

IBM WebSphere MQ File Transfer Edition

Technical Overview

Terms of Use

- Disclaimer
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Agenda

Smart
SOA

- Introduction
- Architectural overview
- Sample topologies
- Where we are in development
- Next steps for development

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What is WebSphere MQ File Transfer Edition?

Smart
SOA

- Will be newest member of the WebSphere MQ family
 - Builds upon WebSphere MQ's proven transport backbone
 - Licensed as a trade-up from WebSphere MQ on distributed platforms
- Will deliver robust solution for Managed File Transfer
 - Enable control of all aspects of file movement between IT systems
 - Provide file delivery reliability
 - Optimized for both small and massive files
 - Provides audit trail of transfers
- Designed to integrate with IBM's SOA portfolio
 - Enables files to be delivered to WebSphere Message Broker for File Processing

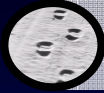


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Key Themes for WebSphere MQ File Transfer Edition

Smart SOA



Auditable

- Audit logs of transfers at source and target
- Audit data persisted to MQ queues and/or relational database.
- Captures time-stamped log at source and target



Ease-of-Use

- Remote console for transfer initiation, unattended operation, scripting, scheduling, restart policies, status display
- Integrated with MQ Explorer configuration tooling



Simplicity

- Small footprint, fast install
- No need to write code or use API to configure transfers – Enabled via GUI
- Leverages WebSphere MQ – no other technology pre-reqs



Security

- Access to individual files subject to file system permissions
- Link level security (inheriting MQ SSL security)



Breadth

- Support WebSphere MQ V6 and V7 for transfers
- Core Platform support (Windows, z/OS, Linux (32 Bit), Solaris, AIX, HP)
- Good file type support (ASCII/EBCDIC, CR/LF, Flat files, z/OS QSAM, BPAM, VSAM)



Automated Transfers

- Transfers can be scheduled to repeat at predetermined intervals
- Transfers can be triggered by range of file system events e.g. new files, updated file, etc.

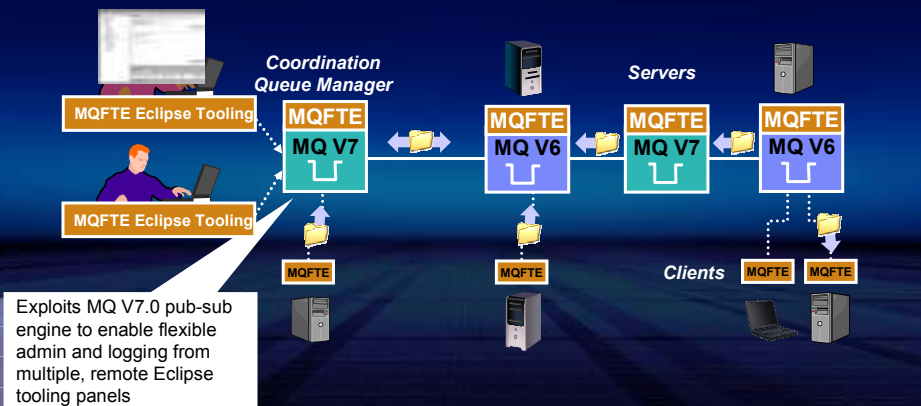
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Architecture

Smart SOA

- Enables remote GUI configuration and admin using same tooling as MQ
- Tooling publishes transfer requests to Backbone
- “Agents” running alongside Queues managers publish audit trail to Coordination Center
- “Agents” monitor file directories, load/unload files & perform pre- & post-transfer activities
- Coordination Queue manager publishes transfer status, process and audit trail
- Coordination Queue manager requires MQ V7.0
- Multiple Coordination Queue manager could control transfers, capture audit log and publish status

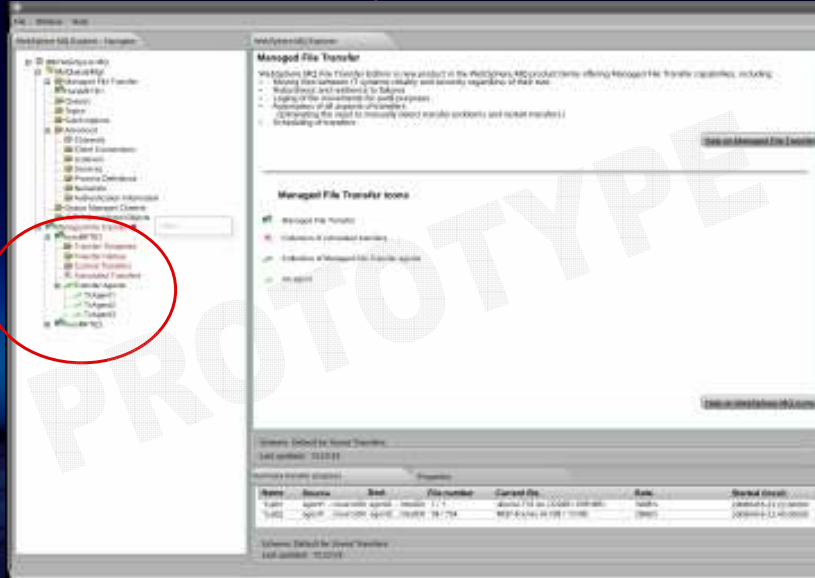


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Eclipse-based GUI integrated into MQ Explorer

Smart SOA



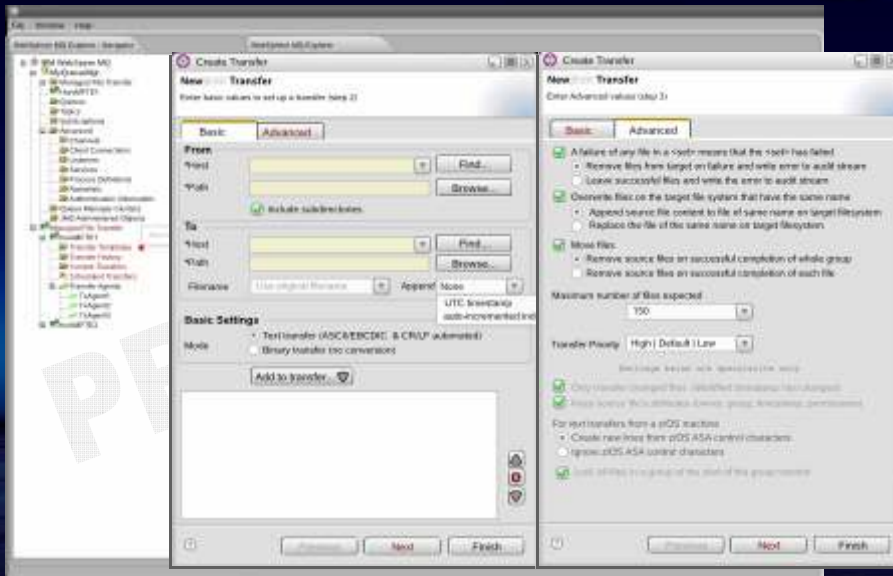
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Creating File Transfers

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Auditing File Transfers

Name	Source Agent	Source File	Target Agent	Target File	Started (UTC)	Completion State	State recorded (UTC)	Owner
Ts001	TsAgent1	SourceFile1	TsAgent1	TargetFile1	20080414-21:21:00000	Completed	20080220-21:58:00000	Bob Smith
Ts002	TsAgent1	SourceFile2	TsAgent2	TargetFile2	20080414-21:21:00000	Failed	20080220-21:58:00000	Bob Smith
Ts003	TsAgent1	SourceFile3	TsAgent2	TargetFile2	20080414-21:21:00000	Partial - In progress	20080220-21:58:00000	Bob Smith
Ts004	TsAgent1	SourceFile3	TsAgent3	TargetFile3	20080414-21:21:00000	Not yet started	20080220-21:58:00000	Bob Smith

- Captures log at Source and Target
- Can be viewed remotely using MQ Explorer
- Applications can subscribe to audit information (or portions of it)
- Log records can be loaded into other systems e.g. SQL database

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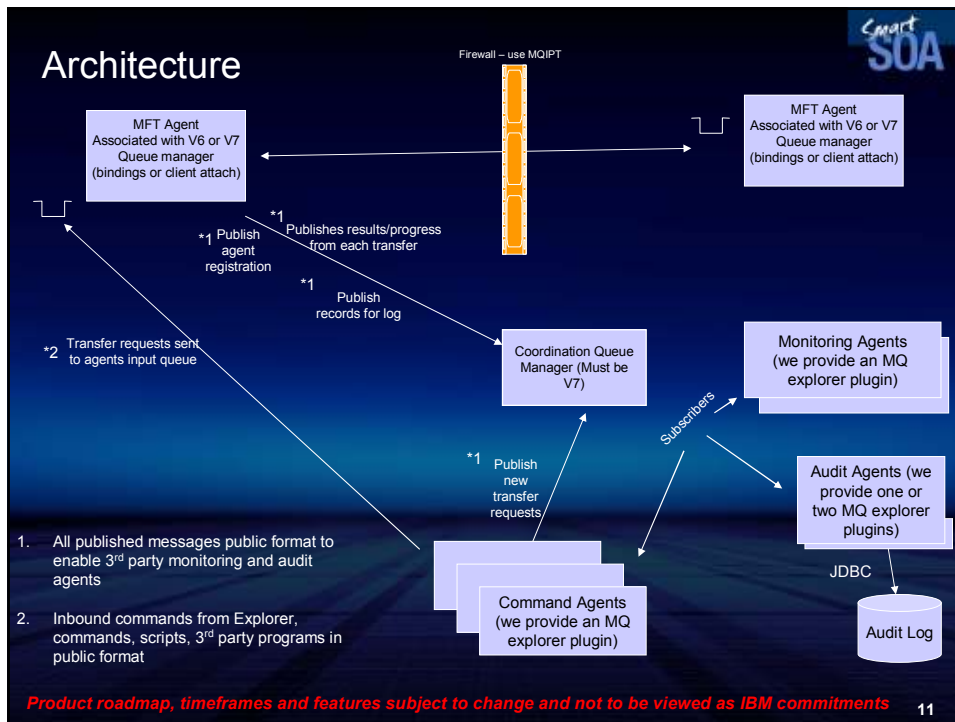
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Scripting

- Scripting language will provide automated, programmatic control of transfers
- Transfer commands can be invoked from the supported Operating Systems shell environment
- Developers can use any native scripting language on the OS that can invoke these commands
- Examples:
 - fteCreateTransfer Starts a new file transfer from the command line
 - fteStartAgent Starts a File Transfer agent from the command line
 - fteShowAgentDetails Displays the details of a particular File Transfer agent
 - fteStopAgent Stops a File Transfer agent in a controlled way

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- ## Key Progress to Date
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- Smart SOA
- Single and Group File Transfer
 - Multiple Concurrent Transfers
 - Full Transfer Log and Audit Messages Published
 - z/OS Data Set Support
 - Integrated GUI with WebSphere MQ Explorer
 - Full Context Help
 - Fully Accessible (JAWS Compliant)
 - Command Line and GUI Control
 - Multi-Platform (e.g. Solaris, HP-UX, Windows, Linux, AIX, z/OS)
 - Installer Support for Distributed Platforms
 - Multi-Language Support and Builds in 10 Languages.
 - Full InfoCenter Support for Current Levels of Function
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Apply to Join the Early Access Program

- **What is it?**
 - Opportunity to get early access to pre-GA code
 - Influence product directions and features
 - Build product knowledge and skills
- **When does it start?**
 - You can apply to join anytime after July 8th 2008
- **How can I apply?**
 1. Email filetransfer@uk.ibm.com to request to join
 2. If accepted by IBM, receive your unique numerical key and URL address
 3. Use your Key to log on to the Early Access Program site
 4. Read & accept the Program terms
- **What is required to join?**
 - A specific Non-Disclosure Agreement (NDA) must be signed
 - Can be signed electronically via the Betaworks Web site
- **What do I receive?**
 - Download regular code drops of the latest pre-GA iterations
 - Opportunity to provide product feedback direct to labs
 - Product roadmap details and materials
- **Who can I contact with more questions?**
 - Send an email to filetransfer@uk.ibm.com

