IBM WebSphere Partner Gateway V6.1– Lab exercise

# **SOAP** with attachments

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## What this exercise is about

WebSphere Partner Gateway V6.1 supports SOAP with Attachments. This document describes how to configure WebSphere Partner Gateway to accept a SOAP request which has attachments.

## Lab requirements

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

- WebSphere Partner Gateway V6.1 software installed (This includes the DB loader and the runtime servers). For the Lab it is assumed that WebSphere Partner Gateway V6.1 Simple Mode is installed.
- The sample Web Service shipped with Lab is to be installed on an application server. For the Lab, you install the sample Web Service application on the same application server that hosts WebSphere Partner Gateway applications.

#### What you should be able to do

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

• Configure WebSphere Partner Gateway to be able to accept a SOAP request with attachments and pass it to the installed Web Service

#### Lab files

The following files are shipped for this exercise

- DWS3\_1.1.ear This is the sample Web Service enterprise application
- dws3\_req.txt This is the sample SOAP Request with an attachment using binary encoding
- DocumentService3.wsdl The WSDL for the sample Web Service.
- GenericSOAPClient2.class This is the test client which can be used to send the SOAP w/attachment request to WebSphere Partner Gateway.

# **Background and introduction**

The earlier versions of WebSphere Partner Gateway (V6.0 and earlier) had support for Web Services as pass through. WebSphere Partner Gateway V6.0 and earlier had the ability to send and receive SOAP messages from community participants over HTTP.

With WebSphere Partner Gateway V6.1, this feature is enhanced. WebSphere Partner Gateway V6.1 has the support for SOAP requests **with attachments** with pass through action. This is based on the SOAP with attachment specification 1.1.

Further, with this feature it is also possible to support large files as the attachments can be huge.

WebSphere Partner Gateway V6.1 can receive a SOAP request with attachments from a community Participant (External Partner) and send this request to a Web Service hosted by WebSphere Partner Gateway backend (Internal Partner).

Similarly, WebSphere Partner Gateway V6.1 can receive a SOAP request with attachments from the backend (Internal Partner) and send this request to a Web Service hosted by a community Participant (External Partner).

### About the scenario

WebSphere Partner Gateway backend hosts the sample Web Service. The Web service is called "DocumentService". The Web service accepts SOAP with attachment requests and adds the attachment to the local file system.

In the Lab exercise, you will do a scenario in which a community Participant (External Partner) sends SOAP with Attachment Request to WebSphere Partner Gateway.

WebSphere Partner Gateway will "pass through" this request to the backend which hosts the Web service.

# **Exercise instructions**

Some instructions in this lab may be Windows<sup>®</sup> 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	Linux <sup>®</sup> location	Used in this lab
<wpg_home></wpg_home>	C:\IBM\WPG61	/opt/IBM/WPG61	C:\IBM\WPG61
<lab_files></lab_files>	C:\WPG61Labfiles\SOAPwA	/tmp/WPG61Labfiles	C:\WPG61Labfiles
<temp></temp>	C:\temp	/tmp	C:\temp
<host_name></host_name>	localhost	localhost	localhost
<port></port>	58080	58080	58080
<was_port></was_port>	58090	58090	58090
<wpg61labfiles></wpg61labfiles>	C:\WPG61LabFiles		C:\WPG61LabFiles

#### Part 1: Installing document service Web service on an application server

**Note:** In this exercise it is assumed that you are installing the Web service on the same server which hosts the WebSphere Partner Gateway applications. You can also install the Web service on another application server as well.

- 1. Start the WebSphere Partner gateway profile
  - \_\_\_\_a. Open the command window. From start menu, click **Programs → Accessories → Command Prompt**
  - \_\_\_\_b. In the Command Window, run the following commands to create the application tables:
    - Change directory to C:\IBM\WPG61\wpghubsimple\bin
    - Run the command, bcgStartServer.bat

C:\WINDOWS\system32\cmd.exe Microsoft Windows [Uersion 5.2.3790] (C) Copyright 1985-2003 Microsoft Corp. C:\Documents and Settings\bcguser>cd C:\IBM\WPG61\wpghubsimple\bin C:\IBM\WPG61\wpghubsimple\bin>bcgStartServer.bat Starting server server1 in profile bcgprofile1 ADMU0116I: Tool information is being logged in file C:\IBM\WPG61\wpghubsimple\wasND\Profiles\bcgprofile1\logs rtServer.log ADMU0128I: Starting tool with the bcgprofile1 profile ADMU3100I: Reading configuration for server: server1 ADMU3200I: Server launched. Waiting for initialization status. ADMU3000I: Server server1 open for e-business; process id is 172 C:\IBM\WPG61\wpghubsimple\bin>

- 2. Install the supplied **DWS3\_1.1.ear** by following the steps. The EAR file is located on 
  WPG61Labfiles>\SOAPwA\DWS3\_1.1.ear
- 3. Login to the administration console
  - \_\_\_\_a. Open the following WebSphere Application Server Administrative Console URL from the Web browser once the server has started:

http://localhost:58090/ibm/console

Note: Replace localhost: 58090 with your <host> :< WAS\_Port> if needed

- \_\_\_\_b. Enter an anonymous **User Id** for example; **bcgadmin**
- \_\_\_ c. Click Log in
- 4. Locate the application installation wizard in the administrative console
  - \_\_\_\_a. Expand Applications in the left navigation menu
  - \_\_\_\_b. Click Install New Application
  - 5. Install the **DWS3\_1.1.ear** using the application installation wizard

- \_\_\_\_a. Select the radio button next to Local file system and click the Browse button for Full path to select
- \_\_\_\_b. In the following "Step1: Select installation options" screen, select the check box next to "Deploy Web services. Click Next
- \_\_\_\_ c. Accept the defaults for the following "Step 2: Map modules to servers" screen. Click Next
- \_\_\_\_\_d. Accept the defaults for the following "Step 3: Map virtual hosts for Web modules" screen. Click Next
- \_\_\_\_e. Review the "Step 4: Summary" screen. Click Finish
- \_\_\_\_\_f. Wait for the message shown below to appear, indicating that the application installation finished and successful

Application DocumentWebProject3EAR installed successfully.

To start the application, first save changes to the master configuration.

Changes have been made to your local configuration. You can:

- <u>Save</u> directly to the master configuration.
- Review changes before saving or discarding.
- \_\_\_\_g. Click the Save link
- \_\_ 6. Start the application
  - \_\_\_\_a. In the left navigation menu of the administrative console, expand **Applications** and click over the **Enterprise Applications** link
  - b. Start the application by selecting the check box next to **DocumentWebProject3EAR** as shown below:

Start Stop Install Uninstall Update Rollout Update Remove File Export Export DDL			
Select	Name 💠	Application Status ሷ	
	BCGBPE	\$	
	BCGConsole_	<b>⇒</b>	
	BCGDocMgr	<b>÷</b>	
	BCGReceiver	÷	
□ DefaultApplication ↔			
	DocumentWebProject3EAR_	*	
Total 9			

\_\_\_\_ c. Click the Start button

\_\_\_\_d. Wait for the successful message shown below to appear, indicating that startup has completed

Messages
Application DocumentWebProject3EAR on server server1 and node bcgnode1 started successfully.

\_\_\_\_e. Logout and Close the Administrative console

\_\_\_\_7. Test if the Web Service has been deployed correctly

\_\_\_\_a. From the Web browser, type the following URL:

http://localhost:58080/DocumentWebProject/services/DocumentService3SOAP

**Note:** Replace localhost: 58080 with your <host> :< WAS\_Port> if needed.

\_\_\_\_b. You should see the following message displayed on the Web browser:

Address 💩 http://localhost:58080/DocumentWebProject/services/DocumentService350AP

# {http://tempuri.org/DocumentService3/}DocumentService3SOAP

Hi there, this is a Web service!

#### Part 2: Importing the WSDL file into WebSphere Partner Gateway

Now that you had installed the sample Web Service, you need to configure Partner Gateway (WPG) for the same. The first step is to import the WSDL for the sample Web Service into WebSphere Partner Gateway.

- Edit the supplied DocumentService3.wsdl for your host name. Check for soap:address location element in the file and change the host name (from "localhost") to the host name you have for your system.
  - \_\_\_\_ a. Launch a Web browser and login to the WebSphere Partner Gateway console, using the following URL:

http://localhost:58080/console

- \_\_\_\_b. Enter the following credentials:
  - User Name : hubadmin
  - Password : hub1admin
  - Company Login Name : Operator

Hear Nama	
bubadmin	_
Inggagunin	
Password	
Company Login Name	_
Operator	
<b>Language</b> English (United States)	
(Login)	

\_\_\_\_ c. Click the **Login** button

Note: If prompted for Password change, provide a new password of your choice.

- \_\_\_ 2. Upload the **DocumentService3.wsdl** file
  - \_\_\_\_a. Navigate to the Manage Document Definition screen from Hub Admin → Hub Configuration → Document Definition

Account Admin   Viewers   Tools	7 Hub Admin	RosettaNet Partner Simulator   System Administration	I Wizards
Hub Configuration   Console Con	figuration		
Event Codes   Receivers   Document Definition   XML Formats   Actions   Fixed Workflow   Handlers   Maps   EDI   ebMS			

- \_\_\_\_b. Click the Upload/Download Packages link
- \_\_\_\_ c. In the following Upload/Download Packages screen, select "WSDL or Zip" for the Package Type from the drop down list

#### Upload/Download Packages



- \_\_\_\_\_d. Click the **Submit** button
- \_\_\_\_e. In the following **Upload/Download Packages** screen, enter the following information:
  - Select the radio button next to Yes for WSDL Package
  - File : <WPG61Labfiles>\SOAPwA\DocumentService3.wsdl
  - Web Service Public URL : <u>http://localhost:58080/bcgreceiver/Receiver</u>

(Note that this URL points to the WebSphere Partner Gateway HTTP receiver (created later in this lab) and is used when exporting (downloading) the WSDL from WebSphere Partner Gateway for consumption by external partners invoking the Web services through the hub. In this lab, you do not export the WSDL file for the external partner, because in the test using the simple Java client, GenericSOAPClient2.java, you will pass this URL as an input. This is done later in the Part 7, running the scenario.

• Select the radio button next to Yes for Commit to database

#### Upload/Download Packages

Provide valid xml document in 'zip' format or valid 'wsdl' file for Upload



- \_\_\_\_f. Click the **Upload** button
- \_\_\_\_g. The following successful message must appear on a successful upload:

Messages:
NOTE: To enable this web service you will need to create a 🛛 🔺
Destination for this URL (the web service provider endpoint), through the 👘 🦷
management console, and set up Partner Connections with it as the
destination: 'http://localhost:58080/DocumentWebProject/services/DocumentServic
e3SOAP'
Upload successful. No warnings. Data committed.

**Note:** To enable this Web service you will need to create a Destination for this URL (the Web service provider endpoint contained in the WSDL file), through the management console, and set up Partner Connections with it as the destination: 'http://localhost:58080/DocumentWebProject/services/DocumentService3SOAP'.

#### Part 3: Creating participants, destinations and receiver

In this section you will create the participants and their respective destinations. You will also create an HTTP Receiver which will accept the SOAP with attachment requests.

#### Create Partners

#### \_\_\_\_1. Create an Internal Partner

\_\_\_\_a. Navigate to Partner Search screen. Account Admin → Profiles → Partner

Account Admin	Viewers I Tools I Hub Admin I RosettaNet Partner Simulator I System Administration	I Wizards
Profiles   Connectio	ons   Alerts   Exclusion List	
Partner   Destinatio	ns   B2B Capabilities   Certificates   Users   Groups   Contacts   Addresses	

- \_\_\_\_b. Click the **Create** link on the **Partner Search** screen
- \_\_\_\_ c. In the following Profile > New Partner screen, enter the following information :
  - Company Login Name : Manager
  - Partner Display Name : Manager
  - Partner Type : Internal Partner (Select from the dropdown list)

Profile > New Partner

🎯 Company Login Name	Manager *
Partner Display Name	Manager *
Partner Type	Internal Partner 💌 *
Admin User Name	
Status	$oldsymbol{\circ}$ Enabled $oldsymbol{O}$ Disabled
Vendor Type	Select a vendor type 💌
Web Site	
Business ID	
Type Identifier	r Remove

- \_\_\_\_ d. Click the **New** button under the Business ID section to add an Identifier and enter the following information:
  - Type : DUNS (Select from the drop down list)
  - Identifier : 987654321

Business ID			
Туре	Identifier	Remove	
DUNS 💌	987654321		
[New]			

- \_\_\_\_e. Click the **New** button to add another Identifier
  - Type : Freeform (Select from the drop down list)
  - Identifier : 01-987654321

Business ID			
Туре	Identifier	Remove	
DUNS 💌	987654321		
Freeform 💌	01-987654321		
New			

\_\_\_\_\_f. The final **Profile > New Partner** screen looks like as show below:

Profile > New Partner					
8	Company Log	in Name	Manager	*	
	Partner Displa	iy Name	Manager		*
	Partr	ner Type	Internal Parl	iner 💌 *	
	Admin Use	er Name			
		Status	⊙ Enabled	${f O}$ Disabled	
	Vend	lor Type	Select a ver	ndor type 💌	
	v	Veb Site			
Bu	usiness ID				
	Туре	Ι	dentifier	Rem	iove
	DUNS 💌	9876543	21		
	Freeform 💌	01-9876	54321		
	New				

- \_\_\_\_ g. Click the Save button at the bottom of the Profile > New Partner screen
- 2. Create an External partner

#### \_\_\_\_a. Navigate to Partner Search screen. Account Admin → Profiles → Partner

 Y Account Admin
 Viewers | Tools | Hub Admin | RosettaNet Partner Simulator | System Administration | Wizards

 Profiles
 Connections | Alerts | Exclusion List

 Partner
 Destinations | B2B Capabilities | Certificates | Users | Groups | Contacts | Addresses

- \_\_\_\_b. Click the Create link on the Partner Search screen
- \_\_\_\_ c. In the following **Profile > New Partner** screen, enter the following information :
  - Company Login Name : Partner
  - Partner Display Name : Partner
  - Partner Type : External Partner (Select from the dropdown list)

#### Profile New Partner

Company Login Name	Partner *
Partner Display Name	Partner *
Partner Type	External Partner 💌 *
Admin User Name	
Status	$\odot$ Enabled $\odot$ Disabled
Vendor Type	Select a vendor type 💌
Web Site	
Business ID	
Type Identifie	r Remove

- \_\_\_\_ d. Click the **New** button under the Business ID section to add an Identifier and enter the following information:
  - Type : **DUNS** (Select from the drop down list)
  - Identifier : 123456789



- \_\_\_\_e. Click the New button to add another Identifier
  - Type : Freeform (Select from the drop down list)
  - Identifier : **01-987654321**



\_\_\_\_\_f. The final **Profile > New Partner** screen looks like as show below:

Profile • New Partner					
ø	Company Log Partner Displa Partr Admin Use	in Name ay Name ner Type er Name Status	Partner * Partner * External Partner * External O Disabled		
Vendor Type Web Site			Select a ver	ndor type 💌	
В	usiness ID				
	Type I			Remove	
	DUNS 🔽 1234567				
Freeform  O1-1234		6789			

\_\_\_\_g. Click the **Save** button at the bottom of the **Profile > New Partner** screen

Note: Remember the Business IDs in the above. These IDs will be used when running the scenario.

#### **Create Destinations**

You will need to create the Destinations for both the partners that you created above. For the scenario, when a Partner makes a Web Service request, the Web service is hosted by WebSphere Partner Gateway backend

- \_\_\_\_1. Create a **HTTP destination** for the Internal Partner (the HTTP destination points to the hosted Web service)
  - \_ a. Navigate to Partner Search screen, Account Admin  $\rightarrow$  Profiles  $\rightarrow$  Partner
  - \_\_\_\_b. Accept the defaults and click the **Search** button
  - \_\_ c. Click the ( ) icon next to Manager (Internal Partner). You are directed to the Profile > Manager screen

	Partner	Vame Pa	rtner Type	Status
Þ	Hub Operator	Hub Administrator	Enabled	I
- ( <sub>D</sub>	Manager	Internal Partner	Enabled	
Þ	Partner	External Partner	Enabled	X

- \_\_\_\_\_d. While the Profile > Manager screen is selected, navigate to Destination List page. Account Admin → Profiles → Destinations
- \_\_\_\_e. In the following **Profile > Manager > Destination** List screen, click the **Create** link

## Profile > Manager > Destination List Welcome, Hub Administrator

• Create • Forward Proxy Support • Global Transport Attributes• Manage Transport Types • View Default Destinations • Help

- \_\_\_\_\_f. In the following **Profile > Manager > Destination Details** screen, enter the following information:
  - Destination Name : webservice\_destination
  - Status : Enabled (select the radio button)
  - Online/Offline : **Online** (select the radio button)
  - Description : Document Service Definition
  - Transport : HTTP/1.1 (select from the drop down list)
  - Destination Configuration : User default forward proxy (select from the drop down list)
  - Address :
     <u>http://localhost:58080/DocumentWebProject/services/DocumentService3SOAP</u>
  - Accept the defaults for the remaining entries

Profile , Manager , Destination Details

Destination Name	webservice_destination *	
Status	⊙ Enabled ⊂ Disabled	
Online/Offline	⊙ Online ⊂ Offline	
Description	Document Service Defenition	
Transport	HTTP/1.1	
Destination Configuration		
Forward Proxy List	Use default forward proxy 💌	
Address	8080/DocumentWebProject/services/DocumentService3SOAP **	**
User Name		
Password		
Retry Count	3	
Retry Interval	300 seconds	
Number of Threads	3 💌	
Number of Threads Validate Client IP	3 ▼ ⊙ No C Yes	
Number of Threads Validate Client IP Auto Queue	3 V No C Yes No C Yes	

- \_\_\_\_g. Click the Save button
- 2. Set the HTTP destination for the Internal Partner you created as the default destination
  - \_\_\_\_a. Navigate to **Destination List** page. Account Admin  $\rightarrow$  Profiles  $\rightarrow$  Destinations

# Profile • Manager • Destination List Welcome, Hub Administrator • Create • Forward Proxy Support • Global Transport Attributes • Manage Transport Types View Default Destinations

#### \_\_\_\_b. Click "View Default Definitions" link

- \_\_\_ c. In the following Profile > Manager > Default Destination List screen, select the following entries:
  - Production : webservice\_destination (select from the drop down list)
  - Test : webservice\_destination (select from the drop down list)

Operation Mode		<b>Current Default Destination</b>
	Production	webservice_destination 💌
	Test	webservice_destination 💌
RN Simulator External Partner		No Destination selected 💌
RN Simulator Internal Partner		No Destination selected 💌

#### Profile , Manager , Default Destination List

- \_\_\_\_ d. Click the Save button
- \_\_ 3. Similarly, Create a File Directory destination for the External Partner
  - \_\_\_\_a. Navigate to Partner Search screen, Account Admin  $\rightarrow$  Profiles  $\rightarrow$  Partner
  - \_\_\_\_b. Accept the defaults and click the **Search** button

		Partner Name	Pa	rtner Type	Status	
	Þ	Hub Operator	Hub Administrator	E	nabled	
	P	Manager	Internal Partner	E	nabled	
_ (	Þ	Partner	External Partner	E	nabled 🛛 🗙	٢

\_\_ d. While the **Profile > Manager** screen is selected, navigate to **Destination List** page. Account Admin → Profiles → Destinations

Profile, Partner, Destination List	Welcome, Hub Administrator

Create
 Forward Proxy Support Global Transport Attributes Manage Transport Types View Default Destinations

\_\_\_\_e. In the following **Profile > Partner > Destination Details** screen, enter the following information:

- Destination Name : WS\_FileGW
- Status : Enabled (select the radio button)

- Online/Offline : **Online** (select the radio button)
- Transport : File Directory
- Address : <u>file:///temp/WS\_FIleGW</u>
- Accept the default for the remaining entries

Destination Name	WS_FileGW *
Status	⊙ Enabled ⊂ Disabled
Online/Offline	⊙ Online ⊂ Offline
Description	
(	
Transport	
Destination Configuration	
Address	file:///temp/WS_FileGW
Retry Count	3
Retry Interval	300 seconds
Number of Threads	3 💌
Validate Client IP	⊙ No C Yes
Auto Queue	O No O Yes
Use Unique File Name	
f. Click the <b>Save button</b>	
4. Set the File Directory destination	n for the External Partner you created as the default destination
a. Navigate to <b>Destination List</b> p	Dage. Account Admin -> Promes -> Destinations
Profile • Partner • Destination List	Welcome, Hub Administrator
• Create • Forward Proxy Support • Global Tra	ansport Attributes • Manage Transport Types (• View Default Destinations
b. Click "View Default Definition	1s" link

\_\_\_\_ c. In the following **Profile > Partner > Default Destination List** screen, select the following entries:

- Production : **WS\_FileGW** (select from the drop down list)
- Test : **WS\_FileGW** (select from the drop down list)

Operation Mode		Current Default Destination
	Production	WS_FileGW
	Test	WS_FileGW
RN Simulator External Partner		No Destination selected 💌
<b>RN Simulator Internal Partner</b>		No Destination selected 💌
		Save Cancel

#### Profile > Partner > Default Destination List

#### \_\_\_\_ d. Click the Save button

#### **Create HTTP Receiver**

\_\_\_\_1. Create a HTTP Receiver

#### \_\_\_\_a. Navigate to Hub Admin → Hub Configuration → Receivers

Account Admin   Viewers   Tools	7 Hub Admin	RosettaNet Partner Simulator   System Administration   Wizards				
Hub Configuration   Console Configuration						
Event Codes   Receivers   Docur	nent Definition	I XML Formats   Actions   Fixed Workflow   Handlers   Maps   EDI   ebMS				

- \_\_\_\_b. In the following Receiver List screen, click the Create Receiver link
- \_\_\_\_ c. In the following **Receiver Details** screen, enter the following information:
  - Receiver Name : http\_rcvr
  - Transport : HTTP/S
  - Operation Mode : **Production**
  - URI : /bcgreceiver/Receiver
  - Configuration Point Handlers : **Sync Check**

R	leceiver Name	http_rcvr2 *	
_	Status	• Enabled O Disabled	
	Description		<u>^</u>
	Transport	HTTP/S 💽 *	
Receiver Cor	nfiguration		
	Operation Mode:	Production 💌 * Nev	v Edit
	URI:	/bcgreceiver/Receiver	* **
	Sync Routing:	Global Http/S Transport Attributes	
		Maximum Synchronous Timeout (Seconds)	300
		Max Sync Sim Conn	100
Handlers			

**Note:** The Web Service is a synchronous scenario. For this, set the SOAP Sync Check Handler for this receiver.

\_\_\_\_\_d. The Web Service is a synchronous scenario. For this, set the SOAP Sync Check Handler for this receiver. From the **Configuration Point Handlers**, select "**syncCheck**" and from the Available list of handlers, select **SoapSyncHdIr** handler and add that to the configured list, as shown below:

Handlers		
Configuration Point Handlers: Sync Check		
Handler Selection		
Available List Selected handler: com.ibm.bcg.server.sync.SoapSyncHdlr	Configured List Selected handler:	
com.ibm.bcg.server.sync.As2SyncHdlr com.ibm.bcg.server.sync.CxmlSyncHdlr com.ibm.bcg.server.sync.RnifSyncHdlr com.ibm.bcg.server.sync.DefaultAsynchronousSyncCheckHandler com.ibm.bcg.server.sync.DefaultSynchronousSyncCheckHandler com.ibm.bcg.server.sync.EBMSSyncCheckHandler com.ibm.bcg.server.sync.SoapSyncHdlr	Remove View Details	Move Up Move Down Configure

\_\_\_\_e. Click the Save button

# Part 4: Create interactions and enabling business-to-business capabilities

Next step is to enable the partner's business-to-business capabilities and create interactions.

#### Enable business-to-business Capabilities for the Internal and External Partners

	i di citor i idilito		archer rype	otatus		
P	Hub Operator	Hub Administrator	-	Enabled		
P	Manager	Internal Partner		Enabled		
Þ	Partner	External Partner		Enabled	x	

#### \_\_\_\_\_ d. While the **Profile > Manager** screen is selected, navigate to **Account Admin → Profiles →** B2B Capabilities to enable the document flow definitions

Account Admin Viewers   Tools   Hub Admin   RosettaNet Partner Simulator   System Administration   Wizards	I									
Profiles   Connections   Alerts   Exclusion List										
Partner   Destinations   B2B Capabilities   Certificates   Users   Groups   Contacts   Addresses										

Language Locale: en\_US | Format Locale:

#### Profile , Manager , B2B Capabilities

Cat Cource	Set Target	Enabled	Edit						Document Definition
Set Source		Liidbied		0	1	2	3	4	All
<u>*1</u>	<u>*1</u>			÷	Pac	kage:	AS		
(*1)	1	<		÷	Pac	kage:	: None	-	
1	*			÷	Pac	kage:	Back	end I	ntegration (1.0)
*1	*			÷	Pac	kage:	: N/A		
*1	*			·····	Pac	kage:	: ebMS	i (2.0)	)

\_\_\_\_e. In the following **Profile > Manager > B2B Capabilities** screen, click on the (1) icon to enable the document definition, **Package: None** for both the **Set Source** and **Set Target** columns as shown below:

#### Profile > Manager > B2B Capabilities

Welcome, Hub Administrator

									+ Help
Cot Courco	Set Target	Enabled	Edit						Document Definition
Set Source		Lindbied		0	1	2	3	4	All
*1	*			÷····	Pac	kage:	AS		
✓	<ul> <li>✓</li> </ul>	Enabled	3	(÷ 🖆	Pac	kage:	None		
*1	*			÷····	Pac	kage:	Back	end I	ntegration (1.0)
*1	*			÷····	Pac	kage:	N/A		
*1	*			·····	Pac	kage:	ebMS	6 (2.0)	)

# \_\_\_\_f. Click on the folder (<sup>()</sup>) icon next to the document definition, **Package: None** to expand it. The **Profile > Manager > B2B Capabilities** screen must look like as shown below:

Eat Course	Set Target	Enabled	Edit	Document Definition							
Set Source	SetTaryet	Ellableu		0 1 2 3 4 All							
*1	*			Package: AS							
<ul> <li>✓</li> </ul>	✓	Enabled	<i>3</i>	🗄 🖻 🛛 Package: None							
*	*			Protocol: Binary (1.0)							
<u>*1</u>	<u>*</u>			<b>Protocol: &amp;FUNC_ACK_METADATA_DICTIONARY</b> (ALL)							
	📉 🎦 🤜	-		: :···· Protocol: Web Service (1.0)							
*	*			<b>Protocol: cXML</b> (1.2.009)							
*	*			: : Protocol: EDI-Consent (ALL)							
*	*			Protocol: EDI-EDIFACT (ALL)							
*	*			: ····· Protocol: EDI-X12 (ALL)							
*	*			Package: Backend Integration (1.0)							
*	*			Package: N/A							
*	*			Package: ebMS (2.0)							

# \_\_\_\_ g. Click on the (<sup>1</sup>) icon to enable the document definition, **Protocol: Web Service** for both the **Set Source** and **Set Target** columns as shown below:

Eat Course	Set Target	Epobled	Edit	Document Definition							
Set Source	SetTaryet	Ellableu	Eult	0 1 2 3 4 All							
*	*			Package: AS							
<ul> <li>✓</li> </ul>	✓	Enabled	3	🗄 🚔 🛛 Package: None							
*	*			Protocol: Binary (1.0)							
*1	*			Protocol: &FUNC_ACK_METADATA_DICTIONARY (ALL)							
✓	✓	Enabled	3	Protocol: Web Service (1.0)							
*1	*			<b>Protocol: cXML</b> (1.2.009)							
*1	*			<b>Protocol: EDI-Consent</b> (ALL)							
*1	*			Protocol: EDI-EDIFACT (ALL)							
*1	*			: ····· Protocol: EDI-X12 (ALL)							
*1	*			<b>Package: Backend Integration</b> (1.0)							
*1	*			Package: N/A							
*	*			Package: ebMS (2.0)							

\_\_\_\_h. Click on the folder () icon next to the document definition, **Protocol: Web Service** to expand it. The **Profile > Manager > B2B Capabilities** screen must look like as shown below:

Eat Course	Set Target	Enabled	Edit	Document Definition						
Set Source				0 1 2 3 4 All						
*1	1			····· Package: AS						
<ul> <li>✓</li> </ul>	✓	Enabled	<b>I</b>	Package: None						
*1	*1			Protocol: Binary (1.0)						
*1	*1			: :···· Protocol: &FUNC_ACK_METADATA_DICTIONARY (ALL)						
<ul> <li>✓</li> </ul>	<u> </u>	Enabled	3	🗄 🗄 🗭 Protocol: Web Service (1.0)						
	1 1	e		: : Document Type: {http://tempuri.org/DocumentService3/}						
*	*1			<b>Protocol: cXML</b> (1.2.009)						
*	*1			: :···· Protocol: EDI-Consent (ALL)						
*1	*1			: :···· Protocol: EDI-EDIFACT (ALL)						
*1	*1			: ····· Protocol: EDI-X12 (ALL)						
*1	*1			Package: Backend Integration (1.0)						
1	*1			Package: N/A						
*	*1			····· Package: ebMS (2.0)						

\_\_\_\_\_i. Click on the (<sup>1</sup>) icon to enable, **Document Type :{......}** for both the **Set Source** and **Set Target** columns as shown below:

Eat Cource	Set Target	Enabled	Edit	Document Definition							
Set Source	Set Taryet	Ellableu		0 1 2 3 4 All							
*1	*1			Package: AS							
<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	Enabled	4	Package: None							
*1	*			Protocol: Binary (1.0)							
*1	*			Protocol: &FUNC_ACK_METADATA_DICTIONARY (ALL)							
✓	$\checkmark$	Enabled	<u> </u>	🗄 🗄 🖻Protocol: Web Service (1.0)							
✓	$\checkmark$	Enabled	<i>4</i>	🗄 : 📫 Document Type: {http://tempuri.org/DocumentService3/}							
1	*			Protocol: cXML (1.2.009)							
*1	*			Protocol: EDI-Consent (ALL)							
*1	*			Protocol: EDI-EDIFACT (ALL)							
*1	*			: ····· Protocol: EDI-X12 (ALL)							
1	*			Package: Backend Integration (1.0)							
*1	*			Package: N/A							
*1	<u>*</u>			Package: ebMS (2.0)							

\_\_\_\_\_j. Click on the folder () icon next to the document definition, **Document Type :{......}** to expand it. The **Profile > Manager > B2B Capabilities** screen must look like as shown below:

Cat Causes	CatTanaat	Feeblad	r	Document Definition
Set Source	Set Taryet	Elignia	Eult	0 1 2 3 4 All
*1	*1			Package: AS
✓	$\checkmark$	Enabled	3	🗄 🖻 🛛 Package: None
1	1			Protocol: Binary (1.0)
*1	*			: :···· Protocol: &FUNC_ACK_METADATA_DICTIONARY (ALL)
×	$\checkmark$	Enabled	3	🗄 🗄 🎽 Protocol: Web Service (1.0)
✓	$\checkmark$	Enabled	<b>I</b>	: : ·· 🖻 Docu <u>ment Type: {http://tempuri.org</u> /DocumentService3/}:
×	$\checkmark$	Enabled	🥥 🦪 –	🕂 🔁 🕴 🖆 🗍 Activity: addDocument (1.0)
✓	$\checkmark$	Enabled	3	: : Activity: {http://tempuri.org/DocumentService3/}:get
*1	*			<b>Protocol: cXML</b> (1.2.009)
*1	*			: :···· Protocol: EDI-Consent (ALL)
*1	*			: Protocol: EDI-EDIFACT (ALL)
*1	*			: ····· Protocol: EDI-X12 (ALL)
*1	*			Package: Backend Integration (1.0)
*1	*			Package: N/A
*1	*			Package: ebMS (2.0)

- 2. Similarly for the **External Partner**, enable the document flow definitions as shown below:
  - \_\_\_\_a. Navigate to Partner Search screen, Account Admin  $\rightarrow$  Profiles  $\rightarrow$  Partner
  - \_\_\_\_b. Accept the defaults and click the Search button
  - \_\_\_ c. Click the ( Profile > Partner (External Partner). You are directed to the Profile > Partner screen

		Partner Name	Part	tner Type	Status
	Þ	Hub Operator	Hub Administrator	Enable	ed
	Þ	Manager	Internal Partner	Enable	ed
_ (	Þ	Partner	External Partner	Enable	ed 🗶

\_\_\_\_ d. While the **Profile > Partner** screen is selected, navigate to **Account Admin → Profiles → B2B** Capabilities to enable the document flow definitions

7 Acc	7 Account Admin									
Profi	Profiles   Connections   Alerts   Exclusion List									
Partne	Partner   Destinations   B2B Capabilities   Certificates   Users   Groups   Contacts   Addresses									
	Language Locale: en_US   Format Locale:									
F	Profile <mark>&gt;</mark> Par	tner • B2B	Capabilitie	s						
	Sot Source	ce Set Target	Enabled	r dia						Document Definition
	Set Source			Eult	0	1	2	3	4	All
	*1	*1			·	Dar	kano	0.5		

						<u> </u>	- <b>-</b> -		
<u>*1</u>	<u>*1</u>		÷····	Packag	je: A	s			
1	📉 🛅 🔶		÷••••	Packag	je: N	one	-		
*	*1		÷····	Packag	je: B	acker	nd Int	egration (1.0)	
*1	*1		÷••••	Packag	je: N	/A			
*1	*		·····	Packag	je: el	bMS (	(2.0)		

\_\_\_\_e. Enable the **DocumentService** document definition as shown below. There are two activities for this Web service. For this lab, you need to enable the "**addDocument**"

**Note:** Follow the steps implemented for the Internal Partner (Manager) **Document Server** enablement for "addDocument"

C-1 C-111-1	ColtTourst	E b l - d	r .124	Document Definition
Set Source	Set Larget	Enabled	Ealt	0 1 2 3 4 All
*1	*			Package: AS
<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	Enabled	I I I I I I I I I I I I I I I I I I I	🗄 🖻 🛛 Package: None
1	*			Protocol: Binary (1.0)
*1	*			: : Protocol: &FUNC_ACK_METADATA_DICTIONARY (ALL)
✓	<ul> <li>✓</li> </ul>	Enabled	4	🗄 🗄 🖻 Protocol: Web Service (1.0)
✓	$\checkmark$	Enabled	  	🗄 🗄 😳 🖆 🖆 Docu <u>ment Type: { http://tempuri.</u> org/DocumentService3/ }:I
<ul> <li>Image: A set of the set of the</li></ul>	✓	Enabled	🏈	Activity: addDocument (1.0)
✓	<ul> <li>✓</li> </ul>	Enabled	<u> </u>	🗄 🗄 📫 Activity: {http://tempuri.org/DocumentService3/}:get
1	1			Protocol: cXML (1.2.009)
1	1			Protocol: EDI-Consent (ALL)
1	1			Protocol: EDI-EDIFACT (ALL)
1	1			Protocol: EDI-X12 (ALL)
1	1			Package: Backend Integration (1.0)
1	1			Package: N/A
1	1			····· Package: ebMS (2.0)

#### **Create Interaction**

Next you will need to create the interaction between the document definitions. Note that WebSphere Partner Gateway supports only Passthrough for webservices.

- 1. Navigate to Hub Admin → Hub Configuration → Document Definition
- 2. In the following Manage Document Definition screen, click the Manage Interactions link

Manage Document Definitions	Welcome, Hub Administrator				
• Create Document Definition  • Manage Intera	tions + Upload/Download Packages + Help				
3. In the following Manage Interactions screen, click the Create Interaction link					
Manage Interactions	Welcome, Hub Administrator				
• Manage Docu	ment Definitions (• Create Interaction) • Help				

4. The following **Create Interaction** screen looks like as shown below:

Create Interaction	Welcome, Hub Administrator		
	Manage Interactions     Help		
Select one Document Definition each from the Source and Target column, and then fill in the data fields.			
Source *	Target *		

Source	larget				
0 1 2 3 4 All	0 1 2 3 4 All				
Package: AS	Package: AS				
🕂 🗖 🛛 Package: None	:* 🗖 🛛 Package: None				
Package: Backend Integration (1.0)	Package: Backend Integration (1.0)				
Package: N/A	Package: N/A				
😳 🖬 🖬 Package: ebMS (2.0)	Package: ebMS (2.0)				
Tr <u>ansform map</u>					
Select Transform Map 💌					
Action *					
Select an action					
Save Cancel Reset					

5. Create an interaction for the DocumentService WebService as shown below:

Note: Click on the folder icons () marked and select the radio button next to Action: addDocument in the Source and Target.

Create Interaction	Welcome, Hub Administrator				
Select one Document Definition each from the Source and Target column, and then fill in the data fields.					
Source *	Target <sup>*</sup>				
0 1 2 3 4 All	0 1 2 3 4 All				
Package: AS	Package: AS				
Package: None	Package: None				
Protocol: Binary (1.0)	Protocol: Binary (1.0)				
Protocol: &FUNC_ACK_METADATA_DICTIONARY (ALL)	Protocol: &FUNC_ACK_METADATA_DICTIONARY (ALL)				
Protocol: Web Service (1.0)	Protocol: Web Service (1.0)				
🗄 🖆 Document Type:	Document Type:				
{http://tempuri.org/DocumentService3/}:DocumentService3 (1.0	)){http://tempuri.org/DocumentService3/}:DocumentService3 (1.0)				
Chivity: addDocument (1.0)	: : Activity: addDocument (1.0)				
🗄 🗄 📫 🖆 💽 Action: addDocument (1.0)	🗄 🗄 👘 🗖 💿 Action: addDocument (1.0)				
🗄 🗄 🤲 Activity:	Activity:				
{http://tempuri.org/DocumentService3/}:getDocument (1.0)	{http://tempuri.org/DocumentService3/}:getDocument (1.0)				
Protocol: cXML (1.2.009)	Protocol: cXML (1.2.009)				
Protocol: EDI-Consent (ALL)	Protocol: EDI-Consent (ALL)				
Protocol: EDI-EDIFACT (ALL)	Protocol: EDI-EDIFACT (ALL)				

- 6. Scroll to the bottom of the Create Interaction screen and select Pass Through from the drop down list for the Action field
- 7. Click the **Save** button to save the interaction

# Part 5: Creating participant connections

The next step is to create Participant Connections.

1. Navigate to the Manage Connections screen. Account Admin  $\rightarrow$  Connections  $\rightarrow$  Partner Connections

Account Admin Viewers   Tools   Hub Admin   RosettaNet Partner Simulato	or I System Administration I Wizards				
Profiles   Connections   Alerts   Exclusion List					
Partner Connections					
Language Locale: en_US   Format Loc Manage Connections	ale: en_US   Time Zone: UTC Welcome, Hub Administrator				
	Advanced Search + Help				
Source Select a Source & Target Partner Targe	et				
Make A Selection  Make A Selection	ection 💌				
2. In the following manage Connections screen, select the Partner (External Partner) as Source and Manager (Internal Partner) as Target as shown below:					
Manage Connections	Welcome, Hub Administrator				
Source Select a Source & Ta Partner Search 3. Click the Search button. The Manage Connections screen look	Advanced Search • Help				
Manage Connections	Welcome, Hub Administrator				
Source	Target				
Partner     Search       Reset     >	Manager  No default Destinations set Set Default Destinations				
Enabled B2B Capabilities Connection Details	B2B Capabilities				
Package: None (N/A)         Protocol: Web Service (1.0)         Document Type:         {http://tempuri.org/DocumentService3/}: DocumentService3 (1.0)         Activity: addDocument (1.0)         Action: addDocument (1.0)	: None (N/A) : Web Service (1.0) <b>nt Type:</b> .puri.org/DocumentService3/}:DocumentService3 (1.0) addDocument (1.0) ddDocument (1.0)				

**Note:** If there is no default definition is set as shown in the picture above, click the **Set Default Destination** button and select the **webservice\_destination** and continue to active the connections.

\_\_\_\_4. Click the **Activate** button

#### Part 6: Create a user for external partner

Finally for the configuration, you will need to create a User for the External Partner. This is used for authenticating the incoming Web Service request.

- \_\_\_\_1. Select External Partner
  - \_\_\_\_a. Navigate to Partner Search screen, Account Admin  $\rightarrow$  Profiles  $\rightarrow$  Partner
  - \_\_\_\_b. Accept the defaults and click the **Search** button
  - \_\_\_\_ c. Click the ( Profile > Partner (External Partner). You are directed to the Profile > Partner screen

	Partner Name	Partner Type	Status
P	Hub Operator	Hub Administrator	Enabled
Þ	Manager	Internal Partner	Enabled
P	Partner	External Partner	Enabled 🛛 🗙

- 2. While the **Profile > Partner** screen is selected, navigate to **Account Admin \rightarrow Profiles \rightarrow Users**
- 3. In the following **Profile > Partner > User List** screen, click the **Create** link
- 4. In the following **Profile > Partner > User Detail** screen, enter the following mandatory information:
  - User name : admin
  - Password : test1234
  - Re-enter Password : test1234

Note: The password must be 8 characters.



Profile, Partner, User Detail,

5. Click the Save button

#### Part 7: Running the scenario

The sample Web Service adds the document in a local directory. The directory name is hard coded within the Web Services.

- 1. Create the following directory before running the scenario
  - \_\_\_\_a. On a UNIX<sup>®</sup> System create directory /tmp/swa/DWS6/documents
  - \_\_\_\_b. On a Windows System create directory C:\temp\swa\DWS6\documents
  - \_\_\_\_2. You need to have the following to run the scenario:
    - \_\_\_\_a. GenericSOAPClient2.class This is a test client which sends the Web Service request to WebSphere Partner Gateway

#### Note: The GenericSOAPClient2.class file is located at <WPG61Labfiles>\SOAPwA

- \_\_\_b. WebSphere Partner Gateway receiver URL: http://localhost:58080/bcgreceiver/Receiver
- \_\_\_\_ c. External Partner Business ID Duns Identifier or freeform identifier : 123456789
- \_\_\_\_\_d. User ID and Password for basic authentication (the one you created in Part 6).
  - User Name : admin
  - Password : test1234
- \_\_\_\_\_e. dws3\_req.txt The file to send. This is a binary encoded request document. It has a single attachment. Note the <name> and <author> elements in the SOAP body. The name element is the name of the document; the author is the author who created the document. To run this test multiple times, you will have to change the value of the <name> element (explained later)

#### Note: The dws3\_req.txt file is located at <WPG61Labfiles>\SOAPwA

- \_\_\_\_f. Java™ runtime For this lab, you will use the Java runtime provided by the WebSphere Application Server V6.1 (on which runs WebSphere Partner Gateway V6.1). The directory is C:\IBM\WAS61\java\bin\java, denoted by <JAVA\_DIR>
- \_\_\_\_\_ 3. The Usage for the GenericSOAPClient2 is as follows:

java GenericSOAPClient2 <url> <file to send > <external partner businessid> <user> <pwd>

4. Start a command line window and run the following commands:

#### cd C:\WPG61Labfiles\SOAPwA

C:\IBM\WAS61\java\bin\java GenericSOAPClient2 http://localhost:58080/bcgreceiver/Receiver dws3\_req.txt 123456789 admin test1234

5. Here is an example output of the above command:

java GenericSOAPClient2 http://localhost:58080/bcgreceiver/Receiver dws3\_req.txt 987654321 admin test1234

May 17, 2007 1:51:52 PM GenericSOAPClient2 send

**INFO: Connection created** 

sun.net.www.protocol.http.HttpURLConnection:http://localhost:58080/bcgreceiver/Receiver

IBM WebSphere Partner Gateway 6.1– Lab exercise

May 17, 2007 1:51:52 PM GenericSOAPClient2 send

**INFO: Request written.** 

May 17, 2007 1:51:52 PM GenericSOAPClient2 send

INFO: Reading response...

May 17, 2007 1:51:53 PM GenericSOAPClient2 send

INFO: Response written to file C:\ WPG61Labfiles\SOAPwA\swa\_resp\_29504.txt

Note: The response (swa\_resp\_\*.txt) file is created under <WPG61Labfiles>\SOAPwA

#### Results of the test

- \_\_\_\_\_6. After running the test, review the response file:
  - \_\_\_\_\_a. For the above check the response file, swa\_resp\_\*.txt. The response from Web Service is written to this file. Note that the response is also SOAP with Attachment. In this case, the Web service returns a Boolean indicating that the document was added successfully

-----=\_Part\_1\_1182942850.1173996872031
 Content-Type: text/xml; charset=UTF-8
 Content-Transfer-Encoding: binary
 Content-Id: <75515382968.1173996872031.IBM.WEBSERVICES@ aimpc091>
 <soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001" xmlns:

-----=\_Part\_1\_1182942850.1173996872031

Content-Type: application/octet-stream

**Content-Transfer-Encoding: binary** 

Content-Id: <isAdded=74323883854.1173996872031.IBM.WEBSERVICES@aimpc091>

true

-----=\_Part\_1\_1182942850.1173996872031---

- \_\_\_\_b. Check the file system if the document has been added
- \_\_\_\_ c. Finally check the **Document Viewer** in WebSphere Partner Gateway console by navigating Viewers → Document Viewer. WebSphere Partner Gateway Console should show the request and response documents

Document ID: -					
Doc Time Stamp: -					
Source: Community	In: 2/15/07 8:42:15 AM	(1.152 kb)	None (N/A) Web Service (1.0) {http://tempuri.org/DocumentService3(1.0)		
Target: Partner	Out: 2/15/07 8:42:16 AM	(0.014 kb)	None (N/A) Web Service (1.0) {http://tempuri.org/DocumentService3(1.0)	Production	1
Document ID: -					
Doc Time Stamp: -					
Source: Partner	In: 2/15/07 8:42:15 AM	(1.233 kb)	None (N/A) Web Service (1.0) {http://tempuri.org/DocumentService3/}:DocumentService3(1.0)		Ð
Target: Community Manager	Out: 2/15/07 8:42:15 AM	(0.924 kb)	None (N/A) Web Service (1.0) {http://tempuri.org/DocumentService3/}:DocumentService3(1.0)	Production	<b>(</b> 21
Document ID: -					

**Note:** The document in the second row is the Request document. The document in the first row is the Response document.

#### Running test multiple times:

If you need to send the document again, make sure to change the name element of the input request document, *dws3\_req.txt*. The value of the name element is <name>helloworld1.txt</name>. Change the counter every time you send a new request. The reason is once a document is added to the file system, on subsequent invocation, the Web service will not be able to overwrite the file. Modify name element to <name>helloworld2.txt</name> and so on.

#### Some troubleshooting tips

\_\_\_\_7. Check java version. It should be 1.5

java version "1.5.0"

Java(TM) 2 Runtime Environment, Standard Edition (build pwi32dev-20061002a (SR3))

IBM J9 VM (build 2.3, J2RE 1.5.0 IBM J9 2.3 Windows XP x86-32 j9vmwi3223-2006100

Note: You can use the Java 1.5 provided by WebSphere Application Server V6.1.

- 8. Always change the <name> element value. The reason is once a document is added to the file system, on subsequent invocation, the Web service will not be able to overwrite the file
- 9. As of now the "boundary" value has been hard coded in the test client. Do not change the boundary in the request document
- 10. This scenario makes use of the Basic Authorization header for authenticating a user. Do not forget to create a user as mentioned in Part 6
- 11. Do not forget to create a temporary directory, C:\temp\swa\DWS6\documents, for the Web Service to store documents

Note: The directory name is hard coded and you will have to create this directory before running the scenario:

On a Unix System create /tmp/swa/DWS6/documents.

#### **Encoding information**

SOAP with attachment document is an encoded request document as defined by the "Content-Transfer-Encoding" MIME Header.

WebSphere Partner Gateway supports the following encoding

- 7bit
- 8bit
- binary
- quoted-printable
- base64

However, not all application servers will support all of the above. Example WebSphere Application Server supports 7 bit, 8 bit and binary types only. The sample request document uses binary encoding.

# What you did in this exercise

You have successfully configured WebSphere Partner Gateway 6.1 for the SOAP with attachment feature.

You worked on a scenario in which, WebSphere Partner Gateway backend hosts a Web service which a community participant invokes