

New SYSTEM queues added in IBM MQ 7.1, 7.5, 8.0, 9.0, 9.1, 9.2 and 9.3 LTS

<https://www.ibm.com/support/pages/node/213019>

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+++ Question

Are there new SYSTEM queues added in IBM MQ 7.1, 7.5, 8.0, 9.0, 9.0.1, 9.1, 9.2 and 9.3 LTS?

The discussion is centered on Long Term Support (LTS); that is, this document does not cover Continuous Delivery (CD).

+++ References

+ Documentation

<https://www.ibm.com/docs/en/ibm-mq/9.3?topic=reference-system-default-objects>
IBM MQ / 9.3
System and default objects

+ Related technotes

<https://www.ibm.com/support/pages/node/487355>
New objects and new attributes for objects in IBM MQ 7.1, 7.5, 8.0, 9.0, 9.1, 9.2 and 9.3 LTS

<https://www.ibm.com/support/pages/node/198031>
New IBM MQ 7.1, 7.5, 8.0, 9.0, 9.1, 9.2 and 9.3 LTS attributes in DISPLAY QMGR for new or migrated queue managers

+++ Answer:

++ For MQ 9.3 LTS

No new SYSTEM queues were added in MQ 9.3 LTS

++ For MQ 9.2 LTS

a) No new SYSTEM queues were added in MQ 9.2 LTS

b) However, the following QLOCAL was REMOVED in MQ 9.2 LTS:
SYSTEM.MESSAGE.ASSOCIATION.QUEUE

++ For MQ 9.1 LTS

No new SYSTEM queues were added in MQ 9.1 LTS

++ For MQ 9.0 LTS

SYSTEM.AMQP.COMMAND.QUEUE
Used for MQ Light

SYSTEM.REST.REPLY.QUEUE
Used with REST API

++ For MQ 8.0

SYSTEM.DDELAY.LOCAL.QUEUE
DESCR('MQ Deferred Delivery Queue')

<https://www.ibm.com/docs/en/ibm-mq/9.2?topic=functionality-jms-20-delivery-delay>

IBM MQ / 9.2

JMS 2.0 delivery delay

SYSTEM.DDELAY.LOCAL.QUEUE

A new system queue, SYSTEM.DDELAY.LOCAL.QUEUE, is used to implement delivery delay.

- On distributed systems, SYSTEM.DDELAY.LOCAL.QUEUE exists by default. The system queue must be altered so that its MAXMSGL and MAXDEPTH attributes are sufficient for the expected load.

- [z/OS] On MQ for z/OS®, SYSTEM.DDELAY.LOCAL.QUEUE is used as a staging queue for messages that are sent with delivery delay to both local and shared queues. On z/OS, the queue must be created and must either be defined so that its MAXMSGL and MAXDEPTH attributes are sufficient for the expected load.

SYSTEM.INTERNAL.REQUEST.QUEUE

DESCR('MQ Internal Request Queue')

Note: No information available yet in the MQ 8.0 Documentation

SYSTEM.MESSAGE.ASSOCIATION.QUEUE

DESCR('MQ Message Association Queue')

Note: No information available yet in the MQ 8.0 Documentation

++ For MQ 7.5

SYSTEM.CLUSTER.TRANSMIT.MODEL.QUEUE

<https://www.ibm.com/docs/en/ibm-mq/9.2?topic=cluster-adding-queue-manager-separate-transmission-queues>

IBM MQ / 9.2

Adding a queue manager to a cluster: separate transmission queues

Every time the queue manager creates a cluster-sender channel to send a message to a queue manager, it creates a cluster transmission queue. The transmission queue is used only by this cluster-sender channel. The transmission queue is permanent-dynamic. It is created from the model queue, SYSTEM.CLUSTER.TRANSMIT.MODEL.QUEUE, with the name SYSTEM.CLUSTER.TRANSMIT.ChannelName.

SYSTEM.PROTECTION.ERROR.QUEUE

SYSTEM.PROTECTION.POLICY.QUEUE

These 2 queues are used by MQ Advanced Message Security (AMS)

<https://www.ibm.com/docs/en/ibm-mq/9.2?topic=ams-quick-start-guide-aix-linux>

IBM MQ / 9.2

[AIX][Linux]

Quick Start Guide for AMS on AIX and Linux

The queue SYSTEM.PROTECTION.ERROR.QUEUE is used to put error messages generated by the AMS code.

The queue SYSTEM.PROTECTION.POLICY.QUEUE stores the policies defined by the MQ Administration for protecting other queues with the AMS function.

Even if you are not using AMS, you may see entries in the error logs regarding this queue.

See the following technote for more information:

<https://www.ibm.com/support/pages/websphere-mq-75-client-generates-rc-2085-missing-queue-systemprotectionpolicyqueue-websphere-mq-70-or-71-queue-managers-are-enabled-local-events>

WebSphere MQ 7.5 client generates rc 2085 for missing queue

SYSTEM.PROTECTION.POLICY.QUEUE on WebSphere MQ 7.0 or 7.1 queue managers that are enabled for local events

++ For MQ 7.1

SYSTEM.ADMIN.PUBSUB.EVENT

<https://www.ibm.com/docs/en/ibm-mq/9.2?topic=events-event-types>

IBM MQ / 9.2

Event types

<https://www.ibm.com/docs/en/ibm-mq/9.2?topic=multicast-application-monitoring>

IBM MQ / 9.2

Multicast application monitoring

The status of the current publishers and subscribers for multicast traffic (for example, the number of messages sent and received, or the number of messages lost) is periodically transmitted to the server from the client. When status is received, the COMMEV attribute of the COMMINFO object specifies whether or not the queue manager puts an event message on the SYSTEM.ADMIN.PUBSUB.EVENT.

SYSTEM.ADMIN.TRACE.ACTIVITY.QUEUE

<https://www.ibm.com/docs/en/ibm-mq/9.2?topic=trace-configuring-central-collection-application-activity-information>

IBM MQ / 9.2

Configuring central collection of application activity trace information

Activity records are written to the new system queue

SYSTEM.ADMIN.TRACE.ACTIVITY.QUEUE. They collect information about the MQI operations that an application performs while connected to a queue manager.

SYSTEM.CHLAUTH.DATA.QUEUE

<https://www.ibm.com/docs/en/ibm-mq/9.2?topic=support-channel-authentication-records-troubleshooting>

IBM MQ / 9.2

Troubleshooting channel authentication records

Behaviour of SET CHLAUTH command over queue manager restart

If the SYSTEM.CHLAUTH.DATA.QUEUE, has been deleted or altered in a way that it is no longer accessible i.e. PUT(DISABLED), the SET CHLAUTH command will only be partially successful.

SYSTEM.DOTNET.XARECOVERY.QUEUE

<https://www.ibm.com/docs/en/ibm-mq/9.2?topic=net-transaction-recovery-process-mq>

IBM MQ / 9.2

Transaction recovery process for IBM MQ .NET

To recover an incomplete transaction the recovery information is required. The transaction recovery information must be logged to storage by the resource managers.

MQ .NET classes follow a similar path. The transaction recovery information is logged to a system queue called SYSTEM.DOTNET.XARECOVERY.QUEUE.

SYSTEM.JMS.TEMPQ.MODEL

<https://www.ibm.com/docs/en/ibm-mq/9.2?topic=application-jms-persistent-messages>

IBM MQ / 9.2

JMS persistent messages

The JMS Layer can use SYSTEM.JMS.TEMPQ.MODEL, instead of SYSTEM.DEFAULT.MODEL.QUEUE.

SYSTEM.JMS.TEMPQ.MODEL creates permanent dynamic queues that accept persistent messages, because SYSTEM.DEFAULT.MODEL.QUEUE cannot accept persistent messages. If you wish to use temporary queues to accept persistent messages, you must therefore use SYSTEM.JMS.TEMPQ.MODEL, or change the model queue to an alternative queue of your choosing.

+++ end +++