

IBM Software Group

Getting Started with WebSphere MQ Message Bindings in WebSphere Process Server and WebSphere Enterprise Service Bus

Sravanthi Chintakuntla Brian Hobson Shinsou (Al) Wang

sravanthi@us.ibm.com bhobson@us.ibm.com wangsh@us.ibm.com

Staff Software Engineers 19 April 2011











Agenda

This is a demonstration of creating an MQ binding and using it to connect to WebSphere MQ to generate a response message.





Requirements

- WebSphere MQ
- WebSphere Integration Developer (WID) with test environment
- RFHutil (http://www.ibm.com/support/docview.wss? uid=swg24000637)
- Note: WMQ and WID version 7.0 were used to prepare this demonstration



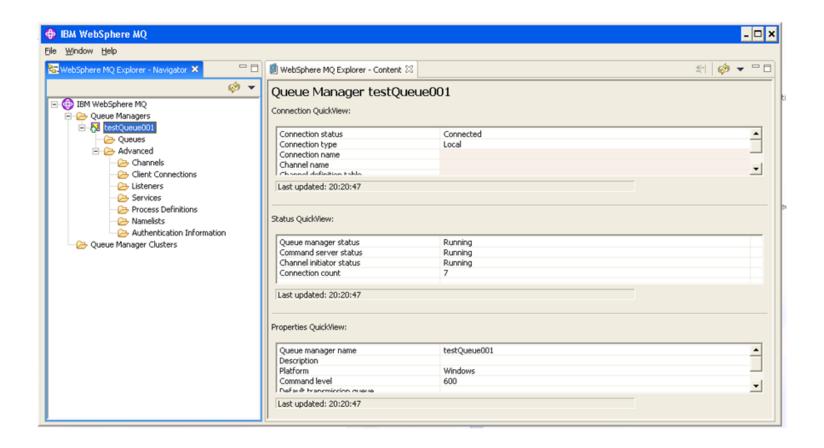


Step 1: Setting up MQ





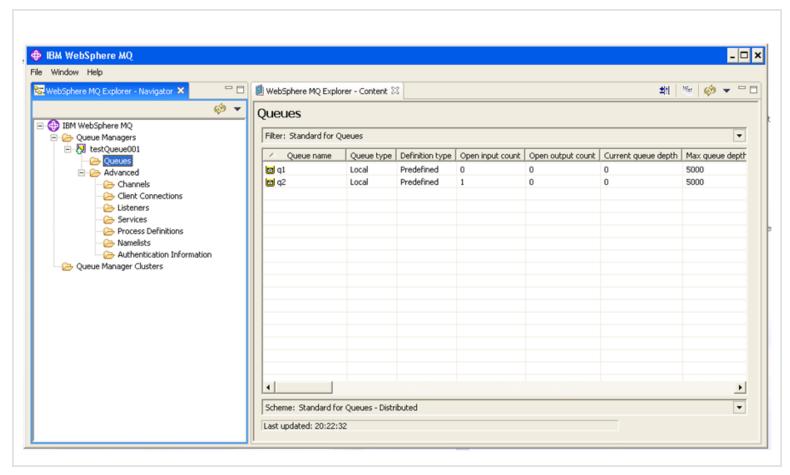
One Queue Manager







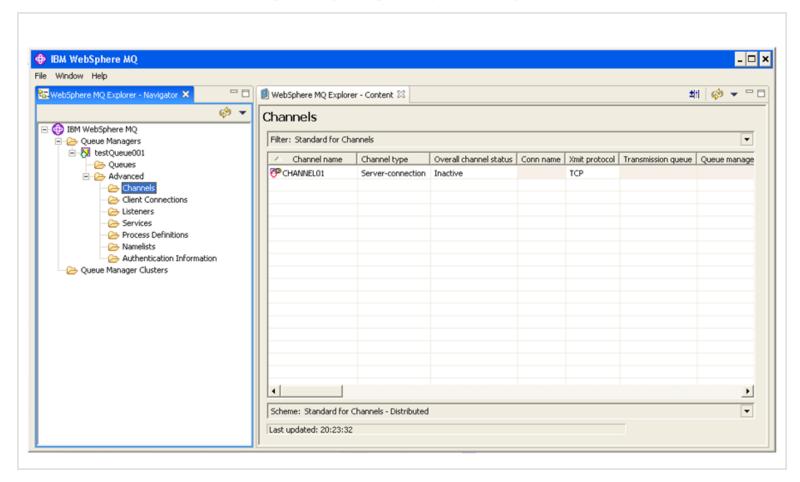
Two Queues







One Channel





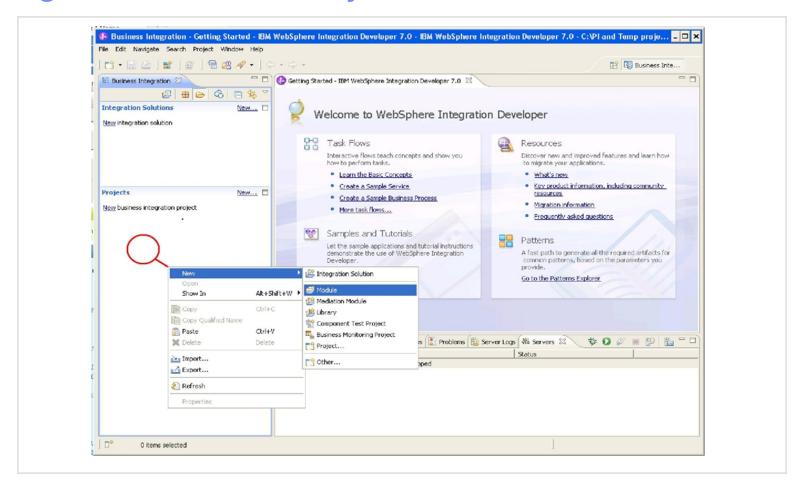


Step 2: Setting up WID





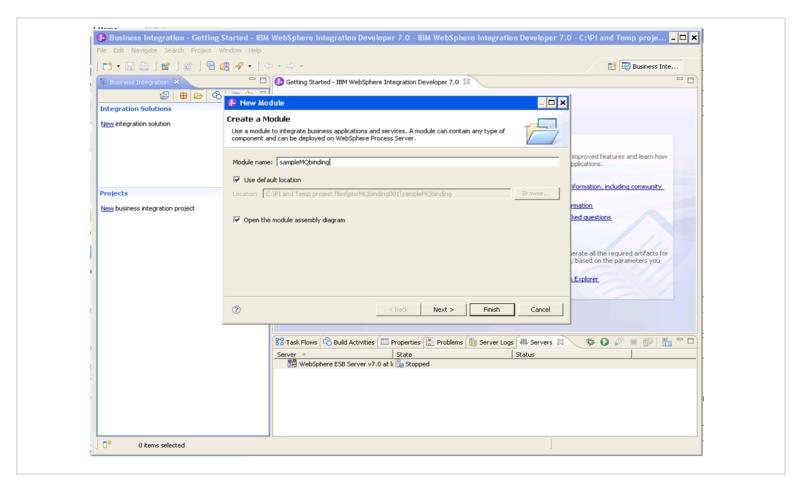
Right-click under Projects, create a new module







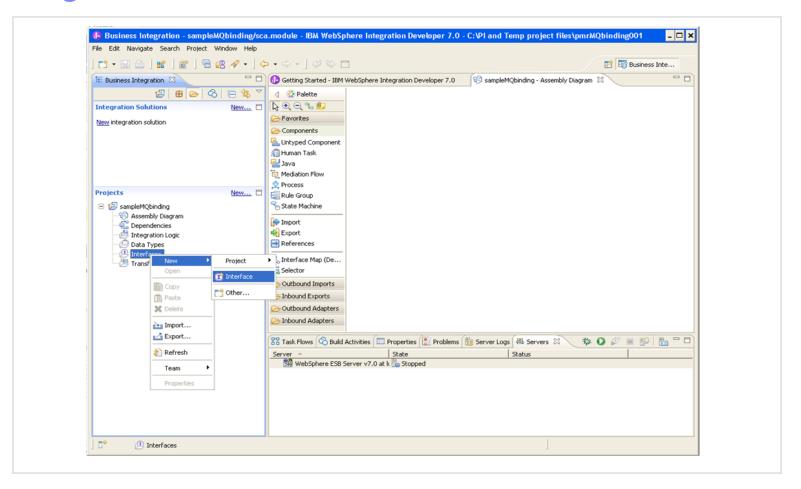
Give the new module a name, click 'Finish'







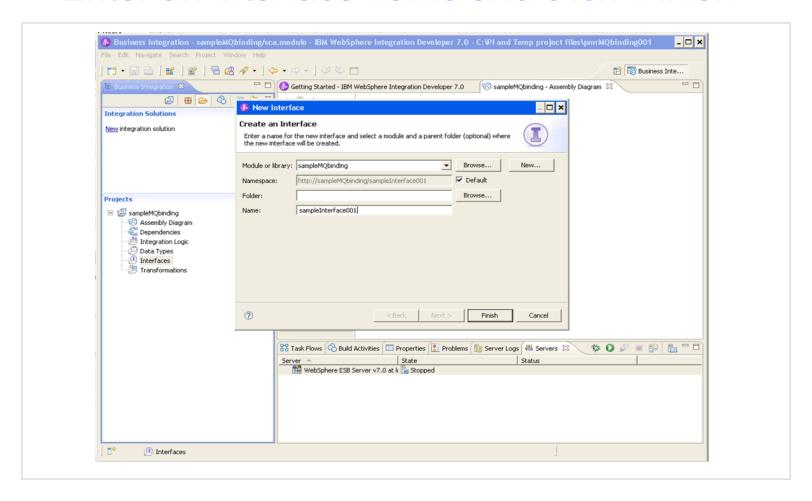
Right-click Interfaces, create a new interface







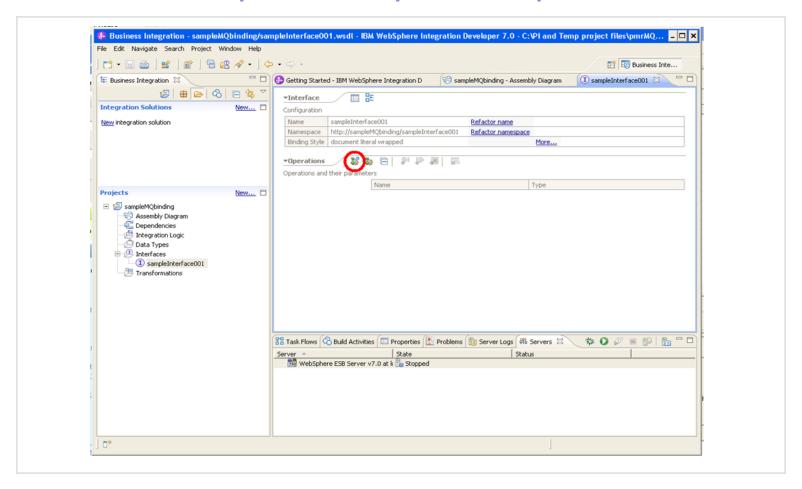
Enter an interface name and click 'Finish'







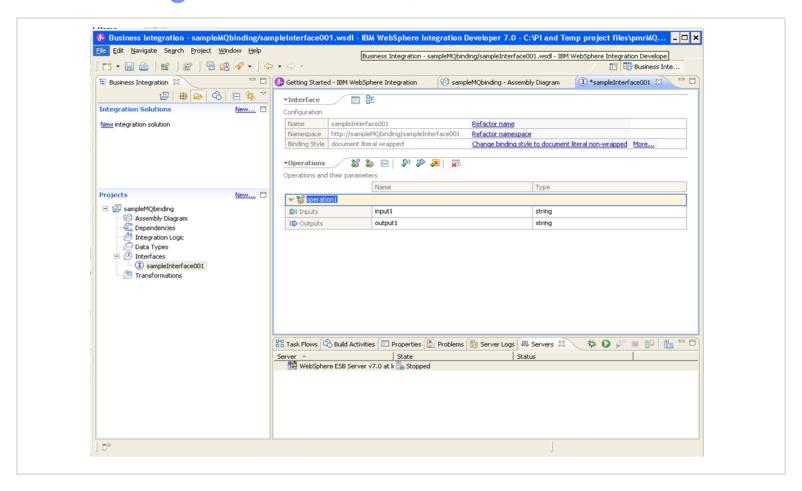
Click 'Add Request Response Operation' button







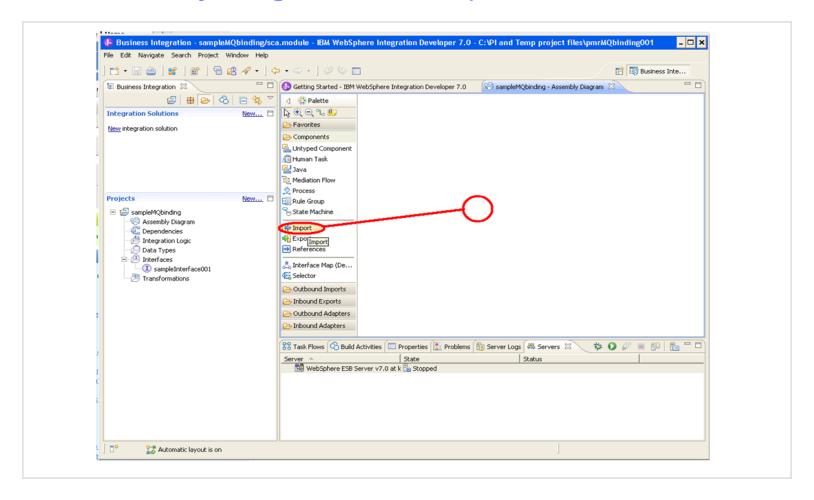
After adding the interface, save and close this tab







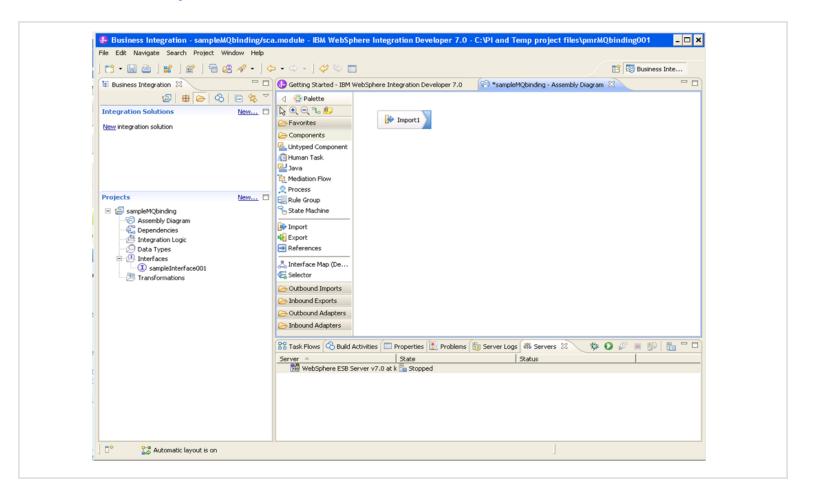
In the Assembly Diagram, click Import, then on the canvas.







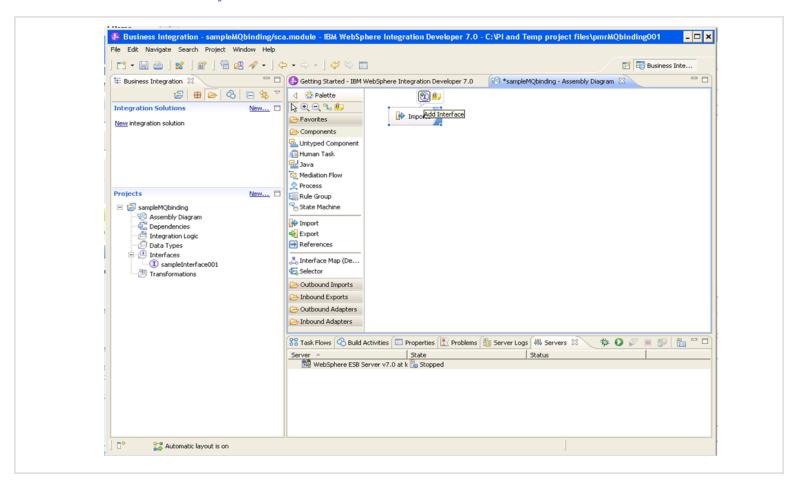
After the import is added to the canvas it looks like this







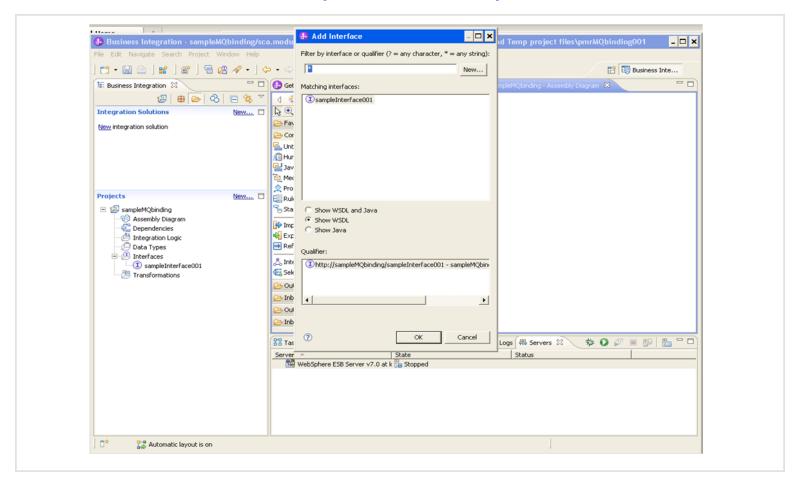
Over the import, click the 'Add Interface' button







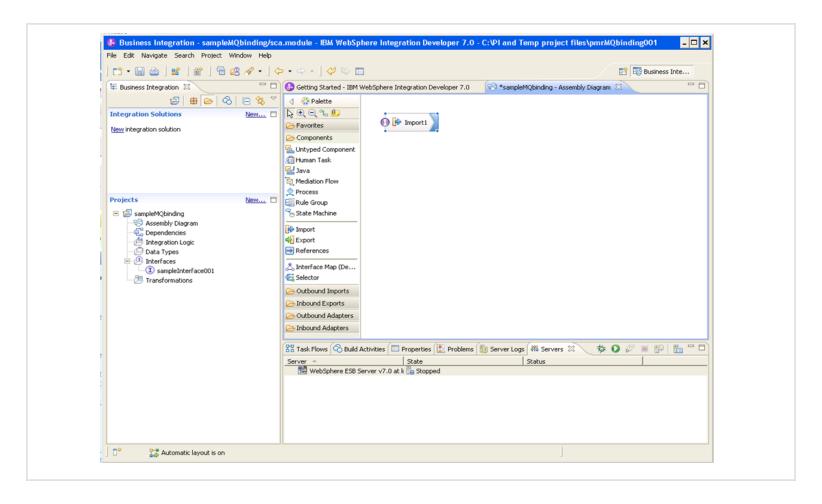
The 'Add Interface' window appears; select the interface that was created in the previous steps and click 'OK'.







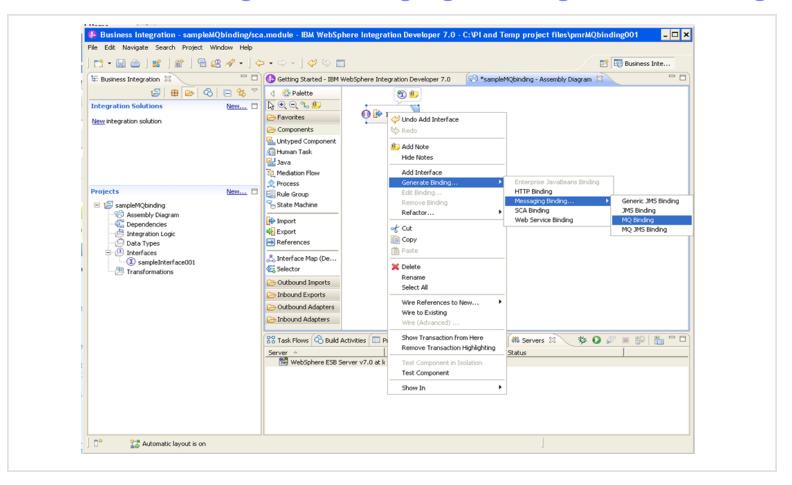
After the interface is attached to the import it looks like this







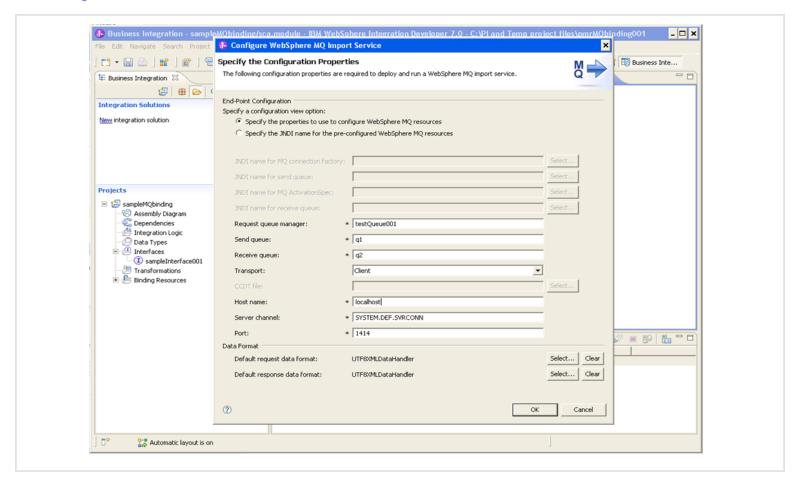
Right click on the import, choose: Generate Binding -> Messaging Binding->MQ Binding







Enter the Queue Manager and Queue names which were previously defined in MQ, set Hostname to 'localhost', click OK





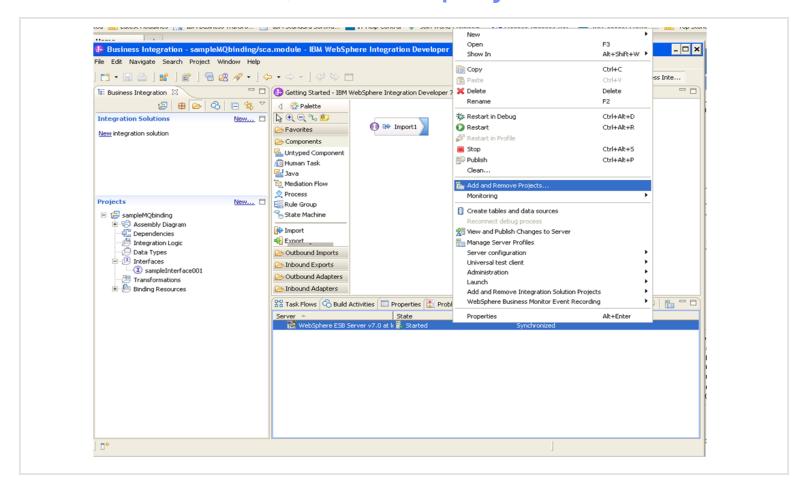


Step 3: Testing





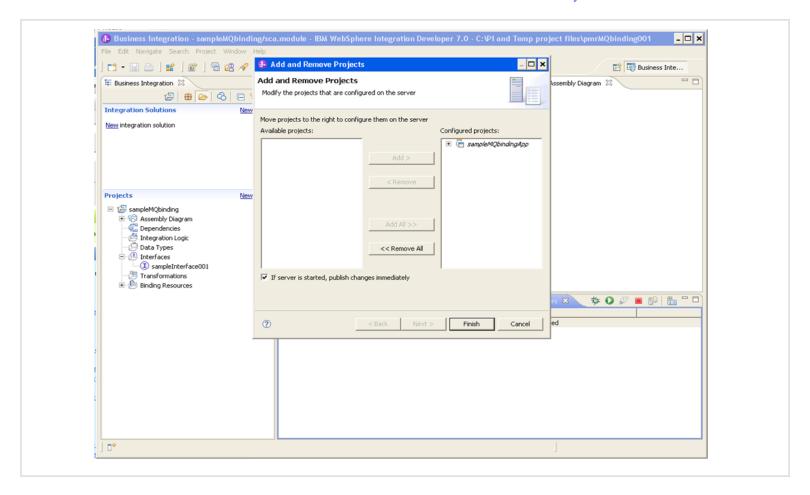
Start the server, add the project to the server







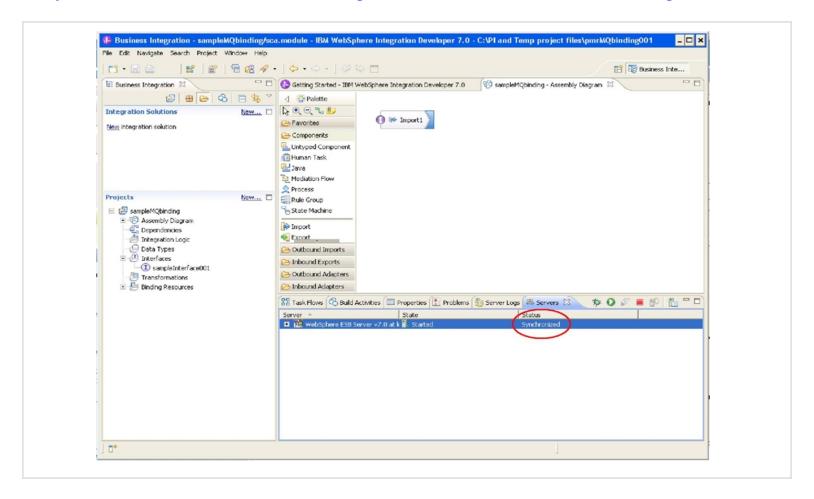
Add the new module to the server, click 'Finish'







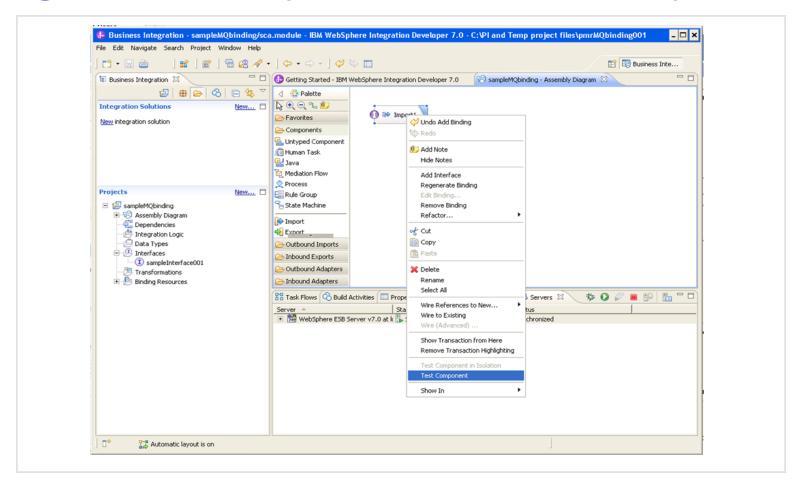
When published successfully, the status shows 'Synchronized'







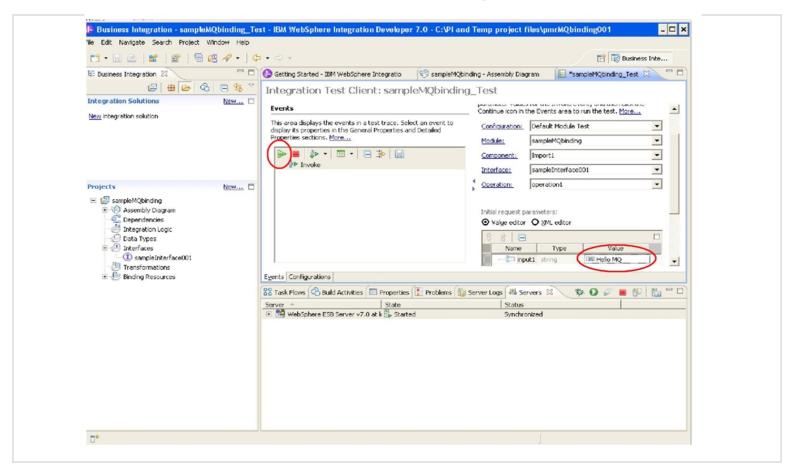
Right-click the import, choose 'Test Component'







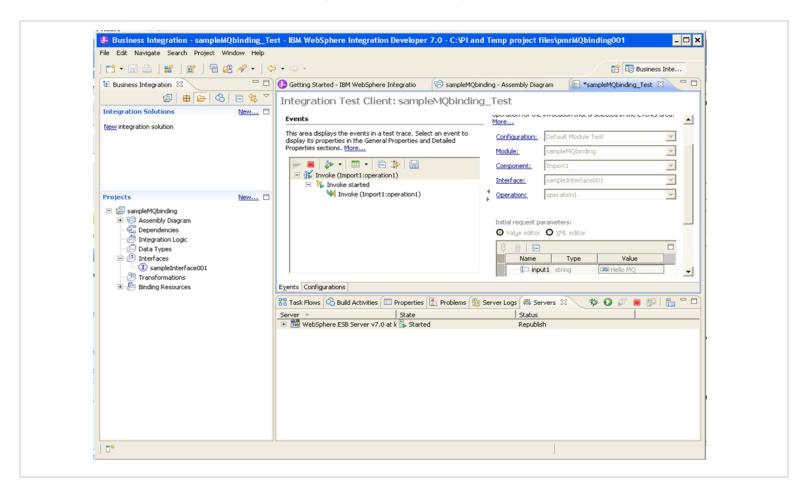
Enter a value in the Value field, click the green triangle button to start testing







The message is being sent to MQ







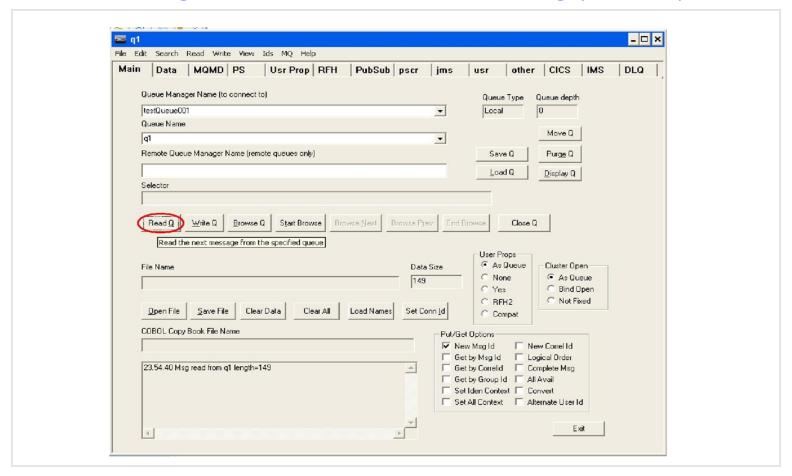
Start RFHutil to read the message and create a response message. The Queue Manager and Queue Name should be automatically detected when RFHutil is on the machine where MQ is installed. You may need to change the queue name to the Send queue defined in the MQ binding property (slide 21)

	MQMD PS	Usr Prop RFI	H PubSub ps	scr jms	usr	other	cics	IMS	DLQ	
Oursus Manag	er Name (to connect	to)								Í
testQueue001	name (to connect				Queue 1	Type Q	ueue depth			
Queue Name				•	J					
q1				•			Move Q			
	Manager Name (ren	note queues only)			Save	Q	Purge Q	1		
					Load		Display Q	1		
Selector							Dishigh 6			
File Name	Save File Clea	ar Data Clear All	Load Names 5	Data Size Get Conn Id	User Pro As Q None Yes RFH Comp	lueue e	Cluster Op As Qu Bind O Not Fis	eue Ipen		





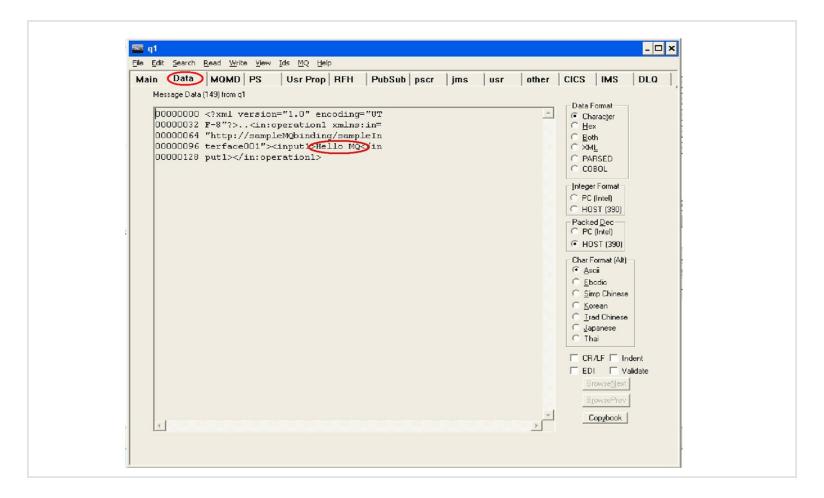
Click 'Read Q' once to read the message from the Send queue where the message was sent from the MQ binding (slide 28)







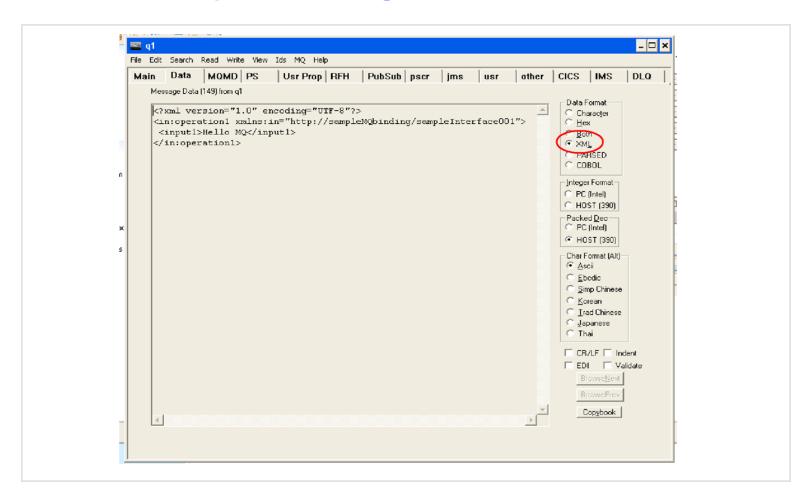
Select the Data tab. What was entered as input value can be seen here







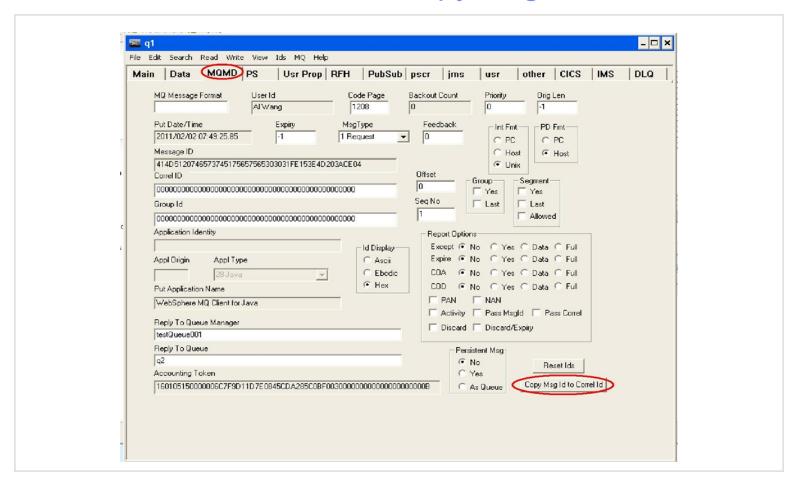
It can be helpful to change the Data Format to XML







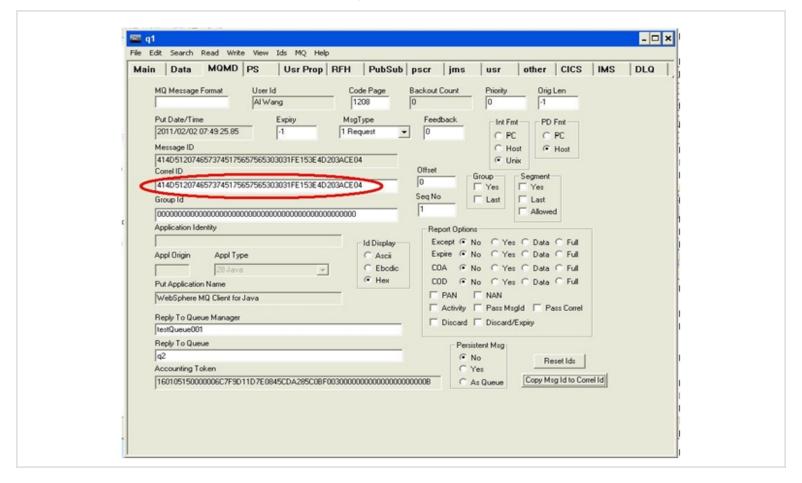
To generate a correlation ID on the response message, select the MQMD tab and click "Copy Msg Id to Correl Id"







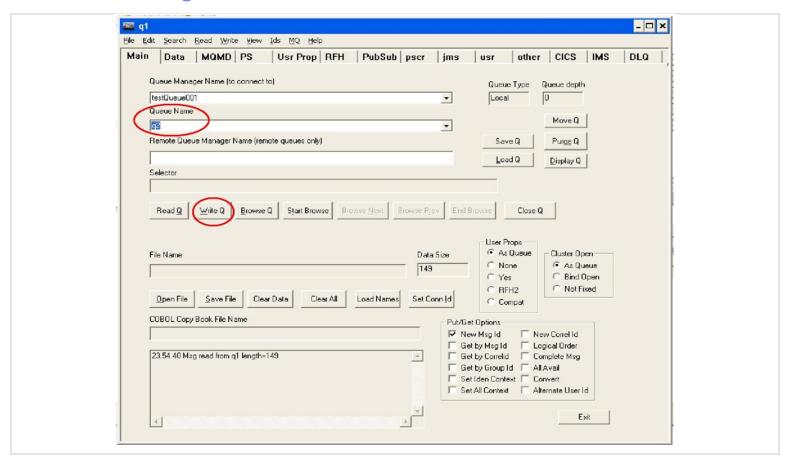
After the button is clicked, the 'Correl ID' text box is filled







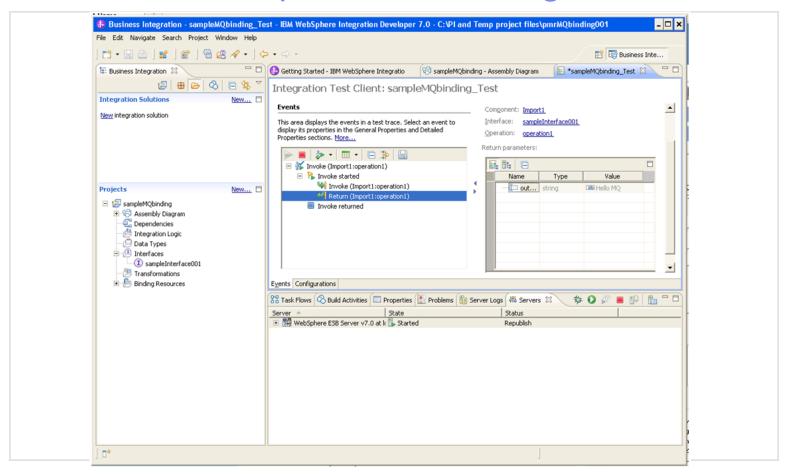
To write a message back to the Receive queue for the binding to receive the response, select the Main tab, change the queue name to what was defined in the binding as the Receive Queue, and click 'Write Q'.







WID should receive the response message, which completes the testing.







Summary

This demonstration shows that it is fairly simple to configure the MQ Binding in WID and show that it is working, using WebSphere MQ and RFHutil.





Additional WebSphere Product Resources

- Learn about upcoming WebSphere Support Technical Exchange webcasts, and access previously recorded presentations at: http://www.ibm.com/software/websphere/support/supp_tech.html
- Discover the latest trends in WebSphere Technology and implementation, participate in technically-focused briefings, webcasts and podcasts at: http://www.ibm.com/developerworks/websphere/community/
- Join the Global WebSphere Community: http://www.websphereusergroup.org
- Access key product show-me demos and tutorials by visiting IBM® Education Assistant: http://www.ibm.com/software/info/education/assistant
- View a webcast replay with step-by-step instructions for using the Service Request (SR) tool for submitting problems electronically: http://www.ibm.com/software/websphere/support/d2w.html
- Sign up to receive weekly technical My Notifications emails: http://www.ibm.com/software/support/einfo.html





We Want to Hear From You!

Tell us about what you want to learn

Suggestions for future topics Improvements and comments about our webcasts We want to hear everything you have to say!

Please send your suggestions and comments to: wsehelp@us.ibm.com





Questions and Answers

