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# Red Hat Enterprise

## MRG 1.1.2

### Messaging Release Notes 1-1-2

Release Notes for MRG Messaging 1.1.2



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#### Abstract

These Release Notes contain important information available at the time of release of Red Hat Enterprise MRG 1.1.2. Known problems, resources, and other issues are discussed here. Read this document before beginning to use the Red Hat Enterprise MRG distributed computing platform.

#### A. Revision History

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The following is a list of bug fixes in the 1.1.2 release of MRG Messaging.

Bugzilla Number	Description
492521	When a queue was deleted, <b>qpidd-config</b> and <b>qpidd-tool</b> were still showing it as an active queue until <b>qpidd</b> was restarted. The behavior was corrected, and the tools no longer show the deleted queue.
494343	It was possible to delete default exchanges, which caused the management tools to stop working. A check has now been added, which prevents default exchange instances from being deleted.
497544	When state transfer to new cluster members occurred, a bug in the replication exchange instance caused the new node to exit with a segmentation fault. This bug has now been fixed, and new cluster members can be successfully created.
499091	There was no way to check if a <b>Session</b> object was safe to invoke. A new method has been added that indicates whether a <b>Session</b> object is valid. This is used to determine if the methods on the object are safe to invoke.
499872	Issuing queries on long-running QMF sessions could sometimes result in minor inconsistencies between cluster nodes while servicing these queries. These are not harmful and the exception that was previously generated in this case has been suppressed.
500174	The management methods for purging queues, forced closing of connections, and detaching of sessions have been disabled on clusters. They could potentially cause harmful inconsistency in the replication state.
500822	Intermittent core dumps were observed when management operations continued after key objects were deleted. The shutdown sequence has been altered to prevent this behavior.
501327	An algorithm used to check consistency between errors that were encountered during the servicing of application requests was overly verbose. The algorithm sent log messages that were marked as critical. The log level was reduced to debug where the errors agreed, allowing the amount of log messages to be reduced.
501789	Certain request patterns were causing segmentation faults when they occurred on a cluster node that was processing an application

Bugzilla Number	Description
	error. This has been fixed, and the faults no longer occur.
504977	Knowledge of client sessions was not being propagated to new nodes that join the cluster when the sessions were connected on channel 0 of their connection. This created errors when commands were issued over those sessions. This has been corrected by causing the broker to handle channel 0 correctly. Additionally, the python client no longer uses channel 0 by default.
502193	The use of federation to convey replication events from a source cluster to a backup can result in temporarily inconsistent views of the federation session on the different nodes of the source cluster. This condition is not harmful to the operation of the cluster or the federation bridge and is now logged as information instead of generating an exception.
502810	When joining a cluster, the policies record of the current count and size of a given queue may be inaccurate. This is caused by enqueued messages being counted twice. This behavior was corrected, and enqueued messages are now counted correctly.
501689	An attempt to open a connection would fail if less than three file handles were available. This caused the internal state of the connection to become inconsistent and create a segmentation fault when the connection was deleted, or an attempt to reconnect was made. This problem has been resolved, and the fault no longer occurs.
503024	When unacknowledged messages existed on a queue with ring policy, a new node joining the cluster would cause the queue to become inconsistent. This behavior has been corrected, the queues now remain consistent.
502223	The C++ QMF Console library would not allow access to a subset type using a superset type. For example, using <b>attrUInt64</b> to access a value of type <b>UInt</b> always yields 0. This also occurs for <b>Int64/Int</b> and <b>Double/Float</b> . The API now considers valid automatic conversions when retrieving attribute values.
501552	When the JMS client was explicitly rolled back, messages were released and subsequently redelivered in an unpredictable order. This

Bugzilla Number	Description
	problem has been resolved, and messages now remain in order.
500146	When a JMS connection timed out, the underlying socket was not being closed correctly. This was causing erroneous retry attempts. The failover policy has been corrected in order to prevent this situation.
503526	If <i>JMSMessageID</i> was used in a selector it was not being recognized as a standard JMS header. This was leading to an incorrect evaluation of the selector. <i>JMSMessageID</i> has been added as a standard JMS header <b>PropertyExpansion.java</b> so that it is now recognized as a standard JMS header and the selector produces the correct evaluation.
503539 & 504650	JMS TTL was not being set correctly, resulting in the broker failing to expire them as expected. This behavior has been corrected, and the broker now expires JMS TTL messages correctly.
504536	Pressing <b>CTRL-Z</b> was not triggering a heartbeat in the broker. This has been rectified, and the behavior is now as expected.
504590	The broker was taking a significant amount of time to detect that a client session had been lost. This is avoided by instructing <b>qpidd</b> to use heartbeats to assist with the detection of lost clients.
504708	When clients lost connections to a durable LVQ, a deadlock was created that caused <b>qpidd-tool</b> and <b>qpidd-config</b> to appear to hang, although no errors were logged on the server. This deadlock was removed, and the management tools now run as expected.
505040	When the messaging broker was hung, establishing a QMF connection would not succeed, but hang indefinitely. This has been rectified, and the process will now fail after some time.
502914	When an application using the C++ QMF API is shut down by a signal, it would occasionally cause a crash. This was caused by unordered destruction of resources. The behavior has been fixed, and crashes of this nature no longer occur.

Table 1. MRG Messaging Bug Fixes

## A. Revision History

Revision 1.0     Fri Jun 12 2009

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Revision 0.2     Fri Jun 12 2009

Lana Brindley [lbrindle@redhat.com](mailto:lbrindle@redhat.com)

Added XML tagging to document

Removed errata number reference, as this will change

Revision 0.1     Fri Jun 12 2009

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Added information from RHBA-2009:8680

Revision 0.0     Thu Jun 11 2009

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Document Creation

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