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WebSphere® Message Broker Toolkit V6.0.2

Toolkit scenario part 3: Message flow generation



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Updated May 30, 2007

This third module of the scenario continues the solution by generating a message flow and setting the database connections.

Section

Scenario solution: Message flow

This section introduces SupportPac™ IA90 to provide a skeleton of the message flow using the new SOAP nodes.

Notes: The new SOAP nodes

SOAPEExtract and SOAPEEnvelope nodes

▶ available on the Web as a category 3 SupportPac IA90

<http://www-1.ibm.com/support/docview.wss?rs=171&uid=swg27007197>

IA90: WebSphere Message Broker – SOAPEEnvelope and SOAPEExtract nodes

Downloadable files

Abstract
This SupportPac includes two new nodes, the SOAPEExtract node and the SOAPEEnvelope node. They can be used to simplify the processing of SOAP messages in WebSphere Message Broker

Download Description
The SOAPEExtract node removes the envelope from a SOAP message and places it in a configurable location. The SOAP body becomes the body of the message. The SOAPEEnvelope node reconstructs a SOAP message using the previously stored SOAP envelope.

POSSIBLE USES
It is intended that these nodes are used as a pair to simplify the processing of SOAP messages within a message flow. The SOAPEExtract node is used after an input node to split the body from the envelope. The SOAPEEnvelope node is used before an output terminal to reconstruct a SOAP message.

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Toolkit scenario part 3: Message flow generation

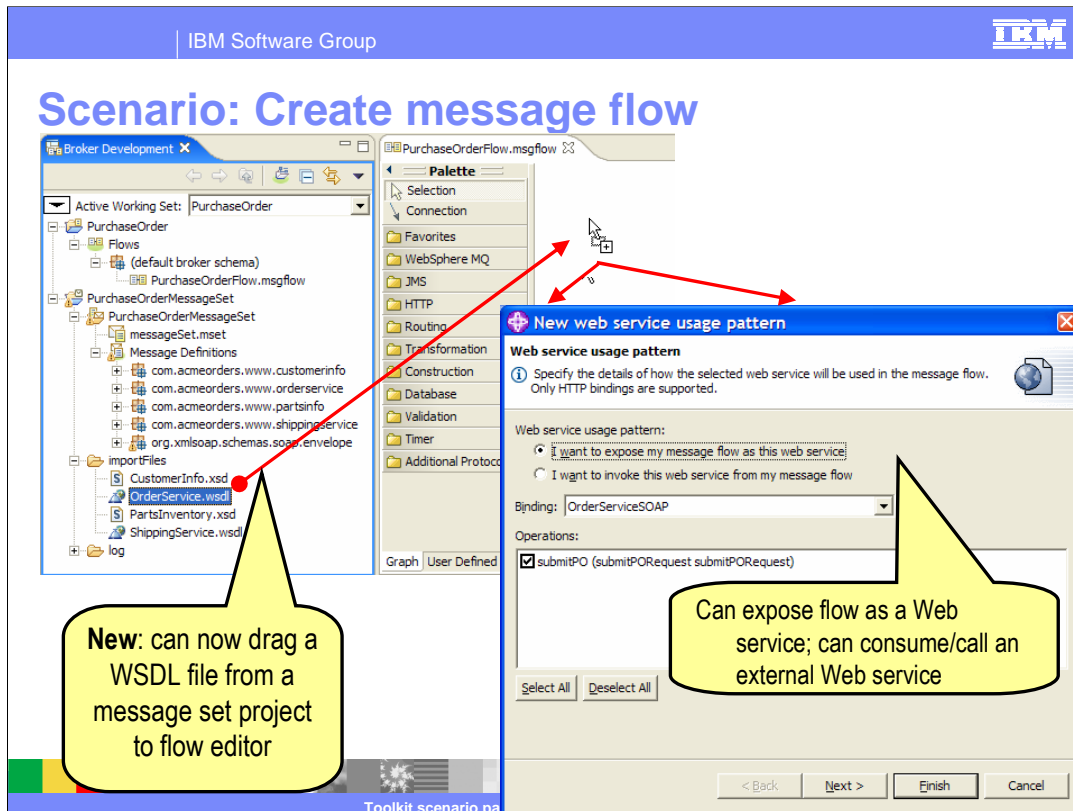
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SupportPac IA90 includes two new nodes, the SOAPEExtract node and the SOAPEEnvelope node, which can be used to simplify the processing of SOAP messages in WebSphere Message Broker.

The SOAPEExtract node removes the envelope from a SOAP message and places it in a configurable location. The SOAP body becomes the body of the message.

The SOAPEEnvelope node reconstructs a SOAP message using the previously stored SOAP envelope.

It is intended that these nodes be used as a pair to simplify the processing of SOAP messages within a message flow. The SOAPEExtract node is used after an input node to split the body from the envelope, while the SOAPEEnvelope node is used before an output terminal to reconstruct a SOAP message.



When you drag an imported WSDL file to the Message flow editor, you get a New Web service usage pattern, which defines the Web service in this flow. This scenario elects to expose the Web service in this flow as a request expecting a response.

Notes: Drag-and-Drop support

- In **602**, you can now drag the following onto the flow editor:
 - WSDL files from message sets
 - XSLT files to create and configure XMLTransformation nodes
 - Java™ classes to create JavaCompute node and configure its class name property
 - ESQL modules to create Compute node and configure its ESQL module name property
 - Sub-flows

WebSphere Message Broker Toolkit V6.0.2 supports drag-and-drop to the flow editor for the items listed here.

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Scenario: Generated message flow

Callout 1: Generates nodes to take SOAP message, extract body part of it, and establish which operation was invoked

Callout 2: Generated sub flow: one terminal per WSDL operation (selected in wizard)

Callout 3: Generates nodes to return a SOAP reply ... one pair (new **SOAPEnvelope** node and HTTPReply node) per operation with response.

HTTP Input Node Properties - ws__OrderService

Description	HTTP Input Node Properties - ws__OrderService	
Basic		
Input Message Parsing	Message domain	XMLNSC
Parser Options	Message set	
Error Handling	Message type	
Validation	Message format	

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After the WSDL drag-and-drop, the message flow, shown in this screen capture, is generated. There are nodes to take the SOAP message, HTTPInput node, and a sub flow to extract and process the message. There are nodes to return the SOAP reply: a SOAPEnvelope node and an HTTPReply node.

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Scenario: Generated sub flow

The screenshot displays the IBM WebSphere Message Brokers Toolkit interface. The main window shows a message flow diagram for 'OrderService_Gen_Front_Subflow.msgflow'. The flow starts with an 'in' node, followed by a 'ws_DeEnvelop_wsdOper' node, which then branches into a 'failure' node and a 'ws_submitPORrequest' node. The 'ws_submitPORrequest' node leads to a 'submitPORrequest' node. A 'Palette' on the left lists various nodes, and a 'Properties' window at the bottom shows the configuration for the 'SOAPDeEnveloper Node Properties'.

Generates a sub flow to extract body from SOAP envelope

New SOAPExtract node. Extracts body from SOAP envelope, and routes to Label for each operation

One Output node per WSDL operation (selected in wizard)

The generated sub flow has the SOAPExtract node to process the message and Label and Output nodes to route the message.

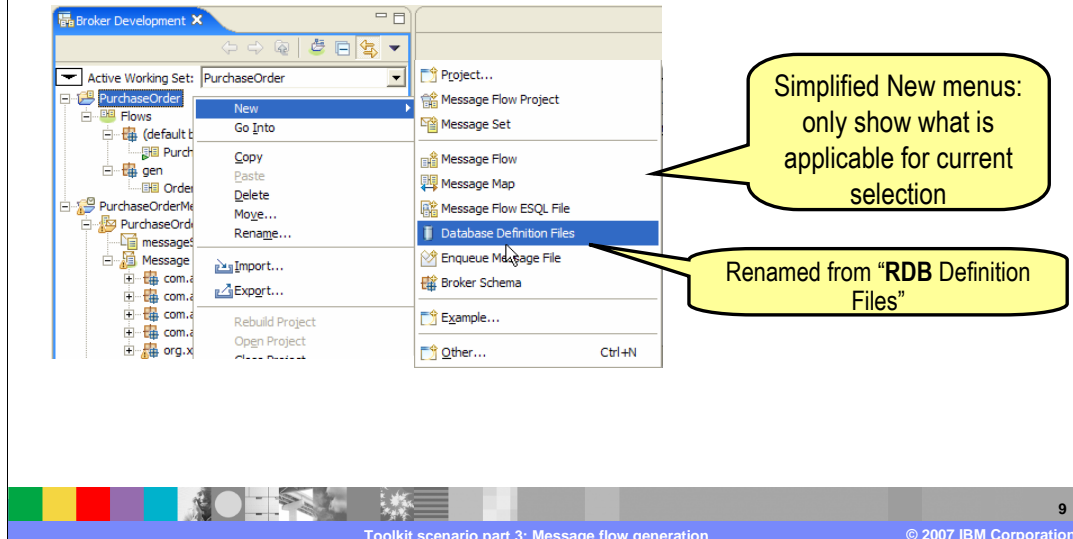
Section

Scenario solution: Database connections

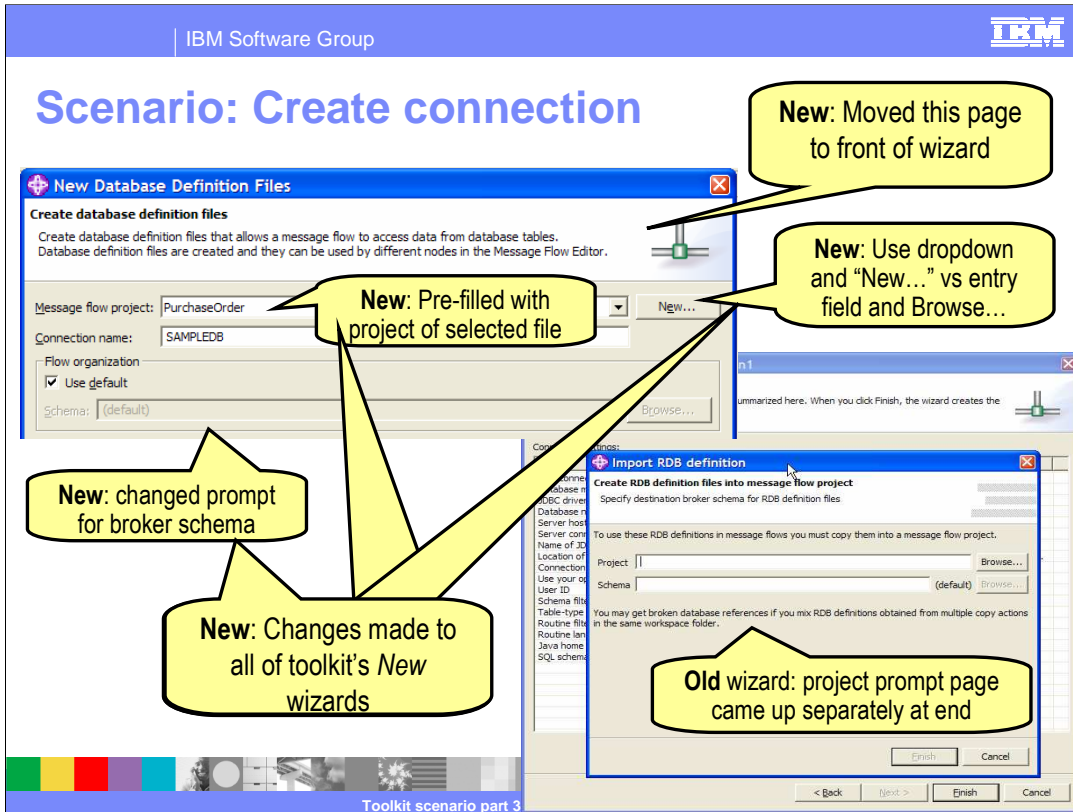


This section shows how to set up the database connections needed for this scenario.

Scenario: Database connection

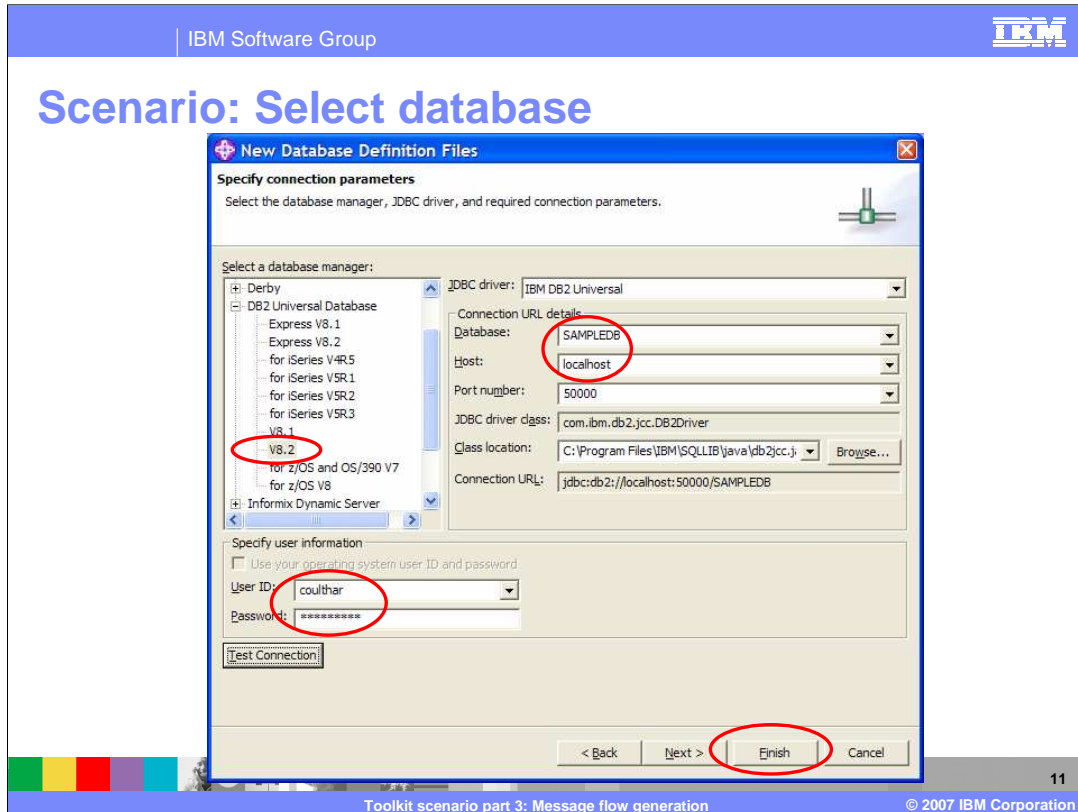


The inventory table resides in a database, and must be accessed to check the inventory to fill requested parts. In your active working set, PurchaseOrder, create a new database definition file.

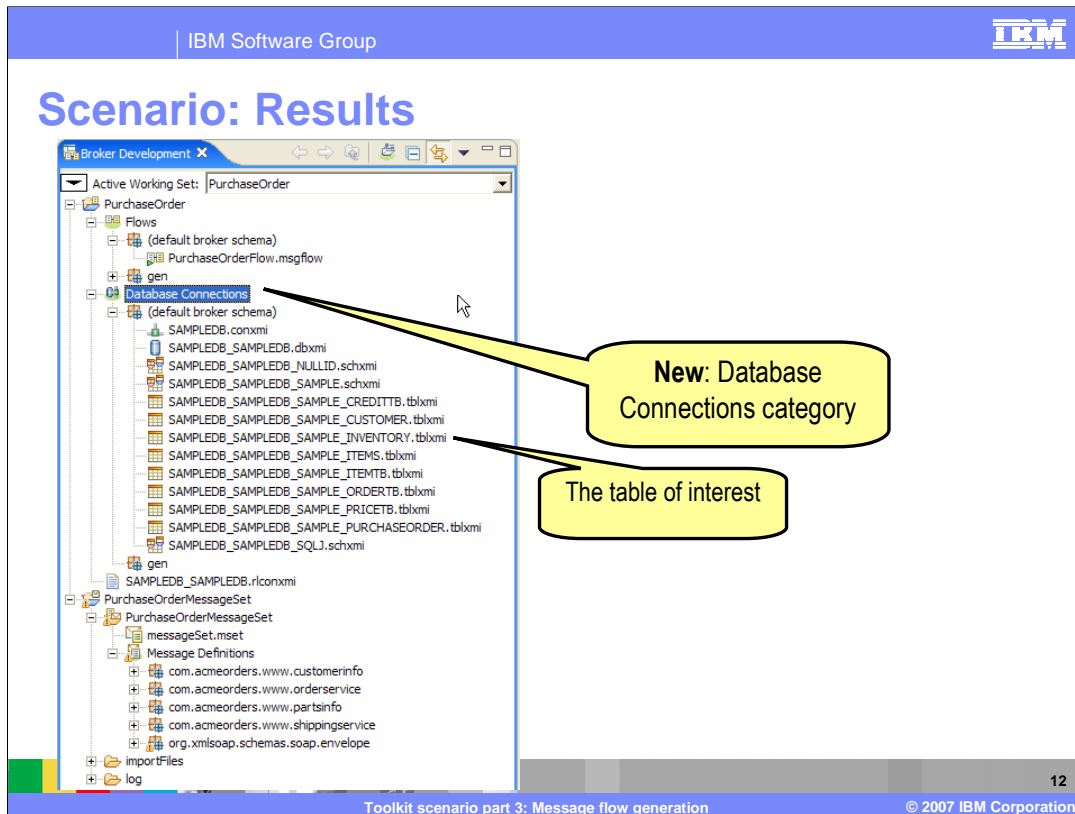


Create the database connection for inventory table, SAMPLEDB, Note the differences between the V6.0.2 wizard and the V6 wizard shown here.

Scenario: Select database



Select the database and driver; provide the database name and host to connect to the inventory database. Specify the user ID and password to access the database.



After completing the database connection, the Broker Development Resource Navigator shows the database tables. This concludes part 3 of the WebSphere Message Broker V6.0.2 Toolkit scenario.

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