

WHAT'S NEW IN APPLICATION INTEGRATION

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Topic Introduction 2 What's new in WMQ 7.5 & 7.1 ? 3 What's new in WMB 8.0? 4 **Questions**?



WebSphere MQ basics

- Common application programming interface
- Assured message delivery
- Time-independent processing
- Application parallelism
- Faster application development





IBM WebSphere MQ V7.5

- Announcement of WebSphere MQ V7.5 on 4/24/2012
- Follows on from announcement of WebSphere MQ V7.1 on 10/4/2011
- WebSphere MQ V7.1 was a major functional release across all platforms
- WebSphere MQ V7.5 builds on the WMQ V7.1 functions
 - Focuses on packaging, install, usability and licensing improvements for the distributed platforms
 - Updates to WebSphere MQ Explorer, so all platforms can benefit from this release





Introducing WebSphere MQ Managed File Transfer V7.x (eairlier File Transfer Edition)

- Adds file transfer to WebSphere MQ to enable movement of files regardless of size in a managed way (reliable, auditable, secure)
- Multi-purpose infrastructure for both files and messages

- <u>Flexible backbone</u> for transfers move files from anywhere to anywhere in your network
- <u>Multi-purpose use</u> for both files and messages
- <u>Auditable</u> with logging subsystem that tracks transfer at source and at destination for audit purposes
- <u>Centralized</u> control and configuration
- Integration with MQ-enabled apps and ESBs
- <u>Automatic</u> file conversion and compression
- <u>Security</u> of file payload using SSL





WebSphere MQ File Transfer Edition





WebSphere MQ File Transfer Edition: Initiating a Transfer



- A new transfer is started by sending MQ message to an agent
 - The message may be routed via a command queue manager

• The MQ message:

- Describes which files to transfer
- Specifies the agent to which the files will be transferred
- The agent responds by starting to transfer files, as instructed in the MQ message
- The agent can, optionally, reply



WebSphere MQ File Transfer Edition: Transferring File Data





WebSphere MQ File Transfer Edition: Log and Progress Data

Agent Agent AGENT AGEN QM QM Coordination Periodically, agents send QM transfer status to the coordination queue manager The status is published to any interested parties Tool provided to move status to a database for LOGGING MONITORING long-term storage



WebSphere MQ File Transfer Edition: Documented Interfaces





Centralized configuration using MQ Explorer

IBM WebSphere MQ Explorer				3					
File Window Help		100							
ted WebSphere MQ Explorer - Navig 23 ↓ ↓	WebSphere MQ Explorer - Content		69	1	Eclips	se Gl	JI intear	ated	into
IBM WebSphere MQ Queue Managers	WebSphere. MQ File Transfer Edition Version 7.0		DW.		WebS	pher	e MQ E	color	er
Calignia Queues Calignia	Managed File Transfer Central					Prior			
Subscriptions Advanced Channels	WebSphere MQ File Transfer Edition is a new product in the WebSphere M capabilities, including: * Moving files between IT systems reliably and securely regardless of * Database and the state of the secure of the	4Q product family, offering Managed File Transfer							
Client Connections	 Robustness and resilience to failures, Logging of file movements for audit purposes. Automating all aspects of transfers. 	IBM WebSphere MO Explorer							
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		Channels	C:	playpit\in2.zip	C:\playpit2\in2.zip	Succ	essful		
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		Authentication Information	C:	playpit (this&that	.zip C:\playpit2\this&that.zi	p Succ	esstul		
		Queue Manager Clusters							
		JMS Administered Objects							
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		Transfer Templates							
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				AGENT1	in2.zip - (69MiB / 69MiB)	1/1	100%	1536 KiB/s	2008-10-11 12:32:46 BST
3 rd party and	bespoke			AGEN11	out3.zip - (13MiB / 24MiB)	5//	65%	1702 KiB/s	2008-10-11 12:36:00 BS1
applications	can also								
subscribe to	these events								
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What is MQ Advanced Message Security?

- Adds message-level security to existing WebSphere MQ & Broker (V6, V7)
- Protects customer data application-to-application, at rest in queue & in transit
- Easy plug-in drops into existing MQ & Broker without change to applications (interceptors)
- Simplifies regulatory compliance for audit & privacy
- Privacy & integrity protected in transit AND at rest in queues





MQ AMS puts your sensitive data in a secure envelope

Original Message

AMS Protected Message





WebSphere MQ AMS Deployment



1.Install AMS Interceptor
 2.Create or import X.509 digital certificates
 3.Copy recipient's certificate
 4.Define protection policy for the queue



Instantly familiar UI and command line. No new tools to learn Policy Name: SALES.EUROPE

- Examine and manage security policies with "MQ Explorer"
- Or bulk load them from command line

			All messages are deliver	ed			
IBM WebSphere MQ Explorer							
<u>File W</u> indow <u>H</u> elp			Signing				
🔁 MQ Explorer - Navigator 🛛 🗖	🗐 MQ Explorer - Content 🛛		Message signing algorithm:	SHA1	~		
	Message Protection	Policies					
IBM WebSphere MQ	 Policy name 	Signing algorith	O Accept signed messages fi	rom any originator			
	SALES.AMERICA	MD5	 Only accept signed messages from the message originators listed below 				
Queues	SALES.EUROPE	SHA1 SHA1	Distinguished names of permit	tted message originators:			
Subscriptions			CN=Robert Smith,OU=IBM So	oftware Group,O=IBM,C=UK	Add		
Advanced							
					Remove		
Process Definitions			Encryption				
			Message encryption algorithm	: AES128	*		
Authentication Informa	<		Messages are only readable if	fencrypted for one of the permitted message reci	ipients		
E	Lesturdated: 15:07:55		specified below.				
	Last updated: 15:27:56		Distinguished names of permit	tted message recipients:			
			CN=Robert Smith,OU=IBM So	oftware Group,O=IBM,C=UK	Add		
					Remove		

Toleration

Apply this policy to all messages.

the policy are not delivered

Tolerate messages that do not conform to this policy

Messages that conform to this policy are delivered. Messages that do not conform



Multi-Version Installation

- MQ on Unix and Windows can install multiple levels on a system
 - Relocatable to user-chosen directories
 - Can have multiple copies even at the same fixpack level

Simplifies migration

- Can move applications as needed, not all at once
- No need for parallel hardware

Easier for ISVs to imbed MQ in solutions

- Can install in "private" locations without worrying about other copies
- Reduces support concerns

Permits a single copy of V7.0.1 to remain on system

- So existing systems can be migrated
- Must be 7.0.1.6 or later



Multi-Version Installation: Concepts

Main concept is an installation

- Refers to the directory containing the binaries from a particular version of MQ
- Can have a descriptive name

One installation can be designated as primary

- Required on Windows where some OS-specific elements have to be registered
- Optional on Unix, creates symlinks to commands and libraries in /usr
 - Not created by default so your PATH will not always find MQ commands

Queue Managers are owned by a specific installation

- Governs the level of function available when the queue manager is running
- Ownership can be changed to a newer installation for migration



Security: Channel Access Control

Rules are based on

- Partner IP address
- Partner Queue Manager name
- SSL Distinguished Name
- Asserted identity
- Derived identity from DN mapping
- Easy to test rules that you define
 - DISPLAY CHLAUTH can "execute" rules

Rules can be applied in WARNING mode

- Not actually blocked, but errors generated
- MQ Explorer configuration via wizard



Channel Access Scenario

SET CHLAUTH(*) TYPE(ADDRESSMAP) ADDRESS('*') USERSRC(NOACCESS)

SET CHLAUTH(BPCHL.*) TYPE(SSLPEERMAP) SSLPEER('O=Bank of Shetland') MCAUSER(BANK123)

SET CHLAUTH(BPCHL.*) TYPE(SSLPEERMAP) SSLPEER('O=Bank of Orkney') MCAUSER(BANK456)

SET CHLAUTH(SYSTEM.ADMIN.SVRCONN) TYPE(ADDRESSMAP) ADDRESS('9.20.1-30.*') MCAUSER(ADMUSER)

SET CHLAUTH(TO.CLUS.*) TYPE(QMGRMAP) QMNAME(CLUSQM*) MCAUSER(CLUSUSR) ADDRESS('9.30.*')





WebSphere Message Broker introduction (ESB)

- Universal connectivity and transformation
- Flexible solution to address a wide range of requirements
- Optimized to accommodate any IT environment





WebSphere MQ enterprise messaging backbone



Integrates everything through standard protocols, WebSphere Adapters for enterprise applications, and specialized connectivity options



Transformation between a wide range of data formats, including XML, legacy, and industry standards, and custom formats



Optimized for high-volume processing and rapid time to value for complex mediation requirements with a robust set of pre-built mediation function

Web Administration for Universal Access

Web Administration Console

- Objective is to provide comprehensive web management interface
 - Focus on non-administrators to understand brokers & resources
- Supports all major browsers Firefox, IE, Opera, Safari, Chrome
- Designed as users as a complement MBExplorer
 - MB Administrators can users continue to use MB Explorer

Easy to configure

- No extra moving parts uses internal HTTP listener to serve data
 - Web admin started by default on port 7050
- Can reconfigure to listen on user port or disable
 - SSL connector configured via mqsichangeproperties
- Role based access provides custom class user control
 - · Default is read-only access to MB resources
 - More authority required to create, change or delete resources

Using Web Admin

- Intuitive tree view shows hierarchy of MB resources
- View resource details with click or button
- Includes full suite of resources
 - Apps, Libs, Flows, Configurable services etc
- Web Admin & MB Explorer
 - MBX & web admin designed for concurrent use
 - Web admin requires MB8 broker
 - Explorer can manage both MB8 & MB7 brokers



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Record & Replay

- Enable Record, Edit and Replay of In-flight Data
 - Comprehensive audit of messages, web, ERP, file & other data
 - Flexible topology: single or multiple brokers for recording, capture & replay

Data Recording, Capture & Store

- Graphically configure binary, text, XML payload capture, including whole, partial & multi-field data

Velcome

Broker Explorer Viewer

Message Viewer

- Source data is currently limited to MB flows, including MB6.1, MB7 & MB8
 - Monitor tab or monitoring profiles identify captured events
- Capture events on *any broker*, local or remote
 - Any broker EG can be configured as capture agent
 - Configurable service identifies topic, target database
- Agent stores data in any supported broker database
 - Oracle, DB2, SQL Server, Sybase, Informix...
- Web Tooling to View, Query, Edit data
 - Friendly editors to view, query & edit payloads
 - Key data fields, including application data
 - Independent web admin & capture for scalability
 - Configure multiple EG listeners for web •
- Replay for redelivery or flow reprocessing

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- Replay selected data to flows or applications
- MB admin configures logical destinations
 - Maps to physical protocol, e.g. MQ: {Qmgr, Q}
- User selects destinations from auto-populated drop-

	🕼 CD Input Node Properties - CD Input						
	Configure monitoring events.						
Events							
,		Enabled	Event Source	Event Source Address			
			Transaction start	CD Input.transaction.Start			
		✓ Transaction end		CD Input.transaction.End			
			Transaction rollback	CD Input.transaction.Rollback			

record

ew Message Replay Messag	e Edit/Replay Message	Edit Mes	sage Vi	iew Exception	Delete	efresh Filter
essage ID	Correlation ID	Message	Exception	Broker	Execution Group	Message Flow
743c50-ca64-11e0-ae70-7f0000	0010000-9	Y	Ν	MB8BROKER	default	QueueToQueue
743c50-ca64-11e0-ae70-7f0000	0010000-9	Y	Ν	MB8BROKER	default	QueueToQueue
743c50-ca64-11e0-ae70-7f0000	0010000-8	Y	Ν	MB8BROKER	default	QueueToQueue
	 Filter Query 					
	Start Time 🏮 End Time 🏮					
-down list	Message ID 🤑		_			
	Advanced Filter Que	гу				
	OK Cancel					



edit



replay



IBM

Easy to Develop, Deploy & Manage

- Streamlined AD, Deploy & Management
 - New & migrated resources grouped into Apps & Libs
 - Encourages designing for reuse
 - Simplifies deployment & management
- Apps & Libs contain all solution resources
 - Apps contain solution specific resources
 - e.g. main processing flow, specific transformations
 - Libs contain common resources
 - e.g. data definitions, error routines...
 - Can reference other libraries
 - Apps & Libs created from migrated workspaces
 - Automatic migration from MB6.1 & MB7

Easy deployment

- Drag & drop apps to run them immediately
- Simple to package with 1-click for each app
- Override deployment properties for promotion
- Consistent Operations
 - AD artefacts are visible in runtime with same structure
 - MBTK, MBX, Web admin all reflect same structure
 - Can manage using apps e.g. start, stop, delete
 - Commands updated to refer to Apps & Libs e.g. mqsilist
 - Full lineage available, e.g. version, deploy date...



Prepare

Select deployable resources to include in the broker archive





Easy Data Modelling with DFDL

Simple & powerful standard for data modelling

- New standard for binary, text & industry data formats
 - Logical structure with physical annotations
 - e.g. endian, ASCII/EBCDIC, padding, justify...
- Data Format Description Language (DFDL)
 - · For use in IBM and non-IBM products
 - forge.gridforum.org/projects/dfdl-wg
- Built-in facilities to model data easily
 - Quick wizards for (e.g.) CSV, record oriented data
 - Auto-model importers (e.g.) COBOL copybooks
 - DFDL editor for power users
 - Create logical model & physical refinements

Test parsing and test data generation

- Test whether sample data fits with DFDL definition
 - · Parse trace provide success & error case explanation
- Auto-generate test data for test & debug scenarios

All broker nodes can exploit new DFDL parser

- Configure as existing XML, JSON, MRM, MIME... parsers
 - · Interacts with message tree in usual manner
- Excellent performance characteristics
 - (e.g.) element type, size, structural complexity etc
 - Supports streaming, partial parsing etc...

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	3	2010	Hans On	DFDL	3000cc straight 6	31395.00				
	4	2010	AOD corp	MB8	4163cc, V8	51435.00				
						price	400 004	200		
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IBM

Graphical Transformations

- IBM Graphical Data Mapper (GDM)
 - Visually map and transform source to target data
 - Code-free, high performing & scalable
 - GDM designed for whole IBM product set
 - Mapping Specification Language (MSL) format
- Simple & powerful graphical mapping experience
 - Apply transformations to single and multiple elements
 - Conditionals (if then else), Loops (for each), Functions (target = f(source)) & more!
 - Database mapping sources and targets for routing and enrichment scenarios
 - Broad database support (Oracle, DB2, SQL Server, Sybase, Informix...)
 - Complements and supports existing transformation languages
 - Call user defined transformation in Java, SQL, XPath, .NET...

Simple deployment, high performing & scalable

- Maps can be deployed with solution BAR file or stand-alone
- JIT compile means technology advances improves existing, deployed solutions
 - Source deploy + runtime compilation = enhanced performance
- Migration from pre-version 8 maps
 - Existing maps developed before version 8 continue to work as-is
 - Existing maps opened in read-only mode for visualization & comprehension, cannot be modified
 - Automatic conversion of .mfmap format to MSL not currently built-in





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New node for native .NET program invocation Call .NET programs directly via CLR V4; includes app domains for isolation

- C#, VB .NET (COM), JScript & F# programming available natively in MB
 - Extensive range of .NET data types supported for easy integration

Integrated Visual Studio Development

BrokerNodeApplication1 - Microsoft Visual Studio

Deep Integration for .NET

- Create .NET nodes in Visual Studio; Native MB assemblies simplifies process
 - e.g. packages, templates, #using, debug, content assist etc
- Visual studio compiled resources available without redeploy
 - Broker .NET watcher loads App Domain with most recent assembly

Solution Explorer - 🛛 🗙 SimpleFilterNode.cs × Object Browser 🐴 🤕 ช SimpleFilterNodes.SimpleFilterNode Evaluate(NBMessageAssembly assembly) Solution 'BrokerNodeApplication1' (1 using IBM.Broker.Plugin; [assembly: CLSCompliant(true)] SimpleFilterNode 8 ⊟namespace SimpleFilterNodes Properties References 9 public class SimpleFilterNode : NBComputeNode 10 🖻 IBM.Broker.Plugin 11 Microsoft.CSharp public override void Evaluate(NBMessageAssembly assembly) 12 🗎 System Call .NET programs from new and existing MB nodes - Toolkit can introspect .NET assemblies to dynamically discover available methods

- Automatically create appropriate language signatures to simplify invocation
- (e.g.) ESQL can now directly invoke .NET programs using simple procedure call

• .NET performance compares favourably with native ESQL & Java transformations

- .NET resource statistics show behaviour partitioned by app domain (calls, storage...)



New Project **Recent Templates** Installed Templates Visual Basic Visual C# Windows Web Office Cloud Message Broker Reporting SharePoint Silverlight Test WCF Workflow



WS-Reliable Messaging

- SOAP nodes now support WS-RM W3C protocol
 - Typical Scenarios for reliable delivery of messages between applications
 - Multiple classes of service: {AtLeastOnce, AtMostOnce, ExactlyOnce}, InOrder
 - Complements SOAP/JMS reliability & persistence. SOAP/JMS(MQ) is formidable!

Existing SOAP Nodes now support WS-RM

- The existing SOAP nodes participate in WS-RM exchanges
- Policy Set editor defines QoS: e.g. InOrder, ExactlyOnce
- SOAP nodes handle ALL protocol details, programmers simply send or receive WS-RM messages
 - SOAP input type nodes (input, async response) propagates reliably received message
 - SOAP request nodes (reply, request, async request) receive message to be delivered reliably
- Only for SOAP/HTTP: SOAP/JMS, SOAP/MQ are already reliable, persistent and transactional

Broad Platform support for WS-RM 1.0 & 1.1

- .NET compatibility option for .NET 1.0 WCF clients
- Extensive testing to other application servers

Composable as expected

WS-Security

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WS-Addressing

This panel configures the inbound and outbound actor roles URI.

- Policy Sets
 - ▲ WSS10Default
 - WS-Security
 WSRMDefault
 - WS-RM
 - ▲ Policy_Test WS-RM

Reliable Messaging Settings

Deliver messages in the order that they were sent

Client Compatibility

Microsoft .NET WCF

Choose this compatibility option









Thank you

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Open Management with REST

- REST based management API
 - MB now supports HTTP/REST management API
 - Complements & compatible with existing CMP interface
 - HTTP client can manage MB independent of CMP
 - Includes new interface for message record & replay



```
GET /admin/eg/MYEGNAME HTTP/1.1
From: machine@ibm.com
User-Agent: MyApp/1.0
```

• URI for all MB Resources

- New ATOM data format for payload describes MB resources & related entities
- ATOM service documents & feeds map intuitively mapped to MB artefacts
- Provides very natural navigation of MB resources
 - e.g. Execution group document contains EG properties & per-message flow ATOM feed

- Fully open interface can be exploited by 3rd party tools
 - HTTP REST/ATOM formats published & maintained for use by external users
 - Enables widgets, mash-ups & other situational applications

Making it Easier to Understand Broker Behaviour

- New Activity Logging Allows users to understand what a message flow is doing
 - Complements current extensive product trace by providing end-user oriented trace
 - Can be used by developers, but target is operators and administrators
 - Doesn't require detailed product knowledge to understand behaviour
 - Provides qualitative measure of behaviour
- End-user oriented with external resource lifecycle
 - Focus on easily understood actions & resources
 - "GET message queue X", "Update DB table Z"...
 - Complements quantitative resource statistics

Flow & resource logging

- User can observe all events for a given flow
 - e.g. "GET MQ message", "Send IDOC to SAP", "Commit transaction"...
- Users can focus on individual resource manager if required
 - e.g. SAP connectivity lost, SAP IDOC processed
- Use event filters to create custom activity log
 - e.g. capture all activity on JMS queue REQ1 and C:D node CDN1
- Progressive implementation as with resource statistics, starting with JMS and C:D resources
- Comprehensive Reporting Options
 - Reporting via MB Explorer, log files and programmable management (CMP API)
 - Extensive filtering & search options, also includes save data to CSV file for later analysis

Log Rotation facilities

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- Rotate resource log file when reaches using size or time interval

	Message	Timestamp	Message Summary
i	BIP12001I	17-Jun-2011 10:10:50.85	Connected to JMS provider 'WebSphere_MQ
i	BIP12002I	17-Jun-2011 10:10:50.85	Created a 'Transaction_None' session for JMS provider 'WebSphere_MQ
i	BIP12004I	17-Jun-2011 10:10:50.93	Created JMS producer for destination 'ASYNCREQUESTQ
i	BIP12007I	17-Jun-2011 10:10:50.93	Sent a JMS message to queue 'ASYNCREQUESTQ
i	BIP12004I	17-Jun-2011 10:10:50.52	Created JMS producer for destination 'ASYNCRECEIVEQ
۱	BIP12014E	17-Jun-2011 13:47:51.65	Failed to send message to 'ASYNCRECEIVEQ'
i	BIP12001I	17-Jun-2011 13:47:54.99	Connected to JMS provider 'WebSphere_MQ
i	BIP12004I	17-Jun-2011 13:47:55.00	Created JMS producer for destination 'ASYNCRECEIVEO



