

# IBM MQ for Multiplatforms V9.1.5 and IBM MQ on Cloud continue to simplify the design, deployment, and management of secure, resilient, and robust messaging

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## Overview

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IBM<sup>®</sup> MQ for Multiplatforms V9.1.5 is the follow-on offering to the MQ V9.1.4 continuous delivery (CD) release. MQ V9.1.5 base includes the following enhancements:

- Simplified, smart management:
  - Enhanced monitoring of uniform cluster application rebalancing
  - Increased level of control for administrators to determine how IBM MQ uses available storage
  - Updated web user interface look and feel
- Augmented security:
  - Additional security options for the MQ Internet Pass-Thru (MQIPT) function
  - Transportation Layer Security (TLS) 1.3 support for Java and JMS clients
- Expanded client options:
  - Support for Java 11 clients
  - Simplified creation of .NET core applications with updated .NET core samples and project templates
  - Augmented REST messaging with the addition of a publish capability

IBM MQ Advanced V9.1.5 includes the above features in addition to the following enhancements:

- Easier adoption of containers:
  - Further simplifies the deployment of IBM MQ within containerized environments
- More options when designing and deploying resilient, robust messaging:
  - Replication of user application data in replicated data queue manager (RDQM) configurations
  - Asynchronous disaster recovery between highly available three-way RDQM configurations

IBM MQ Appliance V9.1.5 firmware includes:

- The new capabilities of MQ V9.1.5 base except the updated web user interface

- Simplified disaster recovery for highly available queue managers
- An option to generate error reports to persistent RAID storage
- An enhancement to reset the appliance Secure Shell (SSH) host key
- The ability to format MQ trace using dspmqtrc

MQ Appliance V9.1.5 firmware is available for the following appliances:

- IBM MQ Appliance M2000
- IBM MQ Appliance M2001
- IBM MQ Appliance M2002

IBM MQ on Cloud has been augmented with the new capabilities of MQ V9.1.5 base.

These enhancements are not available with the MQ V9.1 long-term service release (LTSR). The LTSR includes fixpacks that only provide fixes involving no new function.

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## Key requirements

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- MQ V9.1.5 runs on a variety of operating systems and container runtime environments.
- For more details, see the [Software requirements](#) section.

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## Planned availability date

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April 2, 2020

See the [Availability of national languages](#) section for national language availability.

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## Description

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MQ V9.1.5 base and MQ Appliance firmware V9.1.5 CD releases include new features and capabilities that extend those that were available in MQ V9.1.4, the previous CD release.

MQ V9.1.5 base includes the following enhancements:

- Simplified, smart management:
  - Enhanced monitoring of uniform cluster application rebalancing:
    - Uniform clusters are a powerful and effective way for MQ users to ensure that an application workload connects and flows through clusters of MQ queue managers and to have that workload balanced across the queue managers without external actions being taken. Uniform clusters will automatically rebalance your applications across all available queue managers when you add more queue managers or need to take down a queue manager for maintenance.
    - With support for applications written in C, JMS, .NET, and XMS .NET, uniform clusters are a powerful option for use in a range of different environments.
    - In MQ V9.1.5 base, additional information is made available to help you understand how your applications are being moved between queue managers to help identify any anomalies.
  - Updated web user interface look and feel
  - Increased level of control for administrators when determining how IBM MQ uses available storage:
    - It is now possible to set limits on the amount of storage a queue is able to use. This makes it easier to make efficient use of storage without having to

worry about contention over space between queues. In addition, queue files of more than 2 TB are now supported.

- Augmented security:
  - Additional security options for the MQIPT function:
    - Provided originally in a category 3 SupportPac, MQIPT enables connections over the internet to reach MQ, even through a firewall.
    - MQ V9.1.4 integrated the MQIPT function as a part of the standard IBM MQ offering. With the growth in connections that stretch beyond the enterprise, this ensures that the function can continue to be used while ensuring it is supported in the same way as the rest of the program. Clients with MQ entitlement across any platform can download this component from the [IBM Support Fix Central](#) web page.
    - MQ V9.1.5 also adds new security options regarding how passwords are stored.
  - TLS 1.3 support for Java and JMS based clients:
    - To ensure that MQ can offer a secure environment as an essential part of every release, MQ security standards and encryption continue to change and evolve. MQ V9.1.4 added support for TLS 1.3, where it is available, to ensure that additional options for creating secure environments are available. In MQ V9.1.4, TLS 1.3 could be used for connections between queue managers and for C/C++ MQ client applications.
    - MQ V9.1.5 adds support for TLS 1.3 for Java and JMS client applications when using Java 11.
- Expanded client options:
  - Support for Java 11 clients.
  - Simplified creation of .NET core applications with updated .NET core samples and project templates.
  - Augmented REST messaging with the addition of a publish capability. Along with the ability through REST to send, receive, and browse messages, as well as administer your queue managers with JavaScript Object Notation (JSON), there is now the ability to publish messages with REST.

MQ Advanced V9.1.5 includes the following enhancements:

- Easier adoption of containers:
  - Simplifying the deployment of IBM MQ in containers:
    - MQ Advanced V9.1.4 added Red Hat<sup>(R)</sup> OpenShift<sup>(R)</sup> container support directly, without requiring IBM Cloud<sup>TM</sup> Private as a prerequisite.
    - MQ Advanced V9.1.5 reduces the need for additional user permissions when deploying the IBM MQ Advanced certified container within OpenShift environments. This makes it easier to include IBM MQ within more tightly controlled environments.
- More options when designing and deploying resilient, robust messaging:
  - Replication of user application data in replicated data queue manager (RDQM) configurations
  - Asynchronous disaster recovery between highly available three-way RDQM configurations:
    - RDQM enables the creation of a three-way highly available queue manager without the need for external storage.
    - MQ Advanced V9.1.5 provides the ability to have asynchronous disaster recovery between two highly available RDQM configurations. This means that, in the event of a site failure, the backup site will be able to take over and remain fully redundant.

MQ Appliance combines the scalability and security of IBM MQ with the simplicity, convenience, and low total cost of ownership of a dedicated feature-rich appliance. MQ Appliance V9.1.5 has been augmented with the following enhancements:

- New capabilities of MQ V9.1.5 base except the updated web user interface look and feel.
- Simplified disaster recovery for highly available queue managers.
- Configuration of disaster recovery with highly available queue managers no longer requires a floating IP address. This removes the requirement for the two appliances in the high availability group to be in the same subnet.
- An option to generate error reports to persistent RAID storage
- The appliance can be configured to output generated error reports to the mqdiag: filesystem, so they persist if the appliance is shutdown or restarted.
- An enhancement to reset the appliance SSH host key.
- A new SSH host key for the appliance can be generated using the reset-ssh-keys command.
- The ability to format MQ trace using dspmqtrc.

MQ Appliance V9.1.5 firmware is available for the following appliances:

- MQ Appliance M2000
- MQ Appliance M2001
- MQ Appliance M2002

MQ on Cloud:

- MQ is available on both IBM Cloud and Amazon Web Services as a managed service and has been augmented with the new capabilities of MQ V9.1.5 base.

### **Section 508 of the US Rehabilitation Act**

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The following programs and appliances are capable as of April 2, 2020, when used in accordance with associated IBM documentation, of satisfying the applicable standards, including the Worldwide Consortium Web Content Accessibility Guidelines, European Standard EN 301 349, and US Section 508, provided that any assistive technology used with the product properly interoperates with it:

- MQ for Multiplatforms V9.1.5
- MQ Appliance M2000
- MQ Appliance M2001
- MQ Appliance M2002
- MQ on Cloud

An Accessibility Conformance Statement can be requested on the [Product accessibility information](#) website.

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### **Statement of general direction**

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IBM intends to deliver the following new capabilities within future releases:

- Extended guidance on the file systems supported with container deployments of IBM MQ
- Message-level encryption and decryption on message channels when exchanging messages between Advanced Message Security (AMS) and non-AMS-enabled queue managers, which is available in the MQ for z/OS<sup>(R)</sup> offerings.
- Cessation of further releases for MQ on the Oracle Solaris operating system. That means the MQ V9.1 long-term support release (LTSR) will be the last supported release on this platform.
- Cessation of support for SSL v3 and TLS 1.0 with MQ. That means the next LTSR of IBM MQ will be the last to provide SSL v3 and TLS 1.0 support. The plan is to remove support in a future CD release after that.

Statements by IBM regarding its plans, directions, and intent are subject to change or withdrawal without notice at the sole discretion of IBM. Information regarding potential future products is intended to outline general product direction and 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 IBM products remain at the sole discretion of IBM.

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## Reference information

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For general product information on MQ for z/OS, see the [IBM MQ for z/OS](#) website.

For information about MQ for z/OS, V9.1.5, see Software Announcement [220-096](#), dated April 2, 2020.

For information about MQ for z/OS Value Unit Addition, V9.1.5, see Software Announcement [220-094](#), dated April 2, 2020.

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## Availability of national languages

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Description	Availability date	Language
IBM MQ V9.1.5	April 2, 2020	English, Japanese, Spanish, Korean, French, Traditional Chinese, Simplified Chinese, Polish, German, Hungarian, Russian, Brazilian Portuguese, Italian, Czech
IBM MQ Appliance firmware V9.1.5	April 2, 2020	English

Translation information, if available, can be found at the [Translation Reports](#) website.

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## Program number

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Program number	VRM	Program name
5724-H72	9.1.5	IBM MQ for Multiplatforms
5725-S14	9.1.5	IBM MQ Appliance M2000
5725-Z09	9.1.5	IBM MQ Appliance M2001
5737-H47	9.1.5	IBM MQ Appliance M2002
5737-H57	Cloud service	IBM MQ on Cloud

  

Program name	Program number	Machine type-model
IBM MQ Appliance M2000	5725-S14	8436-54X
IBM MQ Appliance M2001	5725-Z09	8436-55X
IBM MQ Appliance M2002	5737-H47	8441-54X

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## Publications

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MQ V9.1.5 documentation is published in IBM Knowledge Center as part of the [IBM MQ Version 9.1.x product documentation](#).

MQ Appliance V9.1.5 documentation is published in IBM Knowledge Center as part of the [IBM MQ Appliance Version 9.1.x product documentation](#).

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## Services

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### Software Services

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IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of the lab-based software services team and the business consulting, project management, and infrastructure expertise of the IBM Global Services team. Also, IBM extends the reach of IBM Software Services through IBM Business Partners to provide an extensive portfolio of capabilities. IBM provides 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.

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## Technical information

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### Specified operating environment

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#### Software requirements

MQ V9.1.5 support includes the following:

- Operating systems:
  - Microsoft Windows
  - Linux<sup>(R)</sup>
  - IBM AIX<sup>(R)</sup>
  - IBM z/OS
- Programming languages:
  - Java
  - C/C++
  - .NET
  - COBOL
  - For further language binding options, see the [IBM Messaging GitHub community](#) website.
- For container runtime environments that are supported by the prebuilt MQ Advanced certified container, see the [IBM MQ System Requirements](#) website, select the product component or operating system for the MQ release being used, and view the "Containers" tab.
- If you are building your own MQ containers, see the [IBM MQ System Requirements](#) website, select the product component or operating system for the MQ release being used, and view the "Supported Software" tab in the "Cloud Platform" section to see supported runtime environments (Docker, CRI-O, and Containerd).
- The IBM MQ resource adapter is compatible with application servers that support the Java Enterprise Edition 7.0 specification.

For MQ product software requirements, see the [IBM MQ System Requirements](#) website.

For MQ Appliance software requirements, see the [IBM MQ System requirements for IBM MQ Appliance](#) website.

#### Compatibility

Queue managers and clients in MQ V9.1.5 interoperate with queue managers and clients from current and previous levels of MQ, IBM WebSphere<sup>(R)</sup> MQ, or IBM MQSeries<sup>(R)</sup>.

- IBM MQ Explorer runs on the Linux x86-64 and Windows platforms.
- MQ Explorer, which is supplied with MQ V9.1.5, can use a client connection to connect to any supported level of MQ or WebSphere MQ on any platform.
- IBM MQ Managed File Transfer supports file transfers to and from server and client installations at any level of WebSphere MQ File Transfer Edition.

### **IBM Support**

[IBM Support](#) is your gateway to technical support tools and resources that are designed to help you save time and simplify support. IBM Support can help you find answers to questions, download fixes, troubleshoot, submit and track problem cases, and build skills. Learn and stay informed about the transformation of IBM Support, including new tools, new processes, and new capabilities, by going to the [IBM Support Insider](#).

### **Planning information**

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#### **Packaging**

MQ V9.1.5 is delivered through the internet as an electronic download.

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### **Ordering information**

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For ordering information, consult your IBM representative or IBM Business Partner, or go to the [Passport Advantage<sup>\(R\)</sup>](#) website.

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 IBM Business Partners.

To locate IBM Business Partners in your geography, see the [Find a Business Partner](#) page.

#### **Passport Advantage**

##### **IBM MQ**

<b>Program name/Description</b>	<b>Part number</b>
IBM MQ Per Processor Value Unit (PVU) License + SW S&S 12 Months	D55V1LL
IBM MQ Per Processor Value Unit (PVU) Annual SW S&S Renewal	E0256LL
IBM MQ Per Processor Value Unit (PVU) SW S&S Reinstatement 12 Months	D55V2LL
IBM MQ High Availability Replica Processor Value Unit (PVU) License + SW Subscription & Support 12 Months	D0GGQLL
IBM MQ High Availability Replica Processor Value Unit (PVU) Annual SW Subscription & Support Renewal	E0ALULL
IBM MQ High Availability Replica Processor Value Unit (PVU) SW Subscription & Support Reinstatement 12 Months	D0GGSLL
IBM MQ High Availability Replica Virtual Processor Core Monthly License	D1VAILL
IBM MQ Virtual Processor Core Monthly License	D1RYSLL
IBM MQ Processor Value Unit (PVU) Monthly License	D1D2FLL
IBM MQ High Availability Replica Processor Value Unit (PVU) Monthly License	D193BLL

##### **IBM MQ Advanced**

<b>Program name/Description</b>	<b>Part number</b>
IBM MQ Advanced Per Processor Value Unit (PVU) License + SW S&S 12 Months	D1GZULL
IBM MQ Advanced Per Processor Value Unit (PVU) Annual SW S&S Renewal	E0LNALL
IBM MQ Advanced Per Processor Value Unit (PVU) SW S&S Reinstatement 12 Months	D1GZVLL
IBM MQ Advanced High Availability Replica Processor Value Unit (PVU) License + SW S&S 12 Months	D1H5GLL
IBM MQ Advanced High Availability Replica Processor Value Unit (PVU) Annual SW S&S Renewal	E0LNDLL
IBM MQ Advanced High Availability Replica Processor Value Unit (PVU) SW S&S Reinstatement 12 Months	D1H5HLL
IBM MQ Advanced High Availability Replica Virtual Processor Core Monthly License	D1VAKLL
IBM MQ Advanced Virtual Processor Core Monthly License	D1RYWLL
IBM MQ Advanced High Availability Replica Processor Value Unit (PVU) Monthly License	D1H8VLL
IBM MQ Advanced Processor Value Unit (PVU) Monthly License	D1H8TLL

### **IBM MQ Telemetry**

<b>Program name/Description</b>	<b>Part number</b>
IBM MQ Telemetry per Install Annual SW S&S Renewal	E0DRHLL

### **IBM MQ Advanced Message Security Component**

<b>Program name/Description</b>	<b>Part number</b>
IBM MQ Advanced Message Security Component Per PVU Annual SW S&S Renewal	E0DS8LL
IBM MQ Advanced Message Security Component High Availability Replica 10 PVUs Annual SW S&S Renewal	E0DS0LL

### **IBM MQ Managed File Transfer Component**

<b>Program name/Description</b>	<b>Part number</b>
IBM MQ Managed File Transfer Service Processor Value Unit (PVU) Annual SW S&S Renewal	E0LNELL
IBM MQ Managed File Transfer Service High Availability Replica 10 PVUs Annual SW S&S Renewal	E0LNKLL
IBM MQ File Transfer Agent Install Annual SW S&S Renewal	E0LNLLL

### **IBM MQ Advanced for Developers**

<b>Program name/Description</b>	<b>Part number</b>
IBM MQ Advanced for Developers Install Annual SW Subscription & Support Renewal 12 Months	E0MZPLL
IBM MQ Advanced for Developers Install License + SW Subscription & Support 12 Months	D1PI3LL
IBM MQ Advanced for Developers Install SW Subscription & Support Reinstatement 12 Months	D1PI4LL



<b>Program name/Description</b>	<b>Part number</b>
IBM MQ Advanced for Developers Install Monthly License	D1PI5LL

## IBM MQ Appliance

For ordering information for MQ Appliance, see Software Announcement [218-249](#), dated July 3, 2018.

## Passport Advantage trade up

Clients must have previously acquired licenses for the following precursor products to be eligible to acquire equivalent licenses for the trade-up products:

<b>Precursor product</b>	<b>Trade-up product</b>	<b>Trade-up part number</b>
IBM MQ Trade Up License + SW Subscription & Support 12 Months	IBM MQ Advanced Processor Value Unit (PVU)	D1GZWLL
IBM MQ High Availability Replica Processor Value Unit Trade Up License + SW Subscription & Support 12 Months	IBM MQ Advanced High Availability Replica Processor Value Unit (PVU)	D1H5ILL
IBM MQ for Linux on z Systems <sup>(R)</sup> Processor Value Unit (PVU) Trade Up License + SW Subscription & Support 12 Months	IBM MQ Advanced for Linux on z Systems Processor Value Unit (PVU)	D1H00LL
IBM MQ High Availability Replica for Linux on z Systems PVU Trade Up License + SW Subscription & Support 12 Months	IBM MQ Advanced High Availability Replica for Linux on z Systems Processor Value Unit (PVU)	D1H6ELL

Consult your IBM representative if you have any questions.

## Cross-platform product for use on IBM Z<sup>(R)</sup> 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 IBM Z IFL engines. If the product is not intended to run in these environments, order from the other set of part numbers in this announcement. The following set of part numbers provides the identical supply and authorization as the other set in this announcement:

## IBM MQ

<b>Program name/Description</b>	<b>Part number</b>
IBM MQ for Linux on IBM Z Processor Value Unit (PVU) License + SW Subscription & Support 12 Months	D55V4LL
IBM MQ for Linux on IBM Z Processor Value Unit (PVU) Annual SW Subscription & Support Renewal	E0257LL
IBM MQ for Linux on IBM Z Processor Value Unit (PVU) SW Subscription & Support Reinstatement 12 Months	D55V5LL
IBM MQ High Availability Replica for Linux on IBM Z Processor Value Unit (PVU) License + SW Subscription & Support 12 Months	D0GGNLL
IBM MQ High Availability Replica for Linux on IBM Z Processor Value Unit (PVU) Annual SW Subscription & Support Renewal	E0ALTLL
IBM MQ High Availability Replica for Linux on IBM Z Processor Value Unit (PVU) SW	D0GGPLL

<b>Program name/Description</b>	<b>Part number</b>
Subscription & Support Reinstatement 12 Months	
MQ High Availability Replica for Linux on IBM Z Processor Value Unit (PVU) Monthly License	D193ALL
IBM MQ for Linux on IBM Z Processor Value Unit (PVU) Monthly License	D1938LL
IBM MQ High Availability Replica Linux on IBM Z Virtual Processor Core Monthly License	D1VAJLL
IBM MQ Linux on IBM Z Virtual Processor Core Monthly License	D1RYTLL

### **IBM MQ Managed File Transfer**

<b>Program name/Description</b>	<b>Part number</b>
IBM MQ File Transfer Agent for Linux on IBM Z Install Annual SW Subscription & Support Renewal 12 Months	E0LNGLL
IBM MQ Managed File Transfer Service for Linux on IBM Z Processor Value Unit (PVU) Annual SW Subscription & Support Renewal 12 Months	E0LNCLL
IBM MQ Managed File Transfer Service High Availability Replica for Linux on IBM Z 10 Processor Value Unit (PVU) Annual SW Subscription & Support Renewal 12 Months	E0LNJLL

### **IBM MQ Advanced**

<b>Program name/Description</b>	<b>Part number</b>
IBM MQ Advanced for Linux on IBM Z Processor Value Unit (PVU) License + SW Subscription & Support 12 Months	D1GZYLL
IBM MQ Advanced for Linux on IBM Z Processor Value Unit (PVU) Annual SW Subscription & Support Renewal 12 Months	E0LNBLL
IBM MQ Advanced for Linux on IBM Z Processor Value Unit (PVU) SW Subscription & Support Reinstatement 12 Months	D1GZZLL
IBM MQ Advanced High Availability Replica for Linux on IBM Z Processor Value Unit (PVU) License + SW Subscription & Support 12 Months	D1H6BLL
IBM MQ Advanced High Availability Replica for Linux on IBM Z Processor Value Unit (PVU) Annual SW Subscription & Support Renewal 12 Months	E0LNILL
IBM MQ Advanced High Availability Replica for Linux on IBM Z Processor Value Unit (PVU) SW Subscription & Support Reinstatement 12 Months	D1H6CLL
IBM MQ Advanced High Availability Replica Linux on IBM Z Virtual Processor Core Monthly License	D1VALLL
IBM MQ Advanced Linux on IBM Z Virtual Processor Core Monthly License	D1RYZLL
IBM MQ Advanced for Linux on IBM Z Processor Value Unit (PVU) Monthly License	D1H8SLL
IBM MQ Advanced High Availability Replica for Linux on IBM Z Processor Value Unit (PVU) Monthly License	D1H8ULL

## IBM MQ Advanced Message Security

Program name/Description	Part number
IBM MQ Advanced Message Security Component for Linux on IBM Z Processor Value Unit (PVU) Annual SW Subscription & Support Renewal	E0DS7LL
IBM MQ Advanced Message Security Component High Availability Replica for Linux on IBM Z 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal	E0DRZLL

## IBM MQ Advanced for Developers

Program name/Description	Part number
IBM MQ Advanced for Developers Linux on IBM Z Install Annual SW Subscription & Support Renewal 12 Months	E0MZQLL
IBM MQ Advanced for Developers Linux on IBM Z Install License + SW Subscription & Support 12 Months	D1PI7LL
IBM MQ Advanced for Developers Linux on IBM Z Install SW Subscription & Support Reinstatement 12 Months	D1PI8LL
IBM MQ Advanced for Developers Linux on IBM Z Install Monthly License	D1PI6LL

## Charge metric

The charge metrics for these licensed products can be found in the following License Information documents:

Program identifier	License Information document title	License Information number
5724-H72	IBM MQ V9.1 - 04/2020	<a href="#">L-APIG-BLCFKU</a>
5724-H72	IBM MQ Advanced V9.1 - 04/2020	<a href="#">L-APIG-BJAKBF</a>
5724-H72	IBM MQ Advanced for Developers V9.1 - 04/2020	<a href="#">L-APIG-BM7EV3</a>
5724-H72	IBM MQ Managed File Transfer Service V9.1	<a href="#">L-APIG-AV6HR2</a>
5724-H72	IBM MQ Managed File Transfer Agent V9.1	<a href="#">L-APIG-AV6HR2</a>
5724-H72	IBM MQ Advanced Message Security V9.1	<a href="#">L-APIG-AV6HS6</a>
5724-H72	IBM MQ Telemetry V9.1	<a href="#">L-APIG-AV6HT5</a>
5724-H72	BM MQ Advanced High Availability Replica V9.1 - 04/2020	<a href="#">L-APIG-BJCDMY</a>
5724-H72	IBM MQ Managed File Transfer Service High Availability Replica V9.1 - 04/2020	<a href="#">L-APIG-BJCDSN</a>
5724-H72	IBM MQ Advanced Message Security High Availability Replica V9.1 - 04/2020	<a href="#">L-APIG-BJCDSN</a>
5724-H72	IBM MQ High Availability Replica V9.1 - 04/2020	<a href="#">L-APIG-BJCDWV</a>
5737-H47	IBM MQ Appliance M2002 V9.1 - 04/2020	<a href="#">L-APIG-BKSJF5</a>

Select your language of choice and scroll down to the Charge Metrics section. Follow-on releases, if any, may have updated terms. See the [License Information documents](#) website for more information.

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## Terms and conditions

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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<sup>(R)</sup> Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

This product is only available through Passport Advantage.

### Licensing

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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<sup>(R)</sup>, where applicable, are license only and do not include Software Maintenance.

### Software Maintenance

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Licenses under the IBM International Program License Agreement (IPLA) 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. Two charges apply: 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 number

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The following License Information documents apply to the offerings in this announcement:

Program identifier	License Information document title	License Information number
5724-H72	IBM MQ V9.1 - 04/2020	<a href="#">L-APIG-BLCFKU</a>
5724-H72	IBM MQ Advanced V9.1 - 04/2020	<a href="#">L-APIG-BJAKBF</a>
5724-H72	IBM MQ Advanced for Developers V9.1 - 04/2020	<a href="#">L-APIG-BM7EV3</a>
5724-H72	IBM MQ Managed File Transfer Service V9.1	<a href="#">L-APIG-AV6HR2</a>
5724-H72	IBM MQ Managed File Transfer Agent V9.1	<a href="#">L-APIG-AV6HR2</a>
5724-H72	IBM MQ Advanced Message Security V9.1	<a href="#">L-APIG-AV6HS6</a>
5724-H72	IBM MQ Telemetry V9.1	<a href="#">L-APIG-AV6HT5</a>
5724-H72	BM MQ Advanced High Availability Replica V9.1 - 04/2020	<a href="#">L-APIG-BJCDMY</a>
5724-H72	IBM MQ Managed File Transfer Service High Availability Replica V9.1 - 04/2020	<a href="#">L-APIG-BJCDSN</a>
5724-H72	IBM MQ Advanced Message Security High	<a href="#">L-APIG-BJCDSN</a>

Program identifier	License Information document title	License Information number
	Availability Replica V9.1 - 04/2020	
5724-H72	IBM MQ High Availability Replica V9.1 - 04/2020	L-APIG-BJCDWV
5737-H47	IBM MQ Appliance M2002 V9.1 - 04/2020 <sup>1</sup>	L-APIG-BKSJF5

<sup>1</sup> The MQ V9.1.5 firmware level can be installed on M2000 and M2001 appliances if the client accepts the license terms in [L-APIG-BKSJF5](#).

Follow-on releases, if any, may have updated terms. See the [License Information documents](#) website for more information.

### **Limited warranty applies**

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Yes

### **Limited warranty**

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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 Support Guide](#).

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

### **Program technical support**

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Technical support of a program product version or release 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 (by 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 versions, releases, and updates (CD releases, Long Term Support Releases or fixes) of the program. You will be notified, through an announcement letter, of discontinuance of support with six 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. Defect support for a CD release is available for 12 months from the availability of the release or while it remains one of the two most recent CD releases, whichever is longer.

For additional information on the IBM Software Support Lifecycle Policy, see the [IBM Software Support Lifecycle Policy](#) website.

MQ V9.1 is a LTSR and provides predictable support through iFixes and fixpacks for a minimum period of five years from the general availability date. A minimum three-year extension of support is available for an additional fee. MQ V9.1.5 is a Continuous Delivery Release.

### **Money-back guarantee**

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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)**

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No

### **Passport Advantage applies**

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Yes, information is available on the [Passport Advantage and Passport Advantage Express<sup>®</sup>](#) website.

### **Usage restrictions**

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Yes

This offering is subject to usage restrictions. See the following License Information documents for details:

<b>Program identifier</b>	<b>License Information document title</b>	<b>License Information number</b>
5724-H72	IBM MQ V9.1 - 04/2020	<a href="#">L-APIG-BLCFKU</a>
5724-H72	IBM MQ Advanced V9.1 - 04/2020	<a href="#">L-APIG-BJAKBF</a>
5724-H72	IBM MQ Advanced for Developers V9.1 - 04/2020	<a href="#">L-APIG-BM7EV3</a>
5724-H72	IBM MQ Managed File Transfer Service V9.1	<a href="#">L-APIG-AV6HR2</a>
5724-H72	IBM MQ Managed File Transfer Agent V9.1	<a href="#">L-APIG-AV6HR2</a>
5724-H72	IBM MQ Advanced Message Security V9.1	<a href="#">L-APIG-AV6HS6</a>
5724-H72	IBM MQ Telemetry V9.1	<a href="#">L-APIG-AV6HT5</a>
5724-H72	BM MQ Advanced High Availability Replica V9.1 - 04/2020	<a href="#">L-APIG-BJCDMY</a>
5724-H72	IBM MQ Managed File Transfer Service High Availability Replica V9.1 - 04/2020	<a href="#">L-APIG-BJCDSN</a>
5724-H72	IBM MQ Advanced Message Security High Availability Replica V9.1 - 04/2020	<a href="#">L-APIG-BJCDSN</a>
5724-H72	IBM MQ High Availability Replica V9.1 - 04/2020	<a href="#">L-APIG-BJCDWV</a>
5737-H47	IBM MQ Appliance M2002 V9.1 - 04/2020 <sup>1</sup>	<a href="#">L-APIG-BKSJF5</a>

<sup>1</sup> The MQ V9.1.5 firmware level can be installed on M2000 and M2001 appliances if the client accepts the license terms in [L-APIG-BKSJF5](#).

See License Information documents for details. These restrictions are current as of the date of the announcement. Follow-on releases, if any, may have updated terms. See the [License Information documents](#) website for any new or revised restrictions.

### **Software Subscription and Support applies**

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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 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 with each program license acquired. The initial period of Software Subscription and Support can be extended by the purchase of a renewal option, if available.

While your Software Subscription and Support 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 by 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 users.) IBM provides Severity 1 assistance 24 hours a day, 7 days a week. For additional details, see the [IBM Support Guide](#). Software Subscription and Support 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.

Unless specified otherwise in a written agreement with you, IBM does not provide support for third-party products that were not provided by IBM. Ensure that when contacting IBM for covered support, you follow problem determination and other instructions that IBM provides, including in the [IBM Support Guide](#).

For additional information about the International Passport Advantage Agreement and the IBM International Passport Advantage Express Agreement, go to the [Passport Advantage and Passport Advantage Express](#) website.

### **IBM Operational Support Services - SoftwareXcel**

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No

### **Variable charges apply**

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No

### **Educational allowance available**

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Not applicable.

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## **Statement of good security practices**

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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

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**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.

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## Prices

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The prices are unchanged by this announcement.

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