













WebSphere MQ V7.1: Feature Summar		Announced: 4 October 2011	
New Feature	Benefits	Availability: 11 November 2011	
Multi-Version Install capatery	Wakes it easier to seploy and upgrade systems and stage version to version mutation	Unix and Windows support for multiple versions of MQ V7.x (AND one copy of MQ V7.0.1) down to fixpack levels. Relocatable installation support. Applications can connect to any Qmgr	
Enhanced Security	Simplified contrarts	IP address Authorisation capability Additional crypto algorithms More granular authorisation for non-local queues Application Activity Reports	
Cloud Support	Simplifies and support Closed deployments	an all HVE images	
Enhanced Clustering	Improves ease-of-use	Hisrisation Cluster Q rather than XMIT Q on Dist. Platforms Bind-og Grou Sy U.A.	
Multicast capability	New messaging QoS provides low latency with high fan-out capability	MQ Rub/Sub To a struct grant wap to multisast Group Addresses Provides direct intersuer and y MO LLM	
Improved scalability and availability on z/OS	Further exploitation of z196 Customer control over CF storage use CF Connectivity Loss improvements	Code contention reduced to improvemult processor linear scaling Use of MQ Datasets rather than DB2 significantly improves "large" message capability Structure rebuild capability for CF Connectivity Loss scenarios	
Improved Performance on Dist	Improved multiprocessor exploitation	Various code improvements	

WebSphere MQ V	7.5: Content Summar	y shari
For Windows, Univ	and Linux	
S	Benefits	WebSphere MQ V7.5 Announced: 24 April 2012 Availability: 20 June 2012
New Feature	Benefits	Details
Integrated Installation	Makes it easier to deploy systems Simpler licensing	Combines several products into a single package
Enhanced Clustering	Improves ease-of-use Improves application isolation	Split Cluster annussion ue
Java Application Identification	Makes it easier to distinguish applications	Applications no longer to all have the serve name
AMS channel interception	Provides a level of message protection even when application environment cannot run AMS	Interception in the SVRCONN still protects messages before hitting queues
FTE Logger Options	Can write FTE audit records to flat file	No longer a requirement for an enterprise database Easier to read data immediately
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Channel Blocking and	d Mapping from the Expl	OTET SHARE https://www.share
Rew Channel Authentication Record		
Create a Channel Authentication Record Choose whether to allow or block inbound connections.	E New Channel Authentication Record Match part of thितentity	
Use this wizard to create a rule to secure inbound connections over When complete this rule will be saved as a channel authentication n Choose whether inbound connections which match this rule will be access or blocked.	Choose how we match inbound connections to this rule. Choose which part of the connections identity will be used for matching this rule to block access of this inbound connection to the queue mana	New Channel Authentication Record X Matching the channels Identify the channels this new channel authentication rule applies to.
Rule type: C Allow access Select this option if this rule is to be used to allow access to ini	Identity to match: C SSL/TLS subject's Distinguished Name Select this option if your channels use SSL or TLS and you want i rule to match an SSL/TLS subject's Distinguished Name (taken fir	
connections. Block access	the certificate used by the partner). C Client application user ID	SYSTEM.*
 block access Select this option if this rule is to be used to block access to in connections. Warning mode Select this option if this rule will run in warning mode an actually block access. Myched rules will only be reported 	 Select this option if you want this rule to match the user ID from clent application machine. Final assigned user ID Select this option if you want this rule to match the user ID ultima assigned to the inbound connection, either by other rules or a se exit. 	
	 Remote queue manager name Select this option if you want this rule to match the queue manager name from the remote machine. IP address Select this ontion if you want this rule to match the IP address of 	PSYSTEM.AUTO.SVRCONN Server-connection Inactive SYSTEM.DEF.SVRCONN Server-connection Inactive
Compared Action Compared	? < Back	
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Channel Pleaking and	Manning from the Evol	
Channel Blocking and	d Mapping from the Expl	IOTET SHARE
-		Technology - Connections - Results
New Channel Authentication Record		l
Matching a list of user IDs		
Specify which user IDs will be matched by this rule.	New Channel Authentication Record	
specify which user tos will be matched by this rule.	Optional attributes	
In order to block the final assigned user ID, provide the user IDs to c		E New Channel Authentication Record
against.	Configure optional acceleration of a list rate.	Summary
The final assigned user ID may be:	Description of rule:	Channel authentication rule summary and command preview.
1. The user ID the inbound client connection flowed.	Block admin attempts on default chl	
 The user ID the inbound client connection flowed. The user ID assigned by another map. 		Press the finish button to save this rule in a channel authentication record in the
3. The user ID assigned by a security exit.	Configure this custom attribute with guidance from IBM Service:	queue manager.
This can be a single user ID or a list of comma separated user IDs. Th		Settings to use to create the new channel authentication rule:
value *MQADMIN can be used to block all privileged users.		Create a rule which applies to channels whose names match the pattern
		"SYSTEM.*".
User IDs to be blocked on server-connection channels in all cases: * *MQADMIN		Block inbound connections from any of these users "*MQADMIN".
I *MQADMIN		DOCK INDOUND CONNECTIONS NOT ANY OF THESE USERS - PROMONIAN .
		_
	Ν	
	R	Command preview:
		SET CHLAUTH('SYSTEM.*') TYPE(BLOCKUSER) USERLIST('*MQADMIN')
		DESCR('Block admin attempts on default chl') WARN(NO) ACTION(ADD)
(?) < Back Next > Finish		v
		-
	(?) < Back Next > Finish	
		-
		? < Back Next > Finish Cancel
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Security: SSL

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- More crypto algorithms supported for SSL
 - Stronger algorithms are now available and recommended
 - MQ V7.0.1 added some SHA-2

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- MQ V7.1 adds more, with support for the NSA "Suite B" standard which includes Elliptic Curve cryptography
- Some older algorithms (eg SHA-1) should be considered deprecated
 - No plans to withdraw older algorithms immediately
 - But expect them to be removed in a future version of MQ
- Newer algorithms supported by gskit8 on Distributed platforms
 - Waiting for z/OS and iSeries SSL implementations before MQ can support them there
- The gskit toolkit is now provided inside the MQ installation
 - Will not clash with alternative levels from other MQ installations or other products

Security: Authorisations for Non-Local (Clustered) Queues
 Distributed platforms now have authorisations for non-local queues
 Including clustered queues
 Making it consistent with Z/OS
 Also consistent with Topic authorisations
 So there is no longer a need to authorise access to the cluster transmit queue
 Grant authorisation to the remote queue manager instead
 A new pseudo-object known to the OAM
 setmgaut -m QM1 -t queue -n SYSTEM. CLUSTER. TRANSMIT. QUEUE -p mquser +put BECOMES
 setmgaut -m QM1 -t rgmname -n QM2 -p mquser +put

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Application Count : 1 WebSphere MQ Client Application Inform Tid Date T 004 2011-12-06 1 004 2011-12-06 1 004 2011-12-06 1 004 2011-12-06 1 005 ct Type Object Type Resolved Queue Resolved Queue Resolved Queue	ce for Queue Manager V71_11_A for Java' : from 2011-12-06 : ation ime Operation MQCC 4:28:05 Cb Ok 4:28:05 Callback 4:28:05 Callback 4:28:05 Inq Ok Queue anager Name	MQRC 0000 (NONE 0000 (NONE AND.QUEUE	.2-06 14:28	S H A R E here: feature has
Resolved Type Selector Count	Queue			
Selectors				000 (NONE
	004 2011-12-06 14 Object Type Object Queue Maximum Copen Open Options Object Type	Queue nager Name 0x000	Ok 00 e Manager 000020 [inq] e Manager	000 (NONE

Clustering "Bind on group" All messages within a logical group are routed to the same queue manager Workload balancing is done for each group Simpler for applications that use message groups Previously would have had to close and reopen the queue New option in the MQI and DEFBIND attribute for queues Once a group has started its path to a selected queue manager, messages in that group will not be reallocated in the event of a failure New sample amqsclm to monitor queues and redistribute delivered messages If a queue has no getters, block further deliveries and redistribute existing messages Includes source code, so easy to modify











Channels

- See the MQ version of connecting partner
 - Level of clients and queue managers available in channel status
 - For example a V7.0.0.1 client shows as RVERSION(07000001)
 - Can distinguish Java, C, .Net client programs
 - Helps administrator determine whether partner needs upgrading
- Distributed platforms now use DISCINT to disconnect idle clients
 - ClientIdle qm.ini parameter ignored
 - Consistent with z/OS
- Alternative channel batch control based on byte counts
 - BATCHLIM attribute
 - Useful when a transmission queue holds mix of large and small messages
 - Can make batch time (latency) more consistent
 - Batch is ended when first of either bytes or messages transferred reach configured limit

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- Per-channel control of Dead Letter Queue
 - New channel attribute USEDLQ(YES|NO)

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