































Softwa	are Group	IBM
QM Structu	Ires	
	Coupling facility	
Structures for QSG 1	Administration structure (Information for UOW recuperation, etc)	
	Application structures Queue Queue O O O	
Structures for QSG 2	Administration structure (Information for UOW recuperation, etc)	
	Application structures Queue Queue O O O	
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Availability - example			
One server		Two serve	ers
Planned outages	1	Planned outages	0
Unplanned outages	0.5	Unplanned outages	0.002
Total	1.5	Total	0.002
Outages in I	hours	per month	
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2	Software Gro	up		IBM
С	omparison of	Technologies		
		Access to existing messages	Access for new messages	
	Shared Queues	continuous	continuous	
	WMQ Clusters	none	continuous	
		automatic	continuous	
	HA Clustering	automatic	automatic	
	No special support	none	none	
		0.02	© 2011 IBM Corporal	tion p40

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In summary	
 MQ Clusters Available on all MQ v6 and v7 platforms Provides a simple load-balancing, scalability solution Provides a minimal HA solution Uses a "Push" type of logic – sending QM distributes Requires non-affinity of messages with respect to QM A given message is only available to a single QM in the MQ Cluster MQ Shared queues Available exclusively on MQ z/OS Provides a robust, optimized load-balancing, scalability and HA solution Uses a "Pull" type of logic – most available receiving QM takes message Requires non-affinity of messages with respect to QM Messages are available to all the QMs in QSG Hardware clustering (eg. HACMP, MCS, ARM, etc.) Neither load-balancing Restart is relatively fast (even faster with MQ 7.0.1 and Multi-Instance QM) Relies upon externalized disks and typically an O/S HA feature 	
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Software Group	ibm
MQ Bibliography	
 GC34-6926 WebSphere MQ v7 for z/OS Concepts and Planning Guide 	
 SC34-6929 WebSphere MQ v7 for z/OS System Administration Guide 	
 SC34-6927 WebSphere MQ v7 for z/OS System Setup Guide 	
 SG24-7839 High Availability in WebSphere Messaging Solutions 	
 SG24-6523 Parallel Sysplex Application Considerations 	
• REDP3636 MQ Queue Sharing Group in Parallel Sysplex Environment (Redpaper,	draft)
 SG24-6864 WebSphere MQ in z/OS Parallel Sysplex (Redbook) 	
 SupportPac MP1E – MQ z/OS v6 Performance Report 	
 SupportPac MP16 – Capacity Planning & Tuning for WebSphere MQ 	
The complete MQ library is available in PDF at <u>http://www.ibm.com/software/integration/wmg/library/</u> Or online at http://publib.boulder.ibm.com/infocenter/wmgv7/v7r0/index.jsp	
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