# Lab 4 Working with Files

## 4.1 Overview

File processing is an important characteristic of an ESB. This lab will use one of the samples provided with IBM Integration Bus that shows how to read a large message and break it into multiple output messages (sometimes referred to as message shredding).

The sample takes in a large message with a repeating structure. It then processes each repeating message individually and writes an individual message for each repeating element. Since there are ten repeating elements, the input will result in ten smaller individual messages. This message flow will be modified to accept the same input in a file as well as an MQ message.

The techniques demonstrated in this sample flow show how very large files consisting of a large number of repeating segments can be processed efficiently, without requiring large amounts of memory.



The following message flow will be built.

# Create the Message Flow

\_\_1. Select File→Switch Workspace→Other.

File	Edit Navigate Search Projec	t Run Window Help	
	New Open File	Alt+Shift+N >	] • @ • <mark>* </mark>
	Close	Ctrl+W	
	Close All	Ctrl+Shift+W	
21	Save	Ctrl+S	
1	Save As		
ġ.	Save All	Ctrl+Shift+S	
	Revert		
	Move		
	Rename	F2	
	Refresh	F5	
	Convert Line Delimiters To	•	
iii	Print	Ctrl+P	
	Switch Workspace	•	C:\student\workspace
	Restart		C:\student\ps\workspace
N.B	Import		C:\student\labmaterials
4	Export		C:\student\wsaddr\workspace
	Properties	Alt+Enter	Other

### \_\_\_2. Press the **Browse** button to select the workspace.

() Workspace	e Launcher	×
Select a w WebSphere Choose a we	<b>orkspace</b> Message Broker Toolkit - Message Broker stor orkspace folder to use for this session.	res your projects in a folder called a workspace.
<u>W</u> orkspace: ▶ <u>C</u> opy Setti	C:\student\workspace	<u> ■</u> <u> Browse</u>
?		OK Cancel

# \_\_\_3. Navigate to the C:\student\Files\workspace directory.

\_\_\_4. Press the **OK** button to select the workspace for this lab.

a 🁔	Files	*
	🍌 Input	
	📙 Output	
	📙 workspace	
Þ 🥼	HealthCare	
	Intro_XML_Message	
Þ 📕	JKE_Client_	-

## \_\_5. Press the **OK** button to open the integration toolkit.

Workspace Launcher	×
Select a workspace WebSphere Message Broker Toolkit - Message Broker stores you Choose a workspace folder to use for this session.	ur projects in a folder called a workspace.
Workspace: C:\student\Files\workspace	✓ <u>Browse</u>
•	OK Cancel

## \_\_6. Select the **Samples** icon hotspot.

□ Welcome 🖾				
IBM Integration			Go to the Integration	Toolkit
		$\wedge$		
Get Started	Samples	Returning Users	Web Resources	
Get started with IBM	Explore IBM Integration sample applications	Discover new features and learn how to migrate to IBM	View the latest information updates and discover	
Default Configuration, then verify your installation using		Integration Bus Version 9.0	additional web resources	
the Pager samples				

\_\_\_7. Close the Welcome tab.

🗖 Welcome 🖾

8. Double-click the Samples and Tutorials tab to open the samples in full screen mode.



- \_\_9. Expand the Application Samples.
- \_\_\_10. Click on the Large Messaging sample item.

😵 Samples	and Tutorials 🕴		Ð
- 📢	Application Samples		*
<b>–</b>	The Application samples are small end-to-end IBM Integra demonstrate how to transform and route messages through	ation applications that were created using the IBM Integration Toolkit. The Application samples gh message flows.	
	Airline Reservations sample	Data Warehouse sample	
	This sample shows how to use a range of nodes,	This sample contains a message flow that archives	
	including nodes for aggregation, routing, tracing,	data, such as sales data, to a database.	
	filtering, and updating database tables.		
	DatabaseInput Node sample	Error Handler sample	
	This sample demonstrates how to take data from a	This sample contains a message flow and a subflow	
	database, as it is being updated, and process the	to show error handling in message flow	
	data within IBM Integration Bus.	applications.	
	Graphical Data Mapping Loyalty Data Warehousing san	nple Large Messaging sample	
	This sample contains a message flow that inserts	This sample shows how to process messages that	
	and updates rows in a database.	contain repeating structures, and how to minimize	Ξ
		the virtual storage requirements for the message	
		flow.	

A new window should open.

\_\_\_11. Select the Import and deploy the sample option.



An Import and deployment summary dialog should appear.

\_\_\_12. Press the **Next** button to import the sample project, create the queues and deploy the message flow.

) Prepare the Sa	mples			( <b>D</b> ×
mport and de	ployment sun	nmary		18-11
To complete the	e following tasks, (	click "Next":		
Summary of task	cs: Message Broke	r Large Messaging sar	nple	A
Create the follow	ving projects in th	e workspace		
LargeMessaging	ing projects in th	e nonopuee		
Add the followin	webSphere MC			
LARGE_MESSAG	ING IN	i ducues.		
LARGE_MESSAG	ING_SLICING_COM	MPLETE		
LARGE_MESSAG	ING_SLICES			
LARGE_MESSAGI	ING_MALFORMEL	)_MESSAGE		
Deploy the samp	les into the follow	ving new execution gr	oups:	
LargeMessaging	ExecutionGroup			
				*

- \_\_\_13. Scroll down and confirm that all the tasks were successful.
- \_\_\_14. Press the **Next** button to continue.

) Prepare the Samples	×
mport and deployment progress	
Creating the WebSphere MQ queues.: LARGE_MESSAGING_MALFORMED_MESSAGE The task succeeded Creating the WebSphere MQ queues.: LARGE_MESSAGING_ERROR The task succeeded Creating the new execution groups and deploying the samples; please wait. The task succeeded The task succeeded	•
++++++++ All tasks were completed successfully. ++++++++	E
< Open Log File	•
(?) < Back Next > Finish Can	cel

\_\_15. Press the Finish button to dismiss the dialog.

ample su	ccessfully imported and deployed	
Click 'Finish'	to close the wizard.	
The sample v	vas imported and deployed successfully.	2
	nep pages to ream more and to full the sample.	

Take some time to read about the sample.

\_\_\_16. Close the Information Center window.





The imported message flow should be open in the message flow editor.

- \_\_17. Expand the File folder.
- \_\_\_18. Select the FileInput node.
- \_\_\_19. Drag it to the canvas and press the left mouse button to add the node to the message flow.
- \_\_\_\_20. Change the name of the new node to Read File.
- \_\_\_21. Press the Enter key to complete the rename operation.



- \_\_\_\_22. If the flow editor is in full screen mode double-click the Read File node to display the properties.
- \_\_\_23. In the **Properties** pane select the **Basic** tab.
- \_\_\_24. Enter C:\student\Files\Input as the Input directory.
- \_\_25. Use the drop down menu to select the Add Time Stamp and Move to Archive Subdirectory (mqsiarchive) as the Action on successful processing.

🔲 Properties 🛛 🖹 F	Problems 🔠 Deployment Log	2 - 5					
陼 File Input Node I	B File Input Node Properties - Read File						
Description							
Basic	Directory properties						
Input Message Parsing	Input directory* C:\student\Files\Input						
Parser Options	Include local subdirectories						
Polling	File name properties						
Retry	File name or pattern* *						
Records and Elements	File evolution nattern						
Validation							
FTP	Action on successful processing Add Time Stamp and Move to Archive Subdirectory (mqsiarchive)	-					
Transactions	Replace duplicate archive files						

\_\_\_26. Select the Input Message Parsing tab.

\_\_\_27. Use the drop down menu to select the **XMLNSC** parser for the **Message domain**.

🔲 Properties 🛛 🖹 F	Problems 🎛 Deployment Log		2 × - 8				
Read File Input Node Properties - Read File							
Description							
Basic	Message domain	XMLNSC : For XML messages (namespace aware, validation, low memory use)	-				
Input Message Parsing	Message model	Control Con	Browse				
Parser Options	Message						
Poliing							
Retry	Physical format		Υ.				
Records and Elements	Message coded character set ID*	Broker System Default	<b>_</b>				
Validation	message couce character set ib						
FTP	Message encoding*	Broker System Determined	-				



# \_28. Wire the **Out** terminal of the **Read File** node to the **In** terminal of the **ProduceMessageSlicesFromRepeatingElements** node.

One more change will be made to allow for a very large file. The processing of the sample is based on MQ messages and as such the output messages are part of a single unit of work. However, this would not scale to a very large file. The "repeated element slices" messages will therefore be written outside of a syncpoint. In a production environment this could lead to duplicate messages in the event of a failure. The duplicate messages could be easily handled by using a resequence node and putting a sequence number in the local environment. This would eliminate duplicate messages resulting from a failure.

\_\_\_\_29. Select the **RepeatedElementSlices** node.

- \_\_\_30. In the **Properties** for the node select the **Advanced** tab.
- \_\_\_31. Use the drop down menu to select **No** as the **Transaction mode**.

🔲 Properties 🏽 🕅 Problems 🌐 Deployment Log				
MQ Output Node Properties		RepeatedElementSlices		
Description	-			
Basic	Destination mode	Queue Name	-	
Advanced Request	Transaction mode	No	•	
Validation	Persistence mode	Automatic	•	
	New message ID			

\_\_32. Save the message flow.

The message flow is now complete. It has been modified to accept files as well as messages as input.

# **Execute the Message Flow**

The message flow will be tested using both a message and a file as inputs.

### If necessary.... create the C:\student\Files\Input directory on your disk.

The message path will be tested first. The sample program includes a flow test with data. This will be used to test the messaging path.

\_\_\_1. If the screen is in full screen mode double-click the message flow editor tab to return to windowed mode.

🖽 XMLwithRepeat\_to\_singleXML\_slicer.msgflow 😣

- \_\_\_\_2. In the navigator pane, expand Independent Resources -> LargeMessaging -> BARs.
- \_\_3. Select the LargeMessagingBrokerArchive.bar broker archive file.
- \_\_\_4. Press the right mouse button.
- \_\_5. Select **Build and Save Broker Archive** from the menu.



\_\_\_6. Press the OK button to dismiss the warning (if it appears).



- \_\_\_\_7. In the Project Navigator pane select the LargeMessagingBrokerArchive.bar archive file.
- 8. Press the right mouse button.
- \_\_\_9. Select **Deploy...** from the menu.



The import and deploy wizard created an additional integration server where it deployed the original version of the message flow. The updated message flow will be deployed to replace the original version.

- \_\_\_10. Expand Integration Nodes→IB9NODE.
- \_\_\_11. Select the LargeMessagingExecutionGroup integration server.
- \_\_12. Press the Finish button to initiate the deployment operation.

Deploy			
Deploy Select integration server to deplo	y selected resources.		
Integration Nodes IB9NODE CargeMessagingExe	ecutionGroup		
?		<u>F</u> inish	Cancel

- \_\_\_13. In the navigator pane, expand LargeMessaging→Flow Tests.
- \_\_\_14. Double-click on the **SampleInputMessage.mbtest** file to launch the Test Client.



Examine the test client window. The **Enqueue** entry should be selected. This will write a message to the specified queue. The name of the queue and queue manager is specified under **Detailed Properties**. The input data is shown in the large text box in the **Message** area.

\_\_\_15. Press the **Send Message** button to send the data to the specified queue.

Events		
Message Flow Test Events	General Proper	rties
🕨 🗉 🎄 🚮 🔛 🖽 🚍 📸	<ul> <li>Detailed Prope</li> </ul>	rties
Enqueue	Host:	localhost
Pequeue Dequeue	Port:	0
	Server channel:	SYSTEM.BKR.CONFIG
	Queue manager:	IB9QMGR
	Queue:	LARGE_MESSAGING_IN
	Message Header	
	Show in hee Show in hee SaleEnvelop y>Eurosce>Invoice> <initial>N urname&gt;oRC &lt; III</initial>	ext xadecimal viewer (Read Only) ye> <header> <salelistcount>10</salelistcount> </header> <salelist> <invoice rrrency&gt;  </invoice </salelist> <salelist> <invoice> <initial> F</initial> <initial> ( t&gt; <salelist> <invoice> <initial> g</initial> <initial> <z initial=""> <surname> FQNIY ial&gt; W</surname></z></initial> <initial> g</initial> <surname> mtgcdraRGly</surname> <item> I</item></invoice></salelist></initial> <surname> ErfMwkQUAar</surname> <item> <code>03</code> <code>( )Yxodmus <item> <code>05</code> <code>( * * * * Send Message</code></item></code></item></invoice></salelist>

The results of the execution of the message flow will now be examined.

- \_\_\_16. Return to MQ Explorer. If it is not running start it.
- \_\_\_17. Expand the IB9QMGR queue manager.
- \_\_\_18. Select the **Queues** folder.
- \_\_\_19. In the right hand pane scroll down so the LARGE\_MESSAGING\_SLICES queue is visible.
- \_\_\_\_20. Confirm that there are ten messages in the LARGE\_MESSAGING\_SLICES queue.
- \_\_\_21. Confirm that there is one message in the LARGE\_MESSAGING\_SLICING\_COMPLETE queue.

Queues				
Filter: Standard for Queues				
<ul> <li>Queue name</li> </ul>	Queue type	Open input count	Open output count	Current q
🖾 LAB.STATE	Local	0	0	0
LAB.US.OUT	Local	0	0	0
LARGE_MESSAGING_ERROR	Local	0	0	0
LARGE_MESSAGING_IN	Local	1	0	0
LARGE MESSAGING MALFORMED MESSAGE	Local	0	0	0
LARGE_MESSAGING_SLICES	Local	0	1	10
LARGE_MESSAGING_SLICING_COMPLETE	Local	0	1	1
MAP.ACCTCLOSE	Local	0	0	0

The same test data will now be copied into a file and the file path will be tested. A Windows Explorer session will be used.

- \_\_\_22. Select the Windows Start button.
- \_\_\_23. Press the right mouse button.
- \_\_\_24. Select **Open Windows Explorer**.



- \_\_25. Navigate to the C:\student\Files directory.
- \_\_\_26. Select the Files directory.
- \_\_\_27. Point to a blank area in the right hand pane and press the right mouse button.
- $\_$ 28. Select **New** $\rightarrow$ **Text Document** from the menu that appears.

rganize 🔻 🛛 Include in	library 🔻 Share with 💌 N	lew folder		1	)EE 🔹		2
student AppsLibs COBOL COLL Data DB2LOG DBInput DBROUTE DFDL dotNET Downloads FileProcessin Files Input Output Vortput	Name Input Output workspace AccountUpdate.batch	Date modified       9/20/2012 3:48       9/20/2012 2:02       9/20/2012 2:32       1/14/2009 4:13       View       Sort by       Group by       Refresh       Customize this folder       Paste       Paste shortcut       Undo Copy       Share with	Type PM File f PM File f PM BATI PM BATI	e folder folder CH File	Size	3 KB	
HealthCare Intro_XML_M	(	New	•	📕 Folder			
JKE_Client_		Properties		Shortcut			
JKE_Client_M	der d			🗾 Bitmap in	nage		
JKE EIS _				Contact			

A new file should be created in the Files folder.

Computer + Eddar Disk (C	.) • student • riles •	▼   * <del>?</del>	Search rues		
rganize 🕶 🦳 Open 👻 Print	New folder			.8⊞ ▼	E
🔰 student 🔹 Name	<u>^</u>	Date modified	Туре	Size	
AppsLibs	1	9/20/2012 3:48 PM	File folder		
UCBOL UCBOL		9/20/2012 2:02 PM	File folder		
workspare		9/20/2012 2:32 PM	File folder		
	odate.batch	1/14/2009 4:13 PM	BATCH File		3 KB
JE DEZLOG	A CONTRACTOR OF	0/21/2012 0.01 AM	Text De cum ent		0.1/1

- \_\_\_\_29. Change the name of the new file to **TestFile1**.
- \_\_\_30. Press the Enter key to complete the rename operation.
- \_\_\_31. Double-click the new **TestFile1** file to open the file in the notepad editor.

Name	Date modified	Туре	Size
🍌 Input	11/13/2012 10:40	File folder	
퉬 LargeFile	11/13/2012 11:33	File folder	
🌗 Output	9/21/2012 5:17 PM	File folder	
퉬 workspace	11/13/2012 8:03 AM	File folder	
AccountUpdate.batch	1/14/2009 4:13 PM	BATCH File	3 KB
TestFile1	11/13/2012 8:39 AM	Text Document	10 KB

A notepad session should open. The file is currently empty. The test data from the test client will now be copied and pasted into the notepad session.

- \_\_\_32. Return to the test client in the integration toolkit.
- \_\_\_33. Move the mouse pointer to the message text.
- \_\_\_34. Press the right mouse button.
- \_\_35. Click the **Select All** menu item.

Message		
Header		
Body: Edit as text		<b>•</b>
Show in hexad	lecimal viewer	(Read Only)
<pre><saleenvelope> y&gt;Euros&lt; Invoice&gt;<initia al=""><initial>N&lt; urname&gt;oROI\ me&gt;<item><c code="">00<descript description="">&lt;</descript></c></item></initial></initia></saleenvelope></pre>	<header><s ncy&gt;SaleList&gt;<in Undo Cut Copy Paste Delete Select All</in </s </header>	aleListCount>10 e> <salelist><invoice><initial>F voice&gt;<initial>g</initial><initial>Z</initial> tial&gt;g</initial><surname>mtgcdraRGIy&lt; &gt;ErfMwkQUAar</surname><item><code e&gt;<item><code>05</code><code>07 <code>07</code><code>03</code><i code&gt;<description>AURpEifescription&gt;<category>bqHOI//Category&gt;<price>50.44</price><quant< th=""></quant<></category></description></i </code></item></code </item></invoice></salelist>
Import Source		Send Message

- \_\_\_36. Move the mouse pointer to the message text.
- \_\_\_37. Press the right mouse button.
- \_\_38. Click the **Copy** menu item.



- \_\_39. Return to the notepad session.
- \_\_40. Point the mouse in a blank area of the notepad session and press the right mouse button.
- \_\_41. Select Paste from the menu.



The data should now have been transferred into the notepad editor.

\_\_\_42. Select **File**→**Save** from the menu in the notepad editor (or use **Ctrl+S**).

	FestFile1.	txt - Note	epad	Wange Bar San Sanda	+ Second Property	
File	Edit	Format	View Help			
	New		Ctrl+N	> <code>01</code> <description>Microscope ion&gt;WPZsCWysoR</description> <category>rl</category>	<category>Misce MTLBwkTCFPdW</category> <price< th=""><th>llaneous<price>36.2 &gt;27.33</price><ouantity>02</ouantity></th></price<>	llaneous <price>36.2 &gt;27.33</price> <ouantity>02</ouantity>
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	Page S	etup		s <salel aleList&gt;<salelist><invoice><initial>Z<!--</th--><th>ist&gt;<invoice><initial>gInitial&gt;<initial>A</initial>&lt;</initial></invoice></th><th>ial&gt;<initial>r</initial><surna Surname&gt;MxveawlNyWH&lt;</surna </th></initial></invoice></salelist></salel 	ist> <invoice><initial>gInitial&gt;<initial>A</initial>&lt;</initial></invoice>	ial> <initial>r</initial> <surna Surname&gt;MxveawlNyWH&lt;</surna 
	Print		Ctrl+P	ionTime>12.00.00 <td>ler&gt;</td> <td></td>	ler>	
	Exit					

\_\_\_43. Close the notepad editor (either Alt+F4 or File→Exit).

Т 🛄	estFile1	.txt - Not	epad	Wange free for fronts	1 Second Properties	
File	Edit	Format	View Help			
	New		Ctrl+N	> <code>01</code> <description>Microscopeion&gt;WPZsCWysoR</description> <category>rMTLE</category>	escription> <category>Miscellaneous3wkTCFPdW</category> <price>27.33<th>ategory&gt;<price>36.2</price></th></price>	ategory> <price>36.2</price>
	Open		Ctrl+O	on> <category>dbqBiAmJknjMd</category> <price< td=""><td><pre>&gt;21.01<quantity>03</quantity></pre></td><td><balance>75</balance></td></price<>	<pre>&gt;21.01<quantity>03</quantity></pre>	<balance>75</balance>
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	Print.		Ctrl+P	ionTime>12.00.00		
	Exit					

- \_\_\_44. Return to the Windows explorer window. The new TestFile1.txt file should be visible.
- 45. Select the TestFile1.txt file.
- \_\_\_46. Press the right mouse button.
- \_\_\_47. Select Copy from the menu.



- \_\_48. Select the Input directory above the file.
- \_\_\_49. Press the right mouse button.
- \_\_50. Select **Paste** from the menu



- \_\_51. Return to the MQ Explorer and wait for a refresh cycle.
- \_\_52. The queue depth of the LARGE\_MESSAGING\_SLICES queue should now be twenty.

Queues				
Filter: Standard for Queues				
Queue name	Queue type	Open input count	Open output count	Current q
🖾 LAB.STATE	Local	0	0	0
LAB.US.OUT	Local	0	0	0
LARGE_MESSAGING_ERROR	Local	0	0	0
LARGE_MESSAGING_IN	Local	1	0	0
LARGE MESSAGING MALFORMED MESSAGE	Local	0	0	0
LARGE_MESSAGING_SLICES	Local	0	2	20
LARGE_MESSAGING_SLICING_COMPLETE	Local	0	2	2
MAP.ACCTCLOSE	Local	0	0	0

\_\_53. Return to the integration toolkit.

### \_\_54. Close the Test Client.



\_\_55. Press the **No** button. The changes to the test client will not be saved.

🕟 Save R	esource		-	×
?	'SampleInputMessage' has b	een modifi <mark>e</mark> d. Save c	hanges?	
		Yes	No	Cancel

\_\_56. Minimize the Windows Explorer window.

Computer	Local Disk (C:) ► student ► Files	• • •	Search Files	0	
Organize 👻 🦳 Open 🤊	Print New folder			()EE •	<b>E</b>
🎉 student 🛛 🔦	Name	Date modified	Туре	Size	
AppsLibs	🕌 Input	9/21/2012 5:17 PM	File folder		
COBOL	Uutput	9/21/2012 5:17 PM	File folder		
COLL	🔒 Resources	12/7/2012 3:04 PM	File folder		
J Data	📕 workspace	7/25/2013 3:25 AM	File folder		
DB2LOG	AccountUpdate.batch	1/14/2009 4:13 PM	BATCH File		3 KB
	TestFile1	7/25/2013 3:28 AM	Text Document		10 KB