere MQ provides a common, multiplatform application programming interface (MQ API) that enables application integration and makes programs portable. It helps business applications exchange information — sending and receiving data as messages — across different platforms. A key feature of WebSphere MQ is time-independent processing — messages are stored reliably for later delivery, even if one of the recipients is temporarily unavailable. Using WebSphere MQ to send and receive messages allows your HP-UX system to integrate applications on diverse platforms, enabling participation in business process integration. You can further tailor your WebSphere MQ installation by downloading many official product extensions from the Web, at no charge.

**WebSphere MQ for HP-UX, Version 5.3**

IBM WebSphere MQ for HP-UX, Version 5.3 uses sophisticated security using Secure Sockets Layer (SSL), the Internet standard for secure communication. There are enhanced features for performance — especially for Java® Message Service (JMS), system scalability and reliability — which are particularly useful for clustering of systems that can share workload. It is now possible for programmers to use API exits to allow monitoring or for local standards to be implemented. WebSphere MQ for HP-UX, Version 5.3 maintains compatibility with the previous release — IBM MQSeries® for HP-UX, Version 5.2.

WebSphere MQ messaging forms the key business integration layer of the WebSphere software platform for e-business.

## IBM WebSphere MQ for HP-UX, Version 5.3 at a glance

| | |
|---|---|
| **Hardware requirements** | |
| System | • Any Year 2000-compliant Hewlett Packard PA-RISC (1.1 or later) hardware that is explicitly compatible and fully capable of running the specified operating system, all the corresponding supporting software shown below and any associated unmodified applications. Responsibility to provide statement of full compatibility between machines lies with the original equipment provider. |
| Connectivity | • Communication hardware supporting Systems Network Architecture (SNA) LU 6.2 and TCP/IP |
| **Software requirements** | |
| Operating environment | • HP-UX, Version 11.0, with relevant Year 2000 fixes or HP-UX, Version 11i (11.11) |
| *Note: SSL support on HP-11i will be available through a service upgrade.* | |
| WebSphere MQ clients | • Software requirements are identical for server and client HP-UX environments unless otherwise stated. |
| Connectivity | • HP SNAplus2<br>• TCP/IP as part of the base operating system |
| Options | • External transaction processing managers (coordination through X/Open XA interface, server only)<br>– IBM WebSphere Application Server, Version 4.0<br>– BEA Tuxedo, Version 6.4 or 6.5<br>• Databases (server only) as a resource manager under MQ coordination<br>– IBM DB® Universal Database™, Version 7.1 or 7.2<br>– Oracle 8i, Release 3 or Oracle 9i |
| Distributed Computing Environment (DCE) | • HP DCE/9000 version appropriate for the level of HP-UX operating system in use |
| *Note: To enable users to run the MQ-supplied DCE send, receive or message exits, this must be the U.S. domestic version supporting DES encryption. Also, it is critical to apply HP service. Patches are listed in the Release Note delivered with the HP DCE software. For the latest information, contact the local HP support center.* | |
| Supported languages and compilers | • HP-UX ANSI C compiler<br>• C Softbench, Version 7<br>• aC++ (aCC) A.03.27 or A.03.30<br>• Micro Focus Server Express, Version 2.0.10<br>• Fully patched HP DCE/9000 application development tools (see preceding section) |
| **WebSphere MQ requirements for Java applications** | |
| WebSphere MQ classes for JMS (supplied in the product) | • To run MQ for Java, you need the following:<br>– WebSphere MQ as supplied in the product<br>– Java 2 Software Development Kit (JDK) or Java Runtime Environment (JRE) for the server and/or client platforms<br>• To run Publish/Subscribe applications, you need one of the following:<br>– SupportPac MA0C: MQSeries — Publish/Subscribe<br>– IBM WebSphere Integrator, Version 2 |
| *Note: If a TCP/IP client connection is used, the application does not have to reside on the system hosting the WebSphere MQ server.* | |
| Programming and JREs | • HP-UX SDK, for the Java platform, Version 1.3.1 |
| *Note: For full provision of SSL authentication to enable WebSphere MQ Java and JMS applications to benefit from secure connection to the queue manager (authentication, message integrity, data encryption), a platform JRE at Version 1.4.0 is required. For details on IBM Developer Kits refer to* **ibm.com**/developerworks/java. | |
| Clients | • Clients for this and other WebSphere MQ platforms are supplied with this product. |
| **Program information** | |
| | • Program number: 5724-B41<br>• Part number: BA05SML<br>• Language features: multilingual<br>• Available as media packs or software download |

**Business integration building blocks**

With the IBM WebSphere MQ family, you can combine business integration products and solutions selectively or build one upon the other to help integrate business processes within and across enterprises.

WebSphere MQ for HP-UX, Version 5.3 is part of the IBM WebSphere software platform for e-business — a set of integrated, award-winning e-business solutions. No matter where you are in the e-business cycle, the WebSphere software platform can allow you to grow — at the speed the market demands.

Building on this robust platform, you can connect diverse IT environments to maximize your current investments and leverage existing skills with a full range of business integration solutions from the IBM WebSphere MQ family of products.

**For more information**

IBM WebSphere MQ for HP-UX, Version 5.3 is an integral middleware component of the WebSphere software platform for e-business. To learn more about the WebSphere MQ (formerly known as IBM MQSeries) family of products and how WebSphere MQ for HP-UX, Version 5.3 can help streamline the management of your e-business processes, visit:

**ibm.com**/mqseries

| Product | Function | Benefit |
|---|---|---|
| IBM WebSphere MQ | Messaging integration | Integrate applications across more than 35 platforms with assured once-only message delivery. |
| IBM WebSphere MQ Everyplace™ | Mobile integration | Securely extend your e-business integration to a mobile workforce. |
| IBM MQSeries Adapter Offering | Application adapters | Rapidly develop adapters to integrate custom applications. |
| IBM WebSphere Adapters | Packaged application adapters | Utilize prebuilt application adapters to integrate packaged software, like Ariba Buyer and SAP. |
| IBM WebSphere MQ Integrator | Wide-scale messaging integration | Enable dynamic, distributed, event-driven application integration. |
| IBM WebSphere Data Interchange | Electronic Data Integration (EDI) translation | Translate business information for exchange with trading partners. |
| IBM CrossWorlds Interchange Server | Process-based integration | Coordinate business applications across multiple processes. |
| IBM CrossWorlds Collaborations | Industry-specific solution templates | Leverage proven industry solutions for fast deployment. |
| IBM CrossWorlds Trading Partner Integration | Business-to-business integration | Automate supply-chain interaction through a gateway for business-to-business communication. |
| IBM WebSphere Partner Agreement Manager | Business-to-business integration with RosettaNet | Participate with trading partners in RosettaNet communications. |
| IBM MQSeries Workflow | Business process management | Define and execute complete business processes. |
| HOLOSOFX BPM Suite | Business process modeling and monitoring | Model, simulate and monitor business processes that execute in the runtime for MQSeries Workflow. |

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