FTP Inbound Lab

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What this exercise is about

The objective of this lab is to provide you with an understanding of the WebSphere[®] Adapter for FTP and inbound event processing. In this lab you will install and deploy the WebSphere Adapter for FTP and create an SCA application that polls for and processes inbound events from the file system.

Lab Requirements

List of system and software required for the student to complete the lab.

- WebSphere Integration Developer V6.0.2 installed
- WebSphere Process Server V6.0 Test Environment installed
- WebSphere Adapter for FTP V6.0.2 installed
- Unzip LabFiles602.zip to your C:\ (your root) drive
- FTP server installed and configured

What you should be able to do

At the end of this lab you should be able to:

- Import FTP adapter RAR file into WebSphere Integration Developer
- Use WebSphere Process Server's Administrative Console to create required JDBC provider and a Data source
- Use Enterprise Service Discovery (ESD) wizard to configure the Activation Spec Properties and the Resource Adapter Properties to generate Business Objects and other artifacts
- Deploy the adapter application onto the WebSphere Process Server test environment
- Test the deployed application using WebSphere Process Server test environment for both passthrough and non pass-through using four different scenarios
- Restore the server configuration

Introduction



The backend EIS is the source of events. When events are generated at the EIS, files will be created by the EIS in the remote file system at a specific directory location. The same directory needs to be configured by the user as the Event Directory for the adapter.

The adapter polls event files, based on configured Event File Mask and FTP Get Quantity, from the Event Directory and downloads to a Local Event Directory in the adapter machine for every FTP Poll Frequency time and archives the file in FTP Archive Directory of the FTP server (it specified by the user).

The adapter splits the downloaded event files from Local Event Directory based on the configured SplittingFunctionClassname (splitting functionality) and SplitCriteria (splitting criteria used). User can implement his/her own class which contains the splitting logic which splits the event files into individual Business Objects. The adapter provides a Java[™] interface which the end user has to implement in a class.

An entry is made in the Event Persistence table (given by EPEventTableName) for each BO with status as New Event. The adapter sends the record chunk, through a Function Selector and Data Binding, to the endpoint and the status in the Event Persistence table is updated based on successful (to PROCESSED state) or failed(to FAILED state) delivery to the endpoint. The event management framework takes care of delivering the event only once to the endpoint.

If archiving is enabled (if LocalArchiveDirectory has a valid value), the Business Objects are also archived in a configured Local Archive Directory, on the local file system, based on successful or failed delivery to the endpoint. Successful and failed events are written to different files. The entries from the Event Persistence table are deleted for each of the successfully processed BO's only. If Local ArchiveDirectory is not set, the event file is deleted after processing of all the BO's is completed.

If EventContentType in the Activation Spec Properties is not set or if it is not valid or the value does not match the entries present in annotation of the Wrapper data object then it is called PassThrough and data transformation will not happen in this case. During PassThrough the SplittingFunctionClassName and SplitCriteria are set to values (even if they are set to different values) such that splitting happens based on file size. The PassThrough scenario can have either Chunking or FilePassbyReference features.

Exercise Instructions

Some instructions in this lab may be Windows[®] operating-system specific. If you plan on running the lab on an operating-system other than Windows, you will need to run the appropriate commands, and use appropriate files (.sh vs. .bat) for your operating system. The directory locations are specified in the lab instructions using symbolic references, as follows:

Reference Variable	Windows Location	AIX [®] /UNIX [®] Location
<wid_home></wid_home>	C:\Program Files\IBM\ID\6.0	
<wps_home></wps_home>	<wid_home>\runtimes/bi_v6</wid_home>	
<ftpadapter_home></ftpadapter_home>	C:\Program Files\IBM\ResourceAdapters\FTP\adapter\FTP	
<lab_files></lab_files>	C:\Labfiles602	/tmp/Labfiles602
<workspace></workspace>	<lab_files>\FTPInbound\workspace</lab_files>	
<local_event_dir></local_event_dir>	<lab_files>\FTPInbound\LocalEventDir</lab_files>	
<local_archive_dir></local_archive_dir>	<lab_files>\FTPInbound\LocalArchivetDir</lab_files>	
<temp></temp>	C:\temp	/tmp

Windows users note: When directory locations are passed as parameters to a Java program such as EJBdeploy or wsadmin, it is necessary to replace the backslashes with forward slashes to follow the Java convention. For example, C:\LabFiles602\ would be replaced by C: /LabFiles602/

Part 1: Prepare Database and Directory Structure on your FTP Server

This part of the lab describes the steps for creating the **FTPDATABASE** database in Cloudscape which will contain the Event Distribution Table, **FTPTABLE**. The **FTPTABLE** will be created automatically for you during the install and deployment of the application containing the FTP adapter to the WebSphere Process Server.

- 1. Start the Cloudscape Cview Graphical User Interface (GUI) by executing the cview.bat file
 - ____a. Open a command prompt window and change to the following subdirectory <WPS_HOME>\cloudscape\bin\embedded

🔤 C:\WINDOWS\system32\cmd.exe	JΧ
Microsoft Windows [Version 5.2.3790] <c> Copyright 1985-2003 Microsoft Corp.</c>	
C:\Documents and Settings\Administrator>cd <u>G</u> :\WID601\runtimes\bi_v6\cloudscape` in\embedded	√ b

____b. Type cview.bat

🔤 C:\WINDOWS\system32\cmd.exe - cview.bat	×
Microsoft Windows [Version 5.2.3790] (C) Copyright 1985-2003 Microsoft Corp.	
C:\Documents and Settings\Administrator>cd C:\WID601\runtimes\bi_v6\cloudscape\} in\embedded	
C:\WID601\runtimes\bi_v6\cloudscape\bin\embedded>cview.bat	
C:\WID601\runtimes\bi_v6\cloudscape\bin\embedded>echo_off	
	•

____ c. The Cview window will be opened. From that window, select File > New > Database....

2 <mark>77</mark> Cview		
File Edit View Help		
New	•	Database Alt+D
Open		Window Alt+W
Open by Name	Т	
Close Alt	FC	
C:WMD601\runtimes\bi_v6\cloudscape\databases\FTPTEST		
C:WMD601/runtimes/bi_v6\cloudscape/FFDB		Cioudscape
Exit Alt	۰X	

____ d. Enter FTPDATABASE in the Name field and click OK

New Database 🛛 🗙
Database Localization Encryption Import
Name: FTPDATABASE
Directory
OK Cancel Help

- ____e. You will see the FTPDATABASE created in the left pane of the Cview window. Now select File > Exit to close the Cview GUI
- ____ 2. Create directory structure on your FTP Server
 - ____a. Log onto FTP machine/FTP Server using your ftpuser and password
 - ____b. Create an **EventDir** and an **ArchiveDir** under the user's home directory:
 - 1) mkdir EventDir
 - 2) mkdir ArchiveDir

Part 2: Initialize workspace and Import RAR into WebSphere Integration Developer

This part of the lab will guide you through the steps for starting WebSphere Integration Developer with a new workspace, and then import the connector file **CWYFT_FTPFile.rar** into your new workspace.

- 1. Start the WebSphere Integration Developer V6.0.2 with a new workspace
 - ____a. Select Start > Programs > IBM WebSphere > Integration Developer V6.0.2 > WebSphere Integration Developer V6.0.2
 - ____b. From the Workspace Launcher window, enter **<WORKSPACE>** for the Workspace field

Workspace Launcher	×
Select a workspace IBM WebSphere Integration Developer stores your projects in a directory called a workspace. Select the workspace directory to use for this session.	
Workspace: C:\Labfiles602\FTPInbound\workspace Browse	
Use this as the default and do not ask again OK Cancel	

____ c. Click on the is button on the right hand corner to close the Welcome page and proceed with the workbench



- _____ 2. Import FTP Adapter RAR file
 - ____a. From main menu, select File > Import...

🔂 B	usines	s Integra	tion - IB	M WebSj	pł
<u>F</u> ile	<u>E</u> dit	<u>N</u> avigate	Se <u>a</u> rch	Project	R
[<u>N</u> ew		Alt+Sh	hift+N 🔹 🕨	•
(⊆lose		Ctrl+F	4	
	Close A	-TI	Ctrl+S	hift+F4	
-	<u>5</u> ave		Ctrl+S		
	Save <u>A</u>	5,,,			
	5av <u>e</u> A	I	Ctrl+S	hift+S	
F	Rever <u>t</u>				
ī	Mo <u>v</u> e	,			
F	Rena <u>m</u> e	3,,,	F2		
F	Refrest	ì	F5		
	Print		Ctrl+P		
:	5witch (Open E	<u>W</u> orkspace xternal File	 		
ف ک	[mport.				
<u>ک</u>	Exp <u>o</u> rt.				

____b. Select RAR file from the Import window and then click Next

🚯 Import		×
Select Import an external Conne	ctor RAR file into a Connector project	Ľ
Select an import source:	ph	
	< <u>B</u> ack <u>N</u> ext > Einish	Cancel

- ____ c. Click on the **Browse...** button next to the Connector file filed to select **WYFT_FTPFile.rar**
- ____ d. Uncheck the check box next to Add module to and EAR project and click Finish

🚯 Import		×
Connector Impor Import a Connecto	t or project from the file system	
Connector file:	esourceAdapters\FTP\adapter\FTP\deploy\CWYFT_FTPFile.rar	Browse
Connector project:	CWYFT_FTPFile	N <u>e</u> w
🗌 Overwrite ex	isting resources without warning,	
🗖 Delete proj	ject on overwrite	
Target server:	WebSphere Process Server v6.0	N <u>e</u> w
EAR project:	CWYFT_FTPFileEAR	Ne <u>w</u> ,
	< <u>B</u> ack <u>N</u> ext > Finish	Cancel

____ e. Click on No from Confirm Perspective Switch window to continue with the Business Integration perspective



Part 3: Use WebSphere Process Server Administrative Console to Configure Data Sources

In this part of the lab, you will make use of the WebSphere Process Server Administrative Console to create the required JDBC Provider and the Data source that will be used by the Adapter to configure itself to the end point.

- _____1. Start the WebSphere Process Server test Environment
 - ____a. Select Servers view
 - ____ b. Right-click on the row that contains WebSphere Process Server v6.0 and select Start from the context menu

Properties Problems 👫 Servers 🗙 Console			
Server	Host name	Status	State
🛅 WebSphere ESB Server v6.0	localhost		
WebSphere Process Server v6.0	localhost	Stopped Ne Op De Sto Sto Sto Sto Pro	w en en bug irt ifile

- ____ c. Wait until the Status of the server shows Started
- 2. Right-click on the row that contains WebSphere Process Server v6.0 and select **Run** administrative console from the context menu

			📇 Add and remove projects
			Run universal test client
•			Restart universal test client
			Run administrative console
			Reconnect debug process
Properties Problems 👫 Servers 🗙 Console			📋 Create tables and data sources
Server	Host name	Status	admin script
🛅 WebSphere ESB Server v6.0	localhost		Launch •
WebSobere Process Server v6.0	localbost	Started	

____ 3. From the Administrative Console, enter any User ID and click on Log In

S Admin Console 🗙				
Welcome, pl	ease enter your information.			
User ID: ftpuser]			
Log in				

4. Expand **Resources** on the left pane and select **JDBC Providers**

🥙 Admin Console 🗙				
Welcome Logout Support	Ι			
= Welcome				
E Guided Activities				
Applications				
Resources				
= JDBC Providers				
Resource Adapters				

- 5. Accept the default scope and click on **New**
- 6. In the following screen, for the General Properties, select the following from the dropdown list:
 - ____a. Step 1: Cloudscape
 - ____b. Step 2: Cloudscape JDBC Provider
 - ___ c. Step 3: XA data source

____7. Click Next

IDBO	C providers
<u>)</u> [DBC providers > New
cl	hoose a type of JDBC provider to create.
0	Configuration
	General Properties
	Sten 1: Select the database type
	Step 2: Select the provider type
	Step 3: Select the implementation type XA data source
	Next Cancel
	Step 3: Select the implementation type XA data source Image: Select the implementation type XA data source Image: Select the implementation type Image: Select the implementation type XA data source Image: Select the implementation type Image: Select the implementatintype

8. Enter Cloudscape JDBC Provider (XA) for FTP in the Name field and then click OK

JDBC providers JDBC providers	> New are used by the installed applications to access
Configuration	
General Pro * Scope cells:widC * Name Cloudsca	perties ell:nodes:widNode pe JDBC Provider (XA) for FTP

- 9. Click **Save** on the top of the window, and then click on **Save** from the following screen
- _____ 10. Click Cloudscape JDBC Provider (XA) for FTP from the following screen to create a new Data Source

_____ 11. Select Data sources under Additional Properties on the right hand side

<u>JDBC providers</u> > Cloudscape JDBC Provider (XA) for FTP JDBC providers are used by the installed applications to access data from databases.					
Configuration	Configuration				
General Pro * Scope cells:widC	perties ell:nodes:widNode	Additional Properties Data sources Data sources (Version 4)			

- ____ 12. Create the required JNDI Data source
 - ___a. Click New
 - ____b. Enter the following:
 - a) Name: Cloudscape JDBC Driver XA DataSource for FTP
 - b) JNDI Name: jdbc/Cloudscape JDBC Driver XA DataSource for FTP
 - c) Database name: FTPDATABASE

___ c. Click **OK**

ab	Cloudscape JDBC Driver XA DataSource for FTP
~	Use this Data Source in container managed persistence (CMP)
es	ription
۷ew	JDBC Datasource
ate	aory
lati	i store helper class name
Θ	Select a data store helper class
	Data store helper classes provided by WebSphere Application Server
	Cloudscape data store belper
	(com.ibm.websphere.rsadapter.CloudscapeDataStoreHelper)
\sim	
2	specify a user-defined data store neiper
	Enter a package-qualified data store helper class name
om	ponent-managed authentication alias
iom Cor	ponent-managed authentication alias mponent-managed authentication alias
Con Con	ponent-managed authentication alias mponent-managed authentication alias one)
Cor Cor	ponent-managed authentication alias mponent-managed authentication alias one)
Cor (n	ponent-managed authentication alias mponent-managed authentication alias one)
Con (n (ut	ponent-managed authentication alias mponent-managed authentication alias one)
	ponent-managed authentication alias mponent-managed authentication alias one)
Con (n (n (n (n (n))	ponent-managed authentication alias <pre>mponent-managed authentication alias one) mentication alias for XA recovery Use component-managed authentication alias Specify:</pre>
Cor (n (n ⊙	ponent-managed authentication alias mponent-managed authentication alias one)
iom Cor (n (n	ponent-managed authentication alias mponent-managed authentication alias one)
iom Cor (n Auti	ponent-managed authentication alias mponent-managed authentication alias one)
	ponent-managed authentication alias mponent-managed authentication alias one)
Con (n tutt	ponent-managed authentication alias mponent-managed authentication alias one)
Con (n Nutti € Con efe (n	ponent-managed authentication alias mponent-managed authentication alias one)
Con Con Con Con Con Con Con Con	ponent-managed authentication alias mponent-managed authentication alias one) mentication alias for XA recovery Use component-managed authentication alias Specify: mentication tainer-managed authentication mentication settings instead) pring-configuration alias (deprecated in V6.0, use resource reference pentication settings instead)
Con Con Con Con Con Con Con Con	ponent-managed authentication alias mponent-managed authentication alias one)
on Cor (n Cor efe (n Via (n	ponent-managed authentication alias mponent-managed authentication alias one)

- _____ 13. Click on **Save** and then **Save** from the following screens
- _____14. Test the Data source connection
 - ____a. Check the box next to Cloudscape JDBC Driver XA DataSource for FTP and click on Test connection from the top of the screen

DBC pro	viders			2
<u>JDBC providers</u> > <u>Cloudscape JDBC Provider (XA) for FTP</u> > Data sources				
A data source is used by the application to access data from the database. A data source is created under a JDBC provid which supplies the specific JDBC driver implementation class.			ated under a JDBC provider,	
🕀 Pre	ferences			
New Delete Test connection Manage state				
Select	Name 🛟	JNDI name 🗘	Description 🗘	Category 🗘
	Cloudscape JDBC Driver XA DataSource for FTP	jdbc/Cloudscape JDBC Driver XA DataSource for FTP	New JDBC Datasource	
Total 1				

____b. You should see the following success message on the top of the screen:

ſ	Ξ	Messages
		Test connection for data source Cloudscape JDBC Driver XA DataSource for FTP on server server1 at node widNode was successful.

Part 4: Use Enterprise Service Discovery Wizard to Generate Business Objects and other Artifacts

- _____1. Launch the Enterprise Service Discovery wizard
 - ____a. Select File > New > Other....



_ b. From the New window, select Business Integration > Enterprise Service Discovery and click Next

🕕 New	×
Select a wizard Import an enterprise service from an EIS system	
<u>W</u> izards:	
Library Mediation Module Module Business Integration Business Object Business Object Map Business Process Business State Machine Custom Visual Snippet Decision Table Emulator Enterprise Data Discovery Human Task	
Show All Wizards.	$\langle \hat{c} \rangle$
< <u>Back</u> <u>Next</u> > Einish	Cancel

2. Select IBM WebSphere Adapter for FTP (version 6.0.1) from the 'CWYFT_FTPFile' Connector Project and click Next

🚯 Enterprise Service Discovery	×
Select an Enterprise Service Resource Adapter	
Select a resource adapter to use to discover a service.	
IBM WebSphere Adapter for FTP (version 6.0.2) from the 'CWYFT IBM WebSphere Service Registry and Repository WBI Adapter Artifact Importer	_FTPFile' Connector Project
	Import Resource Adapter
IBM WebSphere Adapter for FTP	<u></u>
< <u>B</u> ack <u>N</u> ext >	EinishCancel

____ 3. Configure settings for the Discovery agent

You will specify the properties to initialize the Resource Adapter and Enterprise Service Discovery agent

____a. Click on the **Browse...** button next to the **Folder Name** field and select the folder **FTPADAPTER_HOME>\samples** that contains the XSD file for **Customer** Business Object

Note: For your convenience, the Customer.xsd is also placed under <LAB_FILES>\FTPFiles.

- ____b. Select **Big5** from the drop down list for the **Character Set** field
- ____ c. Select **text/xml** for the **Content Type** field. Once the content type is selected, the **DataBinding Type** field will be automatically set to **XMLBOSerializerDataBinding**

____d. Click the **Show Advanced** >> button to see the Log file location and Logging level options for the discovery log and then click **Next** leaving the default log file location

🚯 Enterprise Service Disco	very	×		
Configure Settings for Discovery Agent				
Specify the properties to initia	alize the resource adapter and the enterprise service discovery agent.			
Connection Configuration —				
Folder Name:	C:\Program Files\IBM\ResourceAdapters\FTP\adapter\FTP\Samples	Browse		
Charater Set:	(Big5)			
Content Type:	(text/xml)			
DataBinding Type:	XMLBOSerializerDataBinding			
Specify BO Properties				
BiDi Properties				
🔲 Bidi transformatio	n			
Bidi ordering schema:	Implicit			
Text direction:	LTR			
🔽 BiDi SymmetricSw	apping			
Bidi shaping;				
Bidi numeric shaping;	Nominal			
Hide Advanced <<				
Logging options				
Log file output location:*	C:\Labfiles602\FTPInbound\workspace\.metadata\FTPFileMetadataDiscoveryImpl.log	Browse		
Logging Levely				
Logging Level.				
	< <u>B</u> ack <u>N</u> ext > <u>Finish</u>	Cancel		

- _____4. To Find and Discover the enterprise services, you will select the business objects and services to be used with the adapter
 - ____a. From the Enterprise Service Discovery window, click on **Execute Query** button. You will see a **Customer** business object under **Objects discovered by query**

____b. Select **Customer** business object and click **Add to import list** button. The Customer business object will now be displayed under the **Objects to be imported** area

🚯 Enterprise Service Discovery	×		
Find and Discover Enterprise Services			
To discover objects on the enterprise system, create a query by pressing "Edit Query" and the press "Execute Query". Once discovered, press "Add to import list" to specify the objects to be imported.	en EIS		
Query:			
< execute default query >	Edit Query		
Execute Query			
Objects discovered by query:			
·····(1) Customer	Filter		
	Clear Filter		
Add to import list	Details		
Objects to be imported:	Decalis		
	Remove 🗨		
< <u>B</u> ack <u>N</u> ext > <u>Finish</u>	Cancel		

___ c. Click Next

- 5. Configure the objects that will be imported by the discovery agent
 - ____a. From the Configure objects window, select **Inbound** from the dropdown list for the **Service Type** field

____b. Enter FTPInBO for the BO Location field and click Next

🚯 Enterprise Serv	ce Discovery			×
Configure Objects Specify the properti	es for the objects that will be imported by the discov	ery agent.	- All All All All All All All All All Al	
ServiceType:	Inbound		•	
Namespace: *	http://www.ibm.com/xmlns/prod/websphere/j2ca/f	tp		
Operations: Create Append Overwrite Delete Exists List Retrieve ExecuteFTPScript ServerToServerFile	Transfer			Add Remove
BO Location:	FTPInBO WBIFunctionSelector			
		< <u>B</u> ack <u>N</u> ext >	Einish	Cancel

6. Specify the properties for the artifacts that will be generated in your workspace

____a. Create a new module

1) Click on the New... button next to the Module field

2) From the New Integration Project window, ensure that the radio button next to **Create a** module project is selected and click **Next**

🚯 New Integration Project	×
Integration Project Select the type of integration project to create.	
 Create a module project. Create a mediation module project. 	
< <u>B</u> ack <u>N</u> ext > Einish	Cancel

3) Enter FTPInboundModule in the Module Name field and click Finish

🚯 New Module				
Module				
Create a new business integration module. A module is a project that is used for development, version management, organizing resources, and deploying to the runtime environment.				
Module Name FTPInboundModule				
Module Location				
Use default				
Directory; C:\LabFiles602\FTPOutbound\workspace\FTPInboun Browse				
☑ Open module assembly diagram Business integration modules can be deployed and run on WebSphere Process Server. They can contain many types of components, such as business processes, assembled together for the purpose of business integration.				
< <u>Back</u> <u>N</u> ext > <u>Finish</u> Cancel				

- ____b. The module which is created above will appear under the **Module** field of the Generate Artifacts window
- ____ c. From the Generate Artifacts window, select the radio button next to Use discovered connection properties. This will make the Activation Spec Properties and Resource Adapter Properties visible

- _____d. Enter the following for the **Event Persistence Properties** of the Activation Spec Properties:
 - 1) EPDataSourceJNDIName: jdbc/Cloudscape JDBC Driver XA DataSource for FTP
 - 2) Accept the default EPEventTableName: FTPTABLE

C Deploy connector with module					
Specify the connection properties which will be used to connect to the Enterprise Information System at runtime:					
O Use connection properties specified on server					
Use discovered connection properties					
J2C Authentication Data Entry:					
Activation Spec Properties					
BONamespace:		http://www.ibm.com/xmlns/prod/websphere/j2ca/ftp			
Delivery Mode and Polling Info					
DeliveryType:		ORDERED			
PollPeriod:	*	2000			
PollQuantity:	*	10			
RetryInterval:		60000			
Retry limit [Integer]:					
🔲 Stop polling on error [Boolean]					
Assured once delivery [Boolean]]				
🥅 Filter future events [Boolean]					
Event Type filter [String]:					
Event Persistence Properties					
EPDataSourceJNDIName:	*	jdbc/Cloudscape JDBC Driver XA DataSource for FTF			
EPEventTableName:	*	FTPTABLE			
EPDatabaseSchemaName:					
EPDatabaseUsername:					
EPDatabasePassword:					

____e. Enter the following for FTP Adapter Properties of Activation Spec Properties:

1) EventDirectory: ftp://<FTP Server IP Address>/<EventDir>

Note: EventDir is the event directory that you created on Step 2 of Part1

2) Username: <user> (username using which you connect to your FTP machine)

- 3) Password: cpassword> (password for the above user to connect to your FTP machine)
- 4) FTPArchiveDirectory: <ArchiveDir>

Note: ArchiveDir is the archive directory that you created on Step 2 of Part 1

5) FTPRenameExt: **processed**

- 6) LocalEventDirectory: <LOCAL_EVENT_DIR>
- 7) LocalArchiveDirectory: <LOCAL_ARCHIVE_DIR>

FTP Adapter Properties	
Event Directory:	* [ftp://localhost/EventDir
Event File Mask:	* *.*
Sort Event Files:	•
FTP Archive Directory:	(/home/ftpuser/ArchiveDir)
FTP Rename Extension:	processed
User Name:	root
Password:	******
FTP Get Quantity:	* 10
FTP Poll Frequency:	* 5
EIS Encoding:	×
Local Event Directory:	* C:\LabFiles602\FTPInbound\LocalEventDir
Local Archive Directory:	C:\LabFiles602\FTPInbound\LocalArchiveDir
Failed Archive Extension:	fail
Original Archive Extension:	original
Success Archive Extension:	success
Data Connection Mode:	active
File Transfer Type:	binary
Custom Parser Class Name:	

____f. Enter the following for the **Logging and Tracing** properties of the **ResourceAdapterProperties**:

1) LogFilename: C:\FTPRA\Inlog.txt

2) TraceFilename: C:\FTPRA\Intrace.txt

	CustomParserClassName:	
	FilePassByReference	
	SplittingFunctionClassName:	com.ibm.j2ca.utils.filesplit.SplitBySize
	SplitCriteria:	0
	FileContentEncoding:	
	SocksProxyHost:	
	SocksProxyPort:	1080
	SocksProxyUsername:	
	SocksProxyPassword:	
	FTPScriptFileExecutedBeforeInbound:	
	FTPScriptFileExecutedAfterInbound:	
	DefaultObjectName:	
	EventContentType:	
Resour	ceAdapterProperties	
Log	gging and Tracing	
	AdapterID: *	ResourceAdapter
	LogFileSize:	0
	LogFilename:	C:\FTPRA\Inlog.txt
	LogNumberOfFiles:	1
	TraceFileSize:	0
	TraceFilename:	C:\FTPRA\Intrace.txt
	TraceNumberOfFiles:	1
Eisl	Encoding:	

___ g. Click Finish

- ____7. Create a Java Component and wire it to FTPInboundInterface
 - ____a. Change to Business Integration perspective if not open

1) Select Window > Open Perspective > Other....

🚯 J2EE - IBM WebSphere Integration Developer						
<u>File E</u> dit <u>N</u> avigate Se <u>a</u> rch <u>P</u> roject <u>R</u> un	<u>W</u> indow <u>H</u> elp					
📬 • 🖫 👜 🎸 🖆 🏇 • 🕥	New Window	$\leftrightarrow \star \rightarrow \star$				
Project Explorer	Open Perspective 🔹 🔸 式	🌣 Debug				
	Show <u>V</u> iew 🕨 🏨	Java				
Enterprise Applications	Customize Perspective	,				
E - Connector Projects	Save Perspective <u>A</u> s	Other				

2) From the Select Perspective window, select Business Integration (default) and click OK

🤂 Select Perspective 🛛 🔀
Business Integration (default) Cobug Solution Java Java Java Browsing Java Type Hierarchy Resource
, ∑how all
OK Cancel

__ b. Expand FTPInboundModule and double-click FTPInboundModule to open it in the Assembly Editor



____ c. From the palette, click the **Component (with no implementation type)** icon, and select **Java** component from the context menu icon and then click in the Assembly Diagram's empty space to drop it there



- ____d. Wire the FTPInboundInterface to the Component1
 - 1) Select the wire icon from the palette

<u>r</u>	>
€⇒	>
\$	>
C)
Wi	re

2) Click on **FTPFileInboundInterface** and then click on **Component1** to wire them together

ASSEIL	ny piagram r rando			
2 *	TPFileIn	boundInterface	רל	
& > %				

3) Select **OK** for the Add Wire popup window



4) Click on the **Selection Tool** to get back to the normal cursor mode



____e. Right-click on Component1 and select Generate Implementation from the context menu

_____f. Click **OK** from the Generate Implementation window to accept the **default package**

🕭 Generate Implementation				
Select the package where the Java implementation will be generated:				

____ g. Component1Impl.java will be opened in Assembly editor. Scroll down to the method emitFTPFile(DataObject emitFTPFileInput) and emitFTPFile(DataObject emitCustomerWrapperInput) that needs to be implemented and add the code as shown below for each of those methods:



____h. Save (Ctrl + S) and close Component1Impl.java editor

- _____i. Save (Ctrl + S) and close Assembly diagram: FTPInboundModule
- 8. You can also configure/change the adapter properties using the Assembly Editor
 - ____a. Change to Business Integration perspective if you are in a different perspective
 - 1) Select Window > Open Perspective > Other....



2) From the Select Perspective window, select Business Integration (default) and click OK



b. Expand FTPInboundModule and double-click FTPInboundModule to open it in Assembly Editor

Í	🕼 Business Integration 🛛	-	• 🗆	🐨 Assembly	Diagram: FTPInboundModule 🗙
l		# 🗁 🖻 🕏	•	La la	
	🖃 🖅 FTPInboundModule				
	🗄 🖓 FTPInboundModule			<u>G1</u> >	
	🗄 🖽 Business Logic				

- __ c. Click on FTPFileInboundInterface from the Assembly Editor and select Properties tab from the bottom
- _____d. Select **Binding** under Properties and select **Endpoint Configuration** under Binding itself and then select the **Connection** tab
- _____e. Ensure the radio button next to **Specify properties for pre-configured new J2EE Connector Architecture recourse** is selected and then **c**lick on **Activation Spec Properties** to expand them. You can change these properties, which you entered using the Enterprise Service Discovery (ESD) wizard in the previous steps, and make sure that you save those changes before you deploy the application onto the server

Properties × Problem	ns Servers Console							
Description	Export: FTPFileInboundInterface	(EIS Binding)						
Details	Connection Resource Adapter							
Binding	Select configuration view option:							
End-point configuration	O Specify JNDI name for pre-configured	J2EE Connector Architecture resource						
Method bindings	Specify properties for configured balls Connector Architecture resource							
Security attributes								
Performance attributes								
	 ActivationSpec Properties 							
	ActivationSpec class name:	com.ibm.j2ca.htp.FTPFileActivationSpec						
	ActivationSpec Properties							
	BO Namespace: http://www.ibm.com/xmlns/prod/websphere/j2ca/ftp							
	Delivery Mode and Polling Information							
	Delivery Type:							
	Poll period [Int]:	* 2000						
	Poll quantity [Int]:	* 10						
	Retry interval [Integer]:	60000						
	Retry limit [Integer]:	0						
	Stop polling on error [Boolean]							
	Assured once delivery [Boolean]							
	Filter future events [Boolean]							
	Event Type filter [String]:							
	Event Persistence Properties							
	DataSource JNDI Name:	* jdbc/FTP <						
	Event Table Name:	* FTPTABLE						
	Database Schema Name:							
	Database User Name:							
	Database Password:							
	Create Table							

FTP Adapter Properties				
Event Directory:	*	ftp://localhost/EventDir		
Event File Mask:	*	*,*		
Sort Event Files:				-
FTP Archive Directory:		/home/ftpuser/ArchiveDir/	-	
FTP Rename Extension:		processed	-	
User Name:		root	-	
Password:		****		
FTP Get Quantity:	*	10		
FTP Poll Frequency:	*	5		
EIS Encoding:				-
Local Event Directory:	*	C:\LabFiles602\FTPInbound\LocalEventDir\	-	
Local Archive Directory:		C:\LabFiles602\FTPInbound\LocalArchiveDir\	-	
Failed Archive Extension:		fail		
Original Archive Extension:		original		
Success Archive Extension:		success		
Data Connection Mode:		active		
File Transfer Type:		binary		
Custom Parser Class Name:				
File Pass By Reference				
Include End BO Delimiter				
Splitting Function Class Name:		com.ibm.j2ca.utils.filesplit.SplitBySize		
Split Criteria:		0	-	
File Content Encoding:				
Socks Proxy Host:				
Socks Proxy Port:		1080		
Socks Proxy User Name:				
Socks Proxy Password:				
FTP Script File Executed Before Inboun	d:			
FTP Script File Executed After Inbound:	:			
Default Object Name:			 	
Event Content Type:				

____f. You can also select Resource Adapter tab and review/change those properties

Properties X Problem	ns Servers Console				
Description	Export: FTPFileInbound	dInterface (EIS Binding)			
Details	Connection Resource Adapter				
Binding	Resource adapter name:	FTPInboundApp.IBM WebSphere Adapter for FTP			
End-point configuration	Resource adapter class name:	com.ibm.j2ca.ftp.FTPFileResourceAdapter			
 Method bindings 	Resource Adapter Bean Propertie	25			
 Security attributes 	Logging and Tracing				
Performance attributes	Adapter ID [String]: *	ResourceAdapter			
	Log file size [Integer]:	0			
	Log file name [String]:	C:\FTPRA\Inlog.txt <			
	Log Files [Integer]:	1			
	Trace file size [Integer]:	0			
	Trace file name [String]:	C:\FTPRA\Intrace.txt			
	Trace files [Integer]:	1			
	EIS Encoding:	▼			

Part 5: Test Scenario: Simple PassThrough

In this part of the lab, you will use the WebSphere Process Server Test Environment to test the SCA application Inbound processing.

- _____1. Add the project to the WebSphere Process Server Test Environment
 - ____a. Right-click on WebSphere Process Server v6.0 under the server view and select Add and remove projects... from the context menu

Properties Problems 👫 Servers 🗙			
Server	Host name		Status
🛅 WebSphere ESB Server v6.0	localhost		
WebSphere Process Server v6.0	localhost	New	► I
		Open	
		Delete	
		🎋 Debug	
		🜔 Start	
		🔊 Profile	
		Restart	+
		📕 Stop	
		🔄 Disconnect	
		追 Publish	
		Monitoring	+
		浩 Add and remov	e projects

____ b. From the Add and Remove Projects window, select FTPInboundModuleApp under Available projects panel and click Add >

🚯 Add and Remove Projects		×
Add and Remove Projects		
Modify the projects that are config	ured on the server	
Move projects to the right to configu	ire them on the server	
<u>A</u> vailable projects:	<u>C</u> onfigured projects:	
E(FTPInboundApp	A <u>d</u> d >	

____ c. You will now see the FTPInboundModuleApp added to the Configured projects

🚯 Add and Remove Projects		×
Add and Remove Projects Modify the projects that are config	ured on the server	
Move projects to the right to configu	re them on the server	
<u>A</u> vailable projects:		Configured projects:
	A <u>d</u> d >	
	< <u>R</u> emove	
	Add All >>	
	<< Remove All	
	< <u>B</u> ack <u>N</u> ext >	EinishCancel

- _____d. Click **Finish**. Wait until the project is being published onto the server. The server will be started in Debug mode if it is not already started before
- ____2. Test the adapter application
 - _____a. On the machine where the FTP Server is running, put a test file in the **EventDir**. The file will be polled from the event directory on the FTP server and will be transferred to the local event directory. And from the local event directory, it will be moved to configured endpoint

For your convenience, a test file with the name SplitBySize.txt is placed under <LAB_FILES>

- ___ b. Check for the test file in <LOCAL_EVENT_DIR> folder on your local machine. The file quickly will be moved to local archive directory
- ____ c. Check the **ArchiveDir** of your FTP server which should contain the same file name appended with year, month, date, system time, and processed as was given while configuring ESD
- 3. Verify your results
 - ____a. Check your Test Environment console (or Systemout.log) for the following successful message:

ResourceAdapt A com.ibm.j2ca.extension.eventmanagement.internal.EventSender deliverEvent() CWYBS0505I: The event has been delivered. SystemOut 0 *****Reached End Point for PASS-THROUGH: FTP***** ____b. Check for the test file in **<LOCAL_ARCHIVE_DIR>** which should contain an archive of the event file, with the same file name appended with year, month, date, system time, and success

Address 🔁 C: \Labfiles602\FTPInbound \LocalArchiveDir						
Folders	×	Name 🔺	:	Size	Туре	Date Modified
🖃 🚞 Labfiles602	~	SplitBySize.txt_2006_09_01_09_42_44_018.success	36	KB	SUCCESS File	9/1/2006 10:05 AM

- _____4. Restore the Server Configuration
 - ____a. Right-click on WebSphere Process Server v6.0 under the Servers view and select Add and remove projects... from the context menu

Properties Problems 👫 Servers 🗙			
Server	Host name		Status
🛅 WebSphere ESB Server v6.0	localhost		
WebSphere Process Server v6.0	localhost	New	•
		Open	
		Delete	
		🐝 Debug	
		🜔 Start	
		🔊 Profile	
		Restart	•
		📕 Stop	
		N Disconnect	
		💷 Publish	
		Monitoring	•
		🏪 Add and remov	e projects

b. Select FTPInboundModuleApp under Configured projects and click < Remove

🚯 Add and Remove Projects		×
Add and Remove Projects		
Modify the projects that are confi	gured on the server	
Move projects to the right to config	ure them on the server	
<u>A</u> vailable projects:		Configured projects:
		표 🖷 FTPInboundApp
	A <u>d</u> d >	

- ____ c. Click **Finish** after you see the application moved to Available projects. Wait until the application is unpublished
- ____d. Right-click on **WebSphere Process Server v6.0** from the Servers view and select **Stop** from the context menu

Properties Problems 👫 Servers 🗙 Console				
Server	Host name	Status		State
🛅 WebSphere ESB Server v6.0	localhost			
webSphere Process Server v6.0	localhost	Started	New	
			Open	
			Delete	
			🐝 Debug	
			D Start	
			🔎 Profile	
			Restart	•
			🧮 Stop	

Part 6: Test Scenario: Simple Data Transformation (Non Pass-Through)

In this part of the lab, you will edit the Activation Spec Properties to see how a simple Data Transformation works for an Inbound operation.

- 1. Open the Activation Spec Properties from the Attributes View
 - ____a. Click on **FTPFileInboundInterface** from the Assembly Editor and select **Properties** tab from the bottom
 - ____ b. Select **Binding** under Properties and select **Endpoint Configuration** under Binding itself and then select the **Connection** tab
 - ____ c. Ensure the radio button next to Specify properties for pre-configured new J2EE Connector Architecture recourse is selected and then click on Activation Spec Properties to expand them and enter the following fields:
 - 1) FileContentEncoding: UTF-8 (or any other valid encoding)

Properties × Problems	s Servers Console	
Description	Export: FTPFileInboundInterface (EIS	Binding)
Details	Connection Resource Adapter	
Binding	DataSource INDI Name	idbe/ETD
End-point configuration	Event Table Name:	
Method bindinas	Database Schema Name:	
Security attributes	Database User Name:	
· Performance attributes	Database Password:	
	Create Table	
	ETP Adapter Properties	
	Event Directory:	ftp://localhost/EventDir
	Event File Mask; *	**
	Sort Event Files:	
	FTP Archive Directory:	/home/ftpuser/ArchiveDir/
	FTP Rename Extension:	processed
	User Name:	root
	Password:	*****
	FTP Get Quantity: *	10
	FTP Poll Frequency: *	5
	EIS Encoding:	•
	Local Event Directory: *	C:\LabFiles602\FTPInbound\LocalEventDir\
	Local Archive Directory:	C:\LabFiles602\FTPInbound\LocalArchiveDir\
	Failed Archive Extension:	fail
	Original Archive Extension:	original
	Success Archive Extension:	success
	Data Connection Mode:	active
	File Transfer Type:	binary
	Custom Parser Class Name:	
	File Pass By Reference	
	Include End BO Delimiter	
	Splitting Function Class Name:	com.ibm.j2ca.utils.filesplit.SplitBySize
	Split Criteria:	0
	File Content Encoding:	UTF-8
	Socks Proxy Host:	
	Socks Proxy Port:	1080
	Socks Proxy User Name:	
	Socks Proxy Password:	
	FTP Script File Executed Before Inbound:	
	FTP Script File Executed After Inbound:	
	Default Object Name:	
	Event Content Type:	text/xml

2) EventContentType: text/xml

____d. Save (Ctrl +S) your changes

- 2. Follow step 1 of Part 5 to add the modified **FTPInboundModuleApp** to the server
- ____3. Test the adapter
 - ____a. On the machine where the FTP Server is running, put a **SimpleDTF.xmI** file in the **EventDir**

Note: For your convenience, a **SimpleDTF.xml** file is placed in **<LAB_FILES>\FTPFiles**. The file has one Business Object.

____b. Check for the **SimpleDTF.xmI** file in **<LOCAL_EVENT_DIR>** folder on your local machine. The xml file will be quickly moved to the local archive directory

- ____ c. Check the **ArchiveDir** of your FTP server which should contain the same file name appended with year, month, date, system time, and processed as was given while configuring ESD
- _____4. Verify your results
 - ____a. Check your Test Environment console (or SystemOut.log file) for the following successful message:

ResourceAdapt A com.ibm.j2ca.extension.eventmanagement.internal.EventSender deliverEvent() CWYBS0505I: The event has been delivered. SystemOut 0 *****Reached End Point for NON PASS-THROUGH: CUSTOMER*****

_____b. Check your <LOCAL_ARCHIVE_DIR> which should contain an archive of the event file, with the same file name appended with year, month, date, system time, and success

Address 🗁 C:\Labfiles602\FTPInbound\LocalArchiveDir					
Folders	×	Name 🔺	Size	Туре	Date Modified
🗆 🧀 Labfiles602		SplitBySize.txt_2006_09_01_09_42_44_018.success	36 KB	SUCCESS File	9/1/2006 10:05 AM
🐨 🚞 EmailInbound	_	SimpleDTF.xml_2006_09_01_09_44_50_259.success	1 KB	SUCCESS File	9/1/2006 10:07 AM

5. Repeat step 4 of **Part 5**, to restore server configuration

Part 7: Test Scenario: SplitByDelimiter for Data Transformation

In this part of the lab, you will edit the Activation Spec Properties to see how **SplitByDelimiter** works with Data Transformation for an Inbound operation.

- 1. Open the Activation Spec Properties from the Attributes View
 - ____a. Click on **FTPFileInboundInterface** from the Assembly Editor and select **Properties** tab from the bottom
 - ____ b. Select **Binding** under Properties and select **Endpoint Configuration** under Binding itself and then select the **Connection** tab
 - _____ c. Ensure the radio button next to **Specify properties for pre-configured new J2EE Connector Architecture recourse** is selected and then **c**lick on **Activation Spec Properties** to expand them. You can change these properties that you entered using the Enterprise Service Discovery wizard in the previous steps and save those changes before you deploy the application onto the server
 - 1) SplittingFunctionClassName: com.ibm.j2ca.utils.filesplit.SplitByDelimiter
 - 2) SplitCriteria: #####
 - 3) EventContentType: text/xml

Properties × Problem	s Servers Console	
Description	Export: FTPFileInboundInterface (EIS	Binding)
Details	Connection Resource Adapter	
Binding	DataSource INDI Name: *	idbc/ETP
End-point configuration	Event Table Name:	ETPTABLE
Method bindings	Database Schema Name:	
Security attributes	Database User Name:	
Performance attributes	Database Password:	
	Create Table	
	FTP Adapter Properties	
	Event Directory: *	ftp://localhost/EventDir
	Event File Mask: *	**
	Sort Event Files:	▼
	FTP Archive Directory:	/home/ftpuser/ArchiveDir/
	FTP Rename Extension:	processed
	User Name:	root
	Password:	****
	FTP Get Quantity: *	10
	FTP Poll Frequency: *	5
	EIS Encoding:	· · · · · · · · · · · · · · · · · · ·
	Local Event Directory: *	C:\LabFiles602\FTPInbound\LocalEventDir\
	Local Archive Directory:	C:\LabFiles602\FTPInbound\LocalArchiveDir\
	Failed Archive Extension:	fail
	Original Archive Extension:	original
	Success Archive Extension:	success
	Data Connection Mode:	active
	File Transfer Type:	binary
	Custom Parser Class Name:	
	File Pass By Reference	
	Include End BO Delimiter	
	Splitting Function Class Name:	com.ibm.j2ca.utils.filesplit.SplitByDelimiter
	Split Criteria:	#####
	File Content Encoding:	
	Socks Proxy Host:	
	Socks Proxy Port:	1080
	Socks Proxy User Name:	
	Socks Proxy Password:	
	FTP Script File Executed Before Inbound:	
	FTP Script File Executed After Inbound:	
	Default Object Name:	
	Event Content Type:	text/xml

- ____ d. Save (Ctrl + S) your changes
- 2. Add the modified FTPInboundModuleApp as explained in Step 1 of Part 5
- ____ 3. Test the application
 - ____a. On the machine where the FTP Server is running, put a **SplitByDelimiter.xml** file in the **EventDir**

Note: For your convenience, a **SplitByDelimiter.xml** file is placed in **<LAB_FILES>\FTPFiles**. The file has two Business Objects separated by the delimiter **#####**.

____b. Check for the **SplitByDelimiter.xml** file in **<LOCAL_EVENT_DIR>** folder on your local machine. The xml file will be quickly moved to the local archive directory

- ____ c. Check the **ArchiveDir** of your FTP server which should contain the same file name appended with year, month, date, system time, and processed as was given while configuring ESD
- _____4. Verify your results
 - ____a. Check your Test Environment console (or Systemout.log file) for the following successful message:

```
ResourceAdapt A com.ibm.j2ca.extension.eventmanagement.internal.EventSender deliverEvent() CWYBS05051: The event has been delivered.
ResourceAdapt A com.ibm.j2ca.extension.eventmanagement.internal.EventSender deliverEvent() CWYBS05051: The event has been delivered.
SystemOut 0 *****Reached End Point for NON PASS-THROUGH: CUSTOMER*****
SvstemOut 0 *****Reached End Point for NON PASS-THROUGH: CUSTOMER*****
```

Note: You will see the successful event delivery message twice as there were two Business Objects present in the event file separated by the delimiter #####.

____b. Check your <LOCAL_ARCHIVE_DIR> which should contain an archive of the event file, with the same file name appended with year, month, date, system time, and success

Address 🛅 C:\Labfiles602\FTPInbound\LocalArchiveD	Dir				
Folders	×	Name 🔺	Size	Туре	Date Modified
🗆 🦳 Labfiles602		GimpleDTF.xml_2006_09_01_09_44_50_259.success	1 KB	SUCCESS File	9/1/2006 10:07 AM
EmailInbound		SplitByDelimiter.xml_2006_09_01_11_49_04_658.success	1 KB	SUCCESS File	9/1/2006 12:11 PM
FFInbound		SplitBySize.txt_2006_09_01_11_57_04_138.success	36 KB	SUCCESS File	9/1/2006 12:19 PM

____ 5. Repeat step 4 of **Part 5**, to restore server configuration

Part 8: Test Scenario: SplitBySize for Pass Through

In this part <u>of the lab,</u> you will edit the Activation Spec Properties to see how SplitBySize works for an Inbound operation.

- _____6. Open the Activation Spec Properties from the Attributes View
 - ____a. Click on **FTPFileInboundInterface** from the Assembly Editor and select **Properties** tab from the bottom.
 - ____ b. Select **Binding** under Properties and select **Endpoint Configuration** under Binding itself and then select the **Connection** tab
 - ____ c. Ensure the radio button next to Specify properties for pre-configured new J2EE Connector Architecture recourse is selected and then click on Activation Spec Properties to expand it and enter the following fields:
 - 1) SplittingFunctionClassName: com.ibm.j2ca.utils.filesplit.SplitBySize
 - 2) SplitCriteria: 10000
 - 3) Make sure that you delete any values you have for **FileContentEncoding** and **EventContentType** fields.

Properties X Problem	ns Servers Console	
Description	Export: FTPFileInboundInterface (EIS	Binding)
Details	Connection Resource Adapter	
Binding	DataSource INDI Name: *	idbe/ETP
End-point configuration	Event Table Name: *	
Method bindinas	Database Schema Name	
Security attributes	Database User Name:	
· Performance attributes	Database Password:	
	ETP Adapter Properties	
	Event Directory:	ftp://localbost/EventDir
	Event File Mask: *	**
	Sort Event Files	
	ETB Orchive Directory	/bome/ftpuser/ArchiveDir/
	ETP Dename Extension	
	Licer Name	root
	Bassword:	*******
	FTP Get Quantity: *	10
	FTP Poll Frequency:	5
	FIS Encoding:	
	Local Event Directory	C()) abEiler602)ETDIabourd() oralEventDiv)
	Local Archive Directory	(C)(abiles602)(TPInbound)(ocal@ventoir;
	Eailed Archive Extension:	Fail
	Original Archive Extension:	
		success
	Data Connection Mode:	active
	File Transfer Type:	binary
	Custom Parser Class Name:	
	File Pass By Reference	
	Include End BO Delimiter	
	Splitting Euption Class Name	com ibm 12ca utils filesplit SplitBuSize
	Split Criteria:	
	File Content Encoding:	
	Socks Proxy Host	
	Socks Proxy Port:	1080
	Socks Proxy User Name:	
	Socks Proxy Password:	
	FTP Script File Executed Before Inbound:	
	FTP Script File Executed After Inbound:	
	Default Object Name:	
	Event Content Type:	

____ d. Save (Ctrl +S) your changes

- _____7. Follow step 1 of **Part 5** to add the modified FTPInboundModuleApp to the server
 - ____ 8. Test the adapter

Note: For your convenience, a test file **SplitBySize.txt** is placed in **<LAB_FILES>**. Note the size of the file.

- ____a. On the machine where the FTP Server is running, put a **SplitBySize.txt** file in the **EventDir**
- ____b. Check for the **SplitBySize.txt** file in **<LOCAL_EVENT_DIR>** folder on your local machine. The text file will be quickly moved to the local archive directory

- ____ c. Check the **ArchiveDir** of your FTP server which should contain the same file name appended with year, month, date, system time, and processed as was given while configuring ESD
- ____9. Verify your results
 - ____a. Check your test environment console (or Systemout.log file) for the following successful message:

Note: You will see the successful event delivery message for four times as the file size is 37KB and the split criteria has 10KB, which means it splits the file into four part and delivers to the endpoint.

ResourceAdapt	A com.ibm.j2ca.extension.eventmanagement.internal.EventSender deliverEvent	() CWYBS0505I: The event has been delivered.
ResourceAdapt	A com.ibm.j2ca.extension.eventmanagement.internal.EventSender deliverEvent	() CWYBS0505I: The event has been delivered.
SystemOut	O *****Reached End Point for PASS-THROUGH: FTP*****	
SystemOut	O *****Reached End Point for PASS-THROUGH: FTP*****	
ResourceAdapt	A com.ibm.j2ca.extension.eventmanagement.internal.EventSender deliverEvent	() CWYBS0505I: The event has been delivered.
SystemOut	O *****Reached End Point for PASS-THROUGH: FTP*****	
ResourceAdapt	A com.ibm.j2ca.extension.eventmanagement.internal.EventSender deliverEvent	() CWYBS0505I: The event has been delivered.
SystemOut	O *****Reached End Point for PASS-THROUGH: FTP*****	

Note: The same SplitBySize.txt file was delivered as one event file to the end point when you did not specify the SplitCriteria in part 5 while configuring ESD. Here, in this part, you will see the successful event delivery message for four times for the same file (with the file size being 36KB) because of the split criteria that has been given as 10KB, which means it splits the file into four part and delivers to the endpoint.

____b. Check your <LOCAL_ARCHIVE_DIR> which should contain an archive of the event file, with the same file name appended with year, month, date, system time, and success

Address 🛅 C:\Labfiles602\FTPInbound\LocalArchiveDir					
Folders	×	Name 🔺	Size	Туре	Date Modified
🗆 🦳 Labfiles602		BimpleDTF.xml_2006_09_01_09_44_50_259.success	1 KB	SUCCESS File	9/1/2006 10:07 AM
🕀 🦳 EmailInbound	-	BplitByDelimiter.xml_2006_09_01_11_49_04_658.success	1 KB	SUCCESS File	9/1/2006 12:11 PM
FFInbound		BplitBySize.txt_2006_09_01_11_57_04_138.success	36 KB	SUCCESS File	9/1/2006 12:19 PM
🗉 🧰 FlatFileInbound		BplitBySize.txt_2006_09_01_11_58_32_965.success	36 KB	SUCCESS File	9/1/2006 12:21 PM

10. Repeat step 4 of **Part 5**, to restore server configuration.

What you did in this exercise

In this lab, you created the database in Cloudscape required for this lab. You continued with importing the FTP Adapter RAR file into your WebSphere Integration Developer workspace. Then, used your WebSphere Process Server administrative console and configured it to create Data source required to complete this lab.

You made use of Enterprise Service Wizard available in WebSphere Integration Developer to specify Activation Spec Properties and Resource Adapter Properties which, after deploying onto the server will generate Business Objects and other artifacts.

In the end you deployed and then tested the adapter application for two pass-through test scenarios – simple pass through and split by size and two data transformation test scenarios – simple data transformation and split by delimiter.