

Managing, Deploying and Securing the Messaging Infrastructure

WebSphere MQ and File Transfer Edition

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What is the most important application in the world?







Smarter Connectivity

- Point to Point
- Many to Many
- File Transfers





Point-Point Application Connectivity challenges

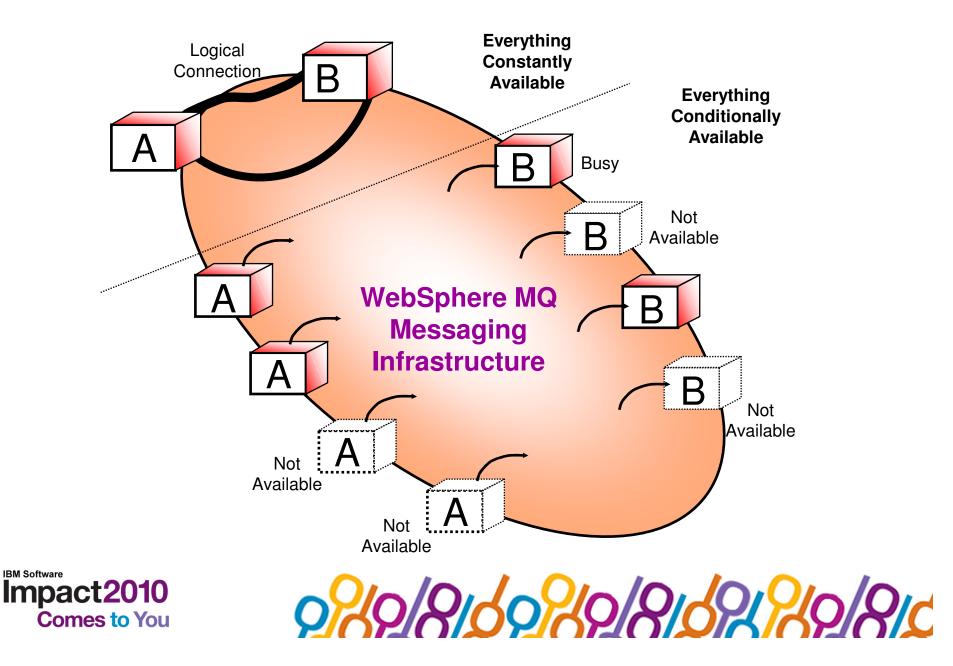
- Availability of application
- Reliability and capacity of network
- Platform and Language compatibility
- Security





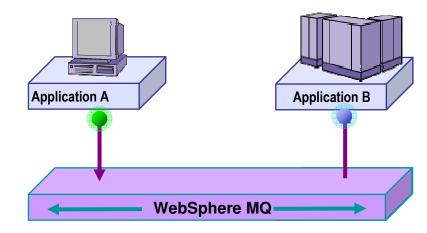


The Value of Loose Coupling



What does WebSphere MQ do?

- Provides **messaging services** to applications and Web services that need to exchange data and events with:
 - Proven reliability
 - Transactional integrity
 - Consistency
 - Time independence
 - Ease and Speed
 - Flexibility
 - High-performance
 - Security
 - Scalability
 - Auditability



AIX, HP-UX, i5/OS, Linux, Solaris, Windows, z/OS

WebSphere MQ is like email for SOA applications ...but email that is reliable

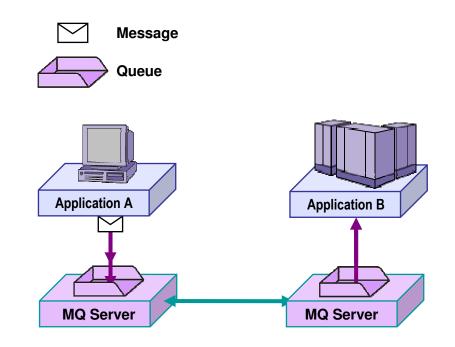
Once and only once message delivery





How does WebSphere MQ work?

- Messaging services are based on Queues that store and forward data based on simple programming commands
- Uses the proven database technique of two-phase commit transactions to ensure messages are <u>not lost or</u> <u>duplicated</u>
- Uses publish/subscribe to <u>route</u> messages dynamically based on keywords or "topics"
- Uses multi-processor threading and clustering to <u>accelerate throughput</u> of messages



Once and only once message delivery





Smarter Connectivity

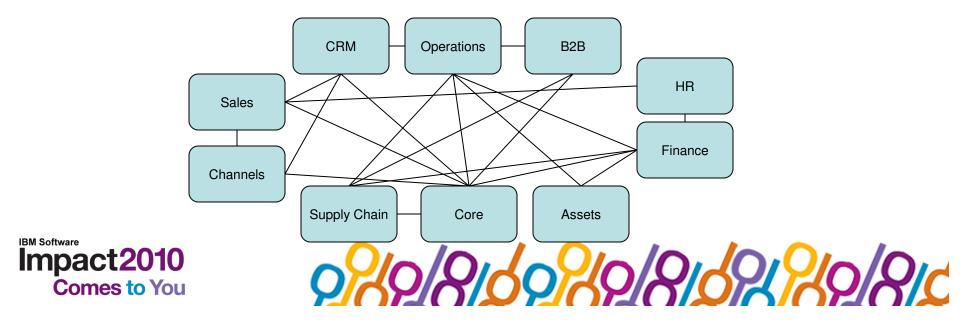
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Many-Many Application Connectivity Challenges

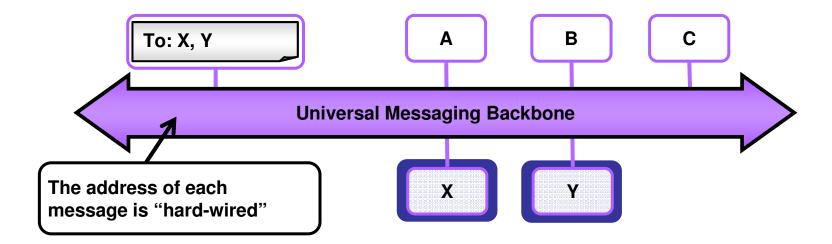
- Availability of application
- Reliability and capacity of network
- Platform and Language compatibility
- Security
- Need to know and maintain the connectivity details of corresponding applications



Enabling Flexible Delivery on IBM's Universal Messaging Backbone

Publish-and-Subscribe with WebSphere MQ

- Dynamic and flexible way of determining where messages are sent
- Helps reduce the cost, time and skills involved when changes are required
- Helps define new paths of information flow in an ad hoc manner



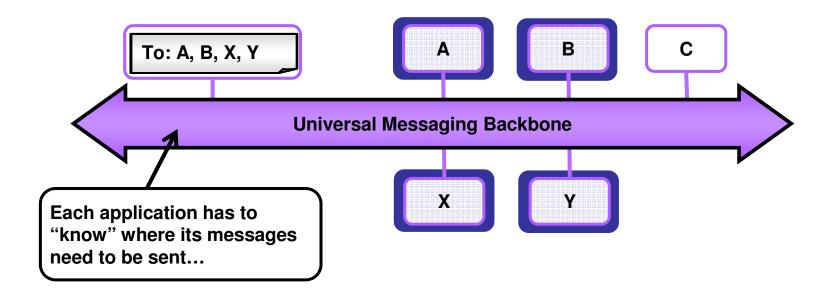




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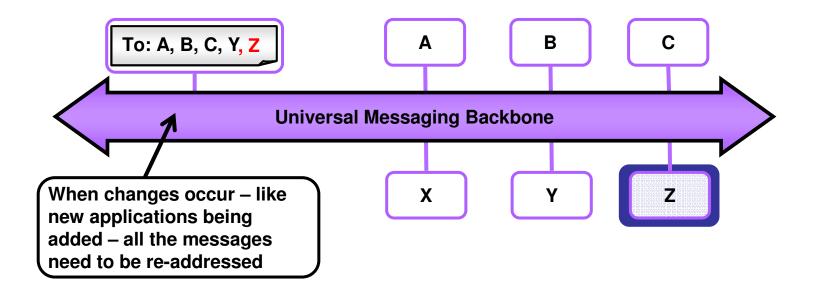




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Smarter Connectivity

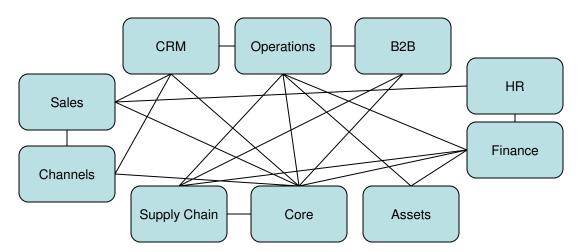
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Traditional File Transfer Challenges

- Limited reliability
- Limited visibility and traceability
- Limited flexibility
- Limited management
- Custom coding and scripting

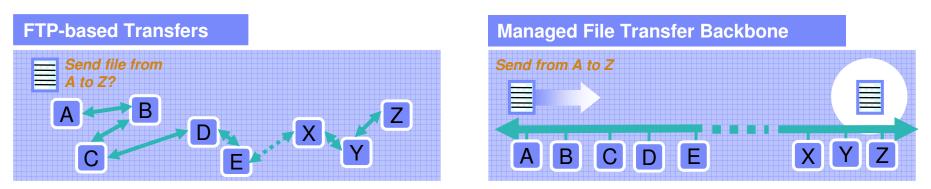






Robust File Transfer Backbone based on WebSphere MQ

- WebSphere MQ File Transfer Edition will provide a file transfer backbone
 - Source and target systems do not need to be directly connected
 - Backbone determines path across network between Source and Target
 - Utilizes this built-in characteristic of WebSphere MQ transport
 - Time-independent, reliable and secure file transfers
- Simplifies transfer configuration, administration & auditing
 - Transfer files from any point on the Backbone to any other point
 - Enables multi-hops across Backbone as opposed to coordinating a series of single-hops
 - Control, monitor from any point even via intermediate points
 - Audit log of transfers at actual, logical Source and Target
 - Rather than having to piece audit trail together from a series of disconnected transfers



Impact2010 Comes to You



Centralized Configuration & Administration

- Logically centralized configuration of remote, distributed backbone
- Remotely view & configure entire backbone Windows, UNIX, i5/OS, z/OS

Create Delete Display Modify Deploy		
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Test		Scheme: Default for Topics - Distributed Last updated: 15:39:42
	Univers	al messaging backbone

Visual display at a glance

IBM Software

Impact2010

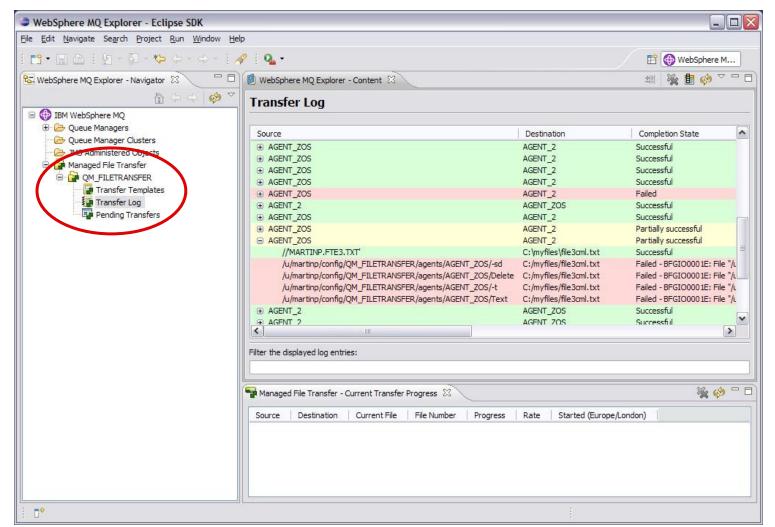
Comes to You

- Eclipse-based environment
- Extensible and customizable

- Remote connection from Linux x86 and Windows
- SSL secured connections
- Granular permissons



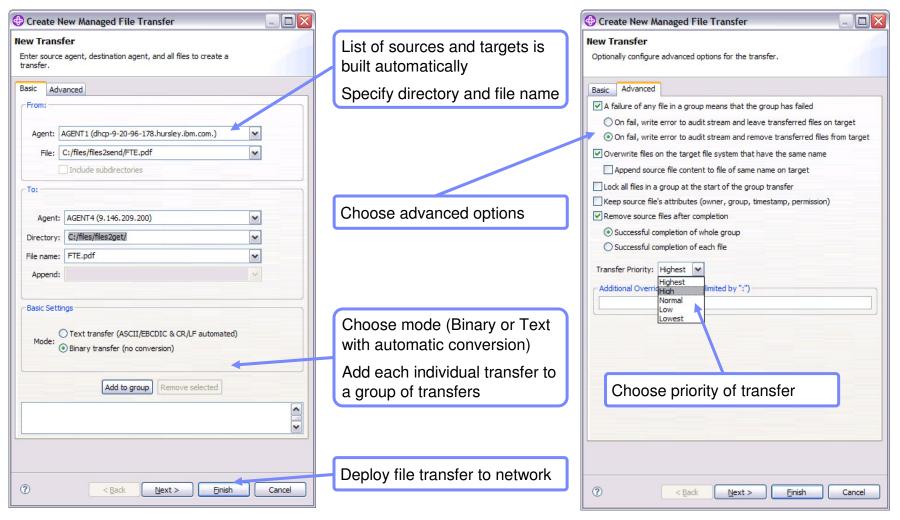
Centralized Configuration via MQ Explorer







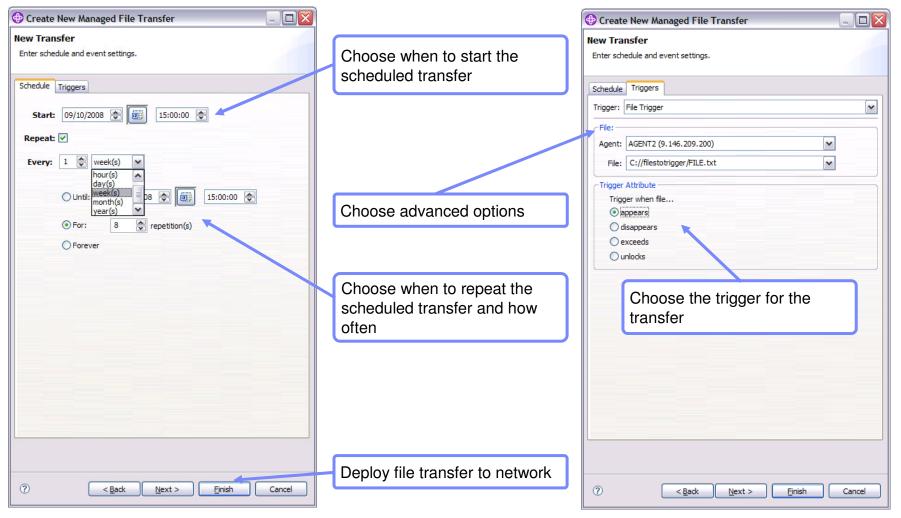
Creating File Transfers



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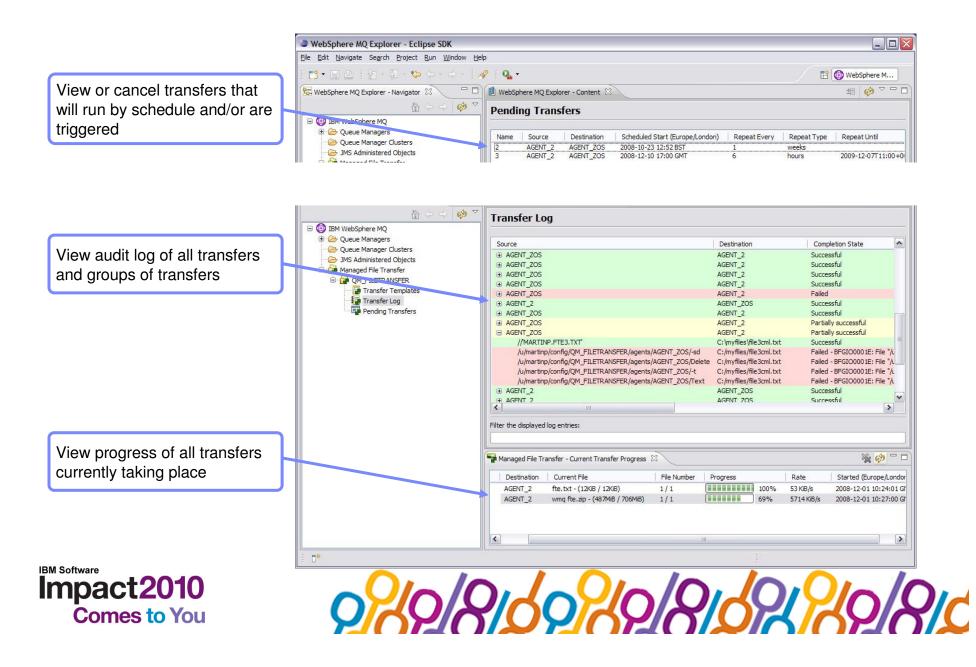
Scheduling & Triggering File Transfers







Auditing & Monitoring File Transfers



Consolidated Transport Backbone with WebSphere MQ

- Combined solution for transferring <u>messages</u> and <u>files</u> via a single consolidated infrastructure
 - > Supports point-point, many-many and multi-platform application connectivity
 - Unified administration GUI tool i.e. WebSphere MQ Explorer
 - Reducing operational costs through synergies and lowering skills requirements
- WebSphere MQ messaging infrastructure that can be leveraged in SOA
 - A one-two punch Solve today's file/message problems while building a foundation for the future
 - Single Universal Connectivity solution bringing together file- message- service- and event-oriented applications and Web 2.0 traffic
 - > Add ESB capabilities to file or message data transformation, mediation, content-based routing



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Terima Kasih & Thank You



