



UNIVERSAL MESSAGING COMPARISON WITH WEBMETHODS BROKER

2020

Universal Messaging Product Team

The purpose of the information in this deck is to indicate comparable high level features between Universal Messaging and webMethods Broker. The products provide similar but not identical features and the information is intended to form part of the overall decision process on when to move from webMethods Broker to Universal Messaging.

You should also refer to the following document which provides information on areas that are as yet partially comparable and may affect your decision to migrate.

<https://empower.softwareag.com/sl24sec/SecuredServices/Announcement/Broker/brokerendoflife.htm>

Client APIs

Client API	Broker	NUMWI	NUMWS requires NUMWI	NUMWF
JMS	✓	✓	✓	✓
JNDI	✓	✓	✓	✓
Java *	✓	✓	✓	✓
C++ *	✓	✓	✓	✓
C# *	✓	✓	✓	✓
JavaScript				✓
Python				✓
REST				✓
MQTT 3.1.1				✓
AMQP 1.0				✓

* Broker and UM APIs not compatible

Integration Server specifics – JMS Folder

pub.jms package	Broker	UM all editions	Notes
acknowledge	✓	✓	
batchTriggerSpec	✓	✓	
createConsumer	✓	✓	
documentResolverSpec	✓	✓	
JMSMessage	✓	✓	
receive	✓	✓	
reply	✓	✓	
send	✓	✓	
sendAndWait	✓	✓	
sendBatch	✓	✓	
triggerSpec	✓	✓	
waitForReply	✓	✓	
wmjms:receiveStream	✓		Large Message Streaming is a Broker feature only.
wmjms:sendStream	✓		Large Message Streaming is a Broker feature only.

* Broker and UM APIs not compatible

Integration Server specifics – Publish Folder

pub.publish package	Broker	UM all editions	Notes
deliver	✓	✓	
deliverAndWait	✓	✓	
documentResolverSpec	✓	✓	
envelope	✓	✓	
getRedeliveryCount	✓	✓	
publish	✓	✓	
publishAndWait	✓	✓	
reply	✓	✓	
syncToBroker	✓		Replaced with syncToProvider
syncToProvider	✓	✓	
triggerSpec	✓	✓	
waitForReply	✓	✓	
notification:error	✓	✓	

Integration Server specifics - Trigger Folder

pub.trigger package	Broker	UM all editions	Notes
createJMSTrigger	✓	✓	
createTrigger	✓	✓	
deleteJMSTrigger	✓	✓	
deleteTrigger	✓	✓	
disableJMSTriggers	✓	✓	
enableJMSTriggers	✓	✓	
resourceMonitoringSpec	✓	✓	
resumeProcessing	✓	✓	
resumeRetrieval	✓	✓	
suspendJMSTriggers	✓	✓	
suspendProcessing	✓	✓	
suspendRetrieval	✓	✓	*The behavior is different between Broker and UM. With Broker, a suspended trigger will temporarily stop messages from being received. It will not affect the messages already received. With UM, a suspended trigger will also prevent messages from being received. However, messages already received but not acknowledged will be redelivered as duplicates. This behavior should change in 10.7 when UM releases the consumer pause API.

Transport

Client API	Broker	NUMWI	NUMWS requires NUMWI	NUMWF
TCP/IP *	✓	✓	✓	✓
HTTP				✓
HTTPS				✓
SSL	✓	✓	✓	✓
Unicast				✓
Multicast	✓	✓	✓	✓
Shared Memory				✓

* Native protocol

Runtime environments

Environment	Broker	NUMWI	NUMWS requires NUMWI	NUMWF
JVM		✓	✓	✓
Docker	✓	✓	✓	✓
Virtual Machine	✓	✓	✓	✓
Node.js				✓

* Native protocol

Authentication/Authorisation

Environment	Broker	UM all editions	Notes
Client provided ID	✓	✓	Client identifier controls what functions are permitted
Basic auth	✓	✓	
Client cert auth	✓	✓	
Per channel ACL	✓	✓	
Admin ACL	✓	✓	
Group based permissions		✓	Administer the server based on groups. Security Groups permit inherited permissions to be granted based on security group membership

Administration

Environment	Broker	UM all editions	Notes
myWebMethods Server	✓		
Enterprise Manager		✓	
Command Central	✓	✓	UM has more comprehensive support
Java Admin API	✓	✓	
C++ Admin API		✓	Reduced capability – deprecated
C# Admin API		✓	Reduced capability - deprecated
Command line tools	✓	✓	UM - Includes a healthchecker and realm information collector for RCA Broker – precise tools differ to UM

High Availability

Environment	Broker	NUMWI	NUMWS requires NUMWI	NUMWF	Notes
Active/Passive	✓	✓	✓	✓	Requires shared disk
Active/Active			✓	✓	Requires pinned VMs, no shared disk
Policy-based clustering	✓				Multi-send policy
Kubernetes		✓	✓	✓	Fast re-instantiation of Docker images