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WebSphere® MQ File Transfer Edition V7.0

Graphical user interface overview



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Unit objectives

After you complete this unit you will understand:

- How to create a file transfer request using the GUI
- Template support
- The transfer request monitoring and status information provided in the GUI



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WebSphere MQ File Transfer Edition V7.0

The graphical user interface



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WebSphere MQ Explorer plug-in

- WebSphere MQ File Transfer Edition provides a graphical user interface plug-in for WebSphere MQ Explorer.
 - ▶ Available on Windows® and Linux® x86 platforms
 - ▶ Requires WebSphere MQ Explorer to already be installed on your system
 - ▶ Eclipse plug-in
 - ▶ Installed from Remote Tools and Documentation CD

WebSphere MQ Explorer - Navigator

- IBM WebSphere MQ
 - Queue Managers
 - QM_COORD
 - QM1
 - QM2
 - Queue Manager Clusters
 - C3
 - Full Repositories
 - QM_COORD
 - QM1
 - QM2
 - Partial Repositories
 - JMS Administered Objects
 - Managed File Transfer
 - QM_COORD
 - Transfer Templates
 - Transfer Log
 - Pending Transfers

WebSphere MQ Explorer - Content

WebSphere. MQ File Transfer Edition
Version 7.0

Managed File Transfer Central

WebSphere MQ File Transfer Edition is a new product in the WebSphere MQ product family, offering Managed File Transfer capabilities, which include:

- * Moving files between IT systems reliably and securely regardless of their size.
- * Robustness and resilience to failures.
- * Logging of file movements for audit purposes.
- * Automating all aspects of transfers and eliminating the need to manually detect transfer problems and restart transfers.
- * Scheduling of transfers.

WebSphere MQ Explorer - Test Results

Managed File Transfer - Current Transfer Progress

Source	Destination	Current File	File Number	Progress	Rate	Started (Europe/London)
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File Transfer Edition Eclipse GUI plugin integrated into WMQ Explorer

GUI tasks (1 of 2):

- Creating a transfer request
- Creating a transfer request based on
 - ▶ a **schedule** - future date and time
 - ▶ a **trigger** - an environment *condition*
- Create and submit a file **Transfer Template**
- View the details of a pending file transfer request
- Cancel a pending file transfer request

GUI tasks (2 of 2):

- View progress of the current file transfers in the system
- Viewing history of past file transfer requests
 - ▶ Can be used for audit purposes
- Context sensitive help system
- Native Language Support





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WebSphere MQ File Transfer Edition V7.0

Creating a file transfer request



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Creating a file transfer request:

- Required:
 - ▶ Source and destination agent
 - ▶ Source and destination file names
 - Files, partially named files, directories
 - Grouping of the above
 - Overwrite attributes
 - ▶ Text or binary transfer (no conversion)
- Optional:
 - ▶ Disable MD5 checksum
 - ▶ Remove source files after completion

WebSphere MQ Explorer - Nav

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 - QM_COORD
 - Transfer Templates
 - Transfer Log
 - Pending Transfers

WebSphere MQ Explorer - Content

Transfer Log

Source	Destination	Completion State	Owner	Started (Europe/London)
AGENT1	AGENT1	Successful	ftheadmin @ 9.173.217.97	2008-10-29 14:03:42 GMT
AGENT1	AGENT1	Successful	hudson @ 9.173.217.97	2008-10-29 15:22:07 GMT
AGENT1	MQ71MVSA	Successful	hudson @ 9.173.217.97	2008-10-29 15:26:48 GMT
AGENT1	MQ71MVSA	Successful	hudson @ 9.173.217.97	2008-10-29 15:35:59 GMT
C:\test.txt //"/HUDSONT.TEST.TXT'		Successful		
AGENT1	MQ71MVSA	Failed	hudson @ 9.173.217.97	2008-10-29 15:38:34 GMT
AGENT1	MQ71MVSA	Successful	hudson @ 9.173.217.97	2008-10-29 15:39:28 GMT
MQ71MVSA	AGENT1	Failed	hudson @ 9.173.217.97	2008-10-29 15:53:38 GMT
MQ71MVSA	AGENT1	Partially successful	hudson @ 9.173.217.97	2008-10-29 15:54:34 GMT
MQ71MVSA	AGENT1	Successful	hudson @ 9.173.217.97	2008-10-29 15:56:49 GMT
QM1AGENT	QM2AGENT	Successful	hudson @ 9.173.217.97	2008-10-30 18:08:24 GMT
AGENT1	AGENT1	Failed	hudson @ 9.173.217.97	2008-10-31 11:56:03 GMT
QM1AGENT	QM2AGENT	Successful	hudson @ 192.168.61.128	2008-11-06 20:52:33 GMT
QM1AGENT	QM2AGENT	Successful	hudson @ 192.168.61.128	2008-11-07 10:24:21 GMT
QM1AGENT	QM2AGENT	Successful	hudson @ 192.168.61.128	2008-11-09 21:10:52 GMT
QM1AGENT	QM2AGENT	Successful	hudson @ 192.168.61.128	2008-11-09 21:14:32 GMT
QM2AGENT	QM2AGENT	Successful	hudson @ 192.168.61.128	2008-11-09 21:15:41 GMT

Filter the displayed log entries:

Managed File Transfer - Current Transfer Progress

Source	Destination	Current File	File Number	Progress	Rate	Started (Europe/London)
QM1AGENT	QM2AGENT	test.txt - (7B / 7B)	1 / 1	100%	0 KIB/s	2008-11-09 21:15:41 GMT
QM2AGENT	QM2AGENT	test.txt.Wed1403 - (7B / 7B)	20 / 20	100%	73 KIB/s	2008-11-09 21:15:41 GMT

Right Click to create a new transfer

New Transfer

Enter source agent, destination agent, and all file names to create a transfer.

Basic | **Advanced**

From:

Agent: QM1AGENT (Hursley UK Data Center) [v]
File: c:\disk1\test.txt [v]
 Include subdirectories

To:

Agent: QM2AGENT (Barcelona Data Centre) [v]
Directory: C:\disk4 [v]
File name: test.txt [v]
 Overwrite files on the destination file system that have the same name

Basic Settings

Mode: Text transfer (ASCII/EBCDIC and CR/LF automated)
 Binary transfer (no conversion)

Checksum: Disable computation of MD5 checksum during transfer

Disposition: Remove source files after completion

Specify Source file and agent details

destination details

Set attributes for transfer

Optionally group together several files into the same Transfer

Started (Euro)	Rate
2008-10-29 14:00	0 KIB/s
2008-10-29 15:00	1 KIB/s
2008-10-29 15:00	1 KIB/s
2008-10-29 15:00	1 KIB/s
2008-10-29 15:00	1 KIB/s
2008-10-30 16:00	1 KIB/s
2008-10-31 17:00	1 KIB/s
2008-11-06 20:00	1 KIB/s
2008-11-07 10:00	0 KIB/s
10 / 10	100%
1 / 1	100%

Creating a file transfer request (continued):

- Optionally enable a **scheduled** Transfer
 - ▶ Specify a start time base
 - ▶ Specify a Start date and time
 - ▶ Optionally enter a repeat interval
 - Number of: hours; days; weeks; months; years
 - ▶ Select when the Schedule Ends
 - date and time
 - Number of repetitions
 - Indefinitely

New Transfer

Enter schedule and event settings.

Schedule Triggers

Enable scheduled transfer

Time base: ADMIN Local time (Europe/London)

Start: 11/10/2008 10:00:00 PM

Repeat:

Every: 1 weeks

Until: 11/ 9/2008 10:00:00 PM

For: 1 repetitions

Forever

Schedule a Transfer

1) Specify a start time

2) (Optionally) enter the repeat interval

3) Select when the schedule ends

Started (Europe/London)

2008-10-29 14:03:42 GMT
2008-10-29 15:22:07 GMT
2008-10-29 15:26:48 GMT
2008-10-29 15:35:59 GMT

hudson@ 9.173.217.97

2008-10-29 15:38:34 GMT
2008-10-29 15:39:28 GMT
2008-10-29 15:53:38 GMT
2008-10-29 15:54:34 GMT

hudson@ 9.173.217.97

hudson@ 9.173.217.97

2008-10-30 18:08:24 GMT
2008-10-31 11:56:03 GMT
2008-11-06 20:52:33 GMT
2008-11-07 10:24:21 GMT
2008-11-09 21:10:52 GMT
2008-11-09 21:14:32 GMT

hudson@ 192.168.61.128

2008-11-09 21:15:41 GMT

File Number	Progress	Rate	Started (Europe/Lo
1 / 1	<div style="width: 100%; height: 10px; background-color: green;"></div>	100% 0 KIB/s	2008-11-09 21:14:3
20 / 20	<div style="width: 100%; height: 10px; background-color: green;"></div>	100% 73 KIB/s	2008-11-09 21:15:4



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Next >

Finish

Cancel

Creating a file transfer request (continued):

- Optionally enable a **conditional or triggered** transfer request
 - ▶ Specify a file trigger
 - ▶ Must be on the source agent' system
 - ▶ Can specify more than one file
 - ▶ Specify a Trigger Attribute
 - Exists
 - Does not exit
 - Exceeds a give size
 - ▶ Optionally group trigger conditions

WebSphere MQ

Queue Managers

QM_COORD

QM1

QM2

Queue Manager Clus

C3

Full Repository

QM_COORD

QM1

QM2

Partial Repository

JMS Administered O

Managed File Transf

QM_COORD

Transfer Text

Transfer Log

Pending Transfers

Create a Trigger

1) select a file to act as a trigger

2) Select a trigger condition

3) (Optionally) combine more than one trigger condition

Create New Managed File Transfer

New Transfer

Enter schedule and event settings.

Schedule Triggers

Enable triggered transfer

File Trigger

File: test.trigger2.txt

Trigger Attribute

Trigger when file...

exists

does not exist

exceeds

2

MB

Add to group

Remove selected

Check	Comparison	Qualifier	Names
FILESIZE	GREATER_EQUAL	2MB	test.trigger.txt

Managed File Transfer - Current Transfer P

Source	Destination	Current File
QM1AGENT	QM2AGENT	test.txt - (
QM2AGENT	QM2AGENT	test.txt, We



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Next >

Finish

Cancel

Creating a file transfer request (continued):

- Optionally specify metadata attribute=value pairs
 - ▶ User defined name/value pairs
 - ▶ Transported with files
 - ▶ Stored with File Transfer Log data – can be used for audit purposes
 - ▶ Can be used to tag transfers with business relevant information
 - ▶ Available to user Exit routines

New Transfer

Enter metadata attribute-value pairs

Attribute name:
Attribute value:

Attribute name	Attribute value
org.foo.accountCode	GBIBM
org.foo.AccountName	FileTransferAccount

Introducing Meta-data

- * user defined name/value pairs that are transported along with your files
- * it is recorded along side other data that can be used for audit purposes
- * Can be used to "tag" transfers with business relevant information
- * Can be used as part of user Exit routine processing

Completion State	Owner	Starte	Rate
Successful	fteadmin @ 9.173.217.97	2008-1	0 KIB/s
Successful	hudson @ 9.173.217.97	2008-1	73 KIB/s

Templates

- Templates provide the ability to store common file transfer request settings for ***repeated*** or ***complex*** transfers.
 - ▶ Created using the Explorer GUI (only)
 - ▶ Can use “save as Template” option
 - ▶ Can be ***scheduled, conditional*** (or both) requests
 - ▶ Stored in the ***Coordination*** queue manager
 - ▶ Activated by *submitting* the Template
 - ▶ Provides the ability to share common file transfer tasks between users

WebSphere MQ File Transfer Edition Templates

The screenshot displays the IBM WebSphere MQ Explorer interface. The left pane shows a tree view of the MQ environment, including Queue Managers (QM_COORD, QM1, QM2), Queue Manager Clusters (C1), Full Repositories, Partial Repositories, JMS Administered Objects, and Managed File Transfer (QM_COORD). The main pane shows the 'Transfer Templates' table with the following data:

Name	Source	Destination	Scheduled Start	Trigger Events
QM1QM2Templatetest	QM1AGENT	QM2AGENT	1/16/09 5:00:00 PM GMT ADMIN	FILE EQUAL exist OKToSend.File
SendMonthlyStoreData	QM1AGENT	QM2AGENT	1/16/09 6:00:00 PM GMT ADMIN	

A context menu is open over the first row, showing options: Submit, Edit, Edit as New Transfer, Duplicate, and Delete. The bottom pane shows the 'Managed File Transfer - Current Transfer Progress' table with columns: Source, Destination, Current File, File Number, Progress, Rate, and Started (Europe/London).

GUI file transfer monitoring information

- Current Transfer Progress Log
 - ▶ Source and Destination agents
 - ▶ Transfer Start date/time
 - ▶ Current file being transferred
 - ▶ File number
 - ▶ File transfer progress
 - ▶ Transfer Rate

GUI file transfer monitoring information

- Transfer Log
 - ▶ Source and Destination agents
 - ▶ Transfer completion state
 - ▶ Transfer request owner (initiator)
 - ▶ Started and state recorded times

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Transfer Log shows information that can be used to audit transfers

Transfer Log

Source	Destination	Completion State	Owner	Started (Europe/London)
AGENT1	AGENT1	Successful	ftes...@ 9.173.217.97	2008-10-29 14:03:42 GMT
AGENT1	AGENT1	Successful	hudson...@ 9.173.217.97	2008-10-29 15:22:07 GMT
AGENT1	MQ71MVSA	Successful	hudson...@ 9.173.217.97	2008-10-29 15:26:48 GMT
C:\test.txt	/u/hudson.../test.txt	Successful		
AGENT1	MQ71MVSA	Successful	hudson...@ 9.173.217.97	2008-10-29 15:35:59 GMT
AGENT1	MQ71MVSA	Failed	hudson...@ 9.173.217.97	2008-10-29 15:38:34 GMT
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MQ71MVSA	AGENT1	Failed	hudson...@ 9.173.217.97	2008-10-29 15:53:38 GMT
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MQ71MVSA	AGENT1	Successful	hudson...@ 9.173.217.97	2008-10-29 15:56:49 GMT
QM1AGENT	QM2AGENT	Successful	hudson...@ 9.173.217.97	2008-10-30 18:08:24 GMT
AGENT1	AGENT1	Failed	hudson...@ 9.173.217.97	2008-10-31 11:56:03 GMT
QM1AGENT	QM1AGENT	Successful	hudson...@ 192.168.61.128	2008-11-06 20:52:33 GMT
QM2AGENT	QM1AGENT	Failed	hudson...@ 192.168.61.128	2008-11-07 10:24:21 GMT

Filter the displayed log entries:

Current Transfer Log Shows progress of Transfers

Test Results Managed File Transfer - Current Transfer Progress

Source	Destination	Current File	File Number	Progress	Rate	Started (Europe/Lon)
QM2AGENT	QM1AGENT	test.txt.moved4 - (7B / 7B)	10 / 10	██████████	100% 0 KIB/s	2008-11-07 10:18:3
QM2AGENT	QM1AGENT	test.txt.moved4 - (7B / 7B)	10 / 10	██████████	100% 1 KIB/s	2008-11-07 10:22:4
QM2AGENT	QM1AGENT	test.txt.moved4 - (7B / 7B)	10 / 10	██████████	100% 1 KIB/s	2008-11-07 10:24:2
QM2AGENT	QM1AGENT	test.txt.moved4 - (7B / 7B)	10 / 10	██████████	100% 1 KIB/s	2008-11-07 10:35:1
QM2AGENT	QM1AGENT	test.txt.moved4 - (7B / 7B)	10 / 10	██████████	100% 1 KIB/s	2008-11-07 10:36:3
QM1AGENT	QM2AGENT	test.trigger.txt - (7B / 7B)	1 / 1	██████████	100% 0 KIB/s	2008-11-07 10:56:1

Unit summary

Now that you have completed this unit, you should understand:

- How to create a file transfer request using the GUI
- Template support
- The transfer request monitoring and status information provided in the GUI
- For more information on the GUI refer to <http://ibm.com/webspheremq/filetransfer>