



IBM Software Group

# 2004 WDI / WBIC Customer Conference

*Global Business Transformation*

## WMQ and WDI

**WebSphere.** software

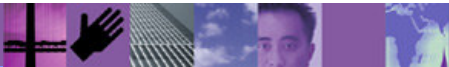
David Shannon and Angela Winters Hill



 e-business software

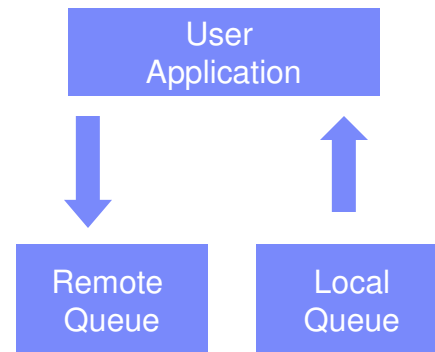
## Where to Begin

- WMQ Configuration
  - Define Queue Manager (QM)
  - Define Message Queues
  - Remote Queues
- WDI Client Setup
  - Define Profiles
  - Shipped Profiles
- WMQ Trigger Monitor
- WDI Adapter
- Command Chaining
- WDI Client MCD Profile



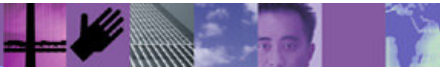
# WebSphere MQ Configuration – Tasks

- Create necessary objects
  - Create a Queue Manager
  - Create a Local Queue
  - Create a Remote Queue



## Creating A Queue Manager

- AIX or windows command line use `crtmqm` command.
  - The '-q' option will make the new Queue Manager the default queue manager.
- MQSeries Explorer can be used to create queue managers on Windows platform.



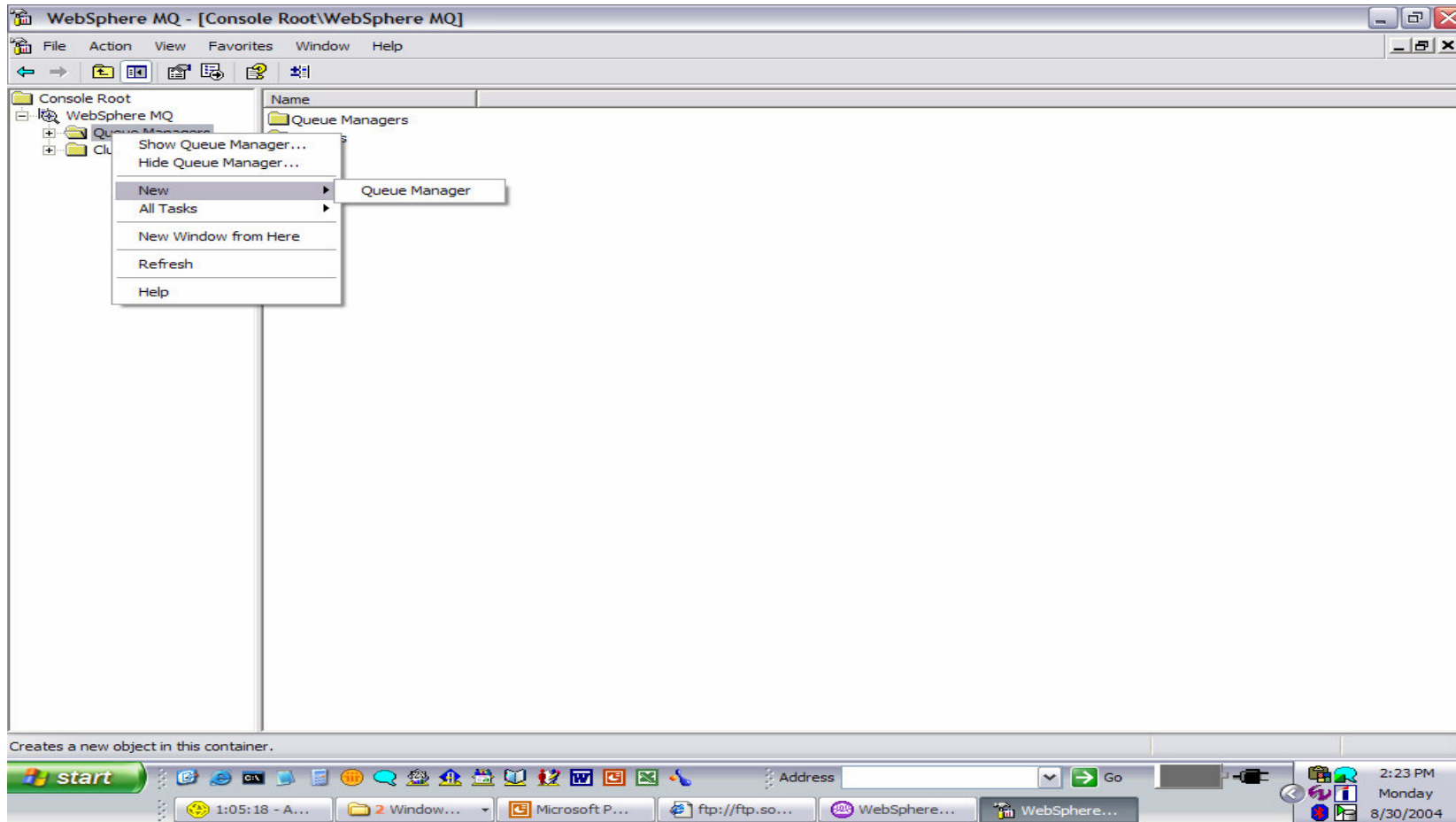
## WebSphere MQ Configuration – Tools

- WebSphere MQ provides two ways to manage AIX and Windows Queue Managers:
  - WebSphere MQ Explorer
  - WebSphere Command Line (Scripting Interface)

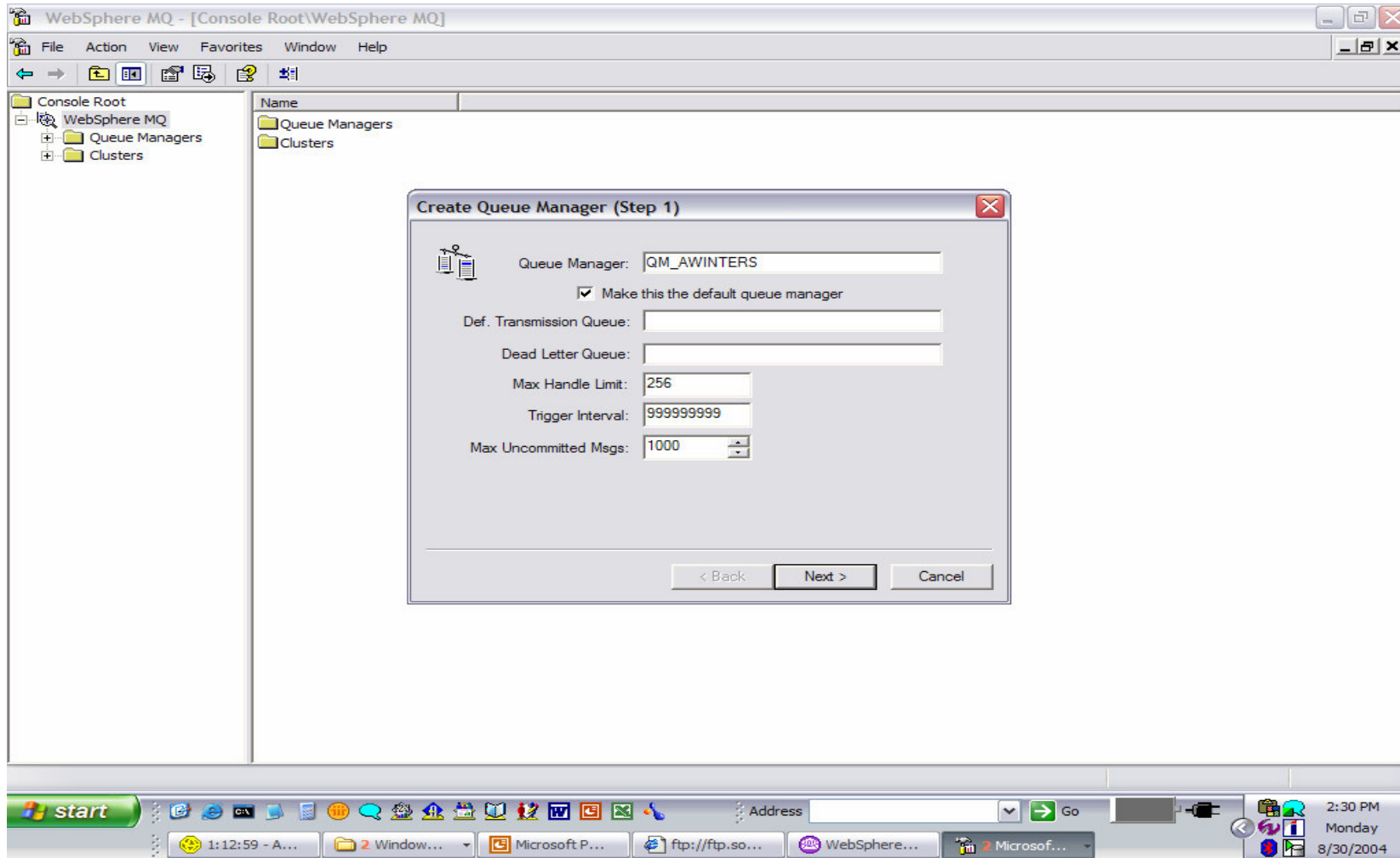


# WMQ Queue Manager

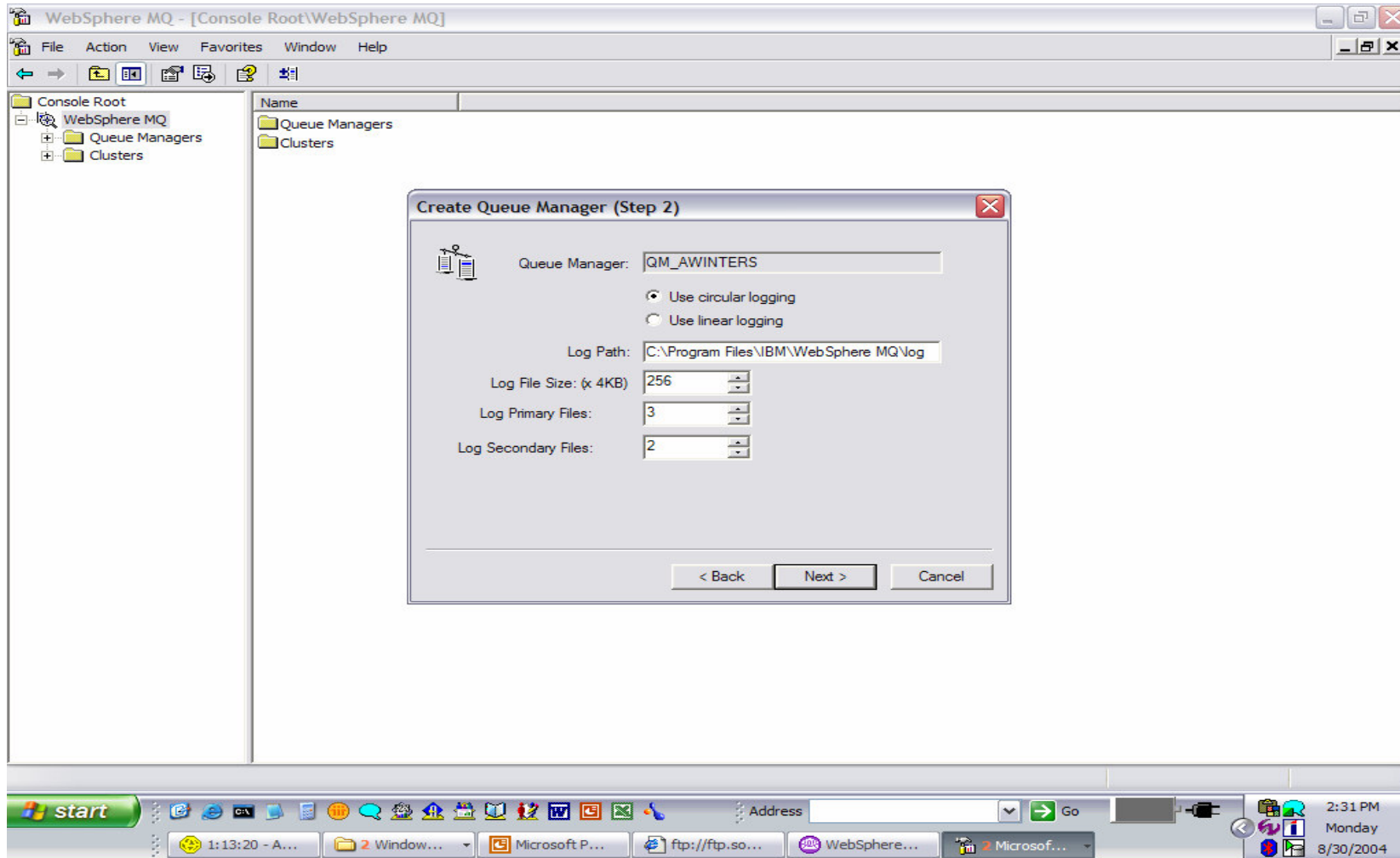
## WMQ Explorer



# WMQ Queue Manager

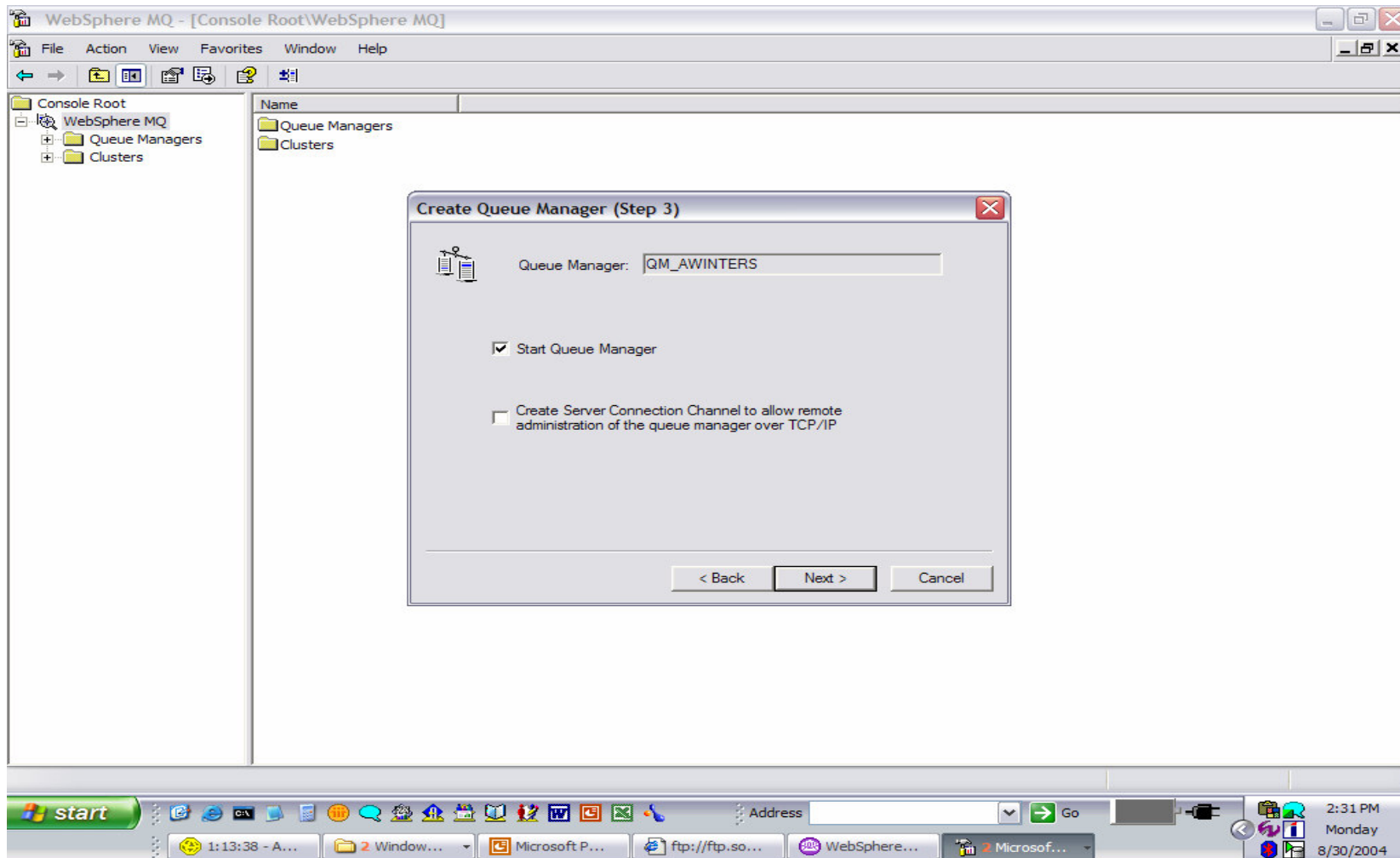


# WMQ Queue Manager

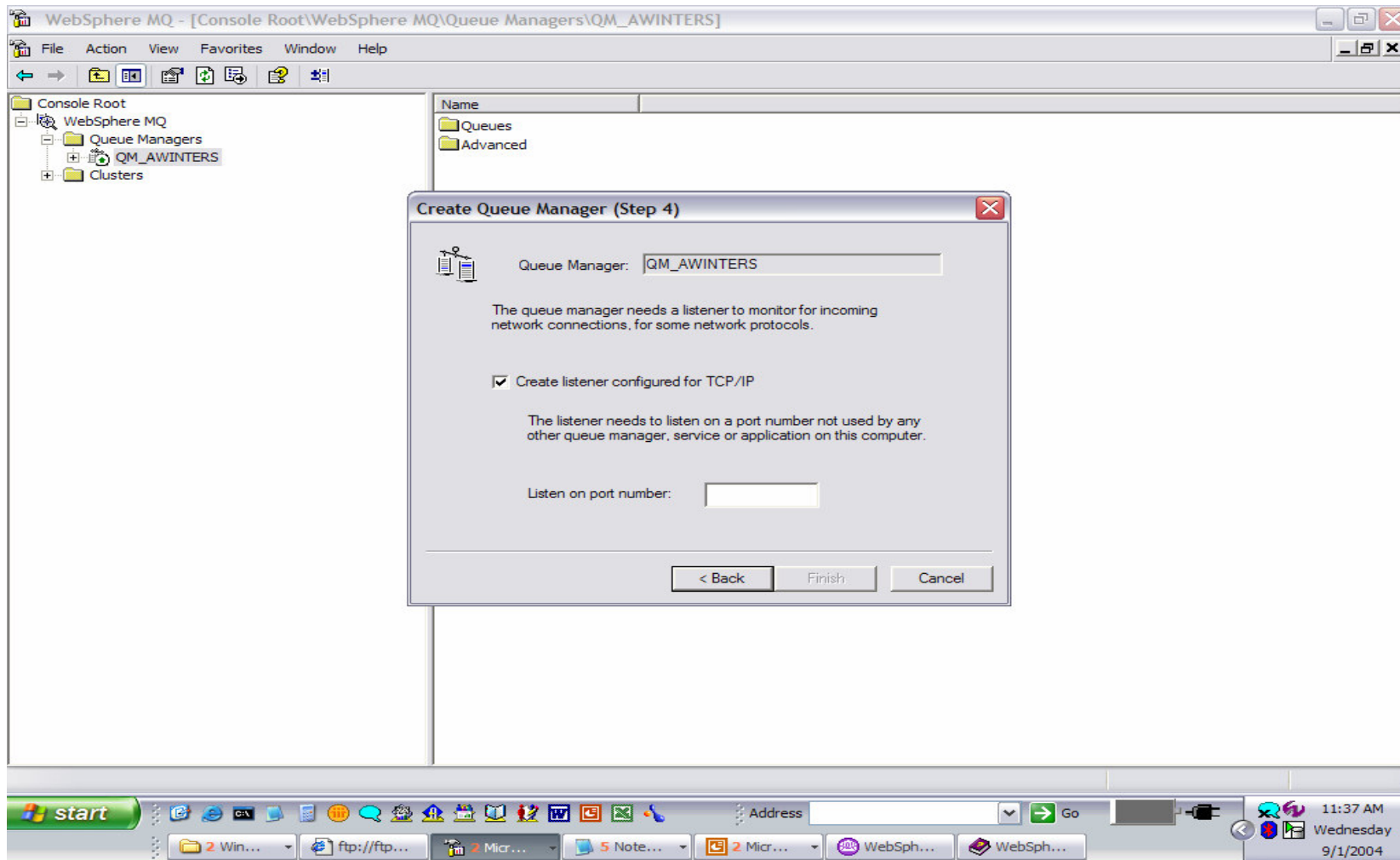




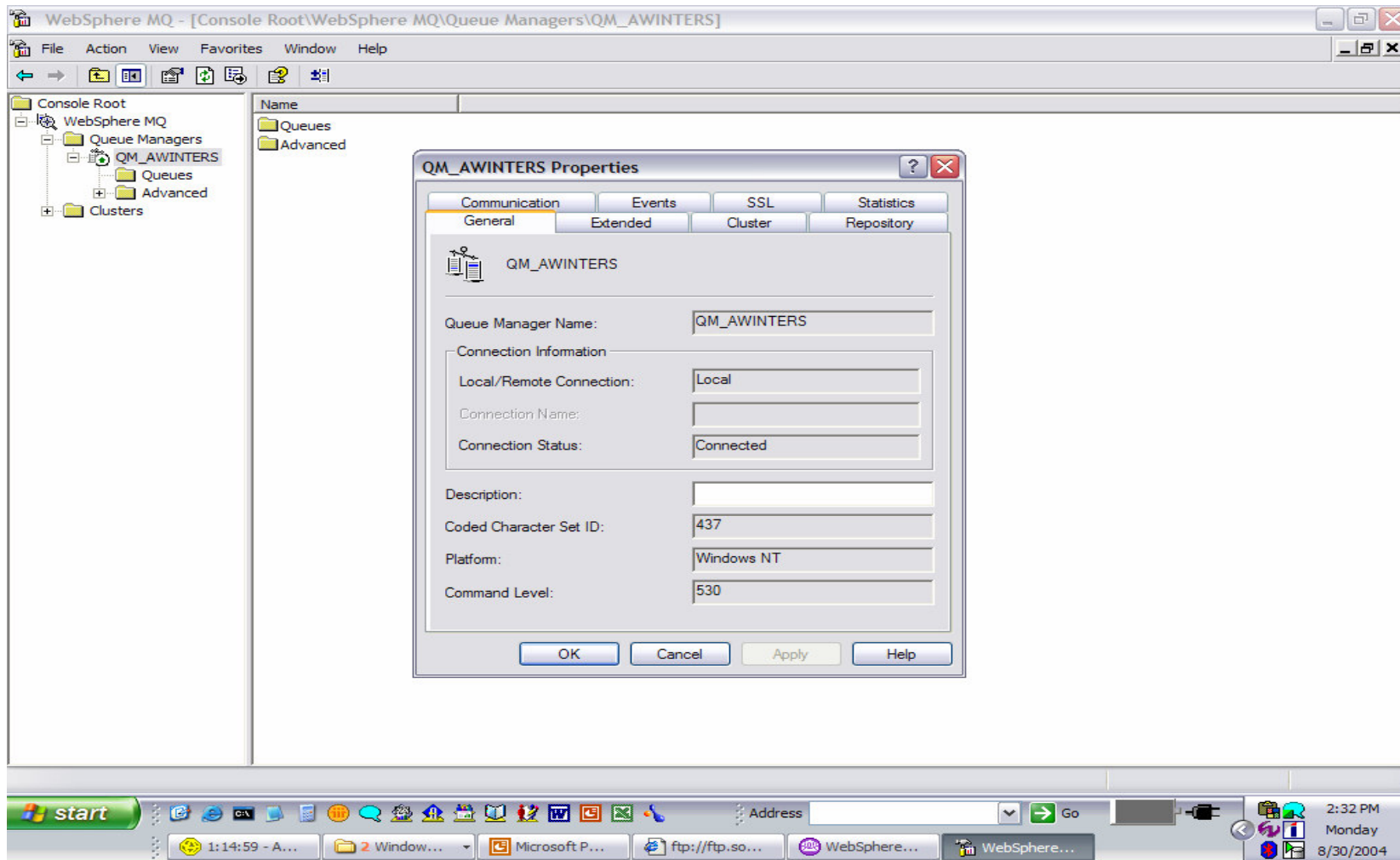
# WMQ Queue Manager



# WMQ Queue Manager



# WMQ Queue Manager



## WebSphere MQ Command Line Interface

- Command line interface can be used to execute scripts containing MQSeries commands for creating or altering MQ objects
- WebSphere Data Interchange provides a script of MQSeries commands.
  - Sample script defines all the default MQ objects required by WebSphere Data Interchange
  - `\WDIServer32\sample\AdvAdapterMQ.txt`



# WebSphere Data Interchange sample script

```

*****/
* Program name: AdvAdapterMQ.txt */
* */
* Description: builds MQ queues for the WDI Default Installation */
* */
* Use: Use this file as standard input for 'runmqsc'. */
* */
* runmqsc QMgr < AdvAdapterMQ.txt */
* */
* If the default queue manager is used the QMgr parameter is not */
* needed. */
* To change the home directory for the WDIAdapter, alter the */
* USERDATA in the PROCESS definition. */
* */
*****/
DEFINE PROCESS('WDI.TRANSLATOR.PROC') REPLACE +
  DESCR('WebSphere Data Interchange Adapter') +
  APPLTYPE(DEF) +
  ENVRDATA('NumThreads(1) Timeout(10000)')

*****/
* Create the input and output queues as local. */
* */
* Input queues will cause a trigger message. */
*****/
DEFINE QLOCAL('WDIAdapterCmd') REPLACE +
  DESCR('Command queue WDIserver') +
  MAXMSGL(4194304) +
  DEFPSIST(YES) +
  BOTHRESH(0) +
  SHARE +
  GET(ENABLED) +
  PUT(ENABLED)

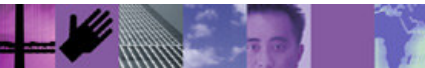
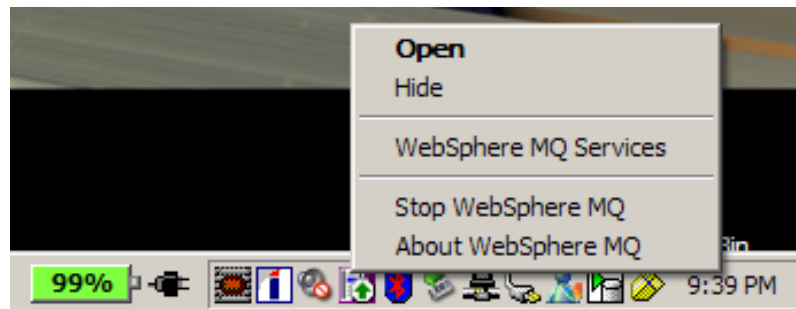
DEFINE QLOCAL('WDI.PRTFILE.Q') REPLACE +
  DESCR('Printfile data from WDIserver program') +
  MAXMSGL(4194304) +
  DEFPSIST(YES) +
  BOTHRESH(0) +
  SHARE +
  GET(ENABLED) +
  PUT(ENABLED)

```



# Queue Manager Requirements

- Start a command server on queue manager
  - On AIX issue the command “/usr/mqm/bin/strmqcsv”
  - On windows use WebSphere MQ Services tool



## Define Message Queues

- \WDIServer32\sample\wdi\_mq\_setup.txt
  - Contains WMQ setup for default configuration
  - The following MQSeries objects are created:

WDI.PROC - WDI Trigger Process Definition

WDI.FAILURE.Q - Failure Queue

WDI.INIT.Q - Trigger Initiation Queue

ADF\_IN - Application data queue for WDI translation

EDI\_IN - EDI data queue for WDI translation

XML\_IN - XML data queue for WDI translation

ADF\_OUT - Application data queue from WDI translation

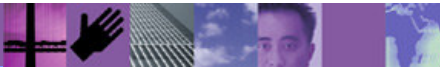
EDI\_OUT - EDI data queue from WDI translation

XML\_OUT - XML data queue from WDI translation



## Define Message Queues

- `runmqsc < wdimqcommands.txt`
- If the default queue manager is not used then use it as the first parameter:
- `runmqsc qmanager_name < wdimqcommands.txt`
- substitute the name of the queue manager for qmanage name shown above.





# Results - runmqsc < wdimqcommands.txt

The screenshot shows the WebSphere MQ console interface. The left pane displays a tree view of the console structure, with 'Process Definitions' selected under 'QM\_AWINTERS'. The right pane shows a table of process definitions.

Name	Application Type	Application ID	Description	Environment Data	User Data	Alteration Date (GMT)
WDI.PROC	Windows NT	WDIAdapter...	WebSpher...	>> ^C:\WDIServe...	C:\WDISE...	2004-08-17

The Windows taskbar at the bottom shows the system clock as 12:50 PM on Tuesday, 8/31/2004. Open applications include '2 Window...', 'ftp://ftp.so...', 'WebSphere...', '2 Notepad', 'Microsoft P...', and 'WebSphere...'.

# Results - runmqsc < wdimqcommands.txt

The screenshot shows the WebSphere MQ console interface. On the left is a tree view of the console structure, including Queue Managers, Queues, Advanced, Channels, Client Connections, Process Definitions, Namelists, Authentication Information, and Cluster Queue Managers. The main area displays a table of process definitions:

Name	Application Type	Application ID	Description	Environment Data	User Data	Alteration Date (GMT)
WDI.PROC	Windows NT	WDIAdapter....	Webspher...	>> "C:\WDIServe...	C:\WDISE...	2004-08-17

A "WDI.PROC Properties" dialog box is open, showing the following details:

- Process Definition Name: WDI.PROC
- Description: "Websphere Data Interchange Ada
- Application Type: Windows NT
- Application Identifier: WDIAdapter.exe
- Environment Data: f">> "C:\WDIServer32\runtime\prt\
- User Data: C:\WDIServer32\runtime\dicmd
- Alteration Date: 8/17/2004
- Alteration Time: 6:58:39 AM

The Windows taskbar at the bottom shows the system clock as 12:51 PM Tuesday 8/31/2004. Open applications include WebSphere..., Notepad, and Microsoft P...

# Results - runmqsc < wdimqcommands.txt

The screenshot displays the WebSphere MQ console interface. The left pane shows a tree view with 'Queue Managers' expanded to 'QM\_AWINTERS' and 'Queues' selected. The main pane shows a table of queues with the following data:

Name	Queue Type	Cluster Name	Cluster Namelist	Hosting Queue Manager	Cluster Queue Type	Current Depth	Description
ADF_IN	Local					0	Application.
ADF_OUT	Local					0	Application.
EDI_IN	Local					0	EDI data f..
EDI_OUT	Local					0	EDI data fr.
SPIDERMAN	Remote Defi...						
TO_SPIDERMAN	Local					0	WebSpher.
WDI.FAILURE.Q	Local					0	WDI Failur.
WDI.INIT.Q	Local					0	WDI Trigge
XML_IN	Local					0	XML data f.
XML_OUT	Local					0	XML data f.

The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the date and time: 4:18 PM Monday 8/30/2004.

# Define Message Queues

The screenshot shows the WebSphere MQ console interface. A table lists several queues, and a dialog box titled 'EDI\_IN Properties' is open, showing configuration details for the 'EDI\_IN' queue.

Name	Queue Type	Cluster Name	Cluster Namelist	Hosting Queue Manager	Cluster Queue Type	Current Depth	Description
ADF_IN	Local					0	Application.
ADF_OUT	Local					0	Application.
EDI_IN						0	EDI data f.
EDI_OUT						0	EDI data fr.
SPIDERMAN							
TO_SPIDERMAN						0	WebSpher.
WDI.FAILURE.Q						0	WDI Failur.
WDI.INIT.Q						0	WDI Trigge
XML_IN						0	XML data f.
XML_OUT						0	XML data f.

**EDI\_IN Properties** (Triggering tab):

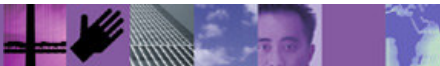
- Trigger Control: On
- Trigger Type: First
- Trigger Depth: 1
- Trigger Message Priority: 0
- Trigger Data: (empty)
- Initiation Queue Name: WDI.INIT.Q
- Process Name: WDI.PROC

# Remote Queues

The screenshot shows the WebSphere MQ console interface. The left pane displays a tree view of the console structure, including 'Queue Managers' and 'Queue Managers\QM\_AWINTERS\Queues'. The main pane displays a table of queues.

Name	Queue Type	Cluster Name	Cluster Namelist	Hosting Queue Manager	Cluster Queue Type	Current Depth
ADF_IN	Local					0
ADF_OUT	Local					0
EDI_IN	Local					0
EDI_OUT	Local					0
SPIDERMAN	Remote Definition					
TO_SPIDERMAN	Local					0
WDI.FAILURE.Q	Local					0
WDI.INIT.Q	Local					0
XML_IN	Local					0
XML_OUT	Local					0

The Windows taskbar at the bottom shows the system clock as 12:02 PM on Tuesday, 8/31/2004, and several open applications including Lotus Organizer and WebSphere MQ.



# Remote Queues

The screenshot shows the WebSphere MQ console interface. A table lists several queues, and a dialog box for the 'SPIDERMAN' queue is open, showing its configuration details.

Name	Queue Type	Cluster Name	Cluster Namelist	Hosting Queue Manager	Cluster Queue Type	Current Depth
ADF_IN	Local					0
ADF_OUT	Local					0
EDI_IN						0
EDI_OUT						0
SPIDERMAN						0
TO_SPIDERMAN						0
WDI.FAILURE.Q						0
WDI.INIT.Q						0
XML_IN						0
XML_OUT						0

**SPIDERMAN Properties**

General Cluster Statistics

SPIDERMAN

Queue Name: SPIDERMAN

Type: Remote Definition

Description:

Put Messages: Allowed

Default Priority: 0

Default Persistence: Not Persistent

Scope: Queue Manager

Remote Queue Name: XML\_IN

Remote Queue Manager Name: QM\_shannodw

Transmission Queue Name: TO\_SPIDERMAN

Buttons: OK, Cancel, Apply, Help

# Remote Queues

The screenshot shows the WebSphere MQ console interface. A table lists several queues, with 'TO\_SPIDERMAN' highlighted. A 'TO\_SPIDERMAN Properties' dialog box is open, showing the following configuration:

Name	Queue Type	Cluster Name	Cluster Namelist	Hosting Queue Manager	Cluster Queue Type	Current Depth
ADF_IN	Local					0
ADF_OUT	Local					0
EDI_IN	Local					0
EDI_OUT	Local					0
SPIDERMAN	Local					0
TO_SPIDERMAN	Local					0
WDI.FAILURE.Q	Local					0
WDI.INIT.Q	Local					0
XML_IN	Local					0
XML_OUT	Local					0

**TO\_SPIDERMAN Properties**

General | Extended | Cluster | Triggering | Events | Storage | Statistics

Queue Name: TO\_SPIDERMAN

Type: Local

Description: WebSphere MQ Default Local Que

Put Messages: Allowed

Get Messages: Allowed

Default Priority: 0

Default Persistence: Not Persistent

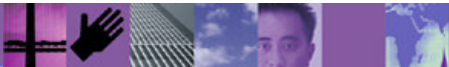
Scope: Queue Manager

Usage: Transmission

Buttons: OK, Cancel, Apply, Help

## WDI Client Profiles

- MQ Series Profile
- Service Profile
- Mailbox Profile
- Network Profile





# WDI Client Profiles

## ■ MQSeries Queue Profiles

- The MQSeries Queue profile associates a logical name with a physical WebSphere MQ message queue.

## ■ Installed WDI Client

- ADF\_IN - Application data queue for WDI translation
- EDI\_IN - EDI data queue for WDI translation
- XML\_IN - XML data queue for WDI translation
- ADF\_OUT - Application data queue from WDI translation
- EDI\_OUT - EDI data queue from WDI translation
- XML\_OUT - XML data queue from WDI translation Service Profile



# WDI Client Profiles

WebSphere Data Interchange for Multiplatforms V3.2 - WDI Server 3.2 (Setup) - Query: All

File Actions View Window Help

System  
WDI Server 3.2

WDI Server 3.2 (Setup) - Query: All

T Envelope Profiles | U Envelope Profiles | X Envelope Profiles | Continuous Receive | Application Defaults | User Exits | CICS Performance | Activity Log | Language Profiles  
Mailboxes | Network Profiles | Network Commands | Network Security | **MQSeries Queues** | Service Profiles | MCD Profiles | E Envelope Profiles | I Envelope Profiles

	Queue Profile Name	Description	Queue Name	Queue Manager Name	Lock	Updated Date and Time	Updated User ID
1	ADF_IN	ADF Input queue	ADF_IN		No	8/16/2004 1:43:44 PM	awinters
2	ADF_OUT	ADF Output queu	ADF_OUT		No	8/16/2004 1:43:45 PM	awinters
3	CYCL2WDI	From Cyclone to	CYCL2WDI		No	8/16/2004 1:43:45 PM	awinters
4	DIEDIIN		DIEDIIN	ef3d.queue.manager	No	8/16/2004 1:43:45 PM	awinters
5	EDL_IN	EDI input queue	EDL_IN		No	8/16/2004 1:43:45 PM	awinters
6	EDL_OUT	EDI Output queue	EDL_OUT		No	8/16/2004 1:43:46 PM	awinters
7	ISFT2WDI	From iSoft to WDI	ISFT2WDI		No	8/16/2004 1:43:46 PM	awinters
8	TPI2WDI	From TPI to WDI	TPI2WDI		No	8/16/2004 1:43:46 PM	awinters
9	WDI2CYCL	From Cyclone to	WDI2CYCL		No	8/16/2004 1:43:47 PM	awinters
10	WDI2ISFT	From iSoft to WDI	WDI2ISFT		No	8/16/2004 1:43:47 PM	awinters
11	WDI2TPI	From WDI to TPI	WDI2TPI		No	8/16/2004 1:43:47 PM	awinters
12	WDI2WMQI	From Cyclone to	WDI2WMQI		No	8/16/2004 1:43:48 PM	awinters
13	WMQI2WDI	From Cyclone to	WMQI2WDI		No	8/16/2004 1:43:48 PM	awinters

Open Setup Function Area

start

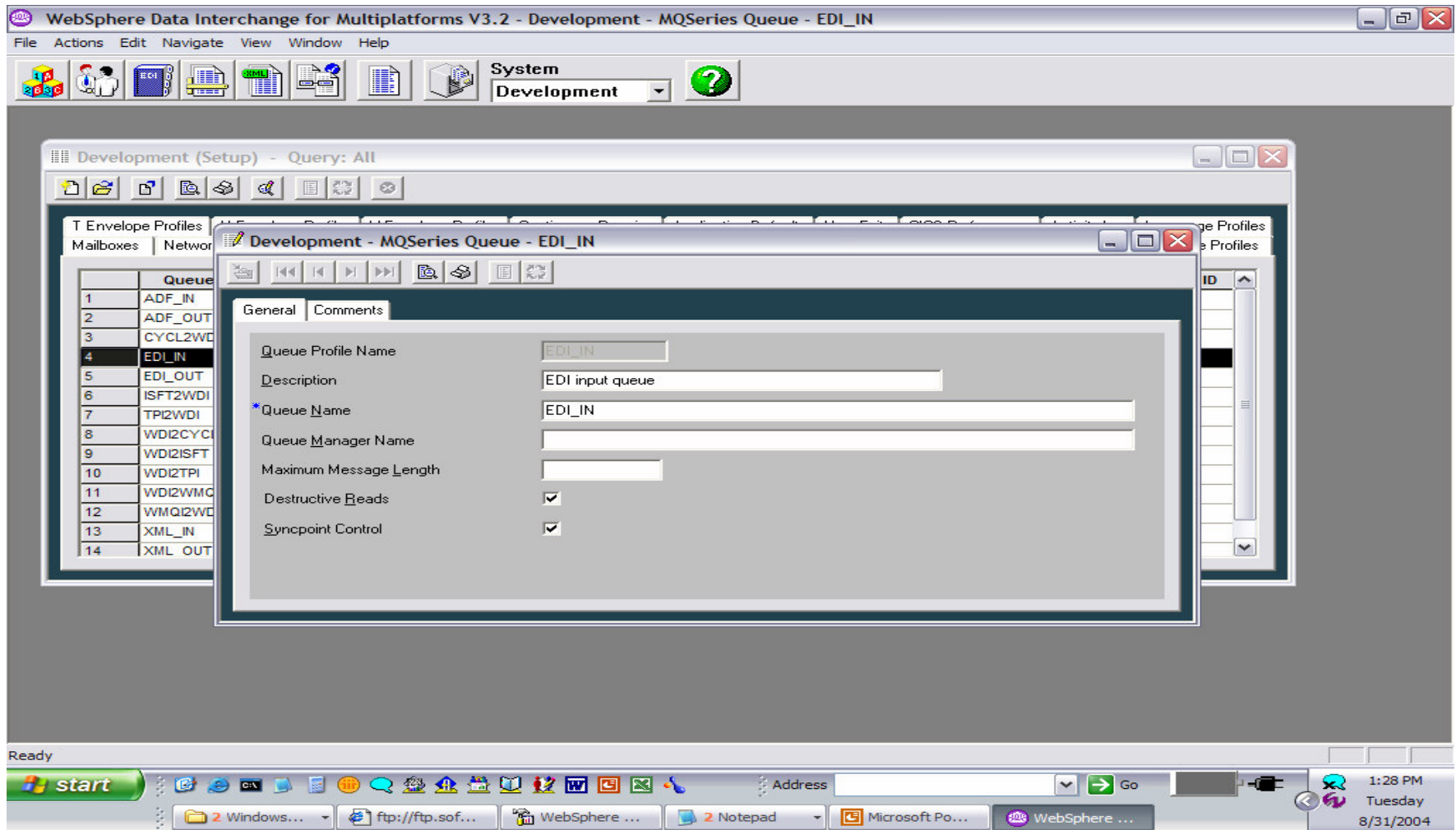
Address

37:05 - AT&T N... | 2 Windows Ex... | Microsoft Power... | ftp://ftp.softwa... | WebSphere Dat...

You have a message from Logitech

1:54 PM  
Monday  
8/30/2004

# WDI Client Profiles



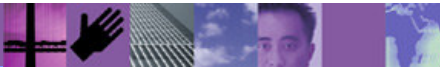
# WDI Client Profiles

- Service Profiles

- 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.

- Installed WDI Client

ADF\_IN  
EDI\_IN  
XML\_IN  
ADF\_OUT  
EDI\_OUT  
XML\_OUT



# WDI Client Profiles

WebSphere Data Interchange for Multiplatforms V3.2 - WDI Server 3.2 (Setup) - Query: All

File Actions View Window Help

System  
WDI Server 3.2

WDI Server 3.2 (Setup) - Query: All

T Envelope Profiles | U Envelope Profiles | X Envelope Profiles | Continuous Receive | Application Defaults | User Exits | CICS Performance | Activity Log | Language Profiles  
Mailboxes | Network Profiles | Network Commands | Network Security | MQSeries Queues | **Service Profiles** | MCD Profiles | E Envelope Profiles | I Envelope Profiles

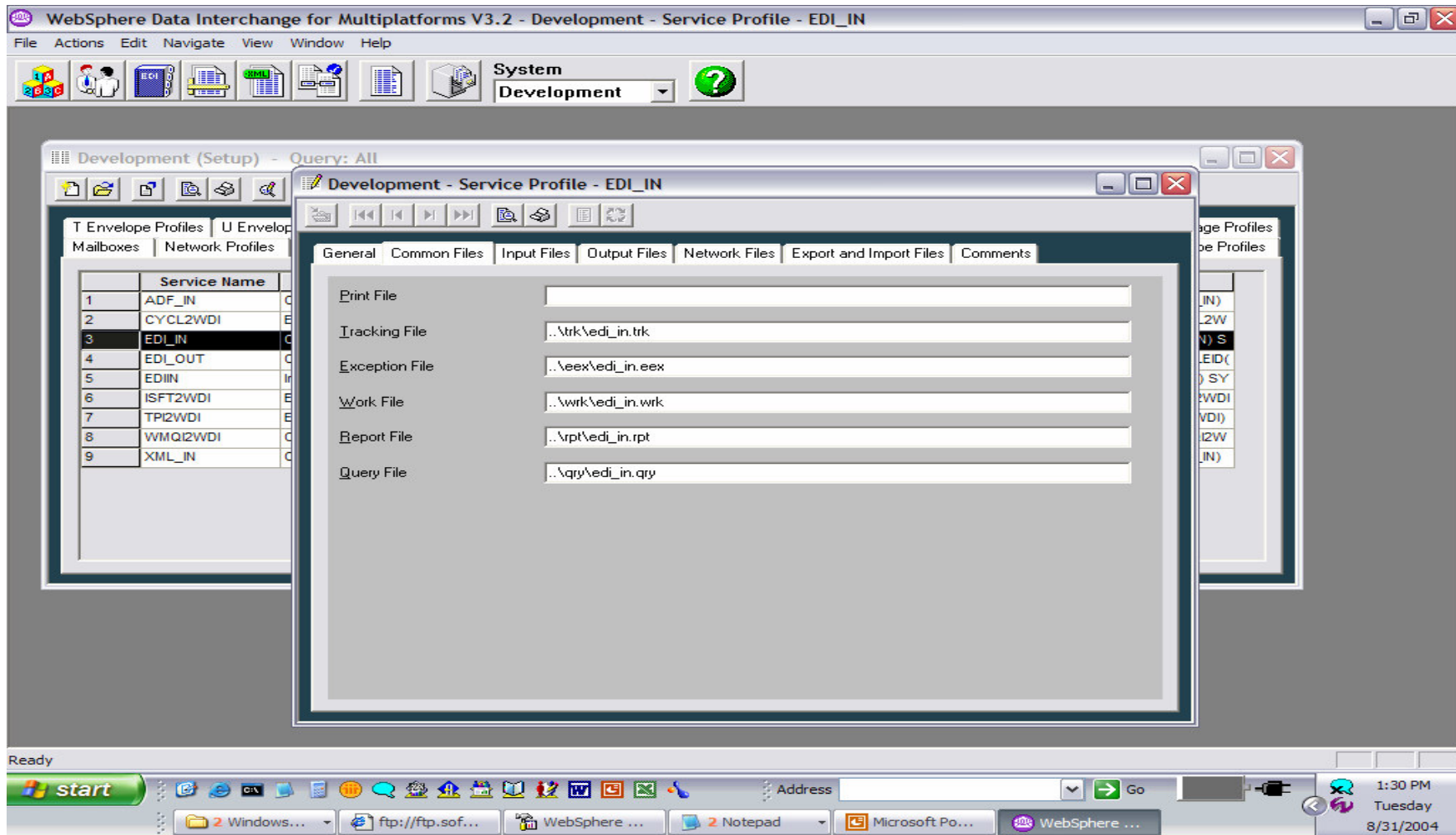
	Service Name	Description	Lock	Updated Date and Time	Update	PERFORM Command
1	ADF_IN	Command for input ADF data	No	8/16/2004 1:43:41 PM	awinter	PERFORM TRANSFORM WHERE INFILE(ADF_IN)
2	CYCL2WDI	EDI messages from Cyclone	No	8/16/2004 1:43:41 PM	awinter	PERFORM TRANSFORM WHERE INFILE(CYCL2W
3	DIEDIIN	X12-EDI for WDI Translation	No	8/16/2004 1:43:41 PM	awinter	PERFORM TRANSFORM WHERE INFILE(DIEDIIN) R
4	DIEDIOUT	X12-EDI out to Trading Partner	No	8/16/2004 1:43:42 PM	awinter	PERFORM SEND WHERE REQID(DIEDIOUT) FILEID(
5	DIXMLOUT	XML for WBI	No	8/16/2004 1:43:42 PM	awinter	PERFORM SEND WHERE REQID(DIXMLOUT) FILEI
6	EDI_IN	Command for input EDI data	No	8/16/2004 1:43:42 PM	awinter	PERFORM SENDFILE WHERE FILEID(EDI_IN) REQI
7	EDI_OUT	Command for output EDI	No	8/16/2004 1:43:42 PM	awinter	PERFORM SEND WHERE REQID(EDI_OUT) FILEID(
8	EXCPT_1	Command for input EDI data	No	8/16/2004 1:43:42 PM	awinter	PERFORM TRANSFORM WHERE SYNTAX(X) INF
9	EXCPT_2	Command for input EDI data	No	8/16/2004 1:43:42 PM	awinter	PERFORM TRANSFORM WHERE SYNTAX(X) INF
10	ISFT2WDI	EDI messages from iSoft	No	8/16/2004 1:43:43 PM	awinter	PERFORM TRANSFORM WHERE INFILE(ISFT2WDI
11	TP12WDI	EDI messages from TPI	No	8/16/2004 1:43:43 PM	awinter	PERFORM TRANSFORM WHERE INFILE(TP12WDI)
12	UNTDI_T	Command for input EDI data	No	8/16/2004 1:43:43 PM	awinter	PERFORM TRANSFORM WHERE SYNTAX(D) INF
13	WMQ12WDI	Command for input XML data	No	8/16/2004 1:43:43 PM	awinter	PERFORM TRANSFORM WHERE INFILE(WMQ12W
14	XML_IN	Command for input XML data	No	8/16/2004 1:43:44 PM	awinter	PERFORM TRANSFORM WHERE INFILE(XML_IN)

Ready

start Address Go 2:39 PM Monday 8/30/2004

1:21:32 - A... Window... Microsoft P... ftp://ftp.so... WebSphere... WebSphere...

# WDI Client Profiles



# WDI Client Profiles

WebSphere Data Interchange for Multiplatforms V3.2 - Development - Service Profile - EDI\_IN

File Actions Edit Navigate View Window Help

System Development

Development (Setup) - Query: All

Development - Service Profile - EDI\_IN

General Common Files Input Files Output Files Network Files Export and Import Files Comments

Service Name (filename) EDI\_IN

Continue Command Chaining

- Success
- Failure
- Always

Description Command for input EDI data

PERFORM Command

```
PERFORM TRANSFORM WHERE INFILE(EDI_IN) SYNTAX(E) FUNACKFILE(EDI_OUT)
```

Service Name	...
1	ADF_IN
2	CYCL2WDI
3	EDI_IN
4	EDL_OUT
5	EDIIN
6	ISFT2WDI
7	TP12WDI
8	WMQ12WDI
9	XML_IN

Ready

start Address Go 1:29 PM Tuesday 8/31/2004

Windows... ftp://ftp.sof... WebSphere ... Notepad Microsoft Po... WebSphere ...

# WDI Client Profiles

The screenshot shows the WebSphere Data Interchange for Multiplatforms V3.2 - Development - Service Profile - EDI\_IN interface. The main window displays a list of service profiles, with 'EDI\_IN' selected. A secondary window displays the configuration for 'EDI\_IN' with columns for 'Name in Command' and 'System File Name'.

Service Name	Name in Command	System File Name
1 ADF_IN	ADF_IN	..\adf\adf_in.txt
2 CYCL2WDI	ADF_OUT	..\adf\adf_out.txt
3 EDI_IN	EDI_OUT	..\edi\edi_out.txt
4 EDL_OUT	XML_IN	..\xml\xml_in.txt
5 EDIIN	XML_OUT	..\xml\xml_out.txt
6 ISFT2WDI		
7 TPI2WDI		
8 WMIQ2WDI		
9 XML_IN		



# WDI Client Profiles

## ■ Mailbox Profile

- 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.

## ■ Installed Client

ADF\_IN

EDI\_IN

XML\_IN

ADF\_OUT

EDI\_OUT

XML\_OUT



# WDI Client Profiles

WebSphere Data Interchange for Multiplatforms V3.2 - WDI Server 3.2 (Setup) - Query: All

File Actions View Window Help

System  
WDI Server 3.2

WDI Server 3.2 (Setup) - Query: All

T Envelope Profiles | U Envelope Profiles | X Envelope Profiles | Continuous Receive | Application Defaults | User Exits | CICS Performance | Activity Log | Language Profiles  
Mailboxes | Network Profiles | Network Commands | Network Security | MQSeries Queues | Service Profiles | MCD Profiles | E Envelope Profiles | I Envelope Profiles

	Mailbox Name	Description	Network Profile	Account	User ID	Lock	Updated Date and Time	Updated User ID
1	ADF_IN	Mailbox for input	ADF			No	10/10/2002 12:00:00 PM	Admin
2	ADF_OUT	Mailbox for output	ADF	IBM1	DD5TST1RE	No	10/10/2002 12:00:00 PM	Admin
3	CYCL2WDI	Receive msgs fro	CYCLONE			No	10/10/2002 12:00:00 PM	Admin
4	EDI_IN	Mailbox for input E	EDI			No	10/10/2002 12:00:00 PM	Admin
5	EDI_OUT	Mailbox for output	EDI	IBM1	DD5TST1RE	No	10/10/2002 12:00:00 PM	Admin
6	ISFT2WDI	Receive msgs fro	ISOFT			No	10/10/2002 12:00:00 PM	Admin
7	TPI2WDI	Receive msgs fro	TPI			No	10/10/2002 12:00:00 PM	Admin
8	WDI2CYCL	Send msgs to Cyc	CYCLONE			No	10/10/2002 12:00:00 PM	Admin
9	WDI2ISFT	Send msgs to ISF	ISOFT			No	10/10/2002 12:00:00 PM	Admin
10	WDI2TPI	Send msgs to TPI	TPI			No	10/10/2002 12:00:00 PM	Admin
11	WDI2WMQI	Send msgs to W	WMQI			No	10/10/2002 12:00:00 PM	Admin
12	WMQI2WDI	Receive msgs fro	WMQI			No	10/10/2002 12:00:00 PM	Admin
13	XML_IN	Mailbox for input	XML	IBM1	DD5TST1RE	No	10/10/2002 12:00:00 PM	Admin
14	XML_OUT	Mailbox for output	XML	IBM1	DD5TST1RE	No	10/10/2002 12:00:00 PM	Admin

Ready

start | Address | Go | 10:50 AM Tuesday 8/31/2004

Win... | ftp://ftp... | WebSph... | wdi\_mq... | Microsof... | WebSph... | WebSph...

# WDI Client Profiles

WebSphere Data Interchange for Multiplatforms V3.2 - Development - Mailbox - EDI\_IN

File Actions Edit Navigate View Window Help

System Development

Development (Setup) Development - Mailbox - EDI\_IN

Mailbox Name

Mailbox Name	
1	ADF_IN
2	ADF_OUT
3	CYCL2WDI
4	EDI_IN
5	EDI_OUT
6	ISFT2WDI
7	TPI2WDI
8	WDI2CYCL
9	WDI2ISFT
10	WDI2TPI
11	WDI2WMQI
12	WMQI2WDI
13	XML_IN
14	XML_OUT

General Comments

Mailbox Name: EDI\_IN Description: Mailbox for input EDI data

Network Profile: EDI Message User Class: MQSERIES

Account: User ID:

Receive File: EDI\_IN Password:

Acknowledgments: Retention Period: 999

Storage Format: Format Override:

EDI Option: Y EDI Processing Override:

Network Message Class: Destination Verification:

Charges: Priority:

Compression: Alternate Dial Number:

Commands File: Data Timeout:

Remote Status Program:

Ready

start Address Go 1:31 PM Tuesday 8/31/2004

Windows... ftp://ftp.sof... WebSphere ... Notepad Microsoft Po... WebSphere ...

# WDI Client Profiles

## ■ Network Profile

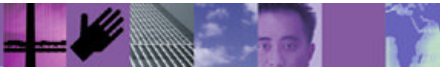
- A Network profile is used to define the characteristics of a network you use for communications with trading partners. It provides options and parameters used when communicating with the network. A Network profile may also be used to identify the MQSeries Queue profiles used when sending or receiving documents from a trading partner.

## ■ Installed Client

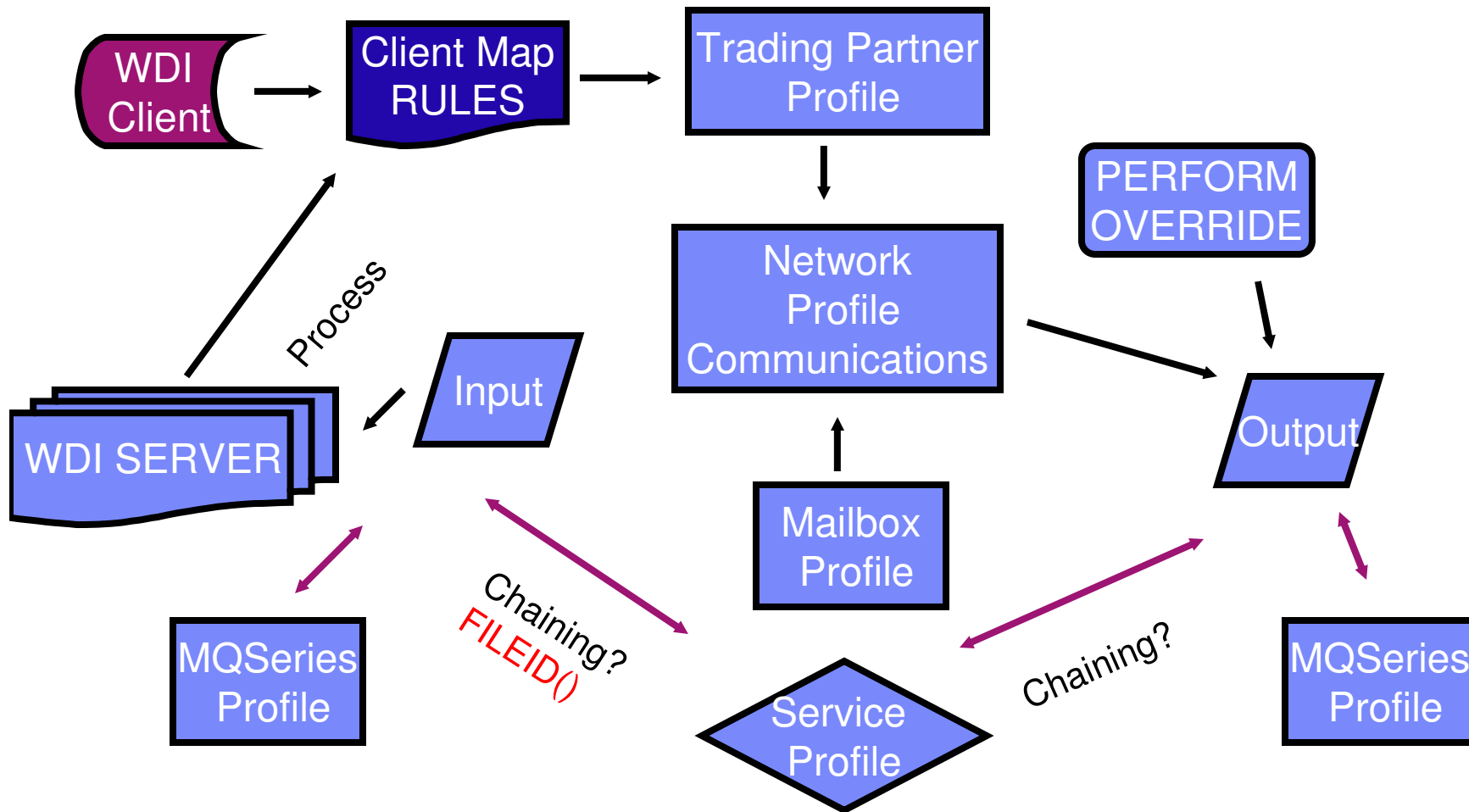
ADF

EDI

XML



# WDI Client Profiles Relationships - Outbound



# WDI Client Profiles

WebSphere Data Interchange for Multiplatforms V3.2 - WDI Server 3.2 (Setup) - Query: All

File Actions View Window Help

System  
WDI Server 3.2

WDI Server 3.2 (Setup) - Query: All

T Envelope Profiles U Envelope Profiles X Envelope Profiles Continuous Receive Application Defaults User Exits CICS Performance Activity Log Language Profiles  
Mailboxes Network Profiles Network Commands Network Security MQSeries Queues Service Profiles MCD Profiles E Envelope Profiles I Envelope Profiles

	Network ID	Description	Network Name	Communication Routine	Lock	Updated Date and Time	Updated User ID
1	ADF	Network program	MQSeries	VANIMQ	No	10/10/2002 12:00:00 PM	Admin
2	CYCLONE	Network program	MQSeries	VANIMQ	No	10/10/2002 12:00:00 PM	Admin
3	EDI	Network program	MQSeries	VANIMQ	No	10/10/2002 12:00:00 PM	Admin
4	GEIS		GE Information Syst	GEISVAN	No	10/10/2002 12:00:00 PM	Admin
5	IINAX		IBM Information Net	VANIINB1	No	10/10/2002 12:00:00 PM	Admin
6	IINB41		IBM Information Net	VANIINB1	No	10/10/2002 12:00:00 PM	Admin
7	IINB42		IBM Information Net	VANIINB1	No	10/10/2002 12:00:00 PM	Admin
8	IINCICS		IBM Information Net	VANIINFC	No	10/10/2002 12:00:00 PM	Admin
9	IINWIN		IBM Information Net	VANIINB1	No	10/10/2002 12:00:00 PM	Admin
10	ISOFT	Network program	WMQ w/WDI prope	VANIMQ	No	10/10/2002 12:00:00 PM	Admin
11	MQSAMP	Sample MQSeries	MQSeries	VANIMQ	No	10/10/2002 12:00:00 PM	Admin
12	TPI	Network program	WMQ w/TPI propert	VANIMQ	No	10/10/2002 12:00:00 PM	Admin
13	WMQI	Network program	WMQ w/RFH2	VANIMQ	No	10/10/2002 12:00:00 PM	Admin
14	XML	Network program	MQSeries	VANIMQ	No	10/10/2002 12:00:00 PM	Admin

Ready

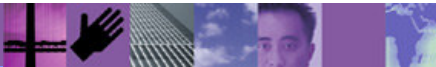
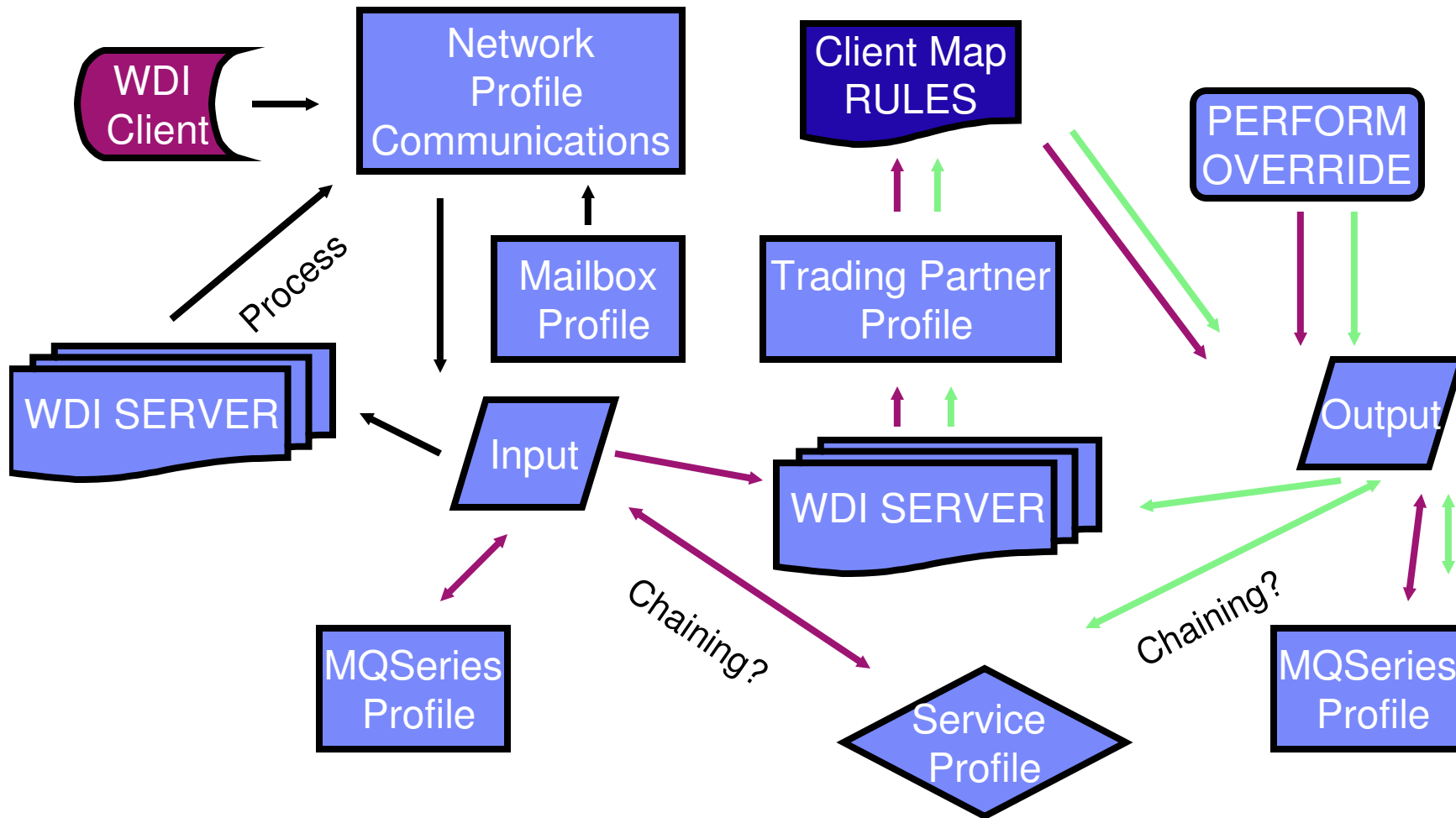
start

Address

Go

10:57 AM  
Tuesday  
8/31/2004

# WDI Client Profiles Relationships - Inbound



# WMQ and WDI

The screenshot shows the WebSphere MQ console interface. A table lists several queues, and a dialog box titled 'EDI\_IN Properties' is open, showing configuration details for the EDI\_IN queue.

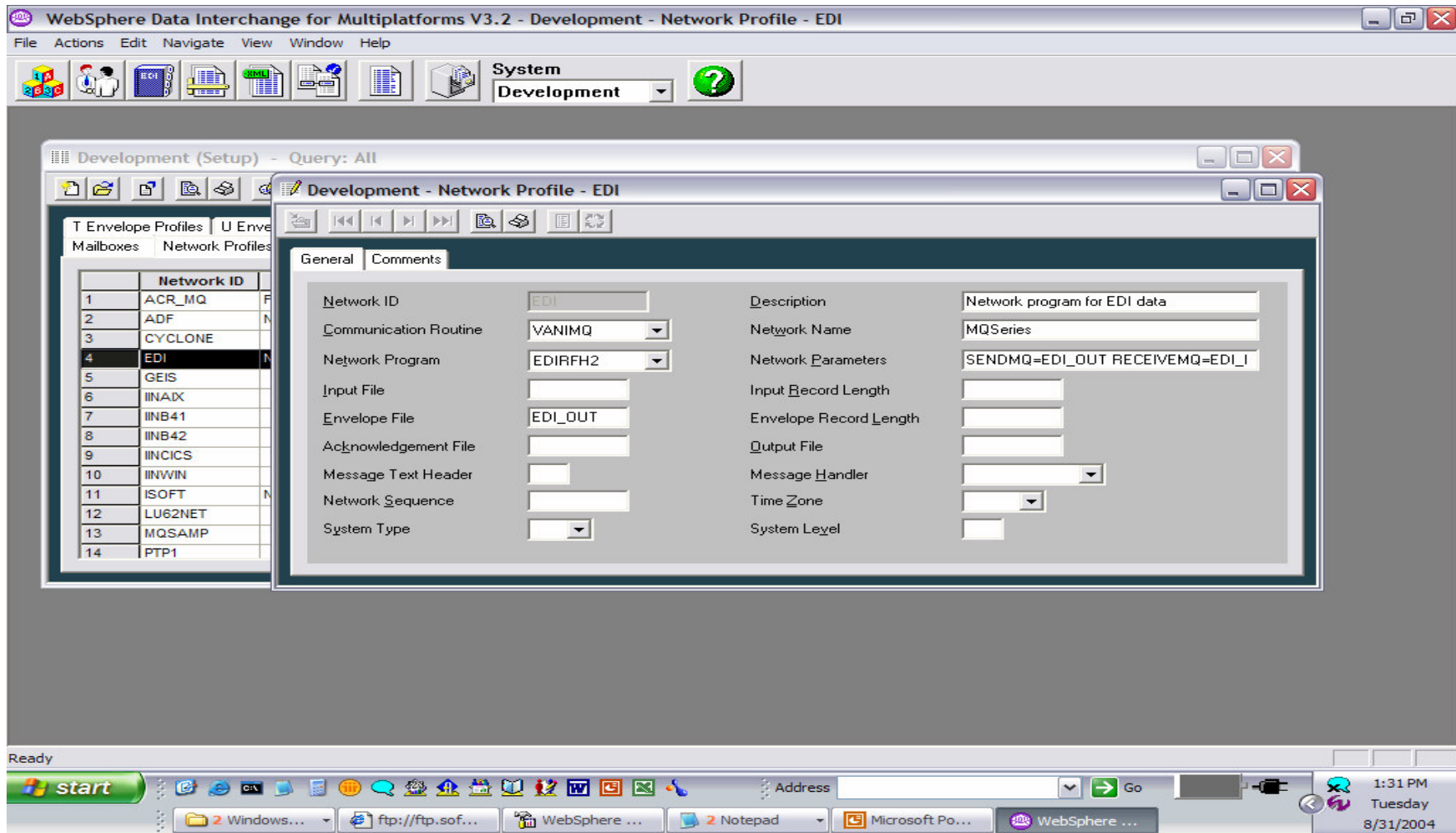
Name	Queue Type	Cluster Name	Cluster Namelist	Hosting Queue Manager	Cluster Queue Type	Current Depth
ADF_IN	Local					0
ADF_OUT	Local					0
EDI_IN						0
EDI_OUT						0
SPIDERMAN						0
TO_SPIDERMAN						0
WDI.FAILURE.Q						0
WDI.INIT.Q						0
XML_IN						0
XML_OUT						0

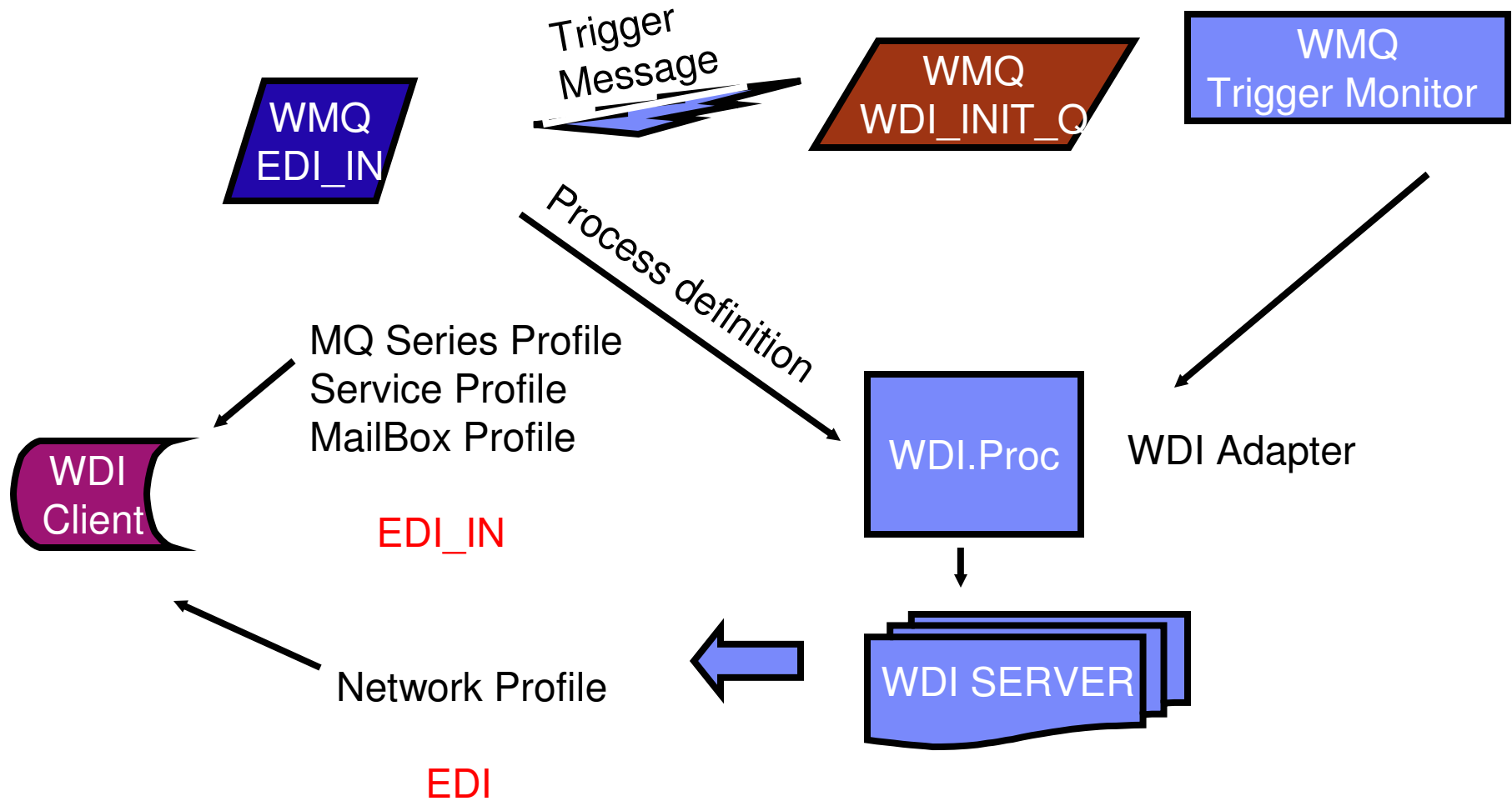
Property	Value
Trigger Control:	On
Trigger Type:	First
Trigger Depth:	1
Trigger Message Priority:	0
Trigger Data:	
Initiation Queue Name:	WDI.INIT.Q
Process Name:	WDI.PROC



# WDI Client Profiles

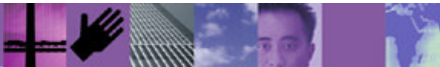


# WMQ and WDI

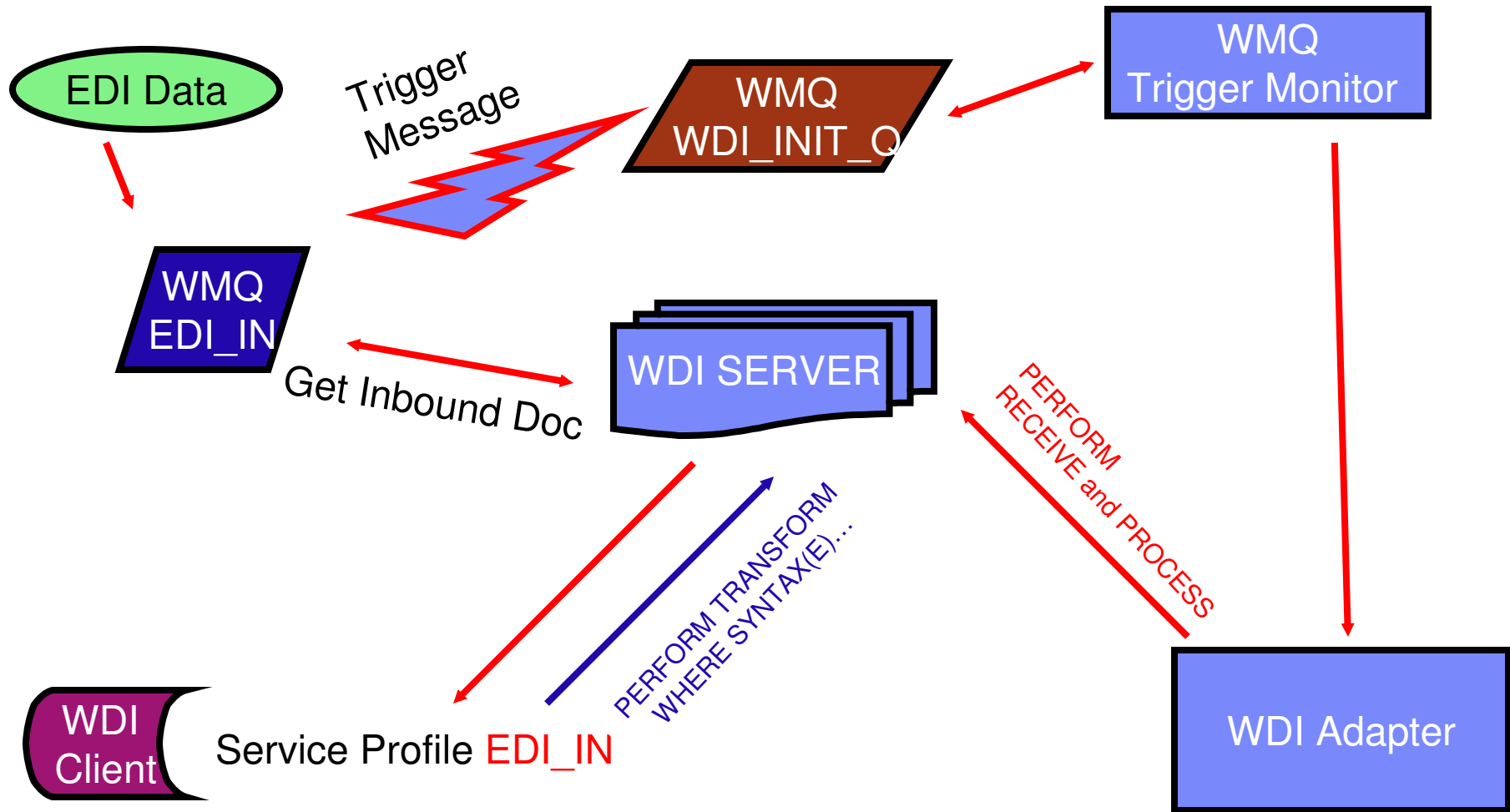


# WMQ Trigger Monitor

- If the Trigger Monitor is to execute on an AIX system then the Set-User-ID Mode needs to be disabled for the MQSeries program runmqtrm. Do the following steps:
  - Logon with root authority
  - `chmod -s /usr/mqm/bin/runmqtrm`
  
- To start the trigger monitor:
  - Change the current directory to the WDI bin directory.
  - run the following from the command prompt
  - `runmqtrm -q WDI.INIT.Q`
  
- if the default queue manager is not used then the queue manager name must be provided
  - `runmqtrm -m qmgrname -q WDI.INIT.Q`

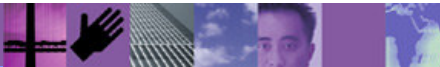


# WMQ and WDI

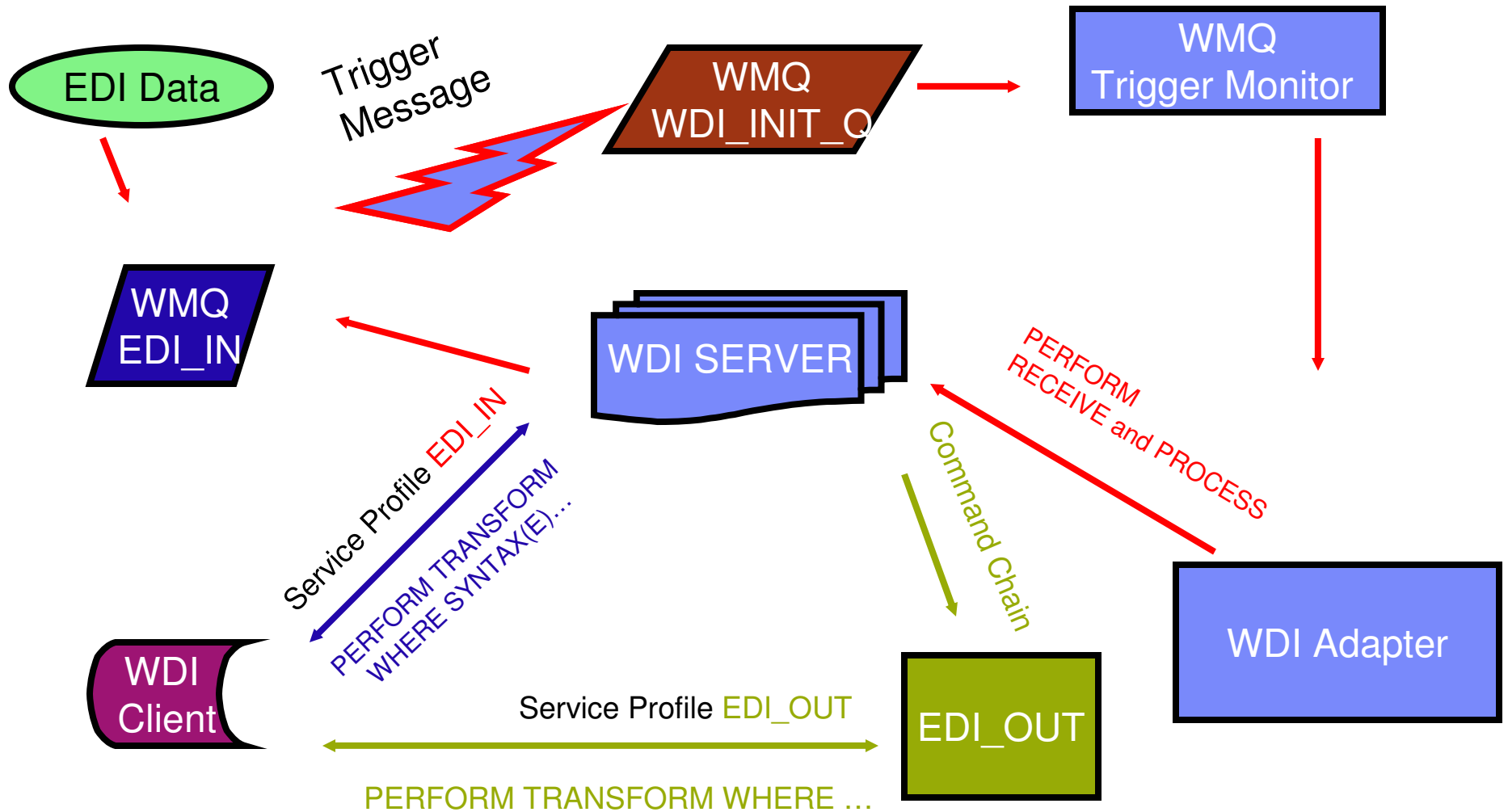


## Command Chaining

- With command chaining you can cause a double translation to occur by routing the output from the first translation to a file with the same name as a Service profile. When the output file in the first translation is closed, a Service profile with the same name as the file is located. The PERFORM command in the Service profile is executed causing the second translation. The output file from first translation is used as input to the second translation.

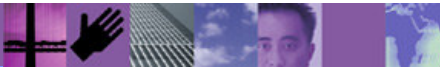


# WMQ and WDI



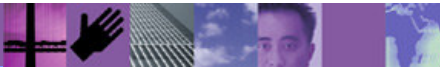
## WDI Client - MCD Profile

- In addition to WebSphere Data Interchange's normal support for WebSphere MQ message queues, WebSphere Data Interchange can exchange documents with applications via WebSphere MQ message queues or JMS when the message containing the document is prefixed with the MQRFH2 header. Some applications, such as WBI Message Broker (WBI MB) and WBI Server (CrossWorlds), use these mechanisms to exchange documents with WebSphere Data Interchange. The MQRFH2 header contains a 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 will occur in an MCD profile along with the corresponding values from the Message Content Descriptor of the MQRFH2 header.



## WDI Client - MCD Profile

- Outbound - 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 MCD profile NOTFOUND domain = 'wdi' dictionary, document = from 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.
- WMQ user folder may also be accessed: For example: add element COMMAND and use substitution on Service Profile &COMMAND.





# WDI Client - MCD Profile

WebSphere Data Interchange for Multiplatforms V3.2 - Development - MCD Profile - mrm 123456789012 XML\_PO xml

File Actions Edit Navigate View Window Help

System Development

Development (Setup) - Query: All

	Description	Domain	
1	X12 850 P.O. for WDI to W	mrm	0
2	POXML5SR for MRM to WD	mrm	1

Development - MCD Profile - mrm 123456789012 XML\_PO xml

General Comments

Description: POXML5SR for MRM to WDI

MCD Folder Values in the MQRFH2 Header:

Domain: mrm

Set: 123456789012

Type: XML\_PO

Format: xml

Equivalent WebSphere Data Interchange Document Definition:

\*Syntax: XML

\*Dictionary Name: TESTS

\*Name: POXML5SR

Ready

start Address Go 11:27 AM Wednesday 9/1/2004

# WDI Client - MCD Profile

The screenshot displays the 'WebSphere Data Interchange for Multiplatforms V3.2 - Development - Network Profile - EDIMCD' application. The main window shows a list of network profiles with the following details:

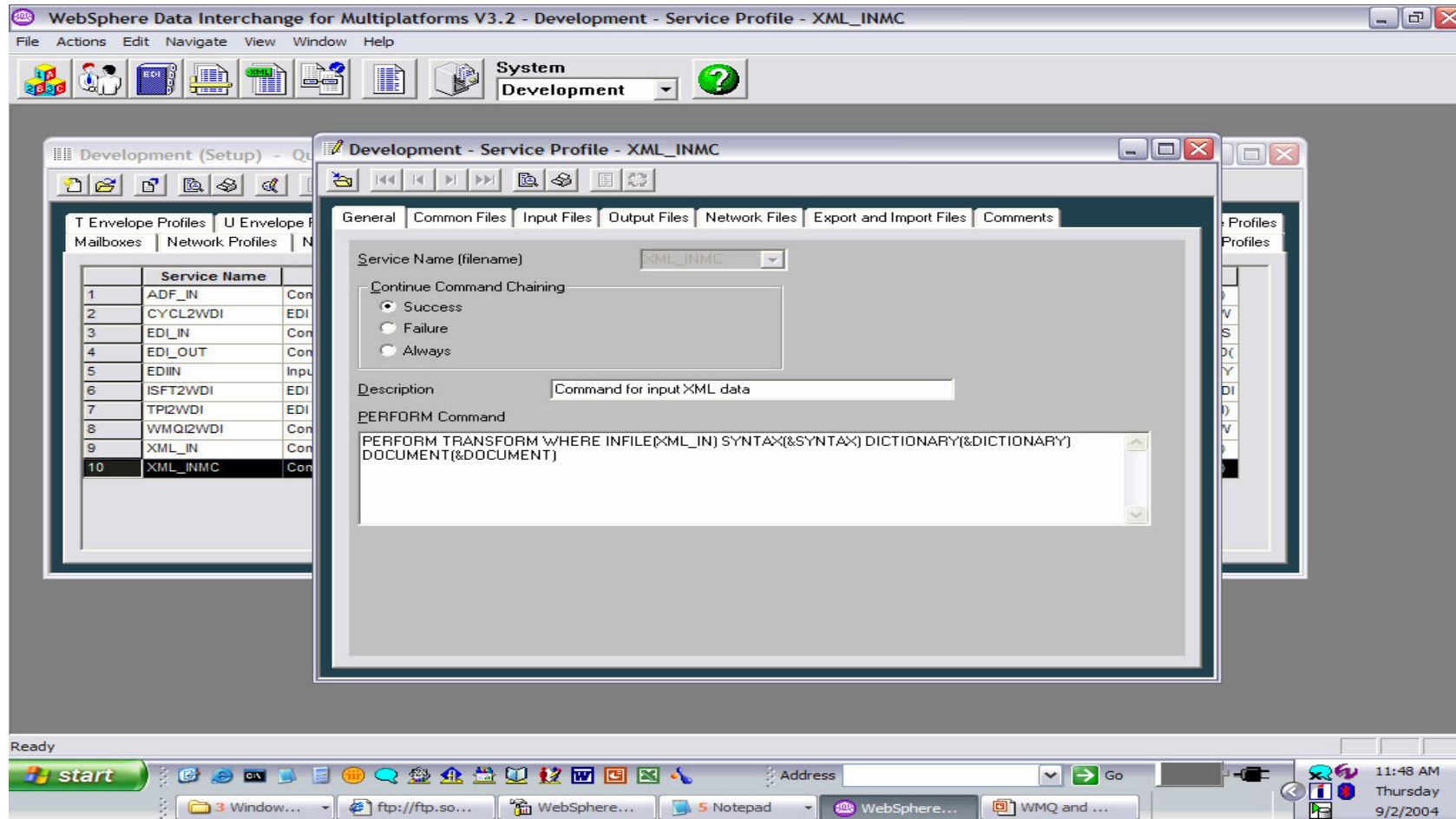
Network ID	Description	Network Name	Communication Routine	Lock	Updated Date and Time	Updated User ID
9	IINCICS					
10	IINWIN					
11	ISOFT					
12	LU62NET					
13	MQSAMP					
14	PTP1					
15	RAW					
16	S820CBV2					
17	TPI					
18	WMQI					
19	XML					
20	XML_OUT					
21	EDIMCD					

The foreground window, 'Development - Network Profile - EDIMCD', shows the configuration for the selected profile:

- Network ID:** EDIMCD
- Description:** Network program for EDI data
- Communication Routine:** VANIMQ
- Network Name:** MQSeries
- Network Program:** EDIRFH2
- Network Parameters:** SENDMQ=EDI\_OUT RECEIVEMQ=EDI\_I
- Input File:** DSXMIT2, EDIBTCH, EDICYCL, EDIMQSR, EDIRFH2
- Input Record Length:** [Empty]
- Envelope File:** [Empty]
- Envelope Record Length:** [Empty]
- Output File:** [Empty]
- Message Handler:** [Empty]
- Time Zone:** [Empty]
- System Level:** [Empty]

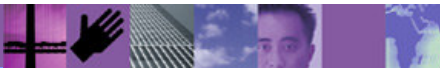
The Windows taskbar at the bottom shows the system time as 11:42 AM on Thursday, 9/2/2004, and several open applications including WebSphere and Notepad.

# WDI Client - MCD Profile

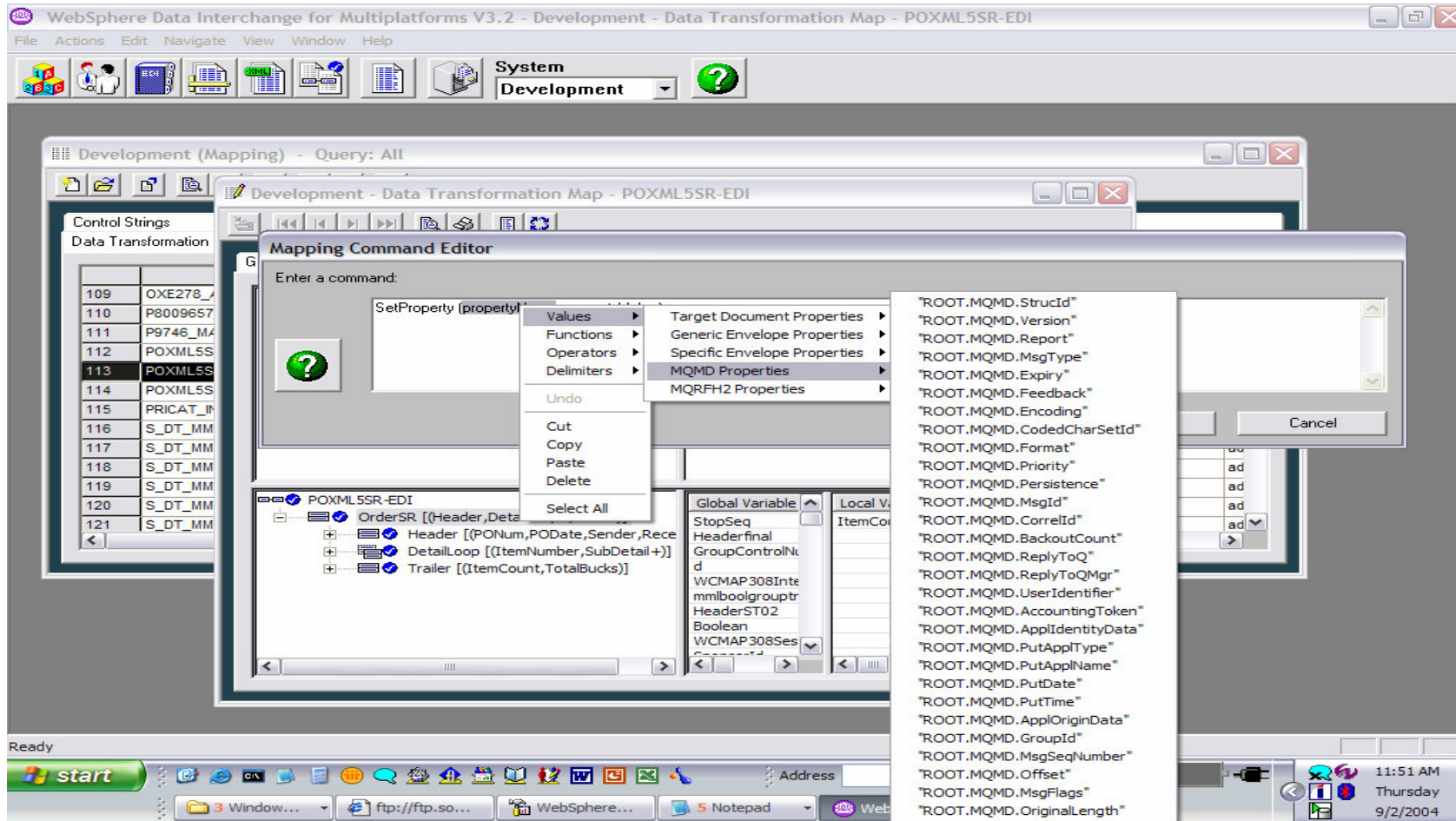


## WDI Client - MCD Profile

- 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.



# WDI Client - MCD Profile



# WDI Client - MCD Profile

