Readme for IBM MQ 9.3 and its maintenance

This document contains the readme information for IBM MQ 9.3.0 Long Term Support release and its maintenance, and also for IBM MQ 9.3.x Continuous Delivery releases.

A PDF copy of this document, in English and in translation, is available for download here: https://public.dhe.ibm.com/software/integration/wmq/docs/V9.3/Readme/.

The English version of this document is the most up-to-date version.

Content

The main sections of this document describe product limitations and known problems.

In addition to this document, you can find more information on the IBM MQ website: https://www.ibm.com/products/mq.

The SupportPac web page is here: https://ibm.biz/mqsupportpacs.

For current information about known problems and available fixes, see the IBM MQ Support page: https://www.ibm.com/mysupport/s/topic/0TO5000000024cJGAQ/mq?language=en_US&productId=01t0z000006zdYXAAY.

Product documentation for all supported versions of IBM MQ is available through IBM Documentation: https://www.ibm.com/docs/ibm-mq. Specifically, the IBM MQ 9.3 product information is available in IBM Documentation: https://www.ibm.com/docs/ibm-mq/9.3.

Announcement letters

The announcement letters for IBM MQ 9.3 (US English) are available at the following locations. The announcement letters provide these types of information:

- Detailed product description, including description of new function.
- Product-positioning statement.
- Ordering details.
- Hardware and software requirements.
- Hourly pricing.

IBM MQ 9.3.5, IBM API Connect, IBM App Connect Enterprise, Noname Advanced API Security for IBM 1.1.1, and Noname Advanced API Security as a Service for IBM
https://www.ibm.com/docs/announcements/AD24-0123/index.html
IBM Cloud Pak for Integration 2023.4.1 and IBM MQ 9.3.4 deliver new integration capabilities; IBM StepZen Graph Server is renamed
https://www.ibm.com/docs/en/announcements/223-0759/index.html
IBM MQ Advanced for z/OS includes the Connector Pack
https://www.ibm.com/docs/en/announcements/223-0578/index.html
IBM Cloud Pak for Integration 2023.2.1, IBM API Connect Cloud Service, IBM Event Automation 1.0, IBM MQ for Multiplatforms 9.3.3, IBM MQ Appliance 9.3.3, and Noname Advanced API Security for IBM
https://www.ibm.com/docs/en/announcements/223-110/index.html
IBM MQ for Multiplatforms, IBM MQ for z/OS, IBM MQ for z/OS Value Unit Edition, IBM MQ Advanced for z/OS Value Unit Edition, IBM MQ Appliance, and IBM MQ on Cloud 9.3.2
https://www.ibm.com/docs/en/announcements/223-065/index.html
IBM Cloud Pak for Integration 2022.4.1, IBM Integration Bus for z/OS 10.1, IBM MQ 9.3.1, and IBM App Connect Enterprise as a Service
https://www.ibm.com/docs/en/announcements/222-341/index.html
IBM MQ 9.3 for Multiplatforms and IBM MQ on Cloud
https://www.ibm.com/docs/en/announcements/222-129/index.html
IBM MQ for z/OS, 9.3, IBM MQ Advanced for z/OS, 9.3, IBM MQ for z/OS VUE 9.3, and IBM MQ Advanced

for z/OS VUE 9.3
https://www.ibm.com/docs/en/announcements/222-131/index.html
IBM MQ Appliance M2003 (which runs the IBM MQ Appliance 9.3 firmware)
https://www.ibm.com/docs/en/announcements/222-212/index.html

Update history

Date	Summary
27 Jun 2025	Updates for IBM MQ 9.3.0, Fix Pack 30
29 Oct 2024	Updates for IBM MQ 9.3.0, Fix Pack 25
26 Jun 2024	Updates for IBM MQ 9.3.0, Fix Pack 20
26 Apr 2024	Updates for IBM MQ 9.3.5.1 and 9.3.0.17 CSUs
29 Feb 2024	Updates for IBM MQ 9.3.5 and link to the announcement letter
14 Dec 2023	Updates for IBM MQ 9.3.0, Fix Pack 15
31 Oct 2023	Link to the IBM MQ 9.3.4 announcement letter
19 Oct 2023	Updates for IBM MQ 9.3.4
31 Aug 2023	Updates for IBM MQ 9.3.0, Fix Pack 10
01 Aug 2023	Link to the IBM MQ Advanced for z/OS Connector Pack announcement letter
20 Jun 2023	Updates for IBM MQ 9.3.3
27 Apr 2023	Updates for IBM MQ 9.3.0, Fix Pack 5
16 Feb 2023	Updates for IBM MQ 9.3.2
21 Dec 2022	Updates for IBM MQ 9.3.0, Fix Pack 2
20 Oct 2022	Updates for IBM MQ 9.3.1
22 Sep 2022	Updates for IBM MQ 9.3.0, Fix Pack 1
15 Jul 2022	Link to the IBM MQ Appliance M2003 announcement letter
05 Jul 2022	Updates for IBM MQ 9.3.0 for z/OS
23 Jun 2022	Created for IBM MQ 9.3.0 for Multiplatforms

Installation instructions

Installation instructions are available as part of the IBM MQ 9.3 product information published in IBM Documentation: https://www.ibm.com/docs/SSFKSJ_9.3.0/install/q008250_.html

Limitations and known problems for Long Term Support releases

LIMITATIONS AND KNOWN PROBLEMS FOR IBM MQ 9.3.0, FIX PACK 30

There are no new limitations or known problems.

LIMITATIONS AND KNOWN PROBLEMS FOR IBM MQ 9.3.0, FIX PACK 25

There are no new limitations or known problems.

LIMITATIONS AND KNOWN PROBLEMS FOR IBM MQ 9.3.0, FIX PACK 20

Channel loops if a message on the transmit queue exceeds the MAXMSGL attribute of the queue manager

This fix pack adds the following return code (2491) that can appear in messages that are moved to the dead letter queue: *A message was put to a remote queue but the channel was unable to process the full message from the transmission queue because the message has properties that cause its total size to exceed the maximum message length that is allowed by the queue manager. The message has been moved to the dead-letter queue.*

Where possible, you should configure a dead letter queue handler to process any such messages. Or you can write an application to process each message. The application must use **MQGET** with option MQGMO_PROPERTIES_IN_HANDLE to get the message with properties in a message handle and the message payload in the message buffer.

Invalid platform value in the ProtocolBridgeProperties.xml file is ignored silently

In the Managed File Transfer ProtocolBridgeProperties.xml file, the **platform** value must be OS400, UNIX or WINDOWS. However, if you provide a different value the Protocol Bridge Agent does not report an error and defaults to the agent's platform. This can cause unexpected behaviors.

This issue is addressed by APAR IT45102, which is included in IBM MQ 9.3.5 and 9.3.0 Fix Pack 20. This APAR adds error message BFGPR0156E, which tells you there is an invalid data value in an XML file that you loaded and gives details to help you fix it.

LIMITATIONS AND KNOWN PROBLEMS FOR IBM MQ 9.3.0.17 CSU

Support is removed for RSA key exchange in FIPS mode

The IBM Java 8 JRE removes support for RSA key exchange when operating in FIPS mode. This JRE is used by the following IBM MQ components:

- AMQP server
- Managed File Transfer (MFT)
- IBM MQ Console
- IBM MQ Explorer
- IBM MQ REST API
- IBM MQ Telemetry service

For these components, you can no longer use the following CipherSuites:

- TLS_RSA_WITH_AES_256_GCM_SHA384
- TLS_RSA_WITH_AES_256_CBC_SHA256
- TLS_RSA_WITH_AES_256_CBC_SHA
- TLS_RSA_WITH_AES_128_GCM_SHA256
- TLS_RSA_WITH_AES_128_CBC_SHA256
- TLS_RSA_WITH_AES_128_CBC_SHA
- TLS_RSA_WITH_3DES_EDE_CBC_SHA

You must use an alternative CipherSuite, or disable FIPS mode. For details of supported CipherSuites, see TLS CipherSpecs and CipherSuites in IBM MQ classes for JMS in the IBM MQ product documentation.

LIMITATIONS AND KNOWN PROBLEMS FOR IBM MQ 9.3.0, FIX PACK 15

IBM MQ Bridge to blockchain is removed

The IBM MQ Bridge to blockchain was deprecated across all releases from November 22 2022, and is removed from the product at IBM MQ 9.3.0.15. If your system has the MQSeriesBCBridge component installed, remove it manually after this maintenance update has completed.

LIMITATIONS AND KNOWN PROBLEMS FOR IBM MQ 9.3.0, FIX PACK 10

There are no new limitations or known problems.

LIMITATIONS AND KNOWN PROBLEMS FOR IBM MQ 9.3.0, FIX PACK 5

IBM MQ AMQP channel does not start automatically with AMQP service after upgrade

When a queue manager with a running AMQP channel is upgraded to IBM MQ 9.3, and the queue manager and associated AMQP service are restarted, the previously running AMQP channel does not start automatically.

This issue is fixed by APAR IT37842, which is included in IBM MQ 9.3.0 Fix Pack 5.

Note that migration runs only once; the first time the queue manager is started after an upgrade. Therefore, after you apply IBM MQ 9.3.0 Fix Pack 5

- If, prior to installing IBM MQ 9.3.0 Fix Pack 5, you have started the queue manager and AMQP channel on any previous IBM MQ 9.3 level, then the AMQP channel will start automatically. You do not need to take any additional action.
- If, prior to installing IBM MQ 9.3.0 Fix Pack 5, you have not started the queue manager and AMQP channel on any previous IBM MQ 9.3 level, then any previously running AMQP channels must be restarted manually when the queue manager and associated AMQP service are restarted.

LIMITATIONS AND KNOWN PROBLEMS FOR IBM MQ 9.3.0, FIX PACKS 1 AND 2

There are no new limitations or known problems.

Limitations and known problems for Continuous Delivery releases

LIMITATIONS AND KNOWN PROBLEMS FOR IBM MQ 9.3.5.1 CSU

Support is removed for RSA key exchange in FIPS mode

The IBM Java 8 JRE removes support for RSA key exchange when operating in FIPS mode. This removal applies to the following CipherSuites:

- TLS_RSA_WITH_AES_256_GCM_SHA384
- TLS_RSA_WITH_AES_256_CBC_SHA256
- TLS_RSA_WITH_AES_256_CBC_SHA
- TLS_RSA_WITH_AES_128_GCM_SHA256
- TLS_RSA_WITH_AES_128_CBC_SHA256
- TLS_RSA_WITH_AES_128_CBC_SHA
- TLS_RSA_WITH_3DES_EDE_CBC_SHA

To continue using FIPS mode, the following IBM MQ components should be changed to use a CipherSuite that is still supported:

- AMQP server
- Managed File Transfer (MFT)
- IBM MQ Console
- IBM MQ Explorer
- IBM MQ REST API
- IBM MQ Telemetry service

For details of supported CipherSuites, see TLS CipherSpecs and CipherSuites in IBM MQ classes for JMS in the IBM MQ product documentation.

LIMITATIONS AND KNOWN PROBLEMS FOR IBM MQ 9.3.5

Invalid platform value in the ProtocolBridgeProperties.xml file is ignored silently

In the Managed File Transfer `ProtocolBridgeProperties.xml` file, the **platform** value must be `OS400`, `UNIX` or `WINDOWS`. However, if you provide a different value the Protocol Bridge Agent does not report an error and defaults to the agent's platform. This can cause unexpected behaviors.

This issue is addressed by APAR IT45102, which is included in IBM MQ 9.3.5 and 9.3.0 Fix Pack 20. This APAR adds error message BFGPR0156E, which tells you there is an invalid data value in an XML file that you loaded and gives details to help you fix it.

LIMITATIONS AND KNOWN PROBLEMS FOR IBM MQ 9.3.4

License entitlement message is received when installing IBM MQ 9.3.4 Developer Edition on Red Hat

When installing the Developer Edition on Red Hat, you might receive the following message several times:

```
AMQ5770E: Licensed entitlement 'advanced' could not be set for installation at '/opt/mqm'.
```

This issue does not affect operation of IBM MQ 9.3.4 Developer Edition, and the message may be ignored.

LIMITATIONS AND KNOWN PROBLEMS FOR IBM MQ 9.3.3

IBM MQ AMQP channel does not start automatically with AMQP service after upgrade

When a queue manager with a running AMQP channel is upgraded to IBM MQ 9.3, and the queue manager and associated AMQP service are restarted, the previously running AMQP channel does not start automatically.

This issue is fixed by APAR IT37842, which is included in IBM MQ 9.3.3.

Note that migration runs only once; the first time the queue manager is started after an upgrade. Therefore, after you apply IBM MQ 9.3.3:

- If, prior to installing IBM MQ 9.3.3, you have started the queue manager and AMQP channel on any previous IBM MQ 9.3 level, then the AMQP channel will start automatically. You do not need to take any additional action.
- If, prior to installing IBM MQ 9.3.3, you have not started the queue manager and AMQP channel on any previous IBM MQ 9.3 level, then any previously running AMQP channels must be restarted manually when the queue manager and associated AMQP service are restarted.

Linux: Empty directories left after uninstall

When you uninstall the product on Linux, empty directories are left in the *MQ_INSTALLATION_PATH* directory.

This issue is being addressed in a later release. Meanwhile, these empty directories cause no problems with running the product, and can be ignored.

LIMITATIONS AND KNOWN PROBLEMS FOR IBM MQ 9.3.1 AND 9.3.2

There are no new limitations or known problems.

Limitations and known problems for the initial IBM MQ 9.3.0 release

Warning messages received from IBM MQ Explorer on Linux startup

When starting IBM MQ Explorer from a Linux shell, the following messages (or similar) might be seen:

```
(MQExplorer:76481): dbind-WARNING **: 18:20:00.523: Couldn't register with accessibility
bus: Did not receive a reply.
Possible causes include: the remote application did not send a reply, the message bus
security policy blocked the reply,
the reply timeout expired, or the network connection was broken.
```

```
(java:76601): dbind-WARNING **: 18:20:00.927: Couldn't register with accessibility bus: Did
not receive a reply.
```

```
Possible causes include: the remote application did not send a reply, the message bus
security policy blocked the reply,
the reply timeout expired, or the network connection was broken.
SWT SessionManagerDBus: Failed to connect to org.gnome.SessionManager: Could not connect:
Permission denied
SWT SessionManagerDBus: Failed to connect to org.xfce.SessionManager: Could not connect:
Permission denied
```

This issue does not affect operation of IBM MQ Explorer and can be suppressed by setting the following environment variable:

```
NO_AT_BRIDGE=1
```

This issue is fixed in IBM MQ Explorer 9.3.1.

Properties are missing from IBM MQ Explorer web console panels

For the IBM MQ Explorer, when you start a local queue manager, the INITKEY and KEYRPWD properties are missing from the web console panels.

This issue is fixed by APAR IT41181, which is included in IBM MQ Explorer 9.3.1.

Windows installer launchpad incorrectly flags Windows Server 2016 as a supported platform

The IBM MQ 9.3.0 Windows installer launchpad flags Windows Server 2016 as a supported platform. However, this is not correct. Windows Server 2016 is not supported by IBM MQ 9.3.

This issue is fixed by APAR IT41233, which is included in IBM MQ 9.3.0 Fix Pack 1 and IBM MQ 9.3.1.

Many entries for message CSQM586E in the IBM MQ for z/OS job log

On IBM MQ for z/OS, if a queue is configured with a streaming queue and has STRMQOS(BESTEF) set, then any failure to **MQOPEN**, **MQPUT** or **MQPUT1** to the streaming queue will result in message CSQM586E being output to the job log.

If the number of logged messages is deemed excessive, they can be suppressed using **EXCLMSG**.

Alternatively STRMQOS(MUSTDUP) can be used.

IBM MQ AMQP channel does not start automatically with AMQP service after upgrade

When a queue manager with a running AMQP channel is upgraded to IBM MQ 9.3, and the queue manager and associated AMQP service are restarted, the previously running AMQP channel does not start automatically.

This issue is fixed by APAR IT37842, which is included in IBM MQ 9.3.0 Fix Pack 5.

Note that migration runs only once; the first time the queue manager is started after an upgrade. Therefore, after you apply IBM MQ 9.3.0 Fix Pack 5

- If, prior to installing IBM MQ 9.3.0 Fix Pack 5, you have started the queue manager and AMQP channel on any previous IBM MQ 9.3 level, then the AMQP channel will start automatically. You do not need to take any additional action.
- If, prior to installing IBM MQ 9.3.0 Fix Pack 5, you have not started the queue manager and AMQP channel on any previous IBM MQ 9.3 level, then any previously running AMQP channels must be restarted manually when the queue manager and associated AMQP service are restarted.

Copyright, notices and trademarks

Copyright and trademark information

This information was developed for products and services offered in the U.S.A.

IBM may not offer the products, services, or features discussed in this information in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or

service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this information. The furnishing of this information does not give you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, NY 10504-1785
U.S.A.

For license inquiries regarding double-byte character set (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

Intellectual Property Licensing
Legal and Intellectual Property Law
IBM Japan, Ltd.
19-21, Nihonbashi-Hakozakicho, Chuo-ku
Tokyo 103-8510, Japan

The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law:

INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the information. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this information at any time without notice.

Any references in this information to non-IBM web sites are provided for convenience only and do not in any manner serve as an endorsement of those web sites. The materials at those web sites are not part of the materials for this IBM product and use of those web sites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

IBM Corporation
J46A/G4
555 Bailey Avenue
San Jose, CA 95141-1003
USA

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this information and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Programming License Agreement, or any equivalent agreement between us.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of

those products. This information includes examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.