

This presentation will give an overview of WDI and WMQ.



The presentation covers the basic steps required for WDI and WMQ configuration.



The first task is to configure WMQ and create the objects for a Queue Manager, Local Queue, and Remote Queue.



For AIX or Windows you can use the command line command crtmqm or you can use WMQ Explorer.



There are two ways to manage the Queue Managers WMQ Explorer and the command line or scripting interface.



This is an example of using WMQ Explorer.

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The sample script defines all the default WMQ objects required by WebSphere Data Interchange and is located in \WDIServer\V3.3\samples\wdimqcommands.txt











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The definition of the destination from which data is received or to which it is written is defined with a series of administrative profiles. The Mailbox profile defines the network preferred by a requester during a Receive or Input process. The Trading Partner Profile defines the network preferred by the TP during a Send or Output process. The Network Profile defines the Network to be used and the programs for communicating with the Network. The Queue Profile defines the WebSphere WMQ Queue to be used. A Service profile contains a WebSphere Data Interchange PERFORM command. The Service profile constrains the conditions for executing the command, and it identifies the system names of the files used during processing of that command. Any number of logical files may be defined for a Service profile using data reference associations.



WebSphere Data Interchange can use a WebSphere MQ message queue for most of its input and output files. To use a WebSphere MQ message queue with WebSphere Data Interchange, you must first define the queue to WebSphere MQ and then identify it to WebSphere Data Interchange. Identifying a message queue to WebSphere Data Interchange is accomplished through a Queue profile.

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The Queue Profile, Mailbox Profile, and Network Profile are located in the WDI Client Adapters functional area.

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The Queue profile associates a logical name with a physical WebSphere MQ message queue. Message queue processing options are also identified in the Queue profile. There will at least one Queue profile for each WebSphere MQ message queue used by WebSphere Data Interchange. Additional Queue profiles can be defined for a single message queue when different processing options will be used for the same message queue.



A Service profile contains a WebSphere Data Interchange PERFORM command and it identifies the system names of the files used during processing of the command. It is used to chain commands together within WebSphere Data Interchange processing. Essentially, when WebSphere Data Interchange closes an output file, an attempt will be made to locate a Service profile that has the same name as the output file. If a Service profile is found, the PERFORM command in the Service profile will be executed. Typically, the output file that is triggering the search for a Service profile will be used as an input file for the PERFORM command contained in the Service profile.

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WebSphere Data Interchange uses Associated Data Reference Profiles to define files used in the Service profile. Associated Data references define the logical-to-physical file relationships, and include common files, input files, output files, network files, and export and import files. Associated Data references are only used to supply file information that is not otherwise provided.



A **Mailbox profile** describes the individual users or groups who request network services for sending or receiving documents, EDI transactions, messages, or files on a WebSphere Data Interchange System. A Mailbox profile is similar to a network mailbox owner. You must identify each user or group who will request network services by adding a Mailbox profile to WebSphere Data Interchange for that user or group. Although multiple users or groups can use the same network mailbox, you must still identify each user or group with a Mailbox profile. Each Mailbox profile allows for specific processing options for the user or group it represents.

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The Mailbox Editor shows the details of a Mailbox profile. Most information contained in the profile is displayed on the General tab page. Additional comments about the profile can be put in a comment on the Comments tab page.



A Network profile is used to define the characteristics of a network you use for communications with trading partners. It provides options and parameters used when communicating with the network. For WebSphere MQ communication with trading partners, the Network profile identifies the Queue profiles associated with the message queues used to send and receive documents. To send data to a trading partner, specify the Network profile that identifies the appropriate Queue profile in the Network ID field of the Trading Partner profile. To receive data from a trading partner, specify the Network profile that identifies the appropriate Queue profile in the Network profile that identifies the appropriate Receive data from a trading partner, specify the Network profile that identifies the appropriate Queue profile in the Network profile that identifies the appropriate Queue profile in the Network profile.

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| WDI and WMO Overview © 2007 JBM C/ | orporati |

WebSphere Data Interchange includes support for multiple networks and allows you to write programs to add support for any network that is not supported. WebSphere Data Interchange uses Network profiles to define the network and Network Commands profiles to define the operations supported by that network.

| | IBM Software C | Group | | | IBM |
|-------------------|-------------------------------|-------------------------------|-------------------------|--------------------------|------------------------------|
| | | WDI CI | ient Prof | files | |
| WebSphere | Data Interchange for Multipla | tforms V3.3 - WDI33Server | - Network Profile - EDI | | |
| File Actions Edit | Navigate View Window Help | | | | |
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| | 33Server (Adapters) - Query: | All | | | |
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| Mailb | WDI33Server - Network Pro | file - EDI | | | |
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| IIN | Communication Roduine | | Network Name | Ingenes | |
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| IN ISC | Envelope File | | Envelope Record Length | | |
| DM MC | Acknowledgement File | | Output Ele | | |
| W | Message Text Header | | Message Handler | | |
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| | | WDI and WM | Q Overview | | 37 © 2007 IBM Corporation |

The Network Profile Editor shows the details of a Network profile. The editor contains two tab pages; General and Comments. Most information contained in the profile is displayed on the General tab page. Additional comments about the profile can be put in a comment on the Comments tab page.





| IBM Softwar | e Group | IBM |
|--|--|---|
| WebSphere MQ - [Console Root/WebSphere File Action View Pavorites Window Help Console Root Console Root Queue Managers D Queue Managers Console Root Console Root | WINDLA CAUNTERS Queues Weine Tree Weine Tree Local EDLIN Forperties Free Tigger Desthe: Tigger Desthe: Instation Queue Name: WDDL PROC OK Cancel | ager Custer Queue Type Current Depth 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
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| | | 40 © 2007 IBM Corporation |











Command chaining allows the output of one command to be chained to a second command. This allows for techniques such as double translation, required to go from XML->EDI with the Send/Receive translator, or combination commands with the PERFORM TRANSFORM to couple transmission with a translation, which is a TRANSFORM followed by a SEND command. Service profiles are used to identify the sequence of the commands. The key for the chain is the logical name of the output file. The chain is terminated when no Service profile exists, no output file is created, or the return code of a command indicates an error.







In addition to WebSphere Data Interchange's normal support for WebSphere MQ message queues, WebSphere Data Interchange can exchange documents with applications via message queues or JMS when the message containing the document is prefixed with the MQRFH2 header. Some applications, such as WebSphere Message Broker and WebSphere Interchange Control Server (WICS), use these mechanisms to exchange documents with WebSphere Data Interchange. The MQRFH2 header contains a Message Content Descriptor (<mcd>) folder. The Message Content Descriptor (<mcd>) folder. The Message Content Descriptor contains a set of values that identify the meta-data name associated with the document.

When exchanging documents where the MQRFH2 header is involved, an MCD profile is used to associate the name of a WebSphere Data Interchange document definition with the values contained in the Message Content Descriptor (mcd) of the MQRFH2 header. Document definitions in WebSphere Data Interchange include Data Formats, EDI Standard Transactions, XML schemas and XML DTDs. The MCD profile allows WebSphere Data Interchange to receive a document with an MQRFH2 header associate it with an existing document definition in WebSphere Data Interchange. The name of a WebSphere Data Interchange document definition in WebSphere Data Interchange. The name of a WebSphere Data Interchange document definition in WebSphere Data Interchange. The name of a WebSphere Data Interchange document definition by the corresponding values from the Message Content Descriptor of the MQRFH2 header..



With Outbound processing, a Network Profile with network name EDIRFH2 triggers lookup for MCD Profile matching on Syntax, Dictionary, Document, to create the WMQ MQMD and MQRFH2 headers in the output file. Network Profile with network name EDICYCL creates WMQ header with extra fields for interfacing with CYCLONE. If an MCD profile is not found, the domain is 'wdi' and the dictionary and document are taken from the map executed.

Inbound - WMQ headers are parsed and triggers lookup for MCD Profile match. Syntax, Dictionary, Document, values defined in MCD Profile are used for **substitution** values on Service Profile PERFORM command.

| IBM Software Group | IBM |
|--|----------------|
| WDI Client - MCD Profile | |
| WebSphere Data Interchange for Multiplatforms V3.3 - WDI33Server - MCD Profile - mrm 123456789012 XML_P0 xml The Actions Edit Navigate View Workswy Hein | × |
| System W01335erver ✓ | |
| III WDI33Server (Processing) - Query: All | |
| 28 B & (7001335erver - MCD Profile - mrm 123456789012 XML_PO xml | |
| Service Profiles MCD Profile 🖄 HH H H HH 🖻 🖾 | |
| Description General Comments X12 80 P.O. for WOI to V | |
| POWILSSK for MRM to WP Description POWILSSK for NRM to WDI | |
| Domain mm Right Header | |
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| Type 124L_PO | |
| Format send | |
| Equivalent WebSphere Data Interchange Document Definition | |
| Syntax Type XML | |
| Dictionary Name ITESTS | |
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| WDI and WMQ Overview © 2007 II | 3M Corporation |

MCD profiles can be added, viewed and changed using the MCD Profile Editor. The editor contains two tab pages; General and Comments. Most information contained in the profile is displayed on the General tab page. Additional comments about the profile can be put in a comment on the Comments tab page.

| IBM Software G | roup | | IBM |
|---|---|---|------------------------------|
| WDI Client - M | CD Pro | file | |
| WebSphere Data Interchange for Multiplatform File Actions Edit Navigate View Window Help | s V3.3 - WDI33Server - Netv | work Profile - EDI | |
| #ii WDI33Server (Adapters) - O [] [] [] [] WDI33Server - Network P [] | uery: All rofile - EDI | | |
| Network ID Communication Routine Negwork Program Input File Envelope File Adgrowiedgement File Message Text Header Network Sequence | VANING EDIMQSR EDIMQS EDIMQSR EDIMQSR EDIMQSR EDIMQSR EDIMQSR EDIMQSR EDIMQS | Description Network Name Input Becord Length Envelope Record Length Quitput File Message Handler System Leyel | Network program for EDI data |
| Ready | | | |
| | | | 51 |

In the Network profile, the Network Program is the physical name of the network program that sends and receives documents, messages, and files. This is the program invoked by the communication routine to process requests.

| IBM Software Group | IBM |
|---|--------------------|
| WDI Client - MCD Profile | |
| WebSphere Data Interchange for Multiplatforms V3.3 - WDI33Server - Service Profile - EDI_IN Pie Actions Edit Navigate View Window Help System System | |
| If WDI33Server (Processing) - Query; All Image: Service Profile - EDL IN Image: Service Profile - EDL IN Image: Service Name (filename) Image: Service Name (filename) <tr< th=""><th></th></tr<> | |
| Ready Scart Scart S & C & C & C & C & C & C & C & C & C & | 2M Soday 007 |
| | 52 |

Substitution keywords can be used within the PERFORM command. The values from the WMQ user folder are accessed and used for the substitution keyword values.





You can get and set the values of the MQMD and MQRFH2 headers used by WebSphere MQ. By allowing you to access the values in these MQ headers from your maps, WebSphere Data Interchange can be more easily integrated with other WebSphere MQ and JMS applications. The WebSphere MQ header values from the source document can now be obtained using the GetProperty() function. The header values on the target document can now be set using the SetProperty() command.

| IBM Software Group WDI Client - MCD Profile | IBM |
|---|----------------------|
| III Development (Mapping) - Query: All III Development (Mapping) - Query: All III Development - Data Transformation Map - POX/ML5SR-EDI III Development - Data Transformation Map - Poxetises - Data Transformation Map - Data Transformatin Map - Data | |
| 118 5.07.WM Peake Delete Peake Boot Middle Aresistence 122 5.07.WM StepSace Team Boot Middle Aresistence Boot Middle Aresistence 121 8.07.WM Peader (Prowneds (SR-ED) StepSace Team Boot Middle Aresistence Boot Middle Aresistence 121 8.07.WM Peader (Prowneds (SR-der) Rece Boot Middle Aresistence | 55 SM Corporation |

This is a list of the MQMD properties available.

| IBM Software Group WDI Client - MCD Profile | IBM |
|---|-----|
| III Development (Mapping) - Query: All Image: Control Strings Data Transformation Map - POXML5SR-EDI Image: Control Strings Data Transformation Image: Control Strings | - |
| 111 POVMLSR Punctions Farget Document Properties Punctions 112 POVMLSR Punctions Operations Specific Sinvelop Properties Punctions 113 POVMLSR Specific Sinvelop Properties Punctions Punctions | |

This is a list of the MQRFH2 properties available.

