

IBM Software Group

2004 WDI / WBIC Customer Conference Global Business Transformation

WebSphere. software

WebSphere Data Interchange

WMQ Integration

David Shannon and Lee Whitaker





Welcome and Introductions

David Shannon

- Joined the WDI Team 2001
- Started with IBM at the AIX Support Center
- Introduced the WDIServer Program

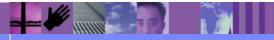




Welcome and Introductions

Lee Whitaker

- Joined WebSphere Data Interchange in 2001
- > IBM certified WMQ Specialist





Critical Definitions

Relative Humidity Palmetto Bug Hurricane Season



Global Business Transformation



Objectives

- Become familiar with the following topics
 - WMQ Setup
 - WMQ Related WDI Profiles
 - Using WDI to Read and Write to WMQ
 - Command Chaining
 - > WDIAdapter and WDIServer Programs



Global Business Transformation



MQSeries Setup

- Define WebSphere MQ
- Define WebSphere MQ Objects
- Demonstrate WebSphere MQ Tools

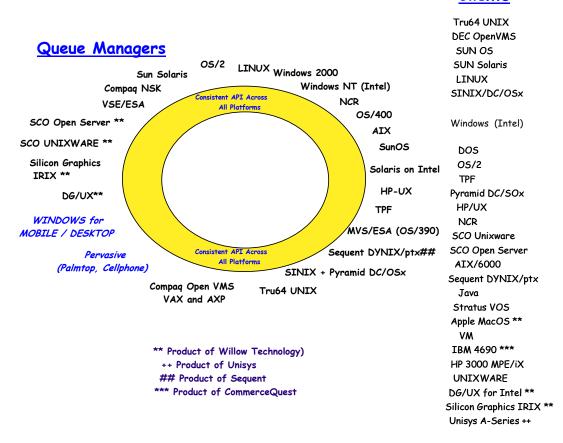


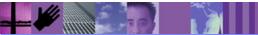


Global Business Transformation



WebSphere MQ: A Platform Integrator





Global Business Transformation

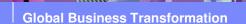
IBM Software Group | WebSphere software

WebSphere MQ: An Application Integrator

- Loosely coupling between applications
- A single, multi-platform API (> 40 platforms)
- Exactly-once, assured delivery
- Network integration across SNA, TCP/IP, SPX, NetBios

Queue

- Transactional control
- Content independence
- Single record 100 MB files



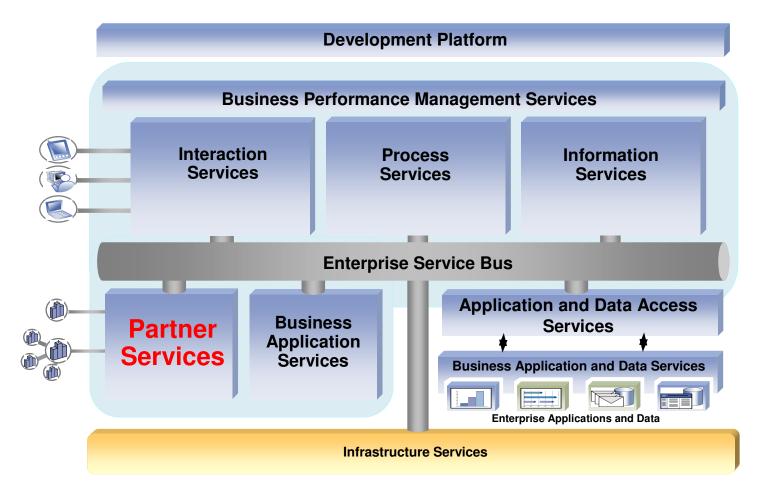
B

Queue



Business Integration Reference Architecture

IBM Software Offerings





Global Business Transformation



WebSphere MQ Objects and Definitions

- Message
- Queue Manager
- Queues
 - Local Queue
 - Remote Queue
 - Transmission Queue
- Channel
- Process Definition
- Trigger Monitors





Message

- In message queuing applications, a communication sent between programs. (WMQ Programmer Guide)
- In EDIFACT: an ordered series of characters intended to convey information. [ISO 2382/16] UN/EDIFACT: a set of segments in the order specified in a message directory starting with the message header and ending with the message trailer. [ISO 9735] Equivalent to a transaction set.

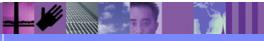
(http://www.unece.org/trade/untdid/texts/d300_d.htm)



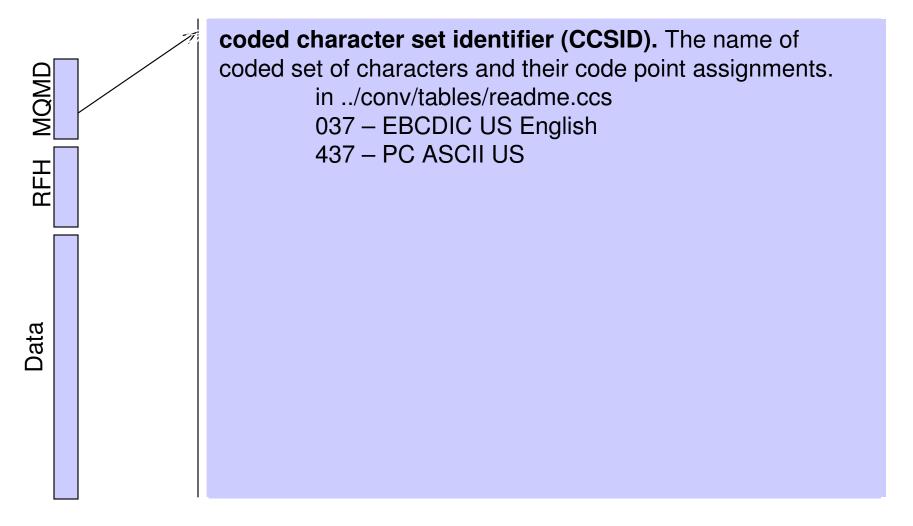


Message: MQ

- A message descriptor (MQMD)
- Optional WMQ headers
 - RFH2 the Rules and Format Header
- Optional data payload



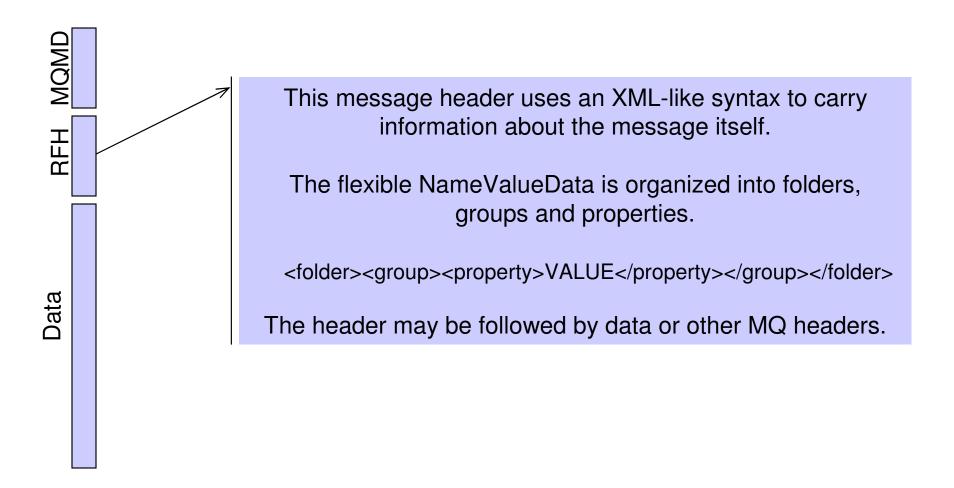






Global Business Transformation

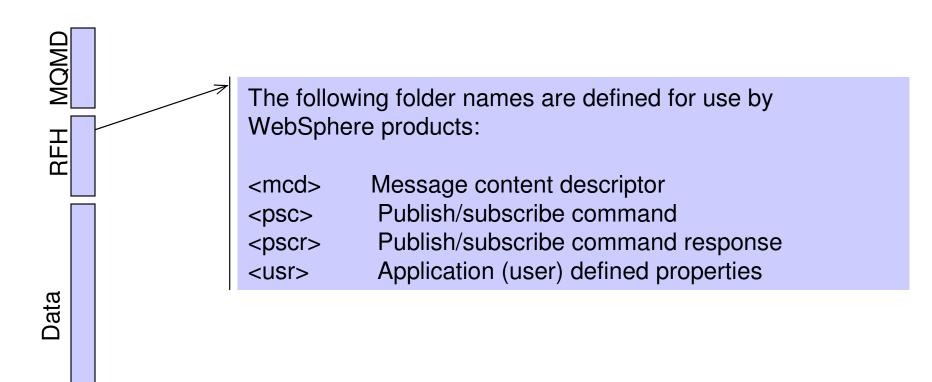






Global Business Transformation

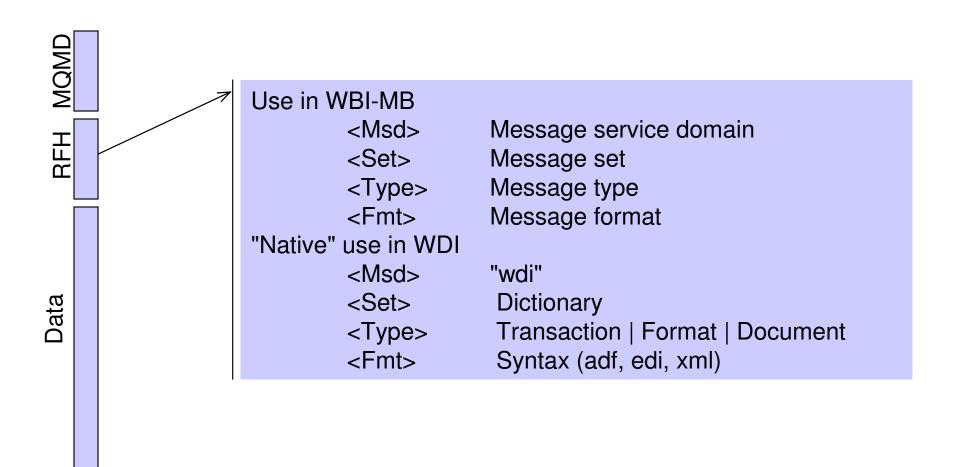






Global Business Transformation







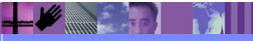
Global Business Transformation



The Queue Manager

Application Program Interface

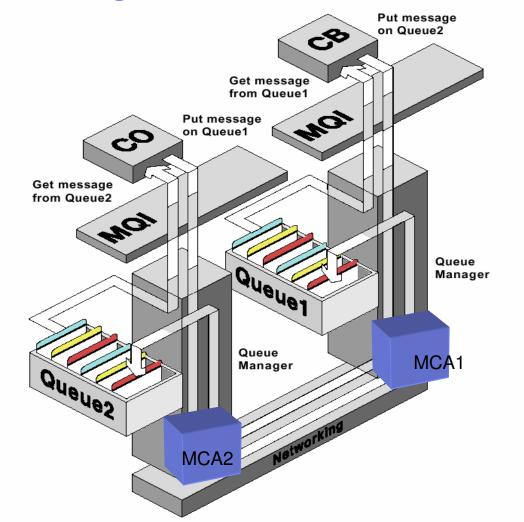
- Message Queuing Interface MQI (C/C++)
- > JMS (Java)
- Logical Queues in Physical Storage
- Message Channel Agents
- Administrative Tools

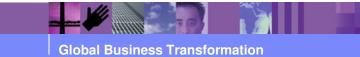


Global Business Transformation



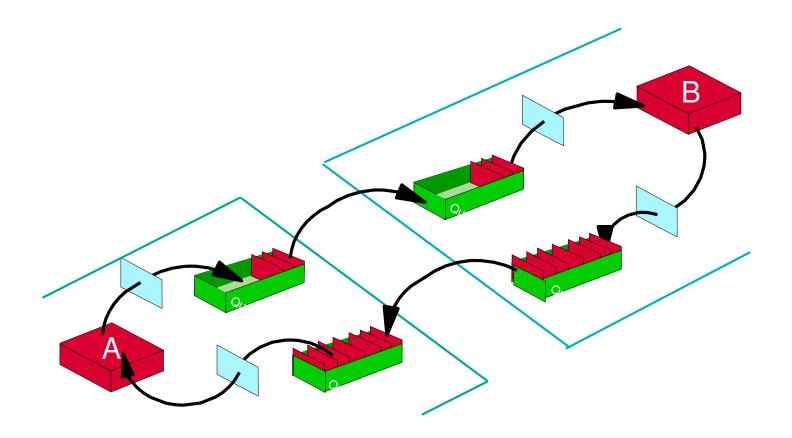
The Queue Manager







What are Queues?





Global Business Transformation



A Queue Defines a Place to Put a Message.

- Queues can be defined as local or remote.
 - Local queues are defined on a local queue manager. Programs can put messages onto or get messages off of a local queue.
 - Remote queues point to queues not on the local queue manager. Programs can only put messages onto a remote queue.



Global Business Transformation



Transmission Queues

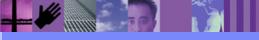
- Transmission queues are used by channels
 - Can store messages when a remote connection is not available.
 - \succ Must be defined prior to creating a channel.
 - > Can be used to trigger the start of a channel





Defining a Channel

- Channel: a mechanism for moving messages from one queue manager to another.
 - Receiver Message Channel Agent
 - Sender Message Channel Agent
 - Communication Link (TCP/IP, SNA, etc.)
 - Transmission Queue



Global Business Transformation



Channels and Triggering

Triggering

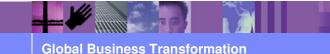
A way to cause the queue manager to start an application automatically when predetermined conditions on a queue are satisfied.

Trigger Event

An event (such as a message arriving on a queue) that causes a queue manager to create a trigger message on an initiation queue.

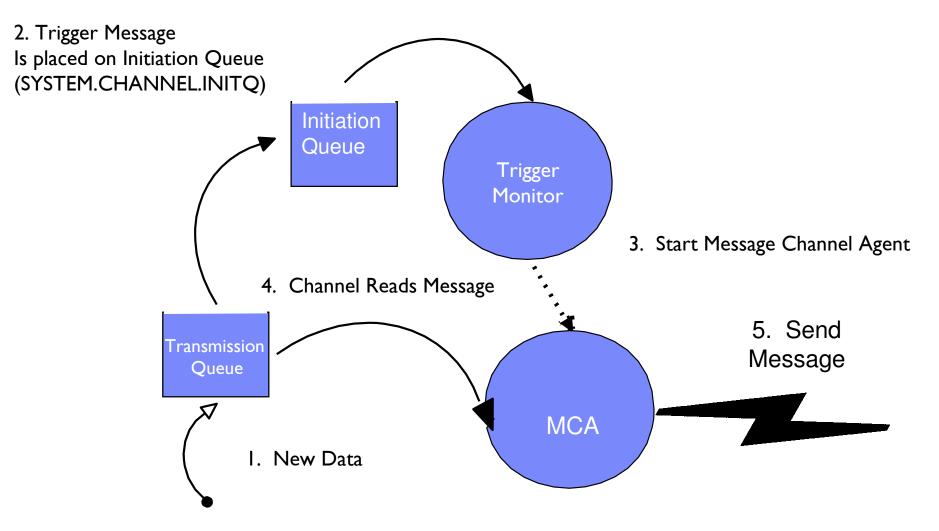
Trigger Message

A message containing information about the program that a trigger monitor is to start.





Channel: Triggering the Message Channel Agent (MCA)

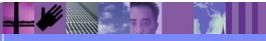






Process definition

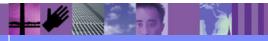
- A WebSphere MQ object that contains the definition of a WebSphere MQ application.
 - Application Name
 - > Arguments for that application





Trigger Monitor

 Application designed to monitor a local queue for trigger messages and take some type of action based upon that trigger message





Initiation Queue

 The local queue that a trigger monitor will monitor. This is where trigger messages will be placed when the queue monitor detects a trigger event on a queue.

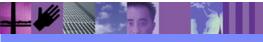




WebSphere MQ Administrative Tools

- WebSphere MQ Explorer
- WebSphere MQ Command Line
 - *runmqsc* for Open Systems
 - csqutil for z/OS
- z/OS Administration







WebSphere MQ Explorer

- Provides graphical interface to queue manager
- Can administer local or remote queue managers
- Manages WMQ Objects
 - Queues
 - Channels
 - Process Definitions
 - Client Connections
 - Name Lists
 - Authentication Information
 - Cluster Queue Managers





WebSphere MQ Explorer Main Window

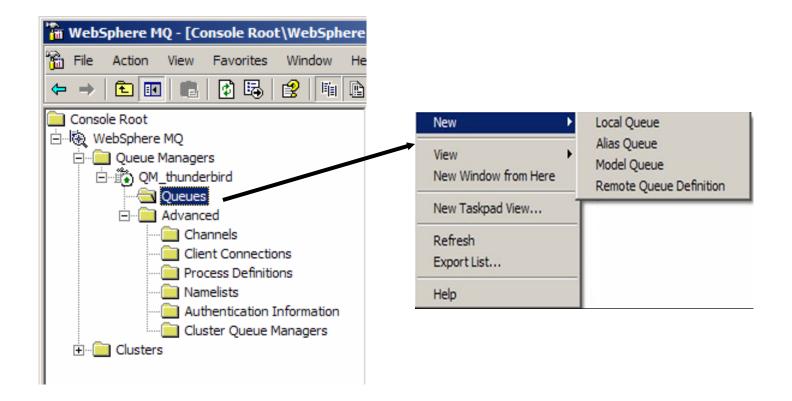
🚡 WebSphere MQ - [Console Root\WebSphere MQ\Queue Managers\QM_thunderbird\Queues]					
🚡 File Action View Favorites Window He	File Action View Favorites Window Help				_ & ×
Console Root	Name	Queue Type	Cluster Name	Cluster Namelist	Hosting Qu
🗄 🙀 WebSphere MQ	🗐 default	Local			
	Distrard	Local			
Queues					
Channels					
Client Connections					
Process Definitions					
Namelists					
Authentication Information					
Cluster Queue Managers					
i					
	•				•



Global Business Transformation



WebSphere MQ Explorer Navigation Panel





Global Business Transformation

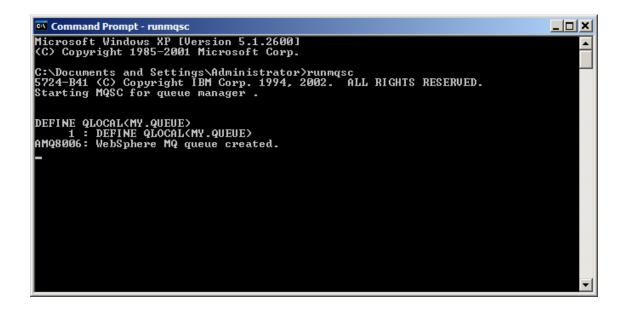


WebSphere MQ Command Line

Command line interface is provided by the runmqsc command.

>Can be used interactively

Can be used in batch mode





Global Business Transformation



WebSphere Data Interchange Sample Script

*****	***************************************	***/
* Program name: Ad	dvAdapterMQ.txt	*/
*	-	*/
* Description: but	ilds MQ queues for the WDI Default Installation	*/
*		*/
* Use: Use this i	file as standard input for 'runmqsc'.	*/
*		*/
* runmo	gsc QMgr < AdvAdapterMQ.txt	*/
*		*/
* If the default o	queue manager is used the QMgr parameter is not	*/
* needed.	1	*/
	ome directory for the WDIAdapter, alter the	*/
-	the PROCESS definition.	*/
*		*/
*****	*******	***/
DEFINE PROCESS('W	DI.TRANSLATOR.PROC') REPLACE +	,
	oSphere Data Interchange Adapter') +	
APPLTYPE (I		
,	'NumThreads(1) Timeout(10000)')	
(
****	*******	***/
* Create the inn	out and output queues as local.	*/
*	put and output queues as rotar.	*/
* Input queues u	will cause a trigger message.	*/

	IAdapterCmd') REPLACE +	/
DELINE QUOCHE (ND.	DESCR('Command queue WDIServer') +	
	MAXMSGL(4194304) +	
	DEFPSIST(YES) +	
	BOTHRESH(0) +	
	SHARE +	
	GET (ENABLED) +	
	PUT (ENABLED)	
DEFINE QLOCAL ('WD:	I.PRTFILE.Q') REPLACE +	
	DESCR('Printfile data from WDIServer program') +
	MAXMSGL(4194304) +	
	DEFPSIST(YES) +	
	BOTHRESH(0) +	
	SHARE +	
	GET (ENABLED) +	
	PUT (ENABLED)	



Global Business Transformation



WebSphere MQ on z/OS

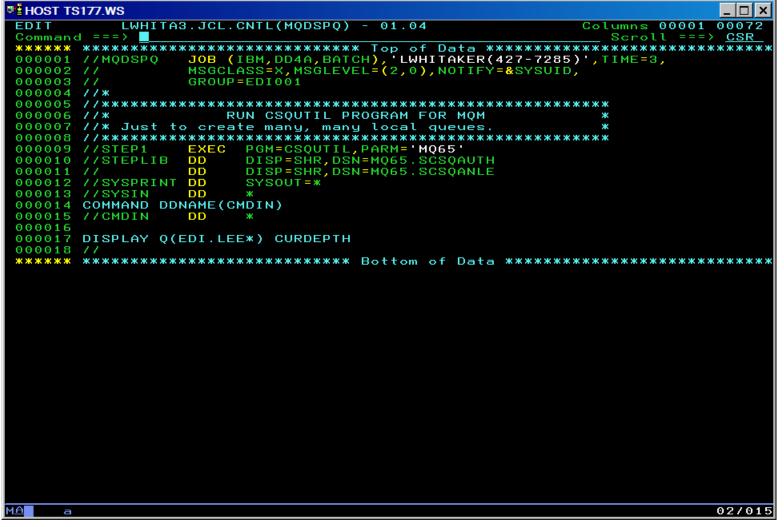
- Support for MQSC
- Operations Console

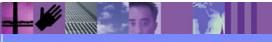






CSQUTIL with MQSC



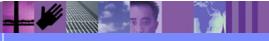


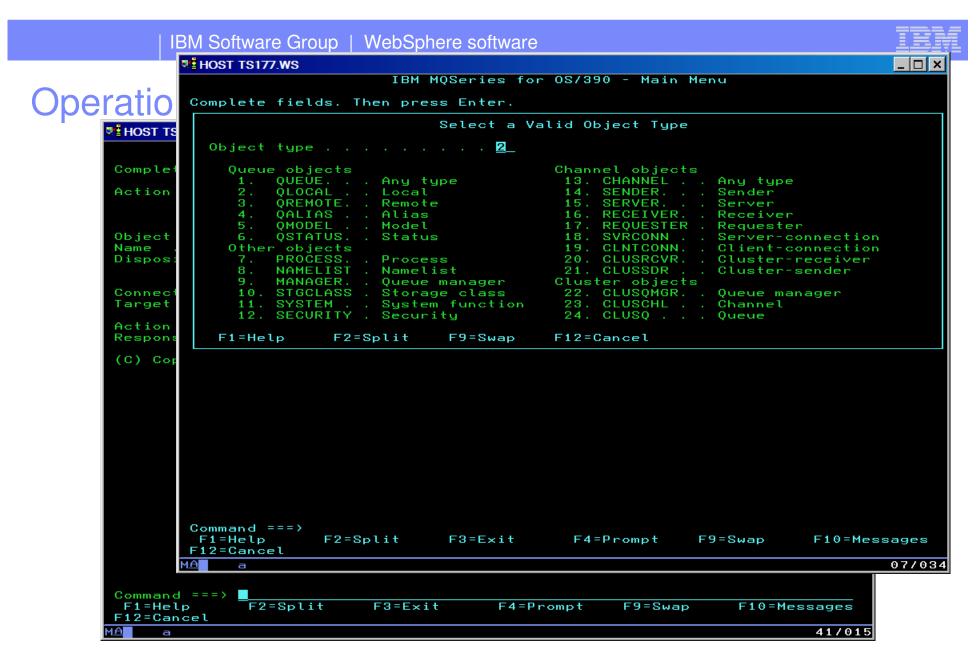
Global Business Transformation

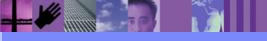


CSQUTIL with MQSC

HOST TS177.WS
<u>D</u> isplay <u>F</u> ilter <u>V</u> iew <u>P</u> rint <u>O</u> ptions <u>H</u> elp
SDSF OUTPUT DISPLAY MQDSPQ JOB03516 DSID 103 LINE 0 COLUMNS 02- 81 COMMAND INPUT ===> SCROLL ===> CSR ************************************
CSQU000I CSQUTIL IBM MQSeries for 0S/390 - V5.2 CSQU001I CSQUTIL Queue Manager Utility - 2004-09-01 13:32:52 COMMAND DDNAME(CMDIN)
CSQU127I CSQUTIL Executing COMMAND using input from CMDIN data set CSQU120I CSQUTIL Connecting to MQ65 CSQU121I CSQUTIL Connected to queue manager MQ65 CSQU055I CSQUTIL Target queue manager is MQ65
DISPLAY Q(EDI.LEE*) CURDEPTH CSQN205I COUNT= 4, RETURN=00000000, REASON=00000000 CSQM401I MQ65 QUEUE(EDI.LEEINPUT)
TYPE(QLOCAL) CURDEPTH(0) CSQM401I MQ65 QUEUE(EDI.LEEOUTPUT) TYPE(QLOCAL)
CURDÉPTH(0) CSQ9022I MQ65 CSQMDRTS ' DISPLAY QUEUE' NORMAL COMPLETION
CSQU057I CSQUCMDS 1 commands read CSQU058I CSQUCMDS 1 commands issued and responses received, 0 failed CSQU143I CSQUTIL 1 COMMAND statements attempted
CSQU144I CSQUTIL 1 COMMAND statements executed successfully CSQU148I CSQUTIL Utility completed, return code=0 ************************************
MA a 04/021







Global Business Transformation



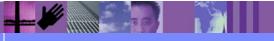
List Local Queues Row 1 of 1 Type action codes. Then press Enter. 1=Display 2=Define like 3=Alter 4=Manage Name Disposition Put Trig
1=Display 2=Define like 3=Alter 4=Manage Get Usage Name Disposition Put Trig
_SYSTEM. ADMIN. CHANNEL. EVENTQMGRMQ65YYNNF_SYSTEM. ADMIN. PERFM. EVENTQMGRMQ65YYNNF_SYSTEM. ADMIN. QMGR. EVENTQMGRMQ65YYNNF_SYSTEM. CHANNEL. COMMANDQMGRMQ65YYNNN_SYSTEM. CHANNEL. INITQQMGRMQ65YYNNN_SYSTEM. CHANNEL. REPLY. INFOQMGRMQ65YNNNN_SYSTEM. CHANNEL. SEQNOQMGRMQ65YNN </td



Global Business Transformation

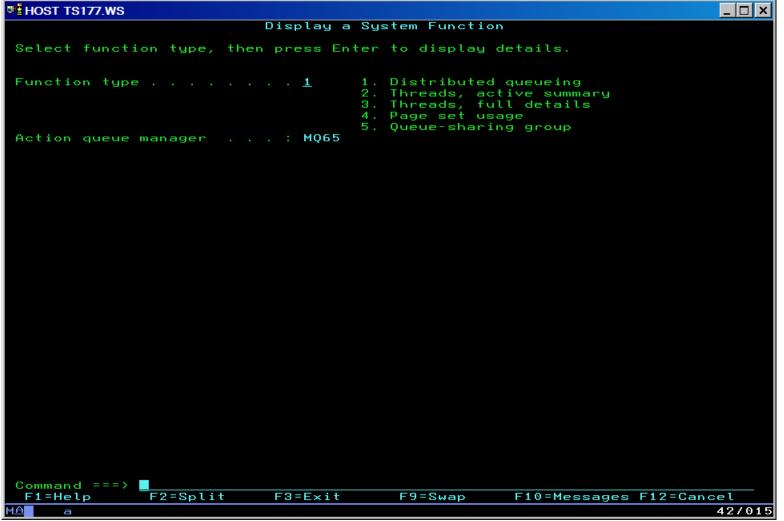


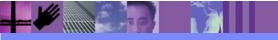
♥ HOST TS177.WS		_ 🗆 🗙
Display a Local Queue		
Press F8 to see further fields, or Enter to refresh details.		
Queue name	More:	+
Description System-command input queue Put enabled Y Y=Yes,N=No Get enabled Y Y=Yes,N=No Usage N N=Normal,X=XmitQ Storage class COMMANDS CF structure name :		
Creation method : PREDEFINED Output use count : 1 Input use count : 1 Current queue depth : 0		
Command ===> F1=Help F2=Split F3=Exit F6=Clusinfo F7=Bkwd F9=Swap F10=Messages F11=Appls F12=Cancel	F8=Fwc	4
MA A A		06/032



Global Business Transformation







Global Business Transformation



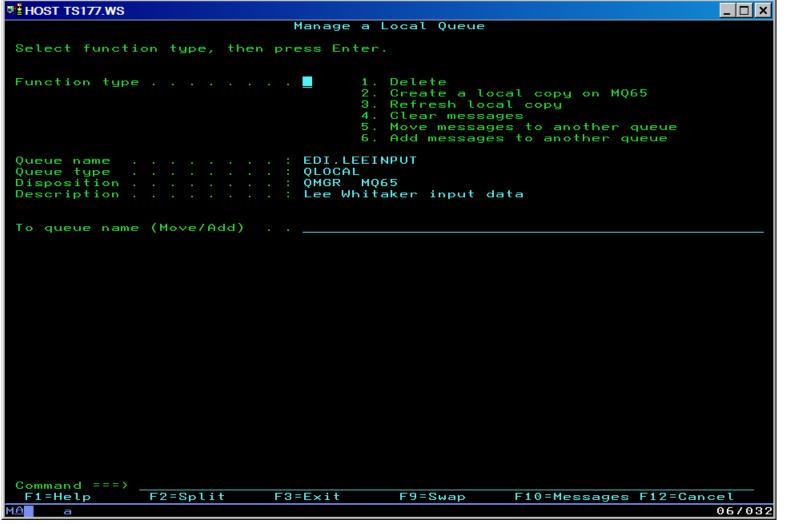
₽ [‡] HC	DST TS177.WS	_ 🗆 ×
	Display a System Function	
S	Display messages	Row 1 of 13
F	CSQX830I MQ65 CSQXRDQM Channel initiator active CSQX845I MQ65 CSQXRDQM TCP/IP system name is TCPIP CSQX846I MQ65 CSQXRDQM TCP/IP listener INDISP=QMGR started, for port 1665 address * CSQX847I MQ65 CSQXRDQM LU 6.2 listener INDISP=QMGR started, for LU name MQ65 CSQX831I MQ65 CSQXRDQM 8 adapter subtasks started, 8 requested	4
	CSQX8311 MQ65 CSQXRDQM 5 dispatchers started, 5 requested CSQX832I MQ65 CSQXRDQM 5 dispatchers started, 5 requested CSQX840I MQ65 CSQXRDQM 2 channel connections current, maximum CSQX841I MQ65 CSQXRDQM 0 channel connections active, maximum 2 CSQX842I MQ65 CSQXRDQM 0 channel connections starting, 2 stopped, 0 retrying CSQ9022I MQ65 CSQXCRPS ' DISPLAY DQM' NORMAL COMPLETION	200
	******** End of list *******	
	Command ===> F1=Help F2=Split F3=Exit F7=Bkwd F8=Fwd F F12=Cancel	F9=Swap
	nmand ===> L=Help F2=Split F3=Exit F9=Swap F10=Messages F a	F12=Cancel 37/015



Global Business Transformation



z/OS Operations Panel: manage local queue





Global Business Transformation



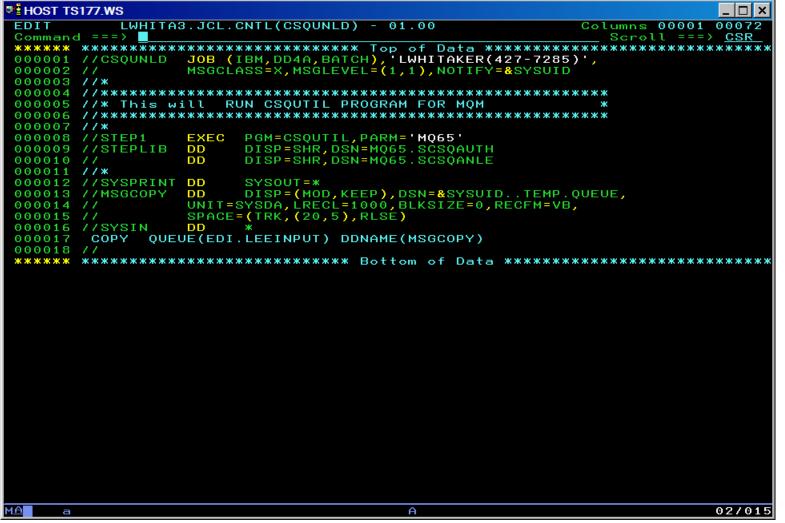
Command Interface Panel

♥≟HOST TS177.WS	
MQM MVS/ESA Command Interface	
COMMAND ===>	SCROLL ===> PAGE
Connect to MQM==> MQ65Wait-For ===> 0003SysCmd Queue==> SYSTEM.COMMAND.INPUTOn MQM==> MQ65MQM Command==> DIS QMGR ALL	Caps ===> ON
Command Results: ************************************	*****
	07/028

Global Business Transformation



CSQUTIL with COPY





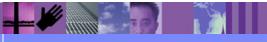
Global Business Transformation



CSQUTIL with COPY

HOST TS177.WS						
<u>D</u> isplay <u>F</u> ilter <u>V</u> iew <u>P</u> rint <u>O</u> ptions <u>H</u> elp						
SDSF OUTPUT DISPLAY CSQUNLD JOB03940 DSID 102 LINE 0 COLUMNS 02- 81 COMMAND INPUT ==> SCROLL ==> ************************************						
CSQU000I CSQUTIL IBM MQSeries for 0S/390 - V5.2						
CSQU001I CSQUTIL Queue Manager Utility - 2004-09-01 14:41:21 COPY _ QUEUE(EDI.LEEINPUT) DDNAME(MSGCOPY)						
CSQU128I CSQUTIL Executing COPY outputting to MSGCOPY data set						
CSQU130I CSQUTIL Copying queue EDI.LEEINPUT CSQU120I CSQUTIL Connecting to MQ65						
CSQU121I CSQUTIL Connected to queue manager MQ65 CSQU005I CSQUOFFQ COMMIT successfully completed						
CSQU131I CSQUTIL 52 messages copied successfully						
CSQU132I CSQUTIL 105 records written CSQU133I CSQUTIL 1 queues attempted						
CSQU134I CSQUTIL 1 queues copied successfully						
CSQU143I CSQUTIL 1 COPY statements attempted CSQU144I CSQUTIL 1 COPY statements executed successfully						
CSQU148I CSQUTIL Utility completed, return code=0						

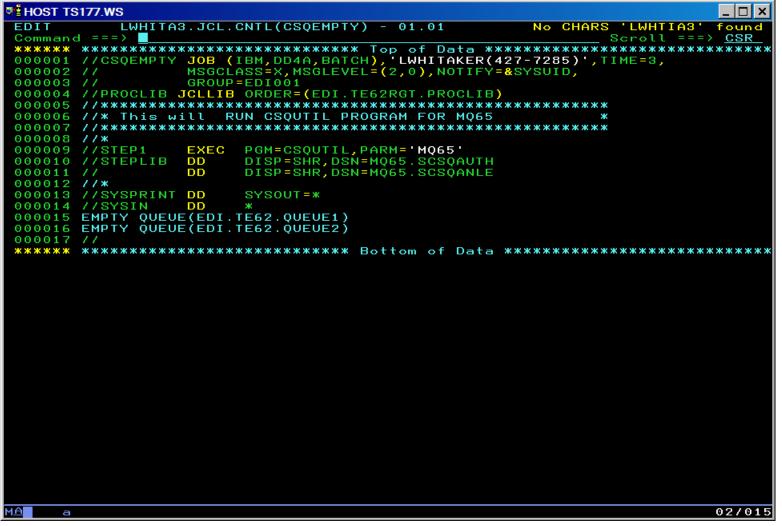
MA a 04/021						

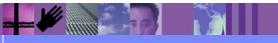


Global Business Transformation



CSQUTIL: empty a queue



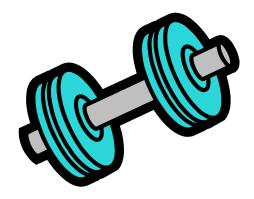


Global Business Transformation



WebSphere MQ Exercise

- What you will be able to do:
 - Create a remote queue definition
 - Create a transmission queue
 - Create a channel
 - Send a test message to the remote queue



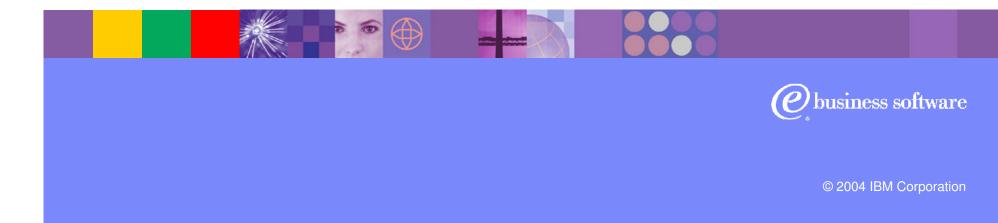




IBM Software Group

WDI Server

WebSphere. software





WDI Profiles for WMQ Integration

- Mailbox Profile
- Network Profile
- MQSeries Queue Profile

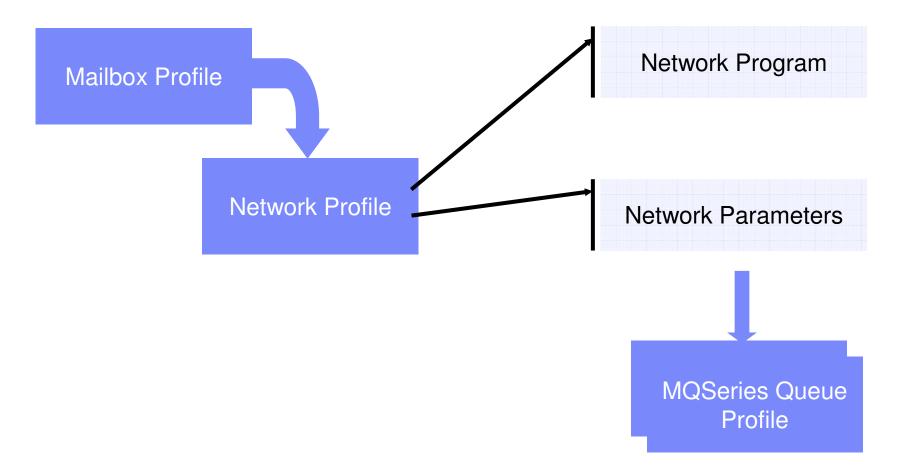




Global Business Transformation



WDI Profiles Overview



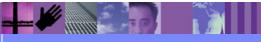


Global Business Transformation



Mailbox Profile

 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.

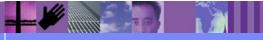


Global Business Transformation



Network Profile

 Network Profile defines 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.



Global Business Transformation



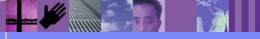
Network Programs

EDIMQS

- Simple MQ interface
- EDIRFH2
 - Includes RFH header support

EDICYCL

Sets special properties required by Cyclone



Global Business Transformation



Network Parameters

SENDMQ=PROF_NAME

RECEIVEMQ=PROF_NAME

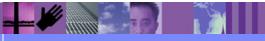
🗾 Thunderbird - Network Pro	ofile - EDI		
	\$ E 😳		
General Comments			
<u>N</u> etwork ID	EDI	<u>D</u> escription	Network program for EDI data
<u>Communication Routine</u>	VANIMQ	Net <u>w</u> ork Name	MQSeries
Network Program	EDIRFH2	Network <u>P</u> arameters	SENDMQ=EDI_OUT RECEIVEMQ=EDI_I
Input File		Input <u>R</u> ecord Length	
<u>E</u> nvelope File	EDI_OUT	Envelope Record <u>L</u> ength	
Ac <u>k</u> nowledgement File		<u>O</u> utput File	
Message Text Header		Message <u>H</u> andler	
Network <u>S</u> equence	00414	Time⊒one	•
System Type	•	System Le <u>v</u> el	





MQSeries Queue Profile

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

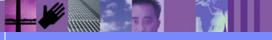


Global Business Transformation



Profiles Summary

- Defined Mailbox Profiles
- Defined Network Profiles
- Defined three WMQ related Network Programs
- Defined purpose of Network Parameters
- Defined the MQSeries Queue Profile



Global Business Transformation



WDI Reading from and Writing to WMQ Queues

- SEND/RECEIVE COMMANDS
- PERFORM TRANSFORM
- Using MQ File Type
- Exercise





Global Business Transformation



Perform Commands

SEND and RECEIVE

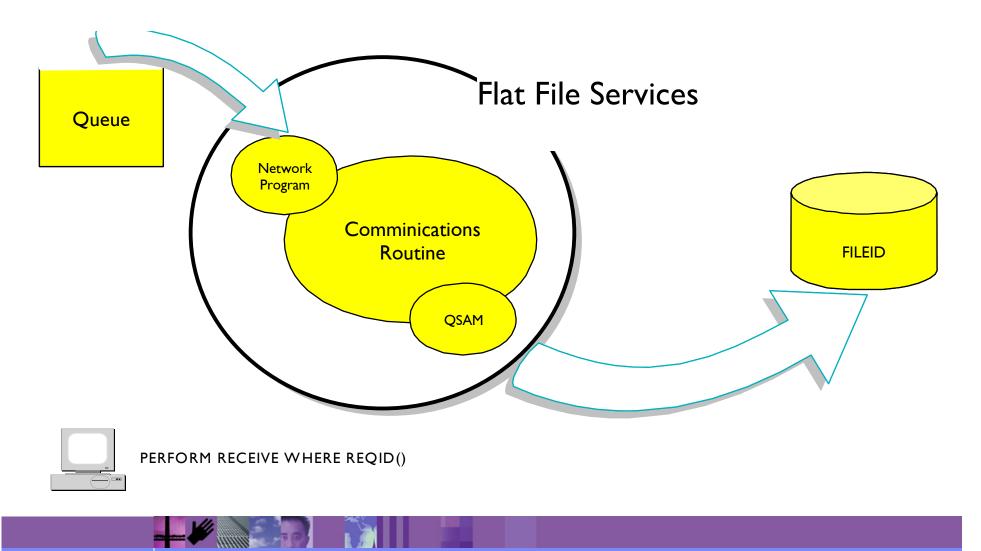
- SENDFILE and RECVFILE
- RECEIVE AND SEND



Global Business Transformation



Perform Commands: Receive (or Send)

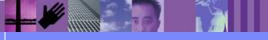


Global Business Transformation



Perform Commands – Send/Receive

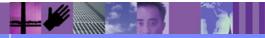
- REQID valid mail box profile
- FILEID Logical name of file to send
- CLEARFILE should the file be cleared before the Receive or after the Send
- DELFILE remove ADF input after a TRANSLATE





PERFORM Commands– Reading From WMQ

PERFORM TRANSFORM WHERE > INFILE(Q_PROF) INTYPE(MQ) > OUTFILE(Q_PROF) OUTTYPE(MQ)



Global Business Transformation



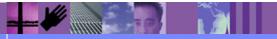
PERFORM Commands – OUTTYPE(MQ)

Things to keep in mind with OUTTYPE(MQ)

> Physical filename needs to be specified

> OUTFILE must identify a **Mailbox Profile**

FF0007 Data was written to EDI_OUT. Message control number or document id was 000000022. FF0585 The PERFORM TRANSFORM command completed successfully. FF0110 Unable to retrieve mailbox or requestor profile EDI_OUT, return code = 8 extended return code = 301.



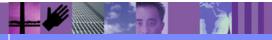
Global Business Transformation



Using File Type MQ – Usages

Document Destination

- > Name specifies the Mailbox Profile
- Type drop down must specify "MQ"



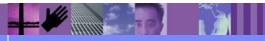


INTYPE(MQ) Example

Two XML to EDI scenarios

PERFORM TRANSFORM INTYPE(MQ)

> PERFORM TRANSFORM using File Type MQ on Rule



Global Business Transformation



Command Chaining

- We want to be able to understand the following:
 - >What is command chaining?
 - >What functionality does it provide?
 - ➤What is a Service Profile?
 - >What determines which Service Profile is used?
 - How does command chaining work?





Global Business Transformation



What is Command Chaining?

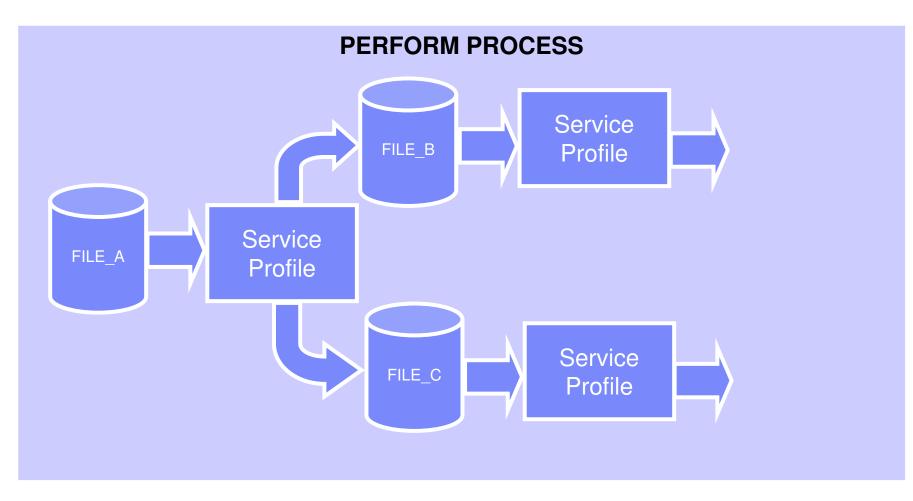
- Introduced with the PROCESS keyword
- Uses PERFORM command templates
- Allows dynamic command substitutions
- Invokes commands when logical files are available
- Used by WDIAdapter and WDIServer

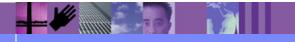


Global Business Transformation



Command Chaining Overview





Global Business Transformation



What functionality does it provide?

- New level of flexibility for solutions.
 - > Appropriate action can be taken for each input source.
 - The output of one command becomes input for additional commands.
- Provides the foundation upon which the WDIAdapter and WDIServer programs are built.





What is a Service Profile?

 Service Profiles provide the link between a data source and the specific PERFORM command that will be used to process data found on that data source. The service profile also defines all the files required by the PERFORM command.



Global Business Transformation



Elements of a Service Profile

- Service Profile name
- PERFORM command
- Criteria for continuing the chain
- Input and output file names





What determines which Service Profile is used?

- Process to select a service profile:
 - Logical file has been closed
 - Logical file name matches a Service Profile
 - > The current error level matches Service profile criteria





Command Substitution

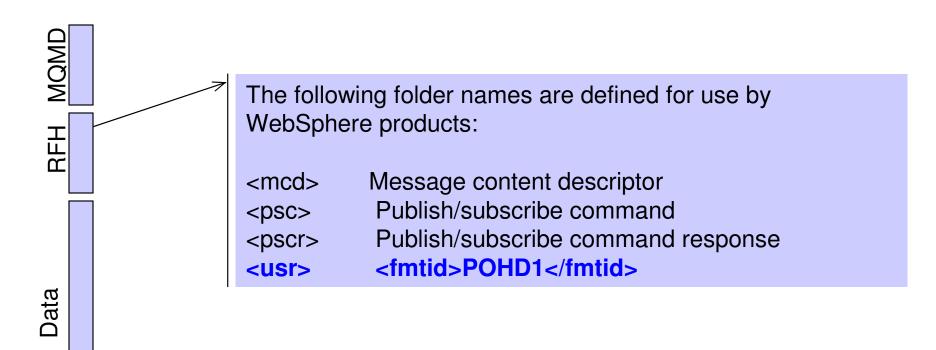
- Information from the RFH2 header can be used to specify parameters in a PERFORM command in a Service Profile.
 - Perform command arguments are put into the <usr> folder of the RFH2 header.
 - &TagName is used on the PERFORM COMMAND to substitute the value from the RFH2 header.



Global Business Transformation



Command Substitution





Global Business Transformation



Command Substitution

PERFORM TRANSFORM WHERE DOCID(&fmtid)

&fmtid will be replaced with the value from the element in the user folder



Global Business Transformation



How does command chaining work?

PERFORM RECEIVE AND PROCESS

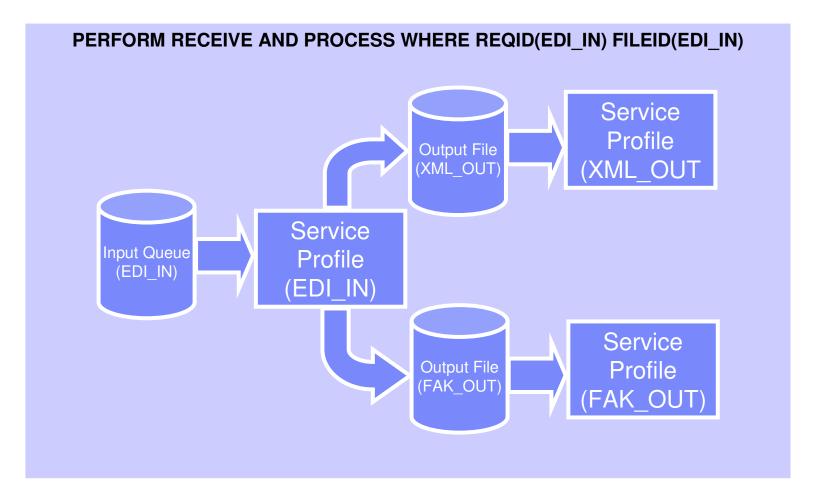
- REQID Names a Mailbox Profile
- > FILEID Logical filename
- PERFORM PROCESS
 - FILEID Logical filename

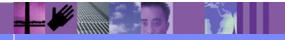


Global Business Transformation



EDI to XML Example





Global Business Transformation



Command Chaining Summary

- Defined command chaining
- Explained Service Profiles
- Explained how Service Profiles are selected
- Discussed ways to start command chaining

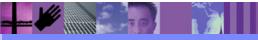




WDIAdapter Program

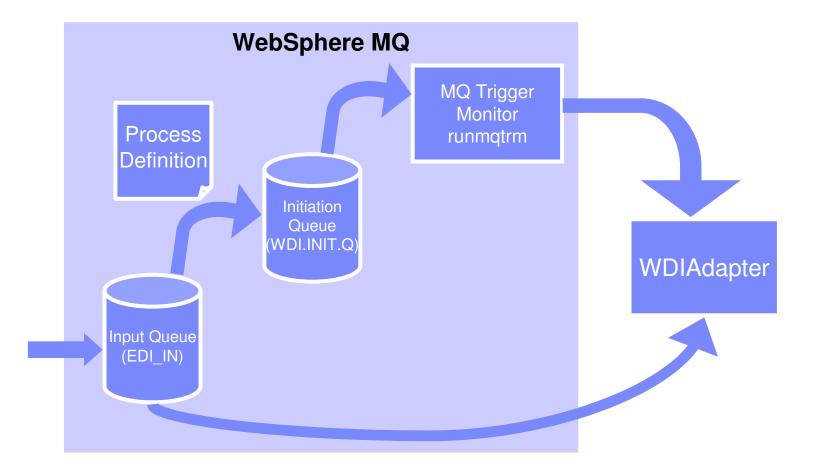
- Overview of WDIAdapter
- Setting up WMQ Objects
- Configuring WDIAdapter Parameters
- Tips and Tricks







WDIAdapter Overview





Global Business Transformation



Setting up MQ Objects for WDIAdapter

- Setup Script "wdimqcommands.txt"
 - Process Definition WDI.PROC
 - Initiation Queue WDI.INIT.Q
 - Default Input/Output queues
- Execute script with runmqsc command
 - runmqsc < wdimqcommands.txt</p>



Global Business Transformation



Process Definition

WDI.PROC
 Environment Data
 User Data

WDI.PROC Properties	<u>? X</u>
General	
WDI.PROC	
Process Definition Name:	WDI.PROC
Description:	"Websphere Data Interchange Ada
Application Type:	Windows NT
Application Identifier:	WDIAdapter.exe
Environment Data:	">> ""C:\WDIAdapter\WDIAdapter.
User Data:	C:\WDIAdapter
Alteration Date:	9/8/2004
Alteration Time:	7:58:10 AM
ОК С	ancel Apply Help

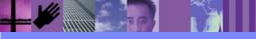


Global Business Transformation



Configuring WDIAdapter with "wdi.properties"

- The "wdi.properties" file specifies:
 - Directories to be used
 - Database Name
 - Language Code
 - Wait Time

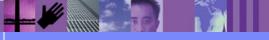


Global Business Transformation



Directories to be used

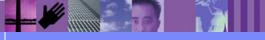
- runtimedirectory location of WDI executables
- datadirectory working directory for WDIAdapter
- rcvdirectory Receive file directory
- prtdirectory Print file directory
- dtddirectory directory for DTD files





Database Name, Language Code, Wait Time

- Database Name "EDIEC32E"
 - User id and password can be specified
- Language code
 - Identifies the Language Profile to be used
- Wait Time
 - > Indicates how long WDIAdapter will wait for a message



Global Business Transformation



IBM Software Group

Tips and Tricks

WebSphere. software





Tips and Tricks

WDIAdapter will not Trigger

- Check the open input count on WDI.INIT.Q
- Ensure triggering is enabled
- WDIAdapter on AIX
 - Check the permissions on the runmqtrm executable
 - Ensure ownership of working directory for WDIAdapter



Global Business Transformation



WDIAdapter Exercise

- In this exercise you will:
 - Create an input queue
 - Setup triggering
 - Start the trigger monitor (runmqtrm)
 - Transform an XML document to EDI using WDIAdapter

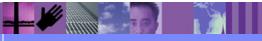


Global Business Transformation



WDIServer Program

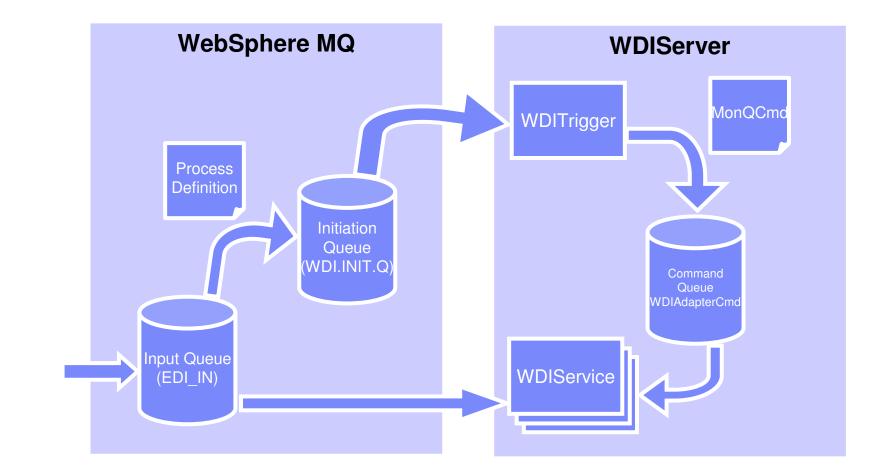
- Overview of WDIServer
- Setting up WMQ Objects
- Configuring WDIServer
- Added Benefits of WDIServer

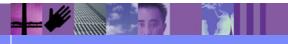


Global Business Transformation



WDIServer Overview





Global Business Transformation

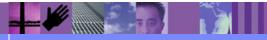


Setting up MQ Objects

AdvAdapterMQ.txt

Creates WDI.TRANSLATOR.PROC

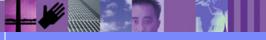
Creates WDIAdapterCmd Queue





WDI.TRANSLATOR.PROC

- New process definition for WDIServer
- Parameters can be passed on "Environment Data"
 - NumThreads number of translators from pool to assign
 - Timeout amount of time in microseconds to wait
 - ReqId value for REQID keyword
 - FileId value for FILEID keyword



Global Business Transformation



Input Queue - Trigger Data

- Trigger Data can pass parameters
- Environment Data can pass parameters
- Not on both



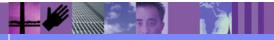
Global Business Transformation



Large Queue Names

Long queue names supported with WDIServer

- Passing ReqId and FileId allows this
- Default is to use Queue Name for both





Configuring WDIServer

- qmgrname
- initq
- numtranslators
- genprtfile
 - Always/onerror on error is default
- Keeparchive
 - Always/onerror never is default





Starting WDIServer

- WDIServer will look for properties when started
 - Current working directory
 - > WDISERVER_PROPERITES environment variable
- Initializes translator pool (WDIService processes)
 - Each translator creates a directory
 - > WDITransCmdQ_XXXX
- Creates archive directory



Global Business Transformation



Starting WDIServer on AIX

Extended Shared Memory

export EXTSHM=ON



Global Business Transformation



Added Benefits of WDIServer

- Multiple Translators per queue
- The ability to use long queue names



Global Business Transformation



WDIServer Exercise

In this exercise you will:

Perform the same transformation from the WDIAdapter exercise using the WDIServer program.





IBM Software Group

WDI and CICS

WebSphere. software





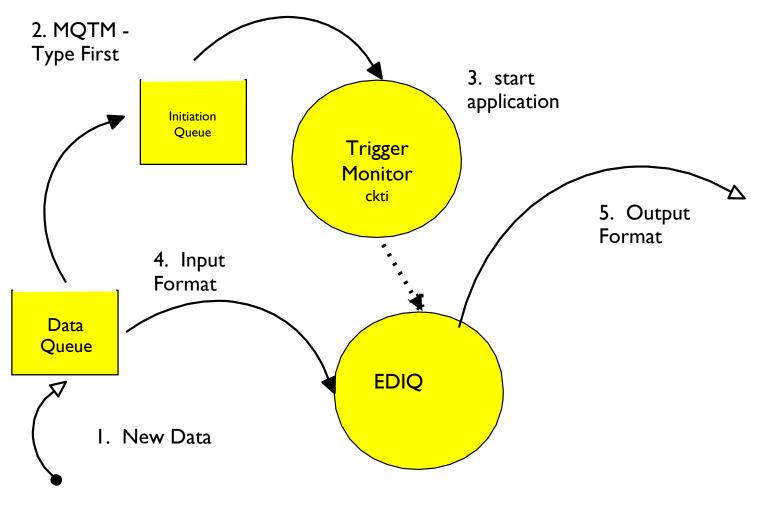
EDIQ

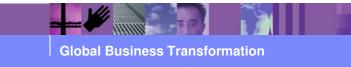
- Provides dynamic behavior in CICS
- Uses triggering
- Based on Continuous Receive





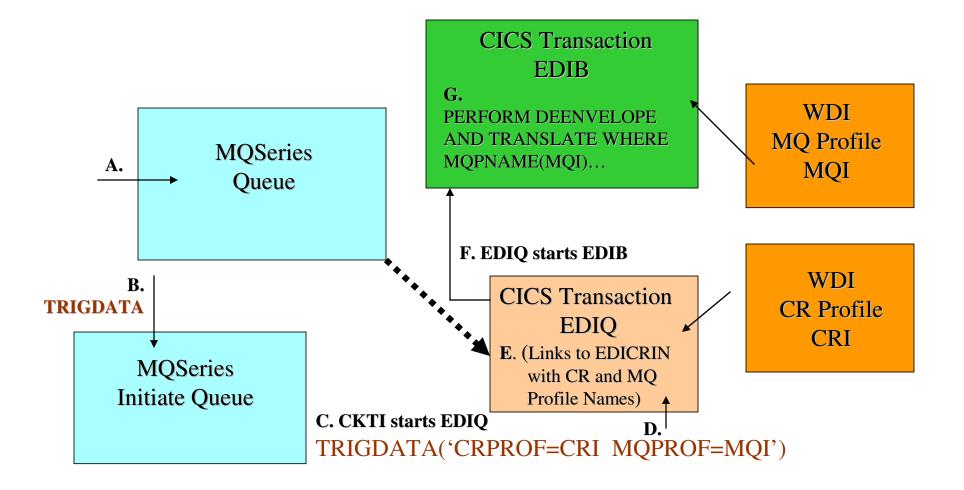
EDIQ







Transaction overview

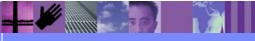






CR Profile

Ē.					
			Image: Local DB2 - Continuous Receive - <untitled> Image: Ima</untitled>		
1,2					
G		ì	General Output Processing Options Comments		
			* Continuous Receive ID Description Mailbox Profile Active Receive Processing Deenvelope and Translate Deenvelope Only Network Acknowledgements Only Execute Response Application Only Selection Criteria Trading Partner Profile Message User Class Response Application Response Type Program	Jes J artu	
		Ш	Response Name		
		-11			
		₽			
Ready	, Ready	R	eady		



Global Business Transformation



Questions and Discussion



Global Business Transformation