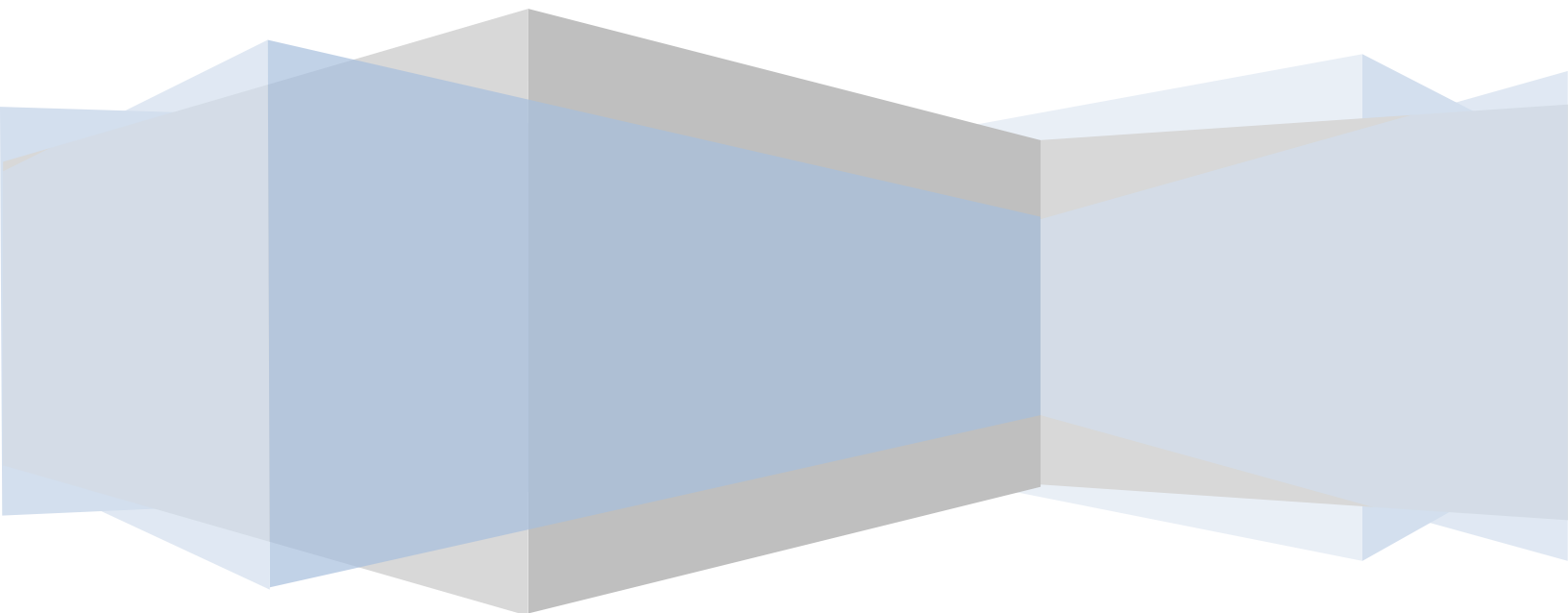


Cognizant Technology Solutions

Exercises - PubSub

WebMethods Integration Workshop

WebMethods CoE



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PubSub

Introduction

The publish-and-subscribe model is a specific type of message-based solution in which messages are exchanged anonymously through a message broker. Applications that produce information that needs to be shared will make this information available in specific types of recognizable documents that they publish to the message broker.

Applications that require information subscribe to the document types they need. At run time, the message broker receives documents from publishers and then distributes the documents to subscribers. The subscribing application processes or performs work using the document and may or may not send a response to the publishing application.

Document

Documents are objects that webMethods components use to encapsulate and exchange data. A document represents the body of data that a resource passes to webMethods components. An IS document type contains a set of fields used to define the structure and type of data in a document (IData object). Often it represents a business event such as placing an order (purchase order document), shipping goods (shipping notice), or adding a new employee (new employee record).

Publishable Document Type

Every published document is associated with a publishable document type. A publishable document type is a named schema-like definition that describes the structure of a particular kind of document that can be published and subscribed to.

Trigger

A trigger establishes subscriptions to publishable document types and specifies how to process instances of those publishable document types. The publishable document type acts as the subscription piece of the trigger. The service is the processing piece. When the trigger receives documents to which it subscribes, the Integration Server processes the document by invoking the service specified in the condition.

Theory

Guides to complete

- 8-2-SP1_Administering_Broker (Chapter 1-3, 6-8).

Practicals

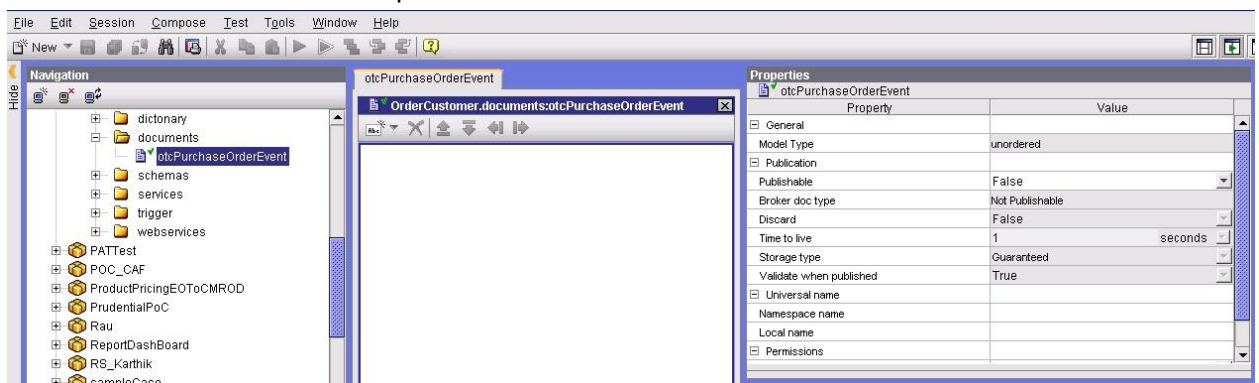
Document Type Creation

Steps to create Document Type


- 1) Right click on document folder select **New** -> **All Choices**. Developer opens the **New** wizard.
- 2) Select **Document Type** from the list of elements and click **Next**.
- 3) Type the document name as **otcPurchaseOrderEvent** and select the appropriate folder. Click **Next**. In the next window select **None** and click **Finish**.

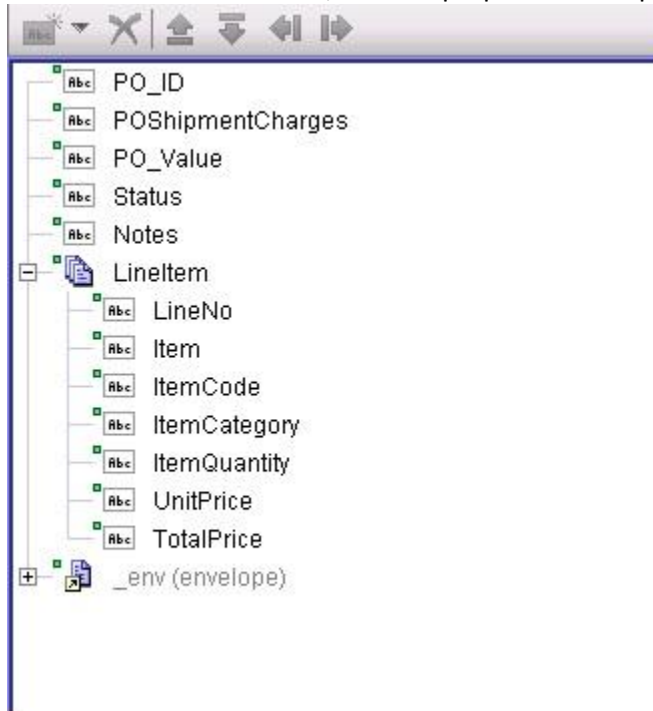


- 4) A document is created with the specified name.



5) To add fields in the IS document type, do the following:

- Click  on the toolbar and select the type of field that you want to define.
- Type the name of the field and then press **ENTER**.
- With the field selected, set field properties and apply constraints in the **Properties** panel.




Making the document publishable

To make an existing IS document type publishable

- 1) Select the document type that you want to make publishable in the Navigation Panel of Developer.
- 2) In the Properties panel, under **Publication**, set the **Publishable** property to **True**.

Properties	
 otcPurchaseOrderEvent	
Property	Value
<input type="checkbox"/> General	
Model Type	unordered
<input type="checkbox"/> Publication	
Publishable	True
Broker doc type	Not Publishable
Discard	False
Time to live	1 seconds
Storage type	Guaranteed
Validate when published	True
<input type="checkbox"/> Universal name	
Namespace name	
Local name	
<input type="checkbox"/> Permissions	

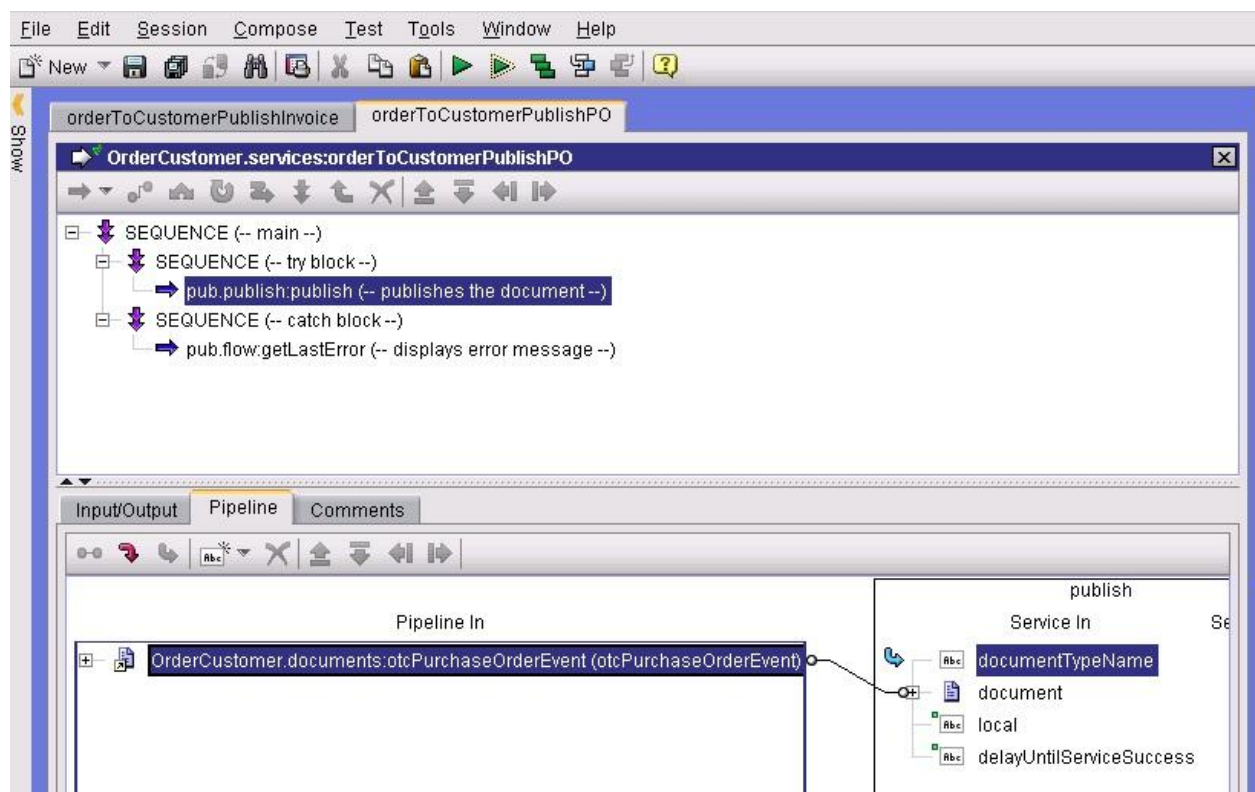
- 3) On the **File** menu, click **Save** to save your changes.

Developer displays  beside the document type name in the Navigation panel to indicate it is a publishable document type.

Publishing Document

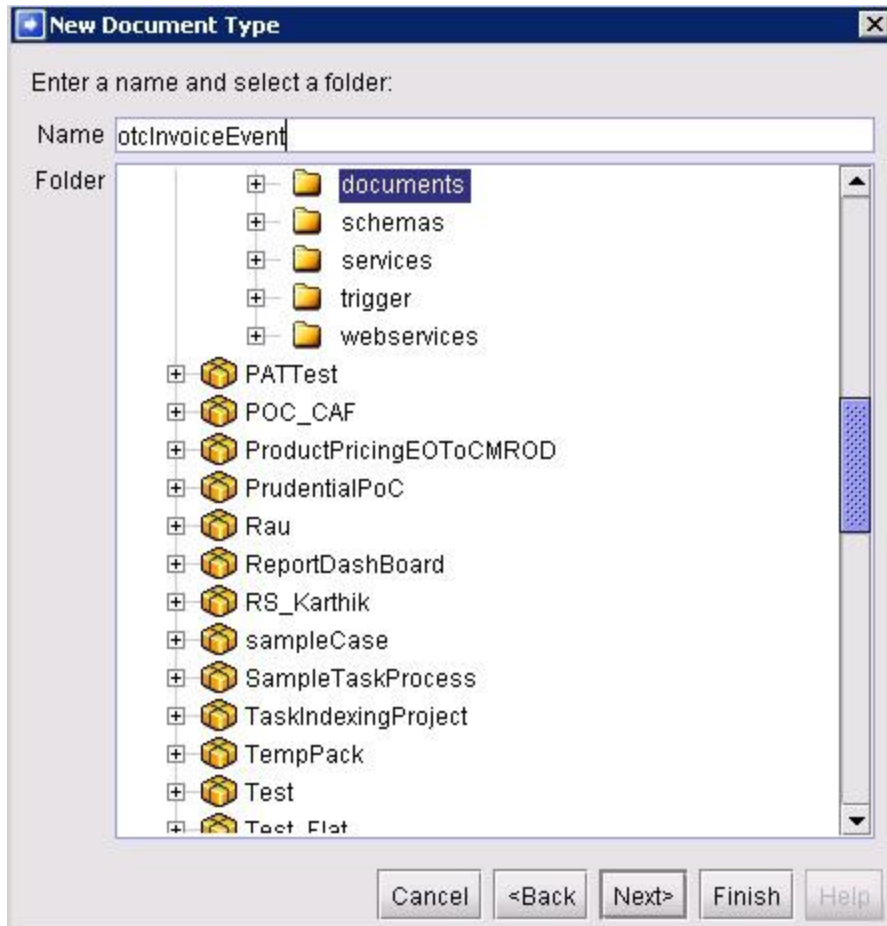
Steps to publish document

- 1) Use **pub.publish:publish** service to publish document.
- 2) In the **Pipeline** tab, do the following :
 - Set the **documentTypeName** with fully qualified name of publishable document.
 - Map the **document** with the publishable document in the input field.

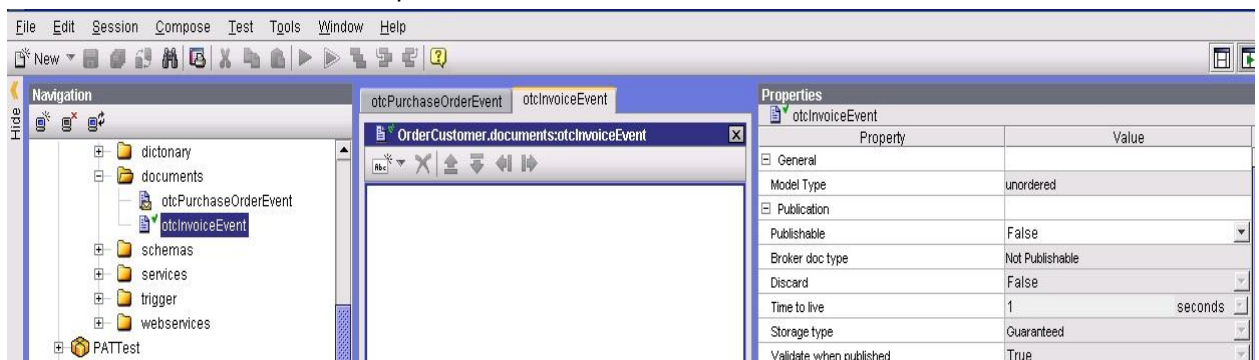


Steps to create Document Type


- 1) Right click on document folder select **New** -> **All Choices**. Developer opens the **New** wizard.
- 2) Select **Document Type** from the list of elements and click **Next**.
- 3) Type the document name as **otcInvoiceEvent** and select the appropriate folder. Click **Next**. In the next window select **None** and click **Finish**.



4) A document is created with the specified name.



5) To add fields in the IS document type, do the following:

- Click  on the toolbar and select the type of field that you want to define.
- Type the name of the field and then press **ENTER**.
- With the field selected, set field properties and apply constraints in the **Properties** panel.



Making the document type publishable


To make an existing IS document type publishable

- 1) Select the document type that you want to make publishable in the Navigation Panel of Developer.

- 2) In the Properties panel, under **Publication**, set the **Publishable** property to **True**.

Properties	
otcPurchaseOrderEvent	
Property	Value
<input type="checkbox"/> General	
Model Type	unordered
<input type="checkbox"/> Publication	
Publishable	True
Broker doc type	Not Publishable
Discard	False
Time to live	1 seconds
Storage type	Guaranteed
Validate when published	True
<input type="checkbox"/> Universal name	
Namespace name	
Local name	
<input type="checkbox"/> Permissions	

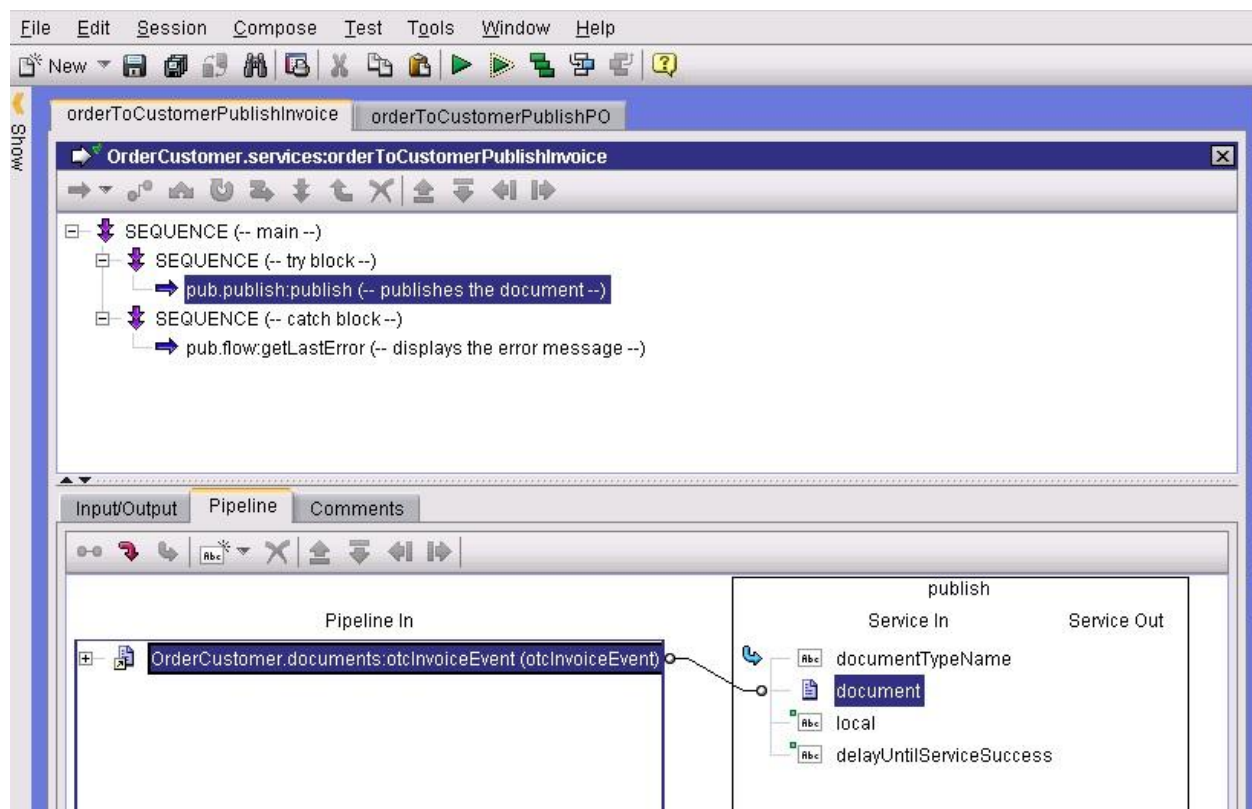
- 3) On the **File** menu, click **Save** to save your changes.

Developer displays  beside the document type name in the Navigation panel to indicate it is a publishable document type.

Publishing Document

Steps to publish document

- 3) Use **pub.publish:publish** service to publish document.
- 4) In the **Pipeline** tab, do the following :
 - Set the **documentTypeName** with fully qualified name of publishable document.
 - Map the **document** with the publishable document in the input field.





Creating Triggers

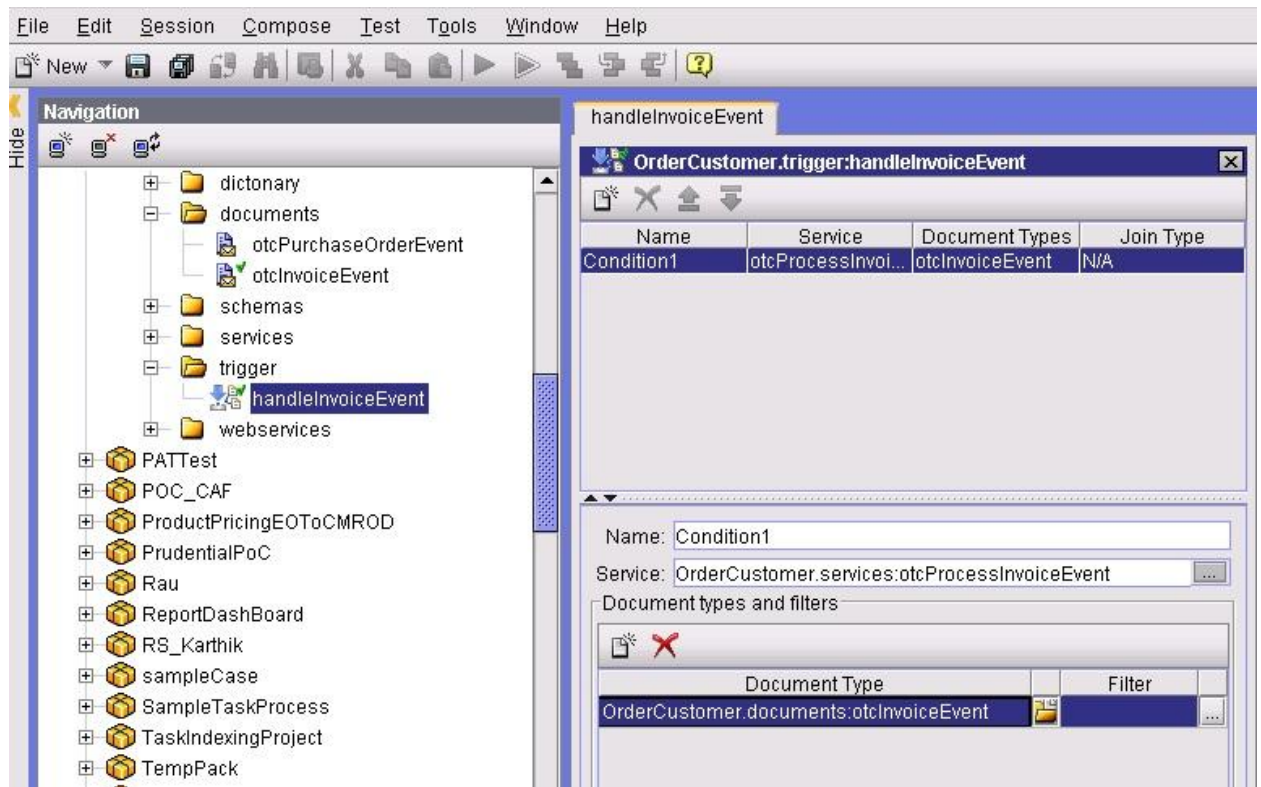
Steps to create trigger

- 1) Right click on triggers folder select **New** -> **All Choices**. Developer opens the **New Wizard**.

- 2) Select **Trigger** from the list of elements and click **Next**.
- 3) Type the trigger name as **handleInvoiceEvent** and select the appropriate folder. Click **Next**.

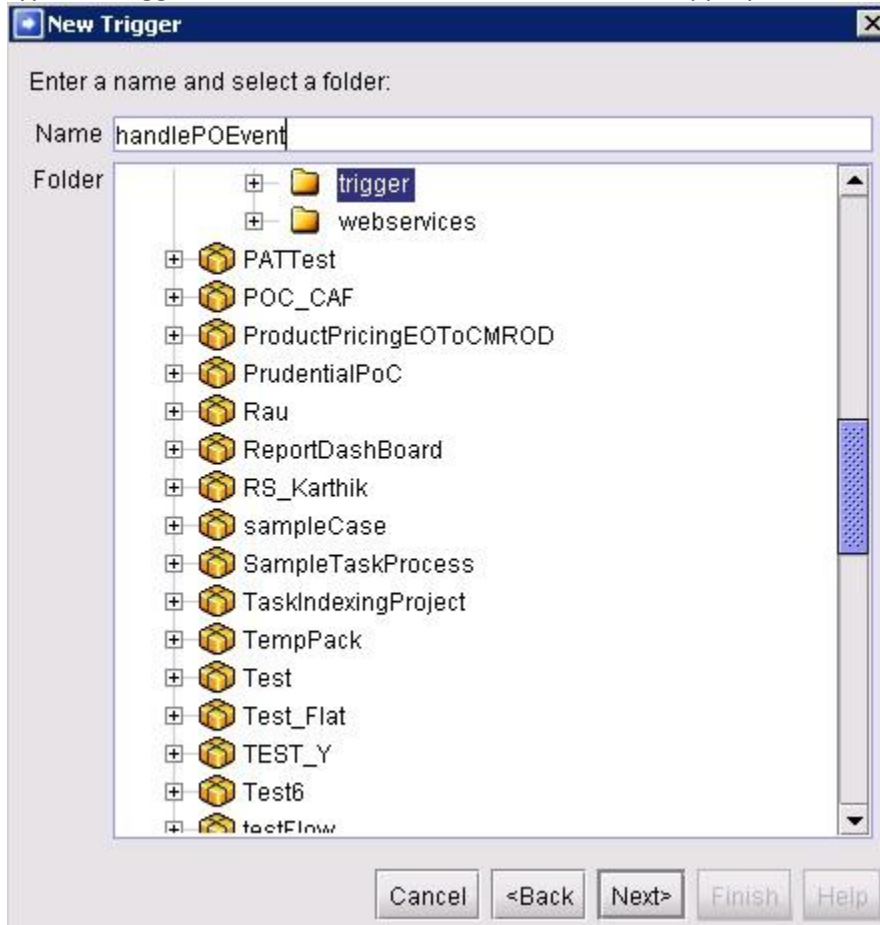


- 4) Select **Broker/Local Trigger** for the list and click **Finish**.
- 5) A trigger is created with specified name.
- 6) In the editor, do the following to subscribe to document type and to choose service:
 - In the **Name** field, type the name you want to assign to the condition.
 - In the **Service** field, click on . Developer displays the **Select** dialog box. Select the appropriate service.
 - In the **Document types and filters** field, click on . Developer displays the **Select one or more publishable document types** dialog box. Select the appropriate publishable document type.

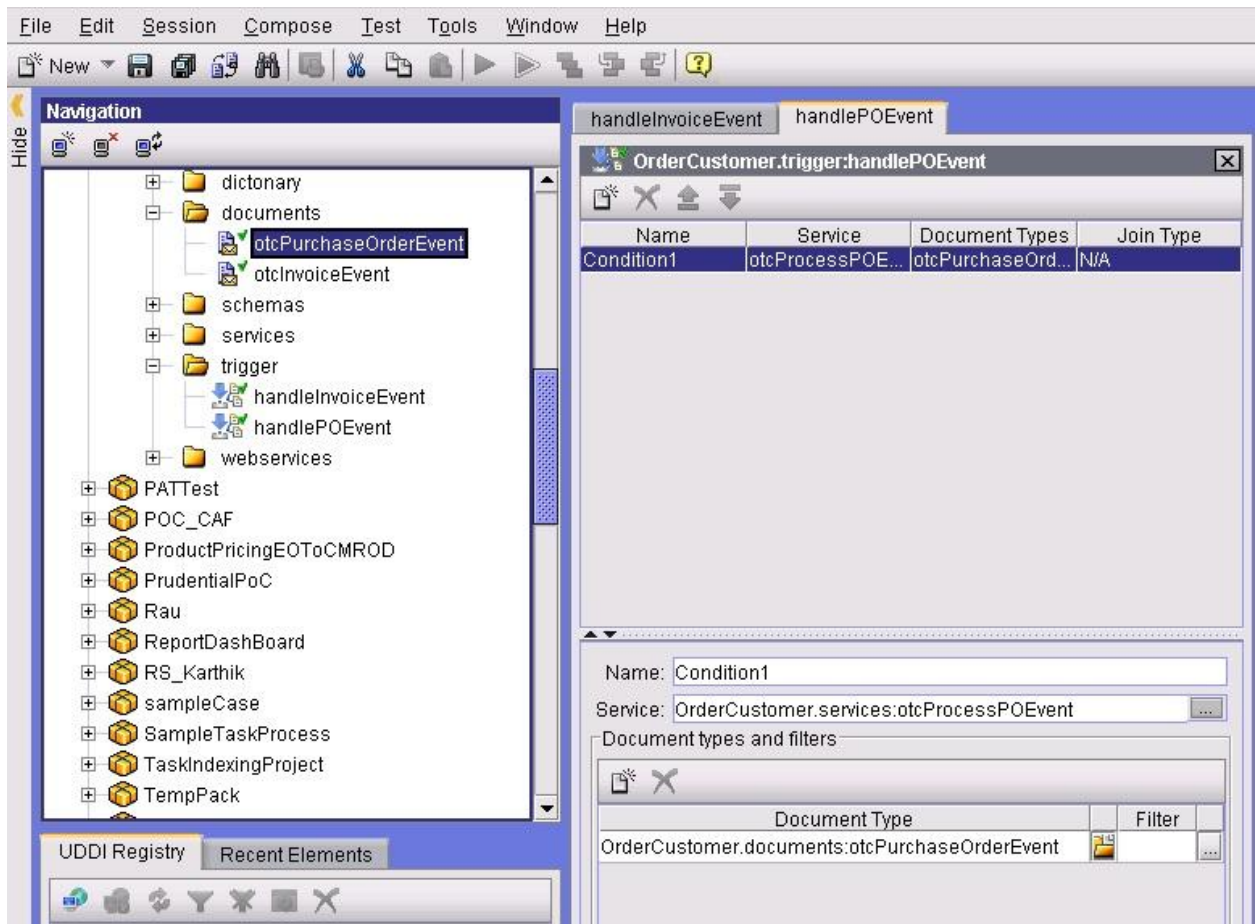


Steps to create trigger

- 1) Right click on triggers folder select **New** -> **All Choices**. Developer opens the **New Wizard**.
- 2) Select **Trigger** from the list of elements and click **Next**.
- 3) Type the trigger name as **handlePOEvent** and select the appropriate folder. Click **Next**.



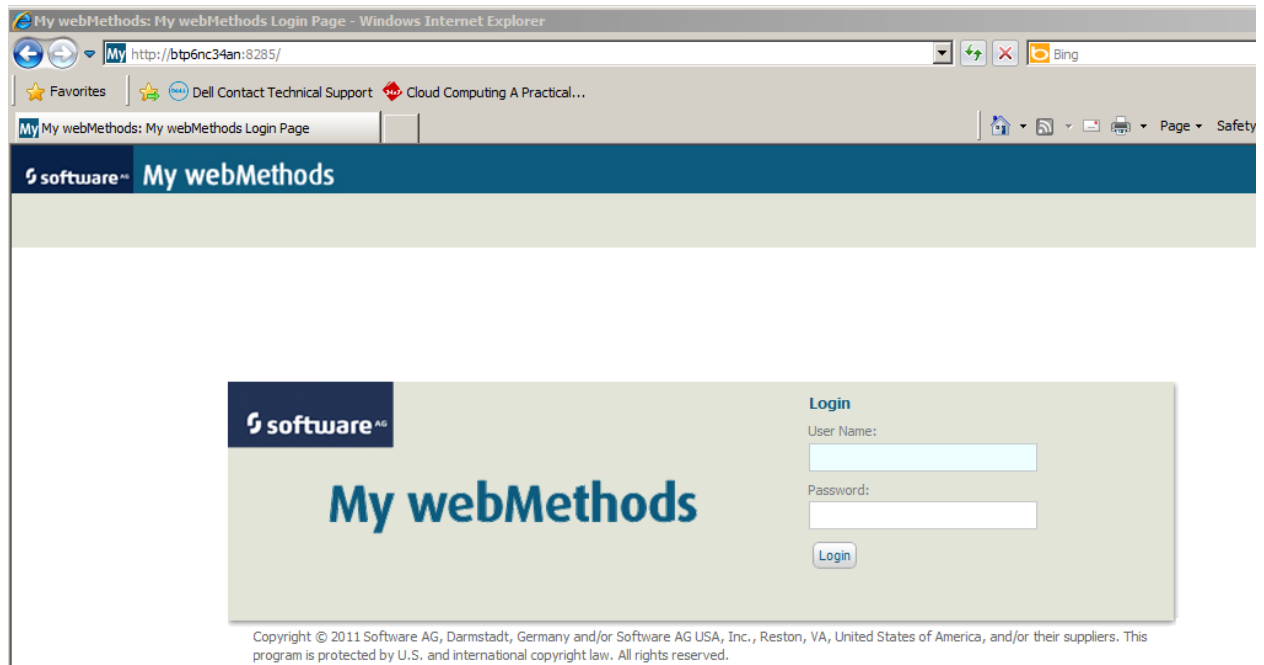
- 4) Select **Broker/Local Trigger** for the list and click **Finish**.
- 5) A trigger is created with specified name.
- 6) In the editor, do the following to subscribe to document type and to choose service:
 - In the **Name** field, type the name you want to assign to the condition.
 - In the **Service** field, click on . Developer displays the **Select** dialog box. Select the appropriate service.
 - In the **Document types and filters** field, click on . Developer displays the **Select one or more publishable document types** dialog box. Select the appropriate publishable document type.



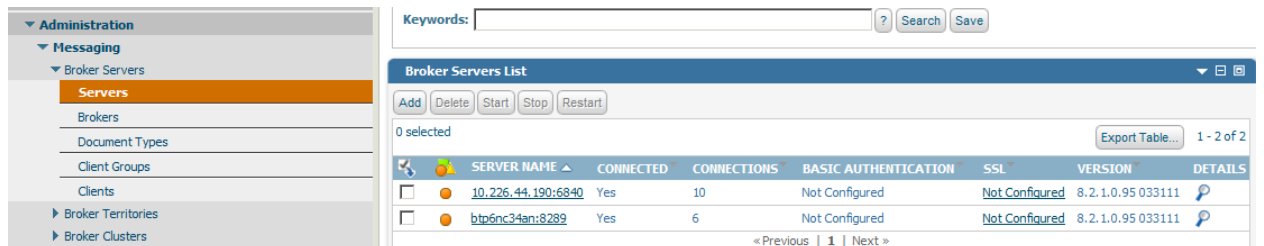
Check Document Types & Clients in MWS (Broker)

Simulate the following administrative actions on Integration server.

- Login into MWS <http://<host>:<port>>. Contact your learning advisor for Hostname, port number & Credentials to access MWS Screens.



- Check the broker configurations



- Check the Document types

Document Types

Keyword Saved Options

Keywords: ? Search Save Close

Server Name:

Broker Name:

Category:

Search Save Clear

Document Type List

Add Topic... Copy Paste Delete

0 selected Export Table... 1 - 2 of 2

Document Type	Broker@Server	Storage Type	Description	Created On
<input type="checkbox"/> wm:is::OrderCustomer::documents::otcInvoiceEvent	Broker #1@localhost:3349	Guaranteed		2011-12-27 01:39:15 EST
<input type="checkbox"/> wm:is::OrderCustomer::documents::otcPurchaseOrderEvent	Broker #1@localhost:3349	Guaranteed		2011-12-27 01:26:16 EST

- Check the client

Clients

Broker Client Search Bar

Keyword Advanced Saved Options

Keywords: ? Close

Server Name:

Broker Name:

Search Condition: AND Search Save Clear

Client List

Add Test Client... Add Durable Subscription... Add Queue... Copy Paste... Delete

0 selected Export Table... 1 - 2 of 2

Client ID	Broker@Server	Application Name	Client Group	Connected	SSL Sessions	Docs Queued	Locked
<input type="checkbox"/> 1-ROEoDEurgAVIwwwADYaZQs_OrderCustomer.trigger.handleInvoiceEvent	Broker #1@localhost:3349	IntegrationServer	IntegrationServer	Yes	None	0	No
<input type="checkbox"/> 1-ROEoDEurgAVIwwwADYaZQs_OrderCustomer.trigger.handlePOEvent	Broker #1@localhost:3349	IntegrationServer	IntegrationServer	Yes	None	0	No

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