

IBM MQ Appliance M2001 delivers new capabilities to support external storage and increases allocated queue manager storage

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At a glance

IBM[®] MQ Appliance M2001 provides an optimized and enhanced version of IBM MQ that runs in a physical appliance. New features and benefits in this latest update of MQ Appliance M20001 include:

- The latest updates in MQ V9.0.4 software
- Initial support for SAN storage
- Support to increase the size of queue manager allocated resources

The MQ Appliance M2001 continues to be delivered as M2001A and M2001B models to offer options for different volumes of workload.

Overview

The MQ Appliance M2001 is a state-of-the-art physical appliance that comes with a preinstalled and optimized version of MQ V9. Clients can rapidly deploy, configure, and manage MQ in their data centers, at remote locations, or with business partners.

Updates to MQ V9.0.4 were delivered to provide additional MQ Appliance M2001 capabilities and current MQ version enhancements. These updates further extend the Continuous Delivery (CD) model for the MQ Appliance. Clients who do not require functional updates and simply want fixes should remain on the current MQ V8 release to receive fixes only for the MQ Appliance M2001.

For details on the updates and enhancements in MQ V9.0.4, see Software Announcement [217-420](#), dated October 24, 2017.

Key prerequisites

IBM MQ Appliance M2001A or M2001B and a workstation with web browser access for using the MQ Console.

Planned availability date

Description

As part of the CD model, the MQ Appliance M2001 provides additional enhancements for the MQ Appliance itself, and also brings the core MQ capabilities in line with MQ V9.0.4.

There is no Long Term Support Release for MQ V9 on the MQ Appliance. For a release of IBM MQ on the MQ Appliance that only has fixes and no functional enhancements, clients must continue running MQ V8 and receive the updated fixpacks.

MQ Appliance specific enhancements include:

- Initial availability of SAN support

Since the initial availability of the MQ Appliance, there was a requirement to allow queue managers to make use of external storage instead of the internal storage that is provided in the MQ Appliance. There are two main reasons to take advantage of this external storage feature:

- There is a need for more storage than was available internally.
- In disaster recovery scenarios, there is a need to ensure that there is a consistent recovery point, not just for the messaging environment for applications and databases. To enable this, all parts of the environment are required to have their state recorded consistently at the same point, and then replicated together to the disaster recovery location. By writing persistent messages to external storage, MQ could be a component of this consistency group for disaster recovery scenarios.

To support these scenarios, the initial availability of support for SAN on the MQ Appliance focused on deployment examples that support disaster recovery configurations of the MQ Appliance and SAN, but with no support for high availability. When defining queue managers on the MQ Appliance, these can now be defined to use either internal storage or SAN storage. If configured for disaster recovery, the SAN storage can be replicated to the recovery location, and an MQ Appliance at that site for disaster recovery can then manually start up and access the stored messages and logs on the SAN at that location. There is no support for automatic high-availability takeovers for MQ Appliances with queue managers that are defined in SAN storage.

- Ability to increase storage that is allocated to Appliance queue managers

A major benefit of the MQ Appliance that queue managers is optimized for the hardware of the appliance. However, for some scenarios, it is beneficial to adjust the allocation of resources like storage, while maintaining the separation between different queue managers running on the appliance.

The MQ V9.0.4 update on the MQ Appliance allows for the maximum disk space that is available to a queue manager on the appliance to be increased by the administrator, with the underlying volume and filesystem increased to enable this.

There are multiple additional enhancements that are delivered as part of the MQ V9.0.4 update that apply both to the MQ Appliance and to MQ software. Many of these are described in the Software Announcement [217-420](#), dated October 24, 2017. Not all features, like replicated data queue managers, apply to the MQ Appliance.

A key feature for MQ Appliance users is the MQ Managed File Transfer (MFT) Logger enhancement. This feature is particularly relevant to the MQ Appliance. Previously, the MFT Logger would need to be running on the same system as a queue manager. This meant the MQ Appliance could not be the only queue manager in a MQ MFT deployment. In this update, the MFT Logger can be run remotely from a queue

manager and therefore, can be defined to remotely connect to a queue manager on the MQ Appliance. This removes the need for a software queue manager.

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be found on the [IBM Accessibility](#) website.

Section 508 of the US Rehabilitation Act

IBM MQ Appliance M2001 is capable as of November 6, 2017, when used in accordance with associated IBM 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. A US Section 508 Voluntary Product Accessibility Template (VPAT) can be found on the [IBM Accessibility](#) website.

Statement of general direction

IBM intends to deliver a MQ offering in an IBM-administered cloud environment. IBM MQ in a cloud environment will help remove typical inhibitors to start MQ projects, such as capital expenditures, hardware availability, and the skills for managing an MQ environment. This will allow users to focus on developing solutions rather than installing, configuring, and managing software.

The cloud offering is intended to be compatible with on-premise MQ offerings. Within the constraints of a cloud environment, users would be able to use the same development tooling for both the cloud and on-premise software. The assets that are generated can be deployed to either environment.

IBM's statements regarding its plans, directions, and intent are subject to change or withdrawal without notice at IBM's sole discretion. Information regarding potential future products is intended to outline our general product direction and it should not be relied on in making a purchasing decision. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality described for our products remain at our sole discretion.

Reference information

For more information on the MQ Appliance M2001, see Software Announcement [216-488](#), dated November 15, 2016.

Program number

Program number	VRM	Program name
5725-Z09	9.0.4	IBM MQ Appliance M2001
Product name	Part number	Machine-type-model
IBM MQ Appliance M2001A	D1MH3LL	8436-55X
IBM MQ Appliance M2001B	D1MH9LL	8436-55X

Publications

The following publications are shipped with the appliance:

- IBM MQ Appliance M2001 Quick Start Guide
- IBM MQ Appliance M2001 User Install Guide

IBM MQ Appliance M2001 online product documentation is available at [IBM MQ Appliance Version 9.0](#) in IBM Knowledge Center.

Services

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. 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, contact your Lab Services Sales or Delivery Leader.

Technical information

Specified operating environment

Hardware requirements

A workstation with internet access to use the browser-based user interface

Software requirements

One of the following to use the browser-based user interface:

- Microsoft™ Internet Explorer 11, or later
- Mozilla Firefox ESR 45, or later
- Google Chrome 51, or later

Companion products

Operating environment

Power on

- ASHRAE Class A2.
 - 10 - 35 degrees C (50 - 95 degrees F) at 0 - 914 m (0 - 3,000 ft)
 - 10 - 32 degrees C (50 - 90 degrees F) at 914 m - 2133 m (3000 - 7000 ft)
- Relative humidity: 8% - 80% (noncondensing)

Allowable operating classification: ASHRAE Class A2

Temperature	Altitude
10 C - 35 C (50 F - 95 F)	0 - 914.4 m (0 to 3,000 ft)
10 C - 32 C (50 F - 89.6 F)	914.4 m - 2133.6 m (3,000 ft - 7,000 ft)

Maximum altitude: 2133.6 m (7000 ft)

Relative humidity: 8% - 85%

Power off

Shipping temperature: -40 C - 60 C (-40 F - 140 F)

Limitations

Contact your local representative for a copy of the IBM official published specifications for MQ Appliance M2001 hardware.

Product technical information

IBM MQ Appliance M2001

Dimensions

Size: All models

- Height: 88.9 mm (3.5 in.)
- Depth: 438 mm (17.25 in.)
- Width: 584 mm (23 in.)

Maximum weight

Model	Machine weight	Shipping weight
M2001	21 kg (46.2 lb)	39 kg (86 lb.)

Electrical and power requirements

The following data represents the maximum label rated power requirements. When planning the electrical system, it is important to use maximum values to account for internal or environmental conditions that result in power consumption increasing beyond typical values.

Maximum system power

MQ Appliance contains redundant power supplies. Each power supply is 720 watts. The following supply voltages are available:

- 100 - 127 (nominal) V ac; 50 Hz or 60 Hz; 10.0 A
- 200 - 240 (nominal) V ac; 50 Hz or 60 Hz; 5.0 A

Power consumption

- Idle 214 W (730 Btu/hr)
- Maximum 462 W (1575 Btu/hr)

Note: All weights and measurements are approximate.

Standards compliance

The IBM MQ Appliance M2001 supports or complies with the following standards:

- Multiprocessor Specification (MPS) 1.4
- Hardware-enabled to meet the International Organization for Standardization (ISO) 9241, Part 3

Equipment approvals and safety

- FCC - Verified to comply with Part 15 of the FCC Rules, Class A
- Canada ICES-003, issue 5, Class A
- UL/IEC 60950-1
- CSA C22.2 No. 60950-1
- Argentina S-Mark

Planning information

Customer setup

MQ Appliance M2001 is designed for customer setup and installation. Customer setup instructions are shipped with the product.

Power supply requirements

MQ Appliance M2001 has two 720-watt redundant power supplies.

Packaging

The shipping package contains:

- IBM MQ Appliance M2001
- IBM MQ Appliance M2001 power cord
- IBM MQ M2001 Resource CD
- IBM MQ M2001 Quick Start Guide
- IBM MQ M2001 User Install Guide
- Two 1-GB cables: 10 meters (197 in.) each
- One 10-GB Ethernet cable: 5 meters (394 in.)

The shipping package has the following dimensions:

- Length: 66 cm (26 in.)
- Width: 91 cm (35.0 in.)
- Height: 41 cm (16.1 in.)

The shipping package weighs 39 kg (86 lb).

Ordering information

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

These products may only be sold directly by IBM or by authorized IBM Business Partners for Channel Value Rewards.

More information can be found on the [IBM Channel Value Rewards](#) website.

To locate IBM Business Partners for Channel Value Rewards in your geography for a specific Channel Value Rewards portfolio, go to the [Find a Business Partner](#) page.

Product group: WebSphere^(R)

Product: IBM MQ Appliance M2001 (5725-Z09)

Product category: Appliance

Program name/Description	Part number
IBM MQ Appliance M2001A	D1MH3LL
IBM MQ Appliance M2001B	D1MH9LL

Passport Advantage

Program name/Description	Part number
IBM MQ Appliance M2001A	
IBM MQ Appliance M2001A Install Appliance Subscription and Support 12 Months	D1MH3LL

Program name/Description	Part number
IBM MQ Appliance M2001A Install Annual Appliance Maintenance + Subscription and Support Renewal	E0MKILL
IBM MQ Appliance M2001A Install Appliance Maintenance + Subscription and Support Reinstatement 12 Months	D1MH4LL
IBM MQ Appliance M2001A Install Initial Appliance Business Critical Service Upgrade 12 Months	D1MH7LL
IBM MQ Appliance M2001A Install Subsequent Appliance Business Critical Service Upgrade 12 Months	E0MKKLL
IBM MQ Appliance M2001B	
IBM MQ Appliance M2001B Install Appliance + Subscription and Support 12 Months	D1MH9LL
IBM MQ Appliance M2001B Install Annual Appliance Maintenance + Subscription and Support Renewal	E0MKMLL
IBM MQ Appliance M2001B Install Appliance Maintenance + Subscription and Support Reinstatement 12 Months	D1MHALL
IBM MQ Appliance M2001B Install Initial Appliance Business Critical Service Upgrade 12 Months	D1MHDLL
IBM MQ Appliance M2001B Install Subsequent Appliance Business Critical Service Upgrade 12 Months	E0MKPLL
IBM MQ Appliance M2001B Additional Capacity Install License + SW Subscription & Support 12 Months	D1MHFLL
IBM MQ Appliance M2001B Additional Capacity Install Annual SW Subscription & Support Renewal 12 Months	E0MKRLL
IBM MQ Appliance M2001B Additional Capacity Install SW Subscription & Support Reinstatement 12 Months	D1MHGLL

Business Critical Service Upgrade

Business Critical Service Upgrade is available in the United States and Puerto Rico.

Hard Drive Retention Service Upgrade

Program name/Description	Part number
IBM MQ Appliance M2001A Install Initial Appliance Business Critical Service Upgrade 12 Months	D1MH8LL
IBM MQ Appliance M2001A Install Subsequent Appliance Hard Drive Retention Service Upgrade 12 Months	E0MKLLL
IBM MQ Appliance M2001B Install Initial Appliance Hard Drive Retention Service Upgrade 12 Months	D1MHELL
IBM MQ Appliance M2001B Install Subsequent Appliance Hard Drive Retention Service Upgrade 12 Months	E0MKQLL

Hard Drive Retention Service Upgrade is available in the US and Puerto Rico.

Charge metric

Program name	Part number or PID number	Charge metric
IBM MQ Appliance M2001	5725-Z09	Appliance Install

Appliance Install

Appliance Install is a unit of measure by which the program can be licensed. An Appliance Install is an installed copy of the program that is included on a single unit of supporting hardware. Licensee must obtain an entitlement for each Appliance Install of the program.

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^(R) Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

This product is only available through Passport Advantage.

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^(R), where applicable, are license only and do not include Software Maintenance.

Agreement for Acquisition of Software Maintenance

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 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.

MQ Appliance M2001

This product is only available through Passport Advantage.

Clients may elect to purchase optional support services including Appliance Business Critical Support and Hard Drive Retention.

- Appliance Business Critical Support. Whereas standard support includes assistance with appliance hardware issues during normal business hours, Business Critical Support provides 24x7 onsite service with a response objective of four hours from the time a hardware issue is identified
- Hard Drive Retention. Appliance hardware support requires all replaced parts be returned to IBM. The Hard Drive Retention option allows you to keep hard drives that have been replaced by IBM Hardware Support.

Consult the [IBM Appliance Support Handbook](#) for further details on Appliance Warranty Service Upgrade options.

MQ Appliance M2001 firmware support

IBM MQ Appliance M2001 includes system firmware to support operation of the appliance. The system firmware follows the IBM version, release, maintenance, fix pack number (V.R.M.F) maintenance delivery terminology. New function, security updates, and maintenance will be made available through firmware releases. Additional maintenance through iFixes will be made available, as necessary, on the most recent firmware level release.

Refer to the [IBM Software Support Lifecycle Policy](#) for complete details.

License Information number

IBM MQ Appliance M2001: L-APIG-AN9GYW

See the [License Information documents](#) page on the IBM Software License Agreement website for more information.

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, see the [IBM Software Support Handbook](#).

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

Program support

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

Money-back guarantee

No

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, information is available on the [Passport Advantage and Passport Advantage Express^{\(R\)}](#) website.

Usage restrictions

Yes

IBM has the sole right to replace the software components within the IBM MQ Appliance M2001 with alternative software components during the support term of IBM MQ Appliance M2001.

Adding, removing, or replacing hardware components of IBM MQ Appliance M2001 must be performed by IBM unless a component is designated as customer replaceable.

Appliance Maintenance, Software Subscription and Support applies

Yes. Appliance Maintenance, Software Subscription and Support, also referred to as Appliance Service and Support, 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 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.

Included is one year of Appliance Maintenance and Software Subscription and Support for each of the appliances and software licenses acquired. The initial period be extended by the purchase of a renewal option, if available.

For additional information about appliance services, consult the [Appliance Services Attachments to Passport Advantage](#) website.

Consult the [IBM Appliance Support Handbook](#) website for further details about Appliance support and Warranty Service Upgrade options.

IBM Operational Support Services - SoftwareXcel

No

Variable charges apply

No

Educational allowance available

Not applicable.

Statement of good security practices

IT system security involves protecting systems and information through intrusion prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a regulatory compliant, comprehensive security approach, which

will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.

Important: IBM does not warrant that any systems, products, or services are immune from, or will make your enterprise immune from, the malicious or illegal conduct of any party.

Prices

The prices are unchanged by this announcement.

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