

Software AG Universal Messaging 10.3 Readme

October 2018

This file contains important information you must read before using Software AG Universal Messaging 10.3. You can find system requirements, user documentation, and installation and upgrade instructions on the Documentation website at <http://documentation.softwareag.com/> or the TECHcommunity website at <http://techcommunity.softwareag.com/>. At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

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1.0 Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the Empower website at <https://empower.softwareag.com/>.

2.0 Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

- NUM-18109
A Universal Messaging client may fail to receive events sent to a Universal Messaging server over AMQP via the AMQPNetLite library. The client returns an `ArrayIndexOutOfBoundsException`. For a workaround to this issue, contact Software AG Global Support.
- NUM-11915
When you use the synchronous transactional queue consumption mechanism in the Universal Messaging C++ or C# client API, you might encounter the following issue:
When you use `nQueueSyncTransactionReader`'s `commit` or `rollback` APIs to acknowledge or roll back received events, the APIs commit or roll back all received events, including events received by other synchronous transactional readers for this queue in the same session.
To avoid this behavior when consuming from a queue with multiple transactional readers, create each reader with its own dedicated session.
- NUM-10799
Uninstallation may not remove UM Windows service.
Windows services created during or after installation of Universal Messaging may not be removed when the product is uninstalled. Users should check whether any such services still exist after uninstallation and manually remove them if so, using the Windows Services control panel.
- NUM-10743
MQTT QoS-2 connections are not downgraded to QoS-1.
The MQTT implementation in Universal Messaging does not support MQTT QoS level 2. Connections requesting QoS-2 should be downgraded to QoS-1 as permitted by the MQTT specification, but this does not currently happen. MQTT applications should avoid requesting QoS-2 connections to Universal Messaging until this defect is resolved.
- NUM-10210
UM instance manager crashes if instance name is too long.
The Universal Messaging instance manager tool may crash when run on Windows with an instance name longer than 42 characters, although the instance may still be created. The only workaround is to use a shorter instance name.
- NUM-10177
Clients may need to reconnect for changed realm properties to take effect.
Some Universal Messaging realm properties, such as the AMQP Message Transformation setting,

are applied on a per-connection basis, meaning that clients must re-connect to pick up a change in the realm-wide value. The Universal Messaging documentation will be updated to reflect which configuration properties are affected by this behavior.

- NUM-8944
Enterprise Manager should not be able to connect to two clusters with the same name.
If you sequentially create two clusters with the same name but with different realms in Enterprise Manager, Enterprise Manager displays a single cluster node that lists only the realms of the first cluster in the tree panel. If you have two existing clusters with the same name and sequentially add a realm from each cluster in Enterprise Manager, Enterprise Manager displays a single cluster node that lists the realms of both clusters in the tree panel.
- NUM-9489
JMS API allows creation of multiple exclusive durables with the same name.
Since the 9.12 release, the JMS Session.createDurableSubscriber allows creating more than one exclusive durable subscriber with the same name, with no exception thrown or other indication that this has occurred.
Workaround: Client code should ensure that all exclusive durables have unique names.
- NUM-9263
When using the C++ client API, if you specify a number bigger than 16 (default) for the session thread pool size, creating the seventeenth session will result in an error because the Universal Messaging default thread pool size is exceeded.
The workaround is to increase the thread pool size by calling `nSession::setThreadPoolSize` to ensure enough threads are available.
- NUM-7839
If an exclusive asynchronous durable is created, closed and then re-subscribed immediately, it is possible for the client to receive an exception that the subscriber is already bound. This is caused because the session disconnected operation does not wait for all resources to be cleaned. If a client waits for a while before the second subscription, all resources on the server are cleaned so the subscription is successful, but there is no way currently to ensure the exact point of time at which everything is cleaned.
- NUM-6873
Out of order event after restarting shared durable receiver
Disordering of events can occur when re-starting a shared durable subscriber with unacknowledged events using the queued shared durable implementation.
A workaround for this is to ensure that the “Fanout Config -> SyncQueuePublisher” realm configuration property is set to false. This however may cause excess events to build up on server queues in scenarios where consumers do not keep up with publishers.
Note that for a Universal Messaging delivery as part of a webMethods bundle, the configuration property defaults to false anyway.

- NUM-6147
P2P hidden channel appearing
When upgrading an installation from 9.10, a channel with the name "-p2p/serviceinfo" may be visible within the namespace of Universal Messaging. This channel can safely be removed as it is an artifact of a deprecated and now removed feature P2P. If not removed it will have no adverse effect on Universal Messaging.
- Shared memory drivers are currently not supported on HP-UX systems
On HP-UX® systems, shared memory drivers are currently not supported.
There is currently no workaround for this issue.
- NUM-2211
Paged Store type is unsupported in Solaris / SPARC with JDK 1.8.
Currently, the Paged Storage feature is not supported in a Solaris® / SPARC® environment with JDK 1.8.
Workaround: Consider using JDK 1.7 instead.

3.0 Usage Notes

This section provides any additional information you need to work with the current release of this product.

- The Java®-based components of Universal Messaging are now built to require a Java 8 virtual machine at runtime. Releases before 10.2 would run against older Java virtual machine versions but these are no longer supported in this release. The minimum Java virtual machine version that should be used is the one included in the product installation.
- Issues related to the “Pause Publishing” feature:
 - Modifying JNDI entries is not possible while publishing is paused. This is because JNDI entries are stored in a Universal Messaging channel.
 - Clients created using an API from a product release prior to v10.1 will not throw the intended nSessionPauseException while publishing is paused. Java® publish / commit operations will throw nBaseClientException, whereas C++ and C# will throw nUnexpectedResponseException.
 - If publishing is paused, editing a store through Enterprise Manager will cause the events on the store to be lost, as they cannot be republished on the re-created store.
- The set of Windows Start Menu entries created for each Universal Messaging instance has been simplified. In the 10.3 release each instance will have a Start Menu entry for an “Examples Command Prompt” and for a “Realm Server Command Prompt”. The language-specific command prompt entries created by previous releases have been removed, and the documentation updated to describe how to configure the environment to develop with Universal Messaging using these languages.
- The server-side event filtering functionality in Universal Messaging does not support filtering of

Google Protocol Buffer events using the “map” container type available in recent versions of the Google Protocol Buffer language.

- A significant number of realm server configuration properties have been removed in the 10.3 release. See the Release Notes document for further details of these changes.

4.0 Fixes Included in Each Release

For detailed information about available fixes that have been applied in current or previous product releases, go to the Knowledge Center on the Empower website.

5.0 Resolved Issues

The current release resolves many functional, robustness and performance issues that arose in previous releases. This section provides a short summary of the resolved issues that may be of most interest to customers.

Release 10.3

- NUM-10389
Possible memory leak when deleting channels.
A memory leak of cached Google Protocol Buffer definitions that could be triggered by deleting channels from the Universal Messaging realm server has been resolved.
- NUM-10317
JAVA_HOME environment variable not tailored correctly on Windows.
The JAVA_HOME environment variable was not being correctly tailored to point to the installed Java Virtual Machine when opening one of the Universal Messaging command prompts from the Windows Start Menu. The variable will now be set correctly.
- NUM-10313
Enterprise Manager hangs after 10 minutes.
The Universal Messaging Enterprise Manager tool could hang after a period of time when connected to a realm server under heavy load. This issue has been resolved.
- NUM-9719
AMQP/JMS mapping header mismatch.
The AMQP to JMS mapping supported by Universal Messaging has been updated to include some additional mappings defined in the latest updates to the AMQP specification.

Release 10.2

- NUM-9143

It is not possible to import a realm configuration exported from UM 10.1.

Previous releases allowed realm configurations containing clustered Simple and Transient channels to be imported even though these configurations are unsupported. The import tooling has been updated to detect such invalid configurations and allow automatic upgrading of these channels to Mixed type if requested by the user.

- NUM-9326

UM's SPM should set connection name for admin connection.

The Software AG Platform Manager (SPM) plugin for Universal Messaging will now set the "connection name" property when making an administrative connect to the Universal Messaging server. This allows easier identification of the clients connecting to a particular server.

6.0 Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 10.3

- The Universal Messaging Clustering Guide, which was previously released as a PDF file complementing the product documentation set, has now been incorporated into the Universal Messaging Concepts Guide.
- Detailed documentation of the AMQP (Advanced Message Queueing Protocol) implementation in Universal Messaging has been added to the product documentation set.
- The differences in functionality available through the Universal Messaging management UIs in Enterprise Manager and Command Central have been documented.

Release 10.2

In previous releases of the documentation, the terms “named object” and “durable subscription” were used to mean the same thing. In this release all use of “named object” has been dropped in favor of the terms “durable subscription” or just “durable”.

Release 9.12

The description of how to use Command Central to perform administrative tasks on Universal Messaging has moved from the Command Central documentation set to the Administration Guide of the Universal Messaging documentation set.

7.0 Terminology Changes

Information for a release is listed in this section only if changes occurred in that release. Added, Removed, Deprecated, or Changed Items

See the *Release Notes* document in the Universal Messaging documentation.

8.0 Added, Removed, Deprecated, or Changed Items

See the Release Notes document in the Universal Messaging documentation.

9.0 Added, Removed, Deprecated, or Changed Parameters

See the *Release Notes* document in the Universal Messaging documentation.

10.0 Added, Removed, Deprecated, or Changed APIs

See the *Release Notes* document in the Universal Messaging documentation.

11.0 Copyright Information

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12.0 Support

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Visit the [TECHcommunity website](#) to access additional articles, demos and tutorials, technical information, samples, useful resources, online discussion forums, and more.

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