

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/OTO5000000024cJGAQ/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
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 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. 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 Long Term Support releases

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 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.

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