

IBM MQ 9.3 for Multiplatforms and IBM MQ on Cloud deliver improved capabilities to securely power cloud-native applications across hybrid-multicloud

Table of contents

1	Overview	8	Technical information
2	Key requirements	9	Ordering information
2	Planned availability date	13	Terms and conditions
2	Description	17	Prices
5	Statement of general direction	18	Order now
6	Program number	18	Regional availability
6	Publications		

Overview

Businesses large and small need to ensure that every order, every payment, and every customer interaction counts. It takes time to build the right mix of applications, to integrate with partners, and build a successful business. Maximize your investments by ensuring messages between enterprise applications are delivered reliably once-and-only-once, and decouple your applications to rapidly respond to a sudden increase in traffic or a system outage.

IBM[®] MQ can be deployed to public clouds or private data centres to connect applications and data wherever they reside. You can even tap into the value of existing data as it flows around the enterprise to gain real-time insights or react to events as they happen, while robust security mechanisms keep critical business and customer data safe.

MQ 9.3 is the follow-on long-term support release (LTSR) to MQ 9.2. With the LTSR, fix packs will only provide fixes that include no new functions.

MQ 9.3 also is the follow-on continuous delivery (CD) release to MQ 9.2.5, which is the final CD release for the MQ 9.2 LTSR. MQ 9.3 includes the features that were delivered in the MQ CD releases 9.2.1 through 9.2.5, along with some minor additional enhancements. The capabilities being incorporated into MQ 9.3 from previous MQ 9.2.x CD releases and those that are new in MQ 9.3 are detailed in the [Description](#) section.

For more information, see the [IBM MQ FAQ for Long Term Support and Continuous Delivery releases](#) website.

MQ 9.3 includes:

- An improved getting-started experience
- Simplified cloud-native deployment and improved high availability, scalability, and resilience
- The ability to tap into existing data with streaming queues
- Enhanced administration for improved user experience
- Security enhancements that build on the existing robust security mechanisms in MQ
- Enhancements to IBM MQ Advanced Managed File Transfer capabilities
- Updates to the supported platforms

Key requirements

MQ 9.3 runs on a variety of operating systems and container runtime environments. For more details, see the [Software requirements](#) section.

Planned availability date

June 23, 2022

Availability within a country is subject to local legal requirements.

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

Description

MQ 9.3 includes enhancements that were introduced in version 9.2.x CD releases and new function, first available in MQ 9.3. Following are some details of what MQ 9.3 contains. Capabilities that are available only in the IBM MQ Advanced offering are identified separately.

An improved getting-started experience

- Capabilities in MQ 9.3 that first appeared in MQ 9.2.x CD releases:
 - Enhancements to the MQ Console enable new users to get started more easily than ever before, confidently sending and receiving messages through the graphical user interface.
 - AMQP is an open-source messaging protocol designed to effectively support a wide range of messaging applications and communication patterns. Support for applications using Apache Qpid JMS that use point-to-point messaging with Advanced Message Queuing Protocol 1.0 (AMQP) is added. Additionally, browse support and additional channel attributes are now available for the AMQP open message protocol.
 - When installing on Microsoft™ Windows™ or through silent install, users who have selected to install MQ Advanced capabilities are informed during the install process to reduce the risk of installing MQ Advanced features in error.

Simplified cloud-native deployment and improved high availability, scalability, and resilience

- Capabilities in MQ 9.3 that first appeared in MQ 9.2.x CD releases:
 - Transactional applications, IBM WebSphere^(R) Liberty JEE applications, request-and-reply applications, and .NET clients can be connected to a uniform cluster. Uniform cluster usability enhancements improve deployment and administration experience. The objective of a uniform cluster is that applications can be designed for scale and availability and can connect to any of the queue managers within the uniform cluster. This removes any dependency on a specific queue manager, resulting in better availability and workload balancing of messaging traffic.
 - MQ supports autoscaling based on queue depth using the Kubernetes-based Event Driven Autoscaler (KEDA). KEDA is an Apache 2.0-licensed open-source project that was created by Microsoft and Red Hat^(R). It has become a Cloud Native Computing Foundation (CNCF) sandbox project. It was designed to provide better scaling options for event-driven applications on Kubernetes. For more information, see the [Introduction to KEDA](#) article.
- Capabilities in MQ Advanced 9.3 that first appeared in MQ 9.2.x CD releases:
 - Native HA (high availability) is available to IBM Cloud Pak^(R) for Integration clients for container-based queue managers being deployed to IBM

Cloud Pak for Integration on Red Hat OpenShift^(R) using the MQ certified container. Additionally, Native HA is now available to deploy in containers on Kubernetes. An example Helm chart has been provided in the [ibm-messaging GitHub](#). Supported container runtimes are documented under the Runtime Environments section of the MQ system requirement pages.

Native HA is designed to deliver efficient and security-rich replication of data for redundancy, integrated with quorum-controlled failover for safe and fast recovery from failures. Critically, this provides the same data integrity and consistency that you would expect from MQ, which is designed to provide full protection for every recoverable operation and message, to ensure that none are duplicated or lost. Native HA does not require any changes to your applications or restrictions to their behavior.

- The IBM MQ Advanced certified container can be used to deploy a production-ready IBM MQ image to IBM Cloud Pak for Integration or Red Hat OpenShift Container Platform.
- Replicated Data Queue Managers (RDQM) had several enhancements, including:
 - HA failed resource action identification and resolution. Failed resource actions can prevent queue manager failover or result in a queue manager running in a nonpreferred location. These can be displayed and resolved using dedicated commands.
 - RDQM HA and disaster recovery (DR) last "in sync" time information is now reported when nodes are not in sync, which can help with problem determination and recovery.
 - RDQM relies on a kernel module to provide data replication. Enhancements are delivered to help clients ensure they have loaded the correct kernel module and to improve diagnostics.

The ability to tap into existing data with new streaming queues

- Capabilities in MQ 9.3 that first appeared in MQ 9.2.x CD releases:
 - Streaming queues enable clients to tap into the value of data flowing over MQ. Streaming queues enable you to make message data available to Apache Kafka, AI, and analytics applications for real-time processing. There are no architectural changes required to your existing queues and, importantly, zero impact to existing applications.

Enhanced administration for improved user experience

- Capabilities in MQ 9.3 that first appeared in MQ 9.2.x CD releases:
 - MQ Console remote queue manager support enables clients to view and manage their MQ estate from a single user interface, regardless of whether queue managers are deployed in distributed, IBM z/OS^(R), MQ Appliance, or cloud environments. In addition, there are several enhancements to the usability of the MQ Console to improve the overall user experience.
 - Enhancements have been made to MQ Script (MQSC) commands to make it easier to ensure that queue managers are configured in a consistent way.
 - Messages that cannot be delivered to their correct destination are stored on a Dead Letter Queue (DLQ) for later retrieval and are processed or removed by a DLQ handler. The DLQ handler can connect to a remote queue manager and is included in the client package, in addition to the server package in which it is already available. This means that the DLQ handler can now connect to either a local or remote queue manager, including an MQ Appliance or cloud environment.
 - Additional REST API enhancements for improved administration.
 - REST Messaging API enhancements: The messaging REST API is used to perform simple point-to-point and publish messaging. For instance, messages can be published to a topic, sent to a queue, browsed on a queue, and destructively got from a queue. This RESTful API enables creating and consuming MQ messages without requiring an MQ client install. User properties can be set on messages, enabling the identification and routing of messages

more effectively. In addition, message priority can be set with the messaging REST API, and there is better support for correlation and message IDs.

Security enhancements

Security is an important consideration for developers of MQ applications and MQ system administrators. MQ 9.2.x includes several security enhancements that build on the existing robust security mechanisms to help ensure your mission-critical business data is protected, including:

- Capabilities in MQ 9.3 that first appeared in MQ 9.2.x CD releases:
 - The authority model has been simplified for MQ running in containers to enable you to define permissions for users without the users having to exist in a Lightweight Directory Access Protocol (LDAP) server.
 - Transport Layer Security (TLS) 1.3 for Java™ 8 is supported.
 - A TLS-only mode is available, and users are notified when a non-TLS communication is enabled.
 - Client Server Name Indicator (SNI) offers additional flexibility by enabling users to set a custom hostname instead of a channel name in the TLS SNI header.
 - .NET support for SNI over TLS.
 - Secure Sockets Layer (SSL) stanza password encryption and SNI password encryption have been added.
 - TLS support for the IBM MQ .NET XA Monitor application is added.
 - MQ Internet Pass-Thru (IPT) supports TLS 1.3 and can support multiple queue manager certificates.
- Capabilities in MQ Advanced 9.3 that first appeared in MQ 9.2.x CD releases:
 - MQ Advanced Message Security (AMS) password protection enhancements to improve security with AMS.

Updates to MQ Advanced Managed File Transfer capabilities

Among the additional capabilities provided by MQ Advanced is the ability to move file data over the MQ network with IBM MQ Advanced Managed File Transfer (MFT). MQ MFT is a more reliable and efficient means for secure data and file transfer, outpacing and outperforming applications like File Transfer Protocol (FTP), Hypertext Transfer Protocol (HTTP), Secure File Transfer Protocol (SFTP), and other methods.

- Capabilities in MQ 9.3 that first appeared in MQ Advanced 9.2.x CD releases:
 - MFT protocol bridge agent enhancements now enable users to limit file transfers per FTP and SFTP endpoint to reduce the risk of bottlenecks and effectively prioritize file transfers.
 - The MFT file logger component is now part of the redistributable MFT package to enable clients to optionally copy published information about actions for analysis and auditing purposes.
 - Commands to start and stop resource monitors. These two commands allow a resource monitor to start or stop without the need to stop/start an agent.
 - Assets to deploy the MFT agent in Red Hat OpenShift and Docker environments are now available, including an image published in Docker Hub with GitHub samples to enable customization.
 - Transfer logs are now provided for enhanced visibility of file transfer status. This provides more information to the user about the activities of MFT agents, including details of successful transfers and any failure cases. Transfer logs can assist users in resolving common problems and can be used to supply more detailed diagnostics if required by IBM support.
 - When clients run the RAS gathering tool with the fteRAS command, additional information is provided to confirm progress. The fteRAS command runs the RAS gathering tool to collect troubleshooting information (MustGather data). The data that fteRAS collects is specific to the Managed File Transfer installation on the system where the program is being run.

- Capabilities that first appear in MQ Advanced 9.3:
 - A REST API enables file data to be transferred over MQ with the create file transfer command. REST API commands have been updated to include commands to make a managed call request over the REST API, which is submitted through MQ to an MFT Agent. This allows for the full power of MFT Agents to be realized outside of transferring data.

Other enhancements and platform updates

- Capabilities in MQ 9.3 that first appeared in MQ 9.2.x CD releases:
 - MQ client support for Adoptium and IBM Semeru Java 11 runtimes
 - MQ client support for Oracle and Adoptium Java 17 runtimes
 - Windows Server 2022 support
 - Windows 11 support
 - The IA94 SupportPac has been repackaged to be unzippable and go with no installation and is also now licensed to be redistributable with applications. There are also defect fixes and other lifecycle updates. It is supported on Microsoft Windows, Linux^(R) x86-64 and AIX^(R).
- Capabilities that first appeared in MQ 9.3:
 - JMS 3.0 support is provided to extend the set of environments in which MQ can be used.
 - .NET 6 support
 - The MQ Explorer has been removed from the IBM MQ install package. It remains available to clients as a separate download.
 - The previously deprecated widget-based Dashboard Web Console has now been removed.

MQ on Cloud is available as a managed service on IBM Cloud^(R) or Amazon Web Services (AWS). For feature details, see the [IBM MQ supported features](#) web page.

Accessibility by people with disabilities

Accessibility Compliance Reports (previously known as a VPAT) containing details on accessibility compliance to standards, including the Worldwide Consortium Web Content Accessibility Guidelines, European Standard EN 301 349, and US Section 508, can be found on the [IBM Accessibility Conformance Reports](#) website.

Statement of general direction

Following are IBM deprecation and support plans to be fulfilled within a future release:

- IBM intends to make IBM MQ for z/OS^(R), 9.3 and IBM MQ Appliance 9.3 firmware available in the future.
- IBM intends to remove support for the following signing and encryption algorithms from the Advanced Message Security component in a future MQ release: MD5, SHA1, RC2, DES, and 3DES. Clients using these algorithms should migrate to stronger algorithms such as: SHA256, SHA384, SHA512, AES128, or AES256.

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.

Reference information

For general product information about MQ, see the [IBM MQ](#) website.

Availability of national languages

Description	Availability date	Language
IBM MQ 9.3	June 23, 2022	English, Japanese, Spanish, Korean, French, Traditional Chinese, Simplified Chinese, Polish, German, Hungarian, Brazilian Portuguese, Italian, Czech

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

Program number

Program number	VRM	Program name
5724-H72	9.3	IBM MQ for Multiplatforms
5737-H57	Cloud service	IBM MQ on Cloud

Offering Information

Product information is available on the [IBM Offering Information](#) website.

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

Publications

See [IBM MQ 9.3](#) documentation.

Note: The MQ 9.3 documentation will be available on or before the planned availability date.

Services

IBM Systems Lab Services

Systems Lab Services offers infrastructure services to help build hybrid cloud and enterprise IT solutions. From servers to storage systems and software, Systems Lab Services can help deploy the building blocks of a next-generation IT infrastructure to empower a client's business. Systems Lab Services consultants can perform infrastructure services for clients on-line or onsite, offering deep technical expertise, valuable tools, and successful methodologies. Systems Lab Services is designed to help clients solve business challenges, gain new skills, and apply best practices.

Systems Lab Services offers a wide range of infrastructure services for IBM Power^(R) servers, IBM Storage systems, IBM Z^(R), and IBM LinuxONE. Systems Lab Services has a global presence and can deploy experienced consultants on-line or onsite around the world.

For assistance, contact Systems Lab Services at ibmsls@us.ibm.com.

To learn more, see the [IBM Systems Lab Services](#) website.

IBM Consulting

As transformation continues across every industry, businesses need a single partner to map their enterprise-wide business strategy and technology infrastructure. IBM Consulting is the business partner to help accelerate change across an organization. IBM specialists can help businesses succeed through finding collaborative ways of working that forge connections across people, technologies, and partner ecosystems. IBM Consulting brings together the business expertise and an ecosystem of technologies that help solve some of the biggest problems faced by organizations. With methods that get results faster, an integrated approach that is grounded in an open and flexible hybrid cloud architecture, and incorporating technology from IBM Research^(R) and IBM Watson^(R) AI, IBM Consulting enables businesses to lead change with confidence and deliver continuous improvement across a business and its bottom line.

For additional information, see the [IBM Consulting](#) website.

IBM Technology Support Services (TSS)

Get preventive maintenance, onsite and remote support and gain actionable insights into critical business applications and IT systems. Speed developer innovation with support for over 240 open-source packages. Leverage powerful IBM analytics and AI-enabled tools to enable client teams to manage IT problems before they become emergencies.

TSS offers extensive IT maintenance and support services that cover more than one niche of a client's environment. TSS covers products from IBM and OEMs, including servers, storage, network, appliances, and software, to help clients ensure high availability across their data centre and hybrid cloud environment.

For details on available services, see the [Technology support for hybrid cloud environments](#) website.

IBM Expert Labs

Expert Labs can help clients accelerate their projects and optimize value by leveraging their deep technical skills and knowledge. With more than 20 years of industry experience, these specialists know how to overcome the biggest challenges to deliver business results that can have an immediate impact.

Expert Labs' deep alignment with IBM product development allows for a strategic advantage as they are often the first in line to get access to new products, features, and early visibility into roadmaps. This connection with the development enables them to deliver First of a Kind implementations to address unique needs or expand a client's business with a flexible approach that works best for their organization.

For additional information, see the [IBM Expert Labs](#) website.

IBM Security^(R) Expert Labs

With extensive consultative expertise on IBM Security software solutions, Security Expert Labs helps clients and partners modernize the security of their applications, data, and workforce. With an extensive portfolio of consulting and learning services, Expert Labs provides project-based and premier support service subscriptions.

These services can help clients deploy and integrate IBM Security software, extend their team resources, and help guide and accelerate successful hybrid cloud solutions, including critical strategies such as zero trust. Remote and on-premises software deployment assistance is available for IBM Cloud Pak^(R) for Security, IBM Security QRadar^(R)/QRoC, IBM Security SOAR/Resilient^(R), IBM i2^(R), IBM Security Verify, IBM Security Guardium^(R), and IBM Security MaaS360^(R).

For more information, contact Security Expert Labs at sel@us.ibm.com.

For additional information, see the [IBM Security Expert Labs](#) website.

Technical information

Specified operating environment

Software requirements

MQ 9.3 supports the following operating environments and programming languages.

Operating systems:

- Microsoft™ Windows™
- Linux^(R)
- IBM AIX^(R)
- IBM z/OS

Programming languages:

- Java™
- C/C++
- Microsoft.NET
- COBOL

For further language binding options, see the [IBM Messaging GitHub community](#) website.

For MQ product software requirements, see the [System Requirements for IBM MQ 9.3](#) web page.

For container runtime environments that are supported by the prebuilt MQ Advanced certified container, see the [System Requirements for IBM MQ 9.3](#) web page. 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 [System Requirements for IBM MQ 9.3](#) web page. Select the product component or operating system for the MQ release being used, and view the "Runtime Environment" section in the **Supported Software** tab 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.

Note: The system requirements for IBM MQ 9.3 will be available on or before the planned availability date.

Compatibility

Queue managers and clients in MQ 9.3 interoperate with queue managers and clients from current and previous levels of MQ, IBM WebSphere^(R) MQ, and IBM MQSeries^(R).

- IBM MQ Explorer runs on the Linux x86-64 and Microsoft Windows platforms.
- MQ Explorer, which is supplied with MQ 9.3, can use a client connection to connect to any supported level of MQ or WebSphere MQ on any platform.
- 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](#).

Additional IBM support

IBM Client Engineering

Client Engineering is a framework for accelerating digital transformation. It helps you generate innovative ideas and equips you with the practices, technologies, and expertise to turn those ideas into business value in weeks. When you work with Client Engineering, you bring pain points into focus. You empower your team to take manageable risks, adopt leading technologies, speed up solution development, and measure the value of everything you do. Client Engineering has experts and services to address a broad array of use cases, including capabilities for business transformation, hybrid cloud, analytics and AI, infrastructure systems, security, and more. Contact Client Engineering at sysgarage@ibm.com.

Planning information

Packaging

MQ 9.3 is delivered through the internet as an electronic download.

Ordering information

For ordering information, consult your IBM representative or IBM Business Partner, or go to the [Passport Advantage](#) website.

These programs are available only through Passport Advantage.

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

There is no new ordering information in this release. As a convenience, the following tables list all currently available part numbers.

IBM MQ

Program name/Description	Part number
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 Advanced

Program name/Description	Part number
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 for Non-Production Environment Processor Value Unit (PVU) License + Software Subscription and Support 12 Months	D052HZX
IBM MQ Advanced for Non-Production Environment Processor Value Unit (PVU) Software Subscription and Support Reinstatement 12 Months	D052IZX
IBM MQ Advanced for Non-Production Environment Processor Value Unit (PVU) Annual Software Subscription and Support Renewal	E052GZX
IBM MQ Advanced for Non-Production Environment Virtual Processor Core Software Monthly License	D052MZX

IBM MQ Telemetry

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

IBM MQ Advanced Message Security Component

Program name/Description	Part number
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

Program name/Description	Part number
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

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:

There is no new ordering information in this release. As a convenience, the following table lists all currently available trade-up part numbers for IBM MQ.

Precursor product	Trade-up product	Trade-up part number
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 ^(R) 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
MQ Advanced for Non-Production Environment Processor Value Unit (PVU) Trade Up License + SW Subscription & Support 12 Months	IBM MQ Advanced Processor Value Unit (PVU)	D29RYLL
IBM MQ Advanced for Non-Production Environment for Linux on IBM Z Processor Value Unit (PVU) Trade Up License + SW Subscription & Support 12 Months	IBM MQ Advanced for Linux on IBM Z Processor Value Unit (PVU)	D29RZLL

Consult your IBM representative if you have any questions.

Cross-platform product for use on IBM Z Integrated Facility for Linux (IFL) engines

Order the part numbers that follow when the product is intended to run on the Linux operating system on 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:

There is no new ordering information in this release. As a convenience, the following tables list all currently available part numbers for use when the product is intended to run on the Linux operating system on IBM Z IFL engines.

IBM MQ

Program name/Description	Part number
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)	D0GGNLL

Program name/Description	Part number
License + SW Subscription & Support 12 Months	
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 Subscription & Support Reinstatement 12 Months	D0GGPLL
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

Program name/Description	Part number
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

Program name/Description	Part number
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 Non-Production Environment for Linux on IBM Z Processor Value Unit (PVU) License + Software Subscription and Support 12 Months	D052KZX

Program name/Description	Part number
IBM MQ Advanced for Non-Production Environment for Linux on IBM Z Processor Value Unit (PVU) Software Subscription and Support Reinstatement 12 Months	D052LZX
IBM MQ Advanced for Non-Production Environment for Linux on IBM Z Processor Value Unit (PVU) Annual Software Subscription and Support Renewal	E052JZX
IBM MQ Advanced for Non-Production Environment for Linux on IBM Z Virtual Processor Core SW Monthly License	D052NZX

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

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 9.3	L-APIG-CAUEDT
5724-H72	IBM MQ Advanced 9.3	L-APIG-CAUEBE
5724-H72	IBM MQ Advanced for Non-Production Environment 9.3	L-APIG-CAUEBE
5724-H72	IBM MQ Managed File Transfer Service 9.3	L-APIG-CAUE8J
5724-H72	IBM MQ Managed File Transfer Agent 9.3	L-APIG-CAUE8J
5724-H72	IBM MQ Advanced Message Security 9.3	L-APIG-CAUE6S
5724-H72	IBM MQ Telemetry 9.3	L-APIG-CAUE5T
5724-H72	IBM MQ Advanced High Availability Replica 9.3	L-APIG-CAUE9P
5724-H72	IBM MQ Managed File Transfer Service High Availability Replica 9.3	L-APIG-CAUE3J
5724-H72	IBM MQ Advanced Message Security High Availability Replica 9.3	L-APIG-CAUE3J
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