Creating an Oracle Send Port

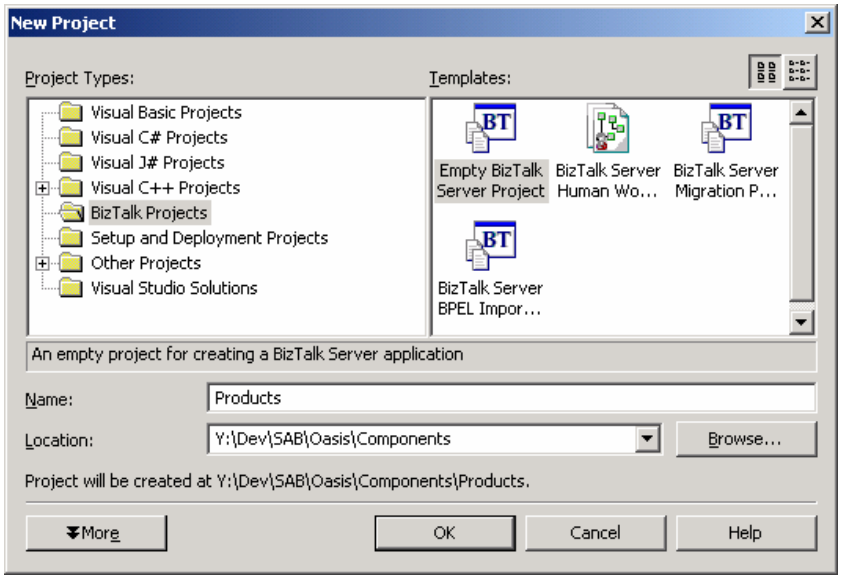
Overview

The aim of the document is to provide step-by-step instructions for creating an Oracle Send Port for updating a Table within Visual Studio .NET and configuring the Port within BizTalk Explorer.

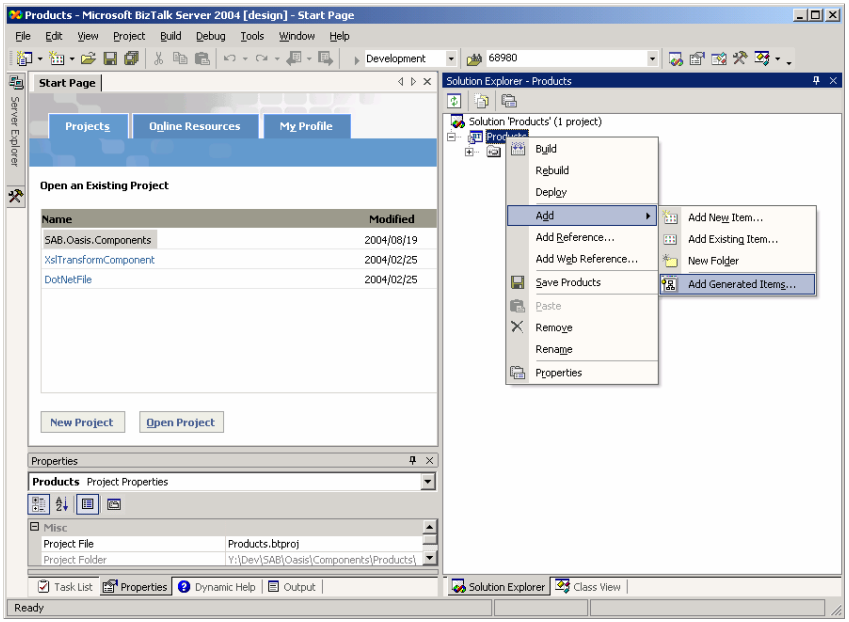
The Oracle Table being used is OE. PRODUCT_INFORMATION, a sample table provided by the default Oracle Sample Database.

Generating the Send Port Schema

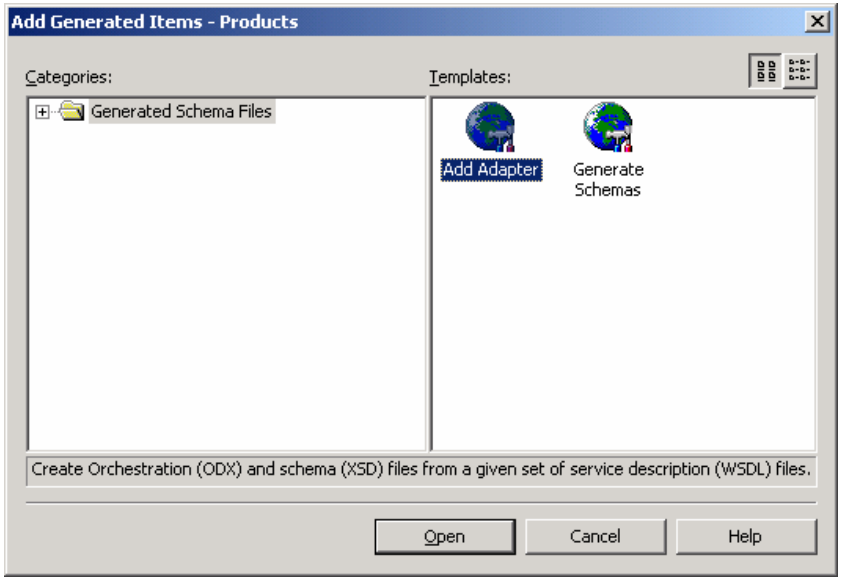
1. Start Visual Studio .NET and create a new BizTalk Server Project. For this sample we will call the Project Products.



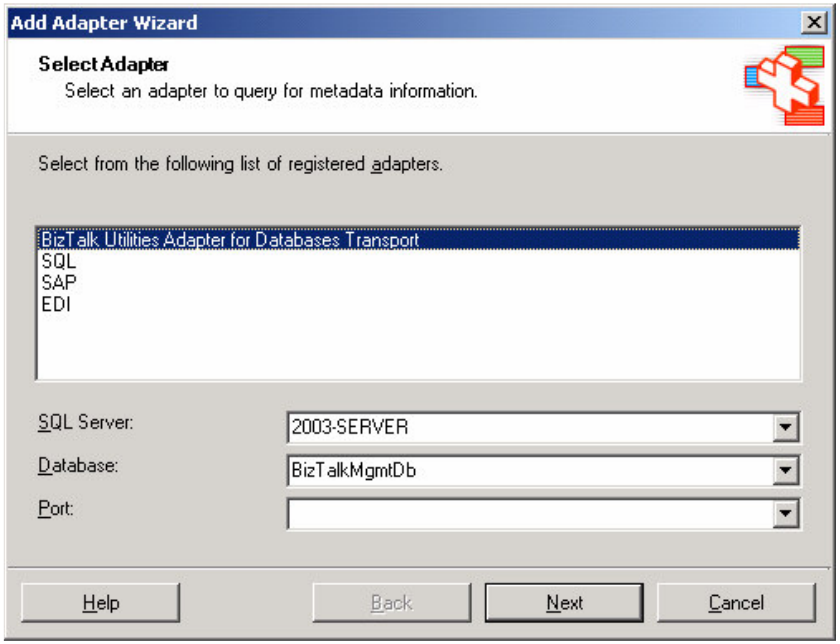
2. Right-Click on the Products Project and select Add/Generated Items…



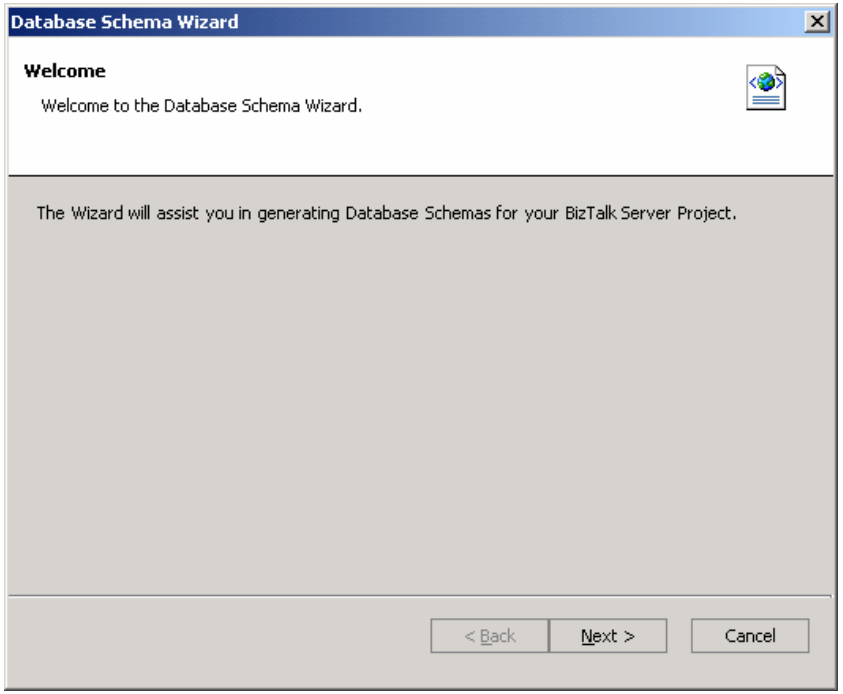
3. Select Add Adapter and Click on the Open Button.



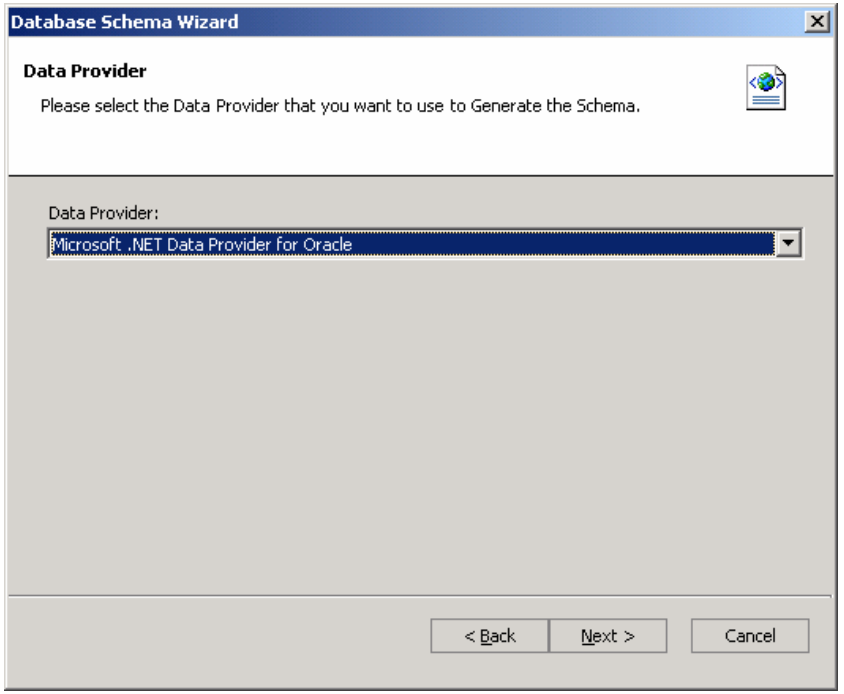
4. Select the BizTalk Utilities Adapter for Databases Transport Adapter from the List, and click on the Next Button.



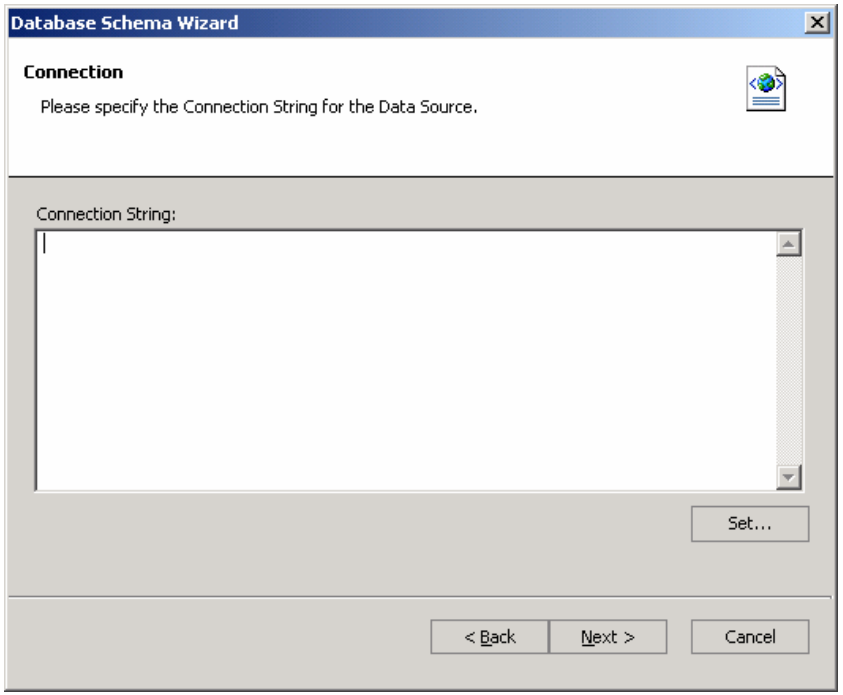
5. The Welcome screen for the Database Schema Wizard Appears. Click on the Next Button.



6. You will now be prompted for the Data Provider to use. Because we want to send data to an Oracle Database, we .will select the Microsoft .NET Data Provider for Oracle item and click on the Next Button.



7. The Wizard now requires you to enter a Connection String for the Oracle Database from which the Database Schema needs to be generated. The easiest way to configure the Connection String is to click on the Set button and configure the Connection String with the Data Link Dialog.

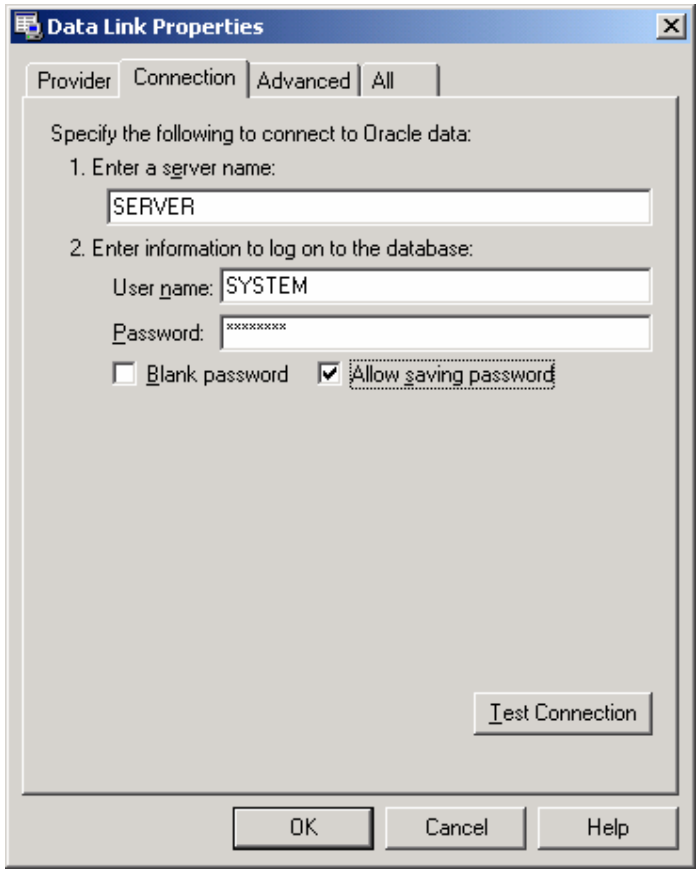


8. The easiest way to configure the Connection String is to click on the Set button and configure the Connection String with the Data Link Dialog.

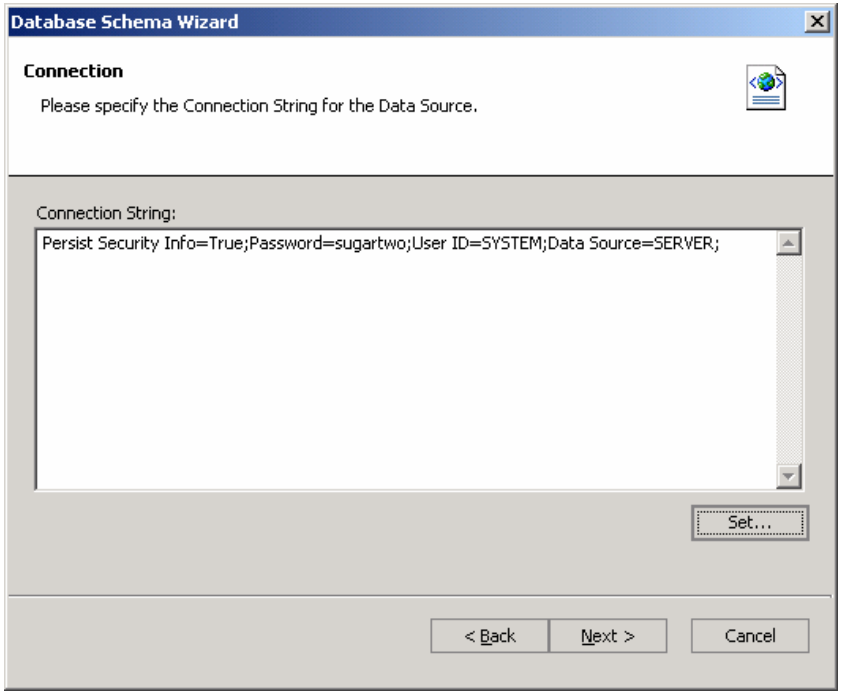
9. Enter the name of your Oracle Server as well as the User Information with which you want to Log on. Please remember to check the Allow saving Password option so that the Connection String contains the Password that you have specified.

10. To test the connection you can click on the Test Connection button to see if the information that you have entered is correct.

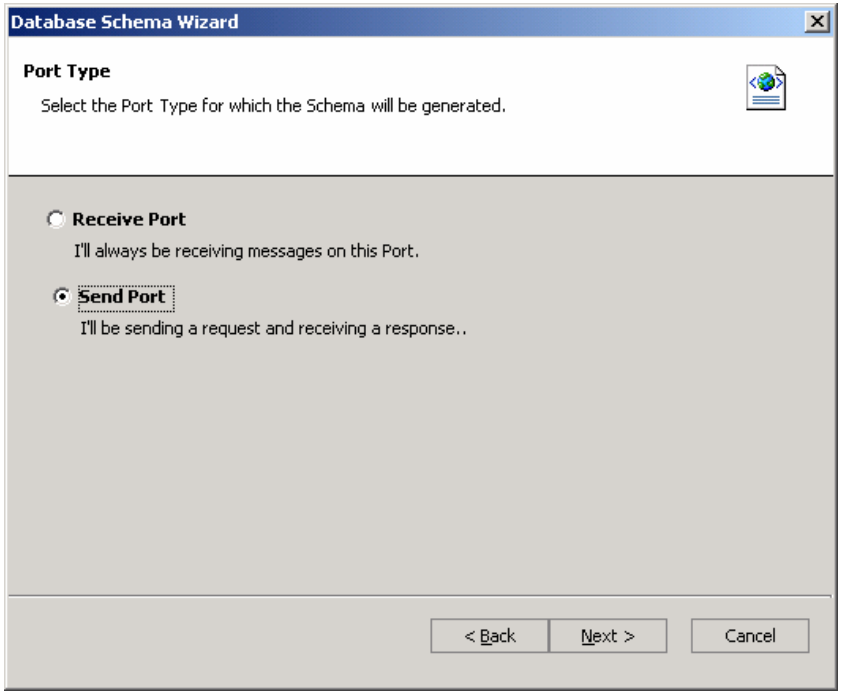
11. Once you are happy with the Connection Information you can click on the OK button to save your changes.



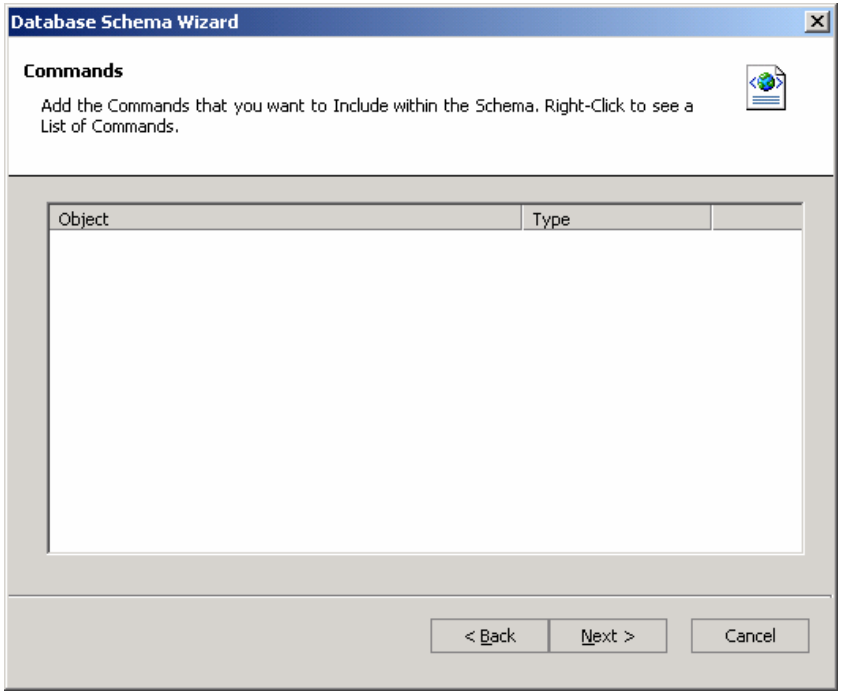
12. The Wizard Page will now contain the Connection String that you specified. You can click on the Next Button to continue.



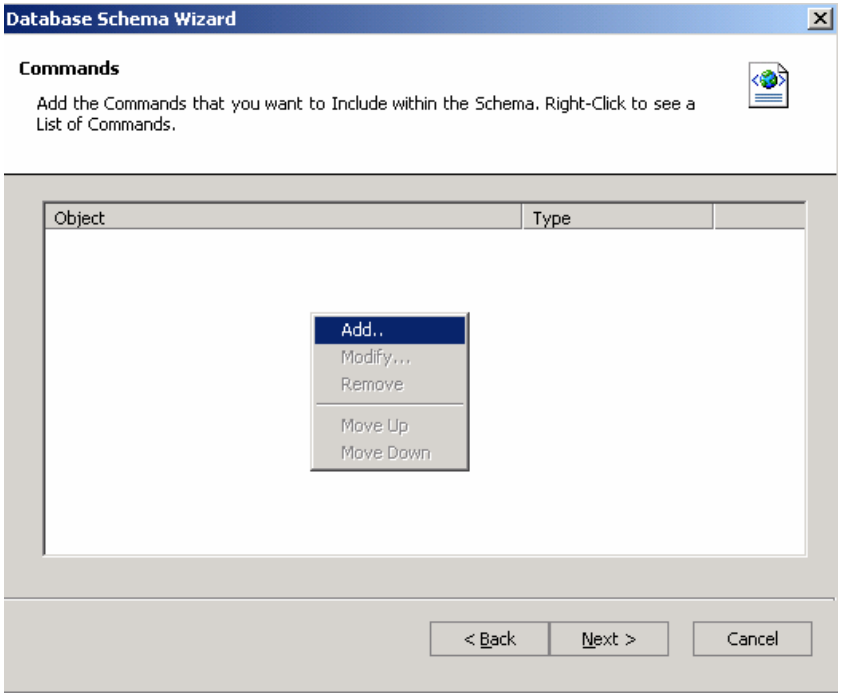
13. Because we want to send Data to the Oracle Database, select Send Port in the Port Type Dialog and click on the Next Button to continue.



14. The Wizard now needs to know which Tables and Stored Procedures you want to use within the generated Database Schema.



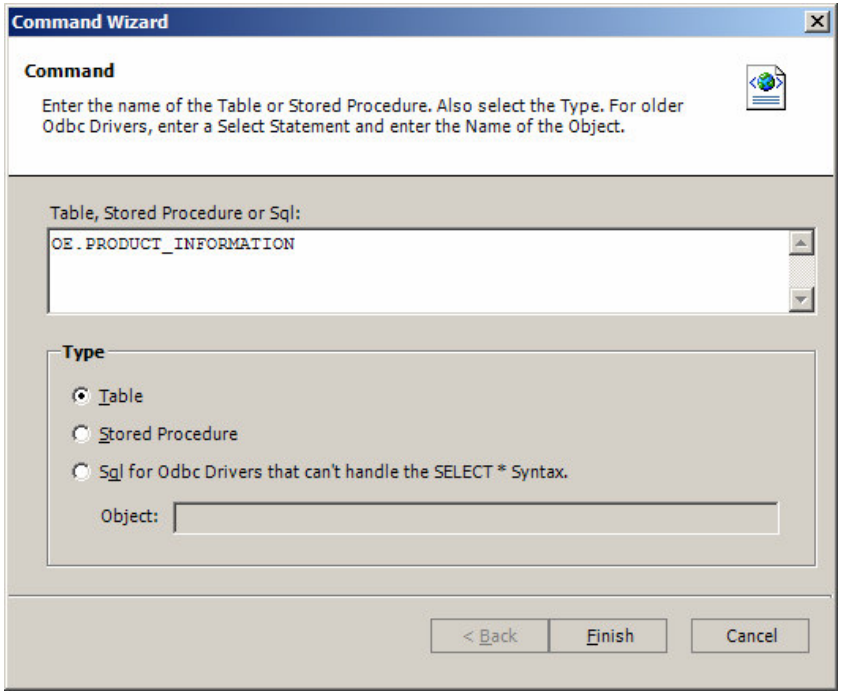
15. In this case we want to access the Products table. We will add a new object to the List by Right-Clicking and selecting Add…



16. The Command Wizard will now appear.

17. We want to add the Table OE. PRODUCT_INFORMATION, so we will enter the name of the Table into the Wizard and Select Table as the Command Type. Because the Products Table is located in the SH Schema, we need to prefix the Table name with SH.

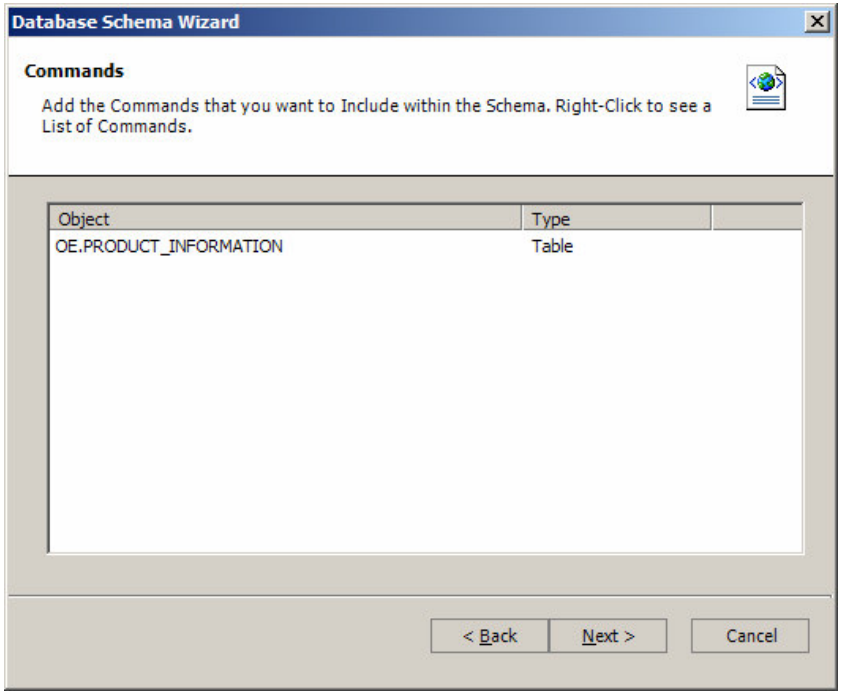
18. Click on the Next Button to continue.



19. Our Commands Dialog now contains the OE.PRODUCT_INFORMATION table.

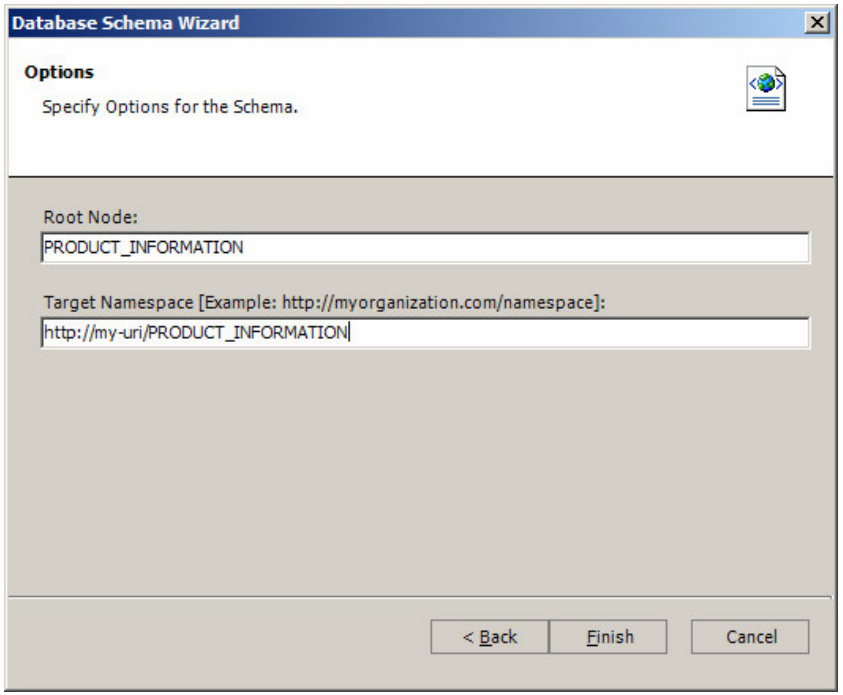
20. If we wanted to add more Tables or Stored Procedures within the Database Schema. We could run the Command Wizard again.

21. Click on the Next Button to Continue.



22. In the Options Dialog, enter the name of the Root Node for the Database Schema and enter a Target Namespace for the Schema.

23. Click on the Finish Button to generate the Database Schema.

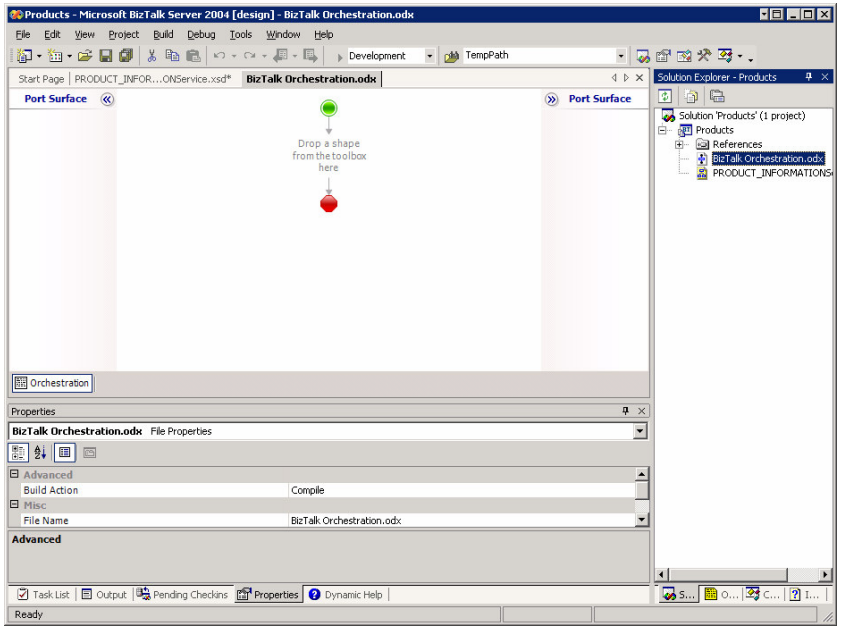


24. The Database Schema will now be generated and added to the Products BizTalk Server Project.

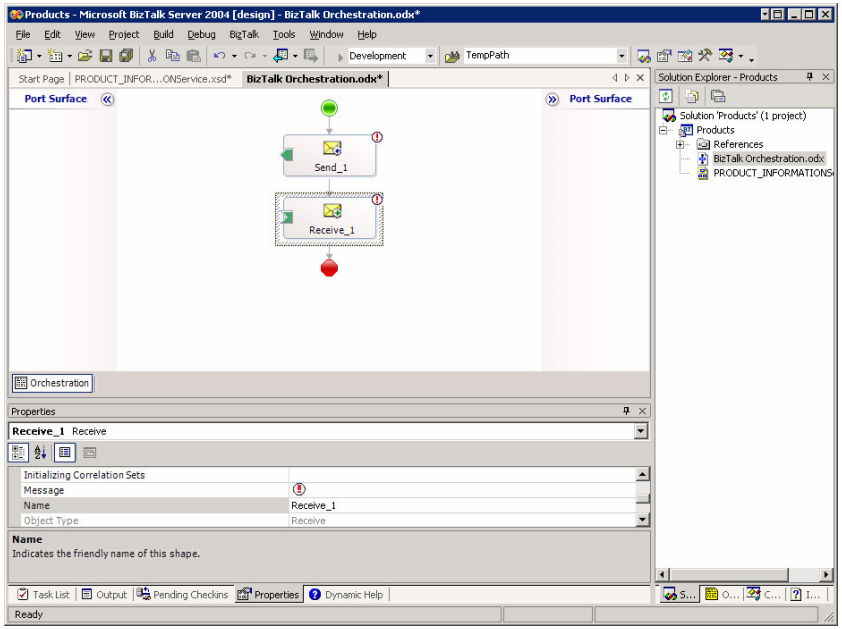
25. Certain Errors may occur during the Schema Generation Process. You will be prompted with the Error Information and asked if you want to run the Wizard Again to correct any information that you have supplied to the Wizard.

Creating the Send Port on the Orchestration

1. Open the Orchestration that was created by the Database Schema Wizard. This is usually called BizTalk Orchestration.odx.

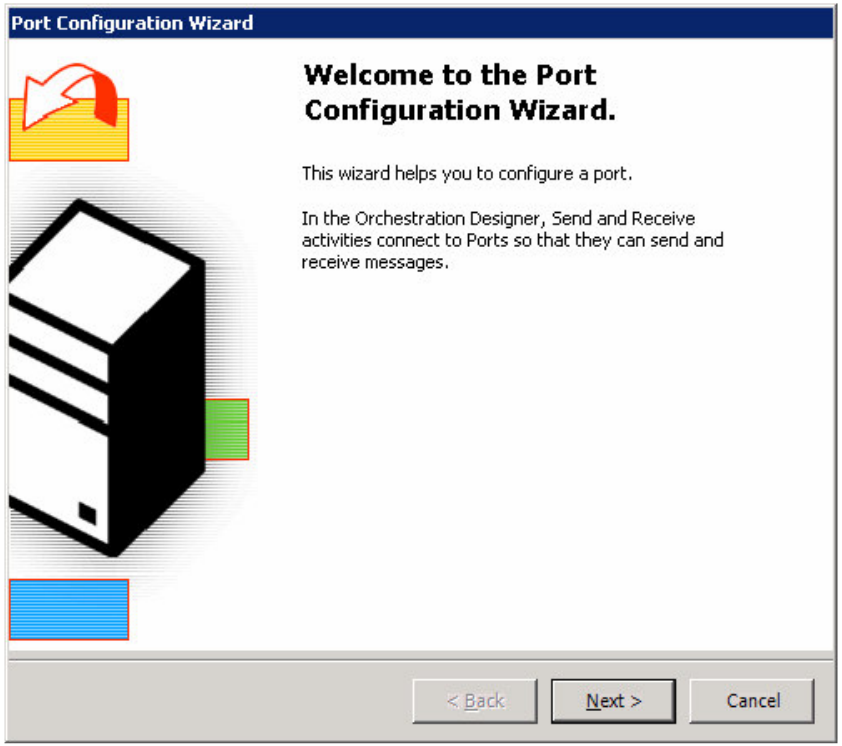


2. When calling the Adapter you will Send Data and receive a response. Add a Send and Receive Shape to the Orchestration.

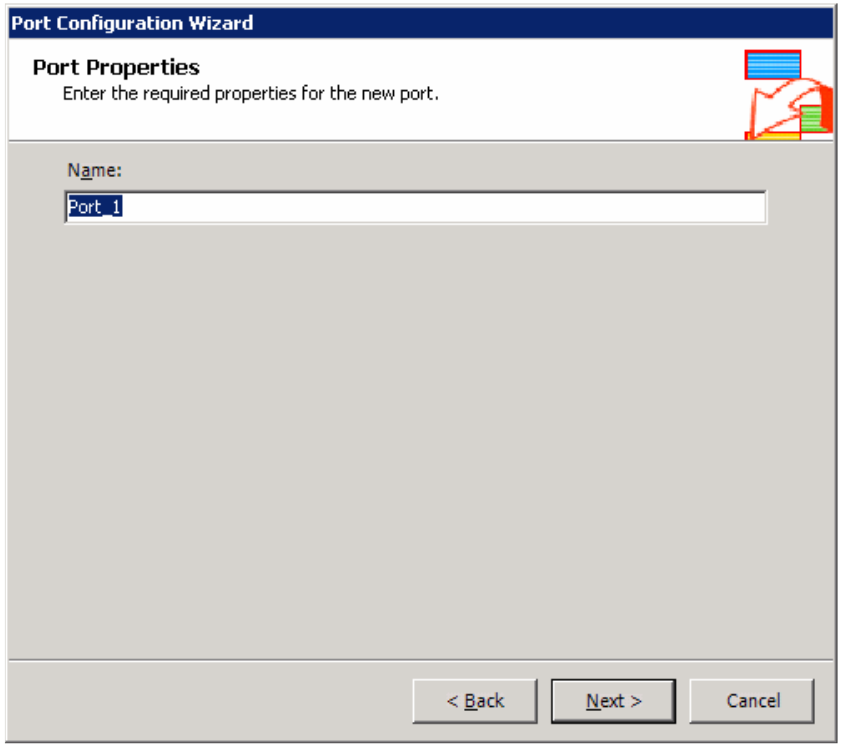


3. No we can add a Port for calling the Adapter. Right-Click on the Port Surface Area and select New Configured Port…

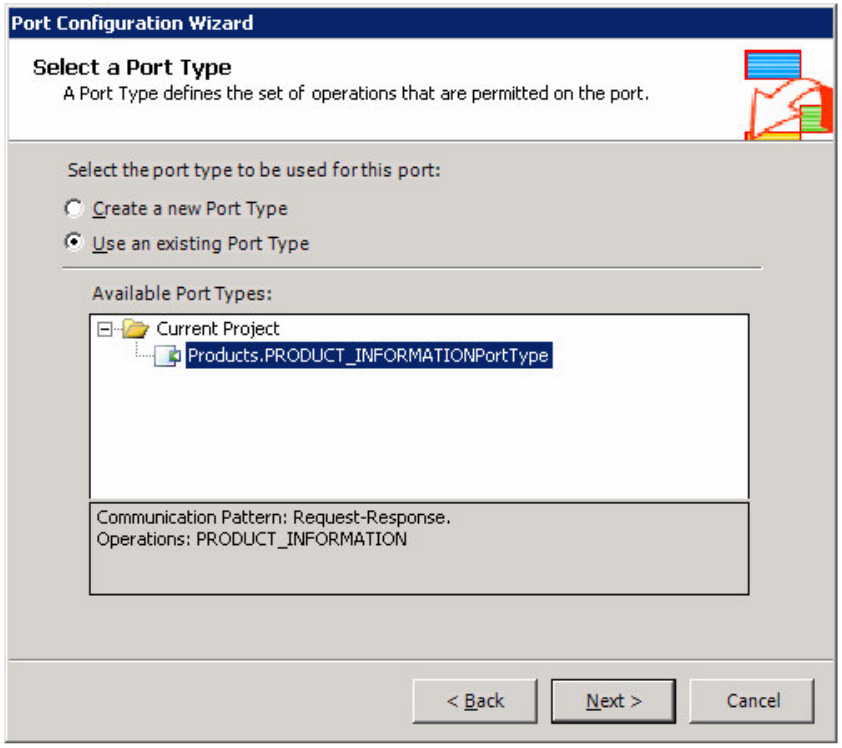
4. The Port Configuration Wizard will appear. Click on the Next Button to Continue.



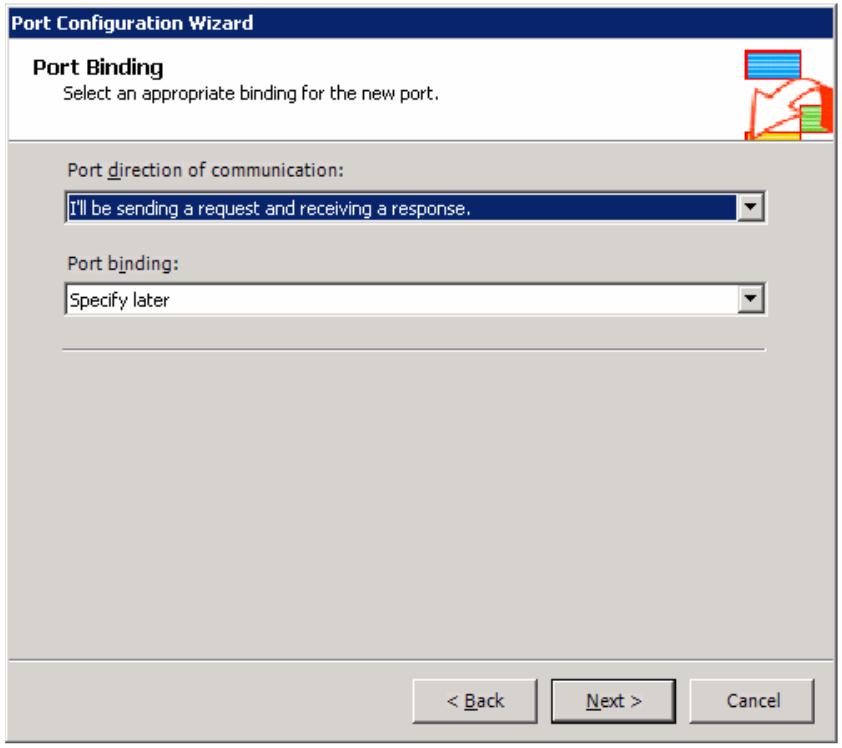
5. Enter a Name for the Port. In this example we will keep the Default name Port_1. Click on the Next button to continue.



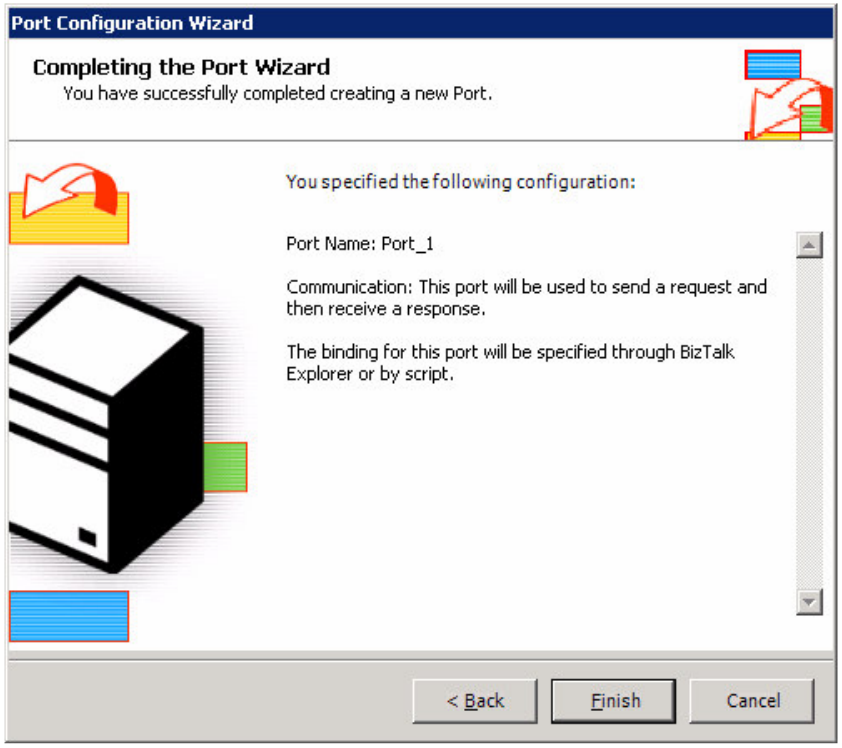
6. Select the Use an existing Port Type Radio button and select Products.PRODUCT_INFORMATIONPortType as the Port Type. Click on the Next Button to Continue.



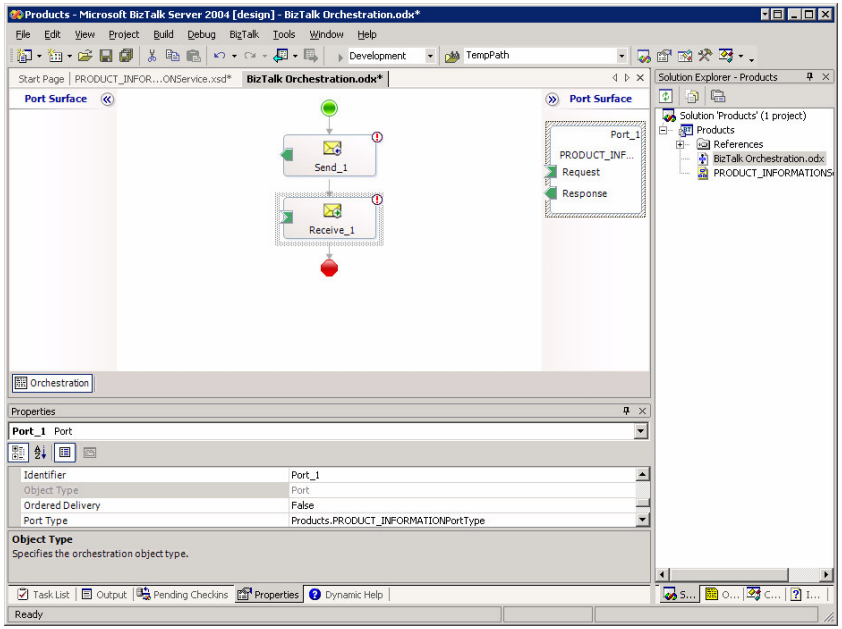
7. In the direction drop-down select “I’ll be sending a request and receiving a response.” option. In the binding drop-down select “Specify Later”. Click on the Next Button to Continue.



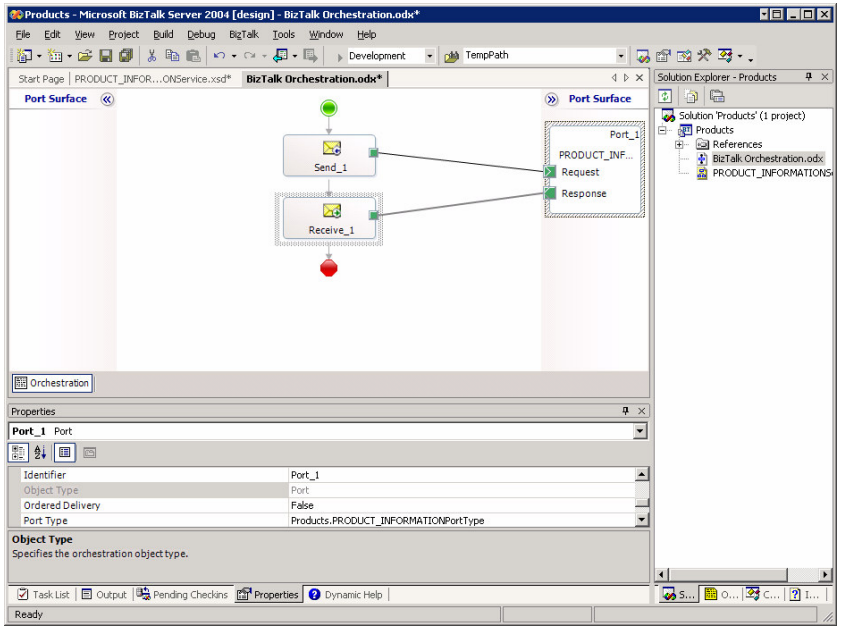
8. Click on the Finish Button on the Summary Dialog to complete the Configuration Process.



9. The Orchestration should now have a new Port called Port_1.



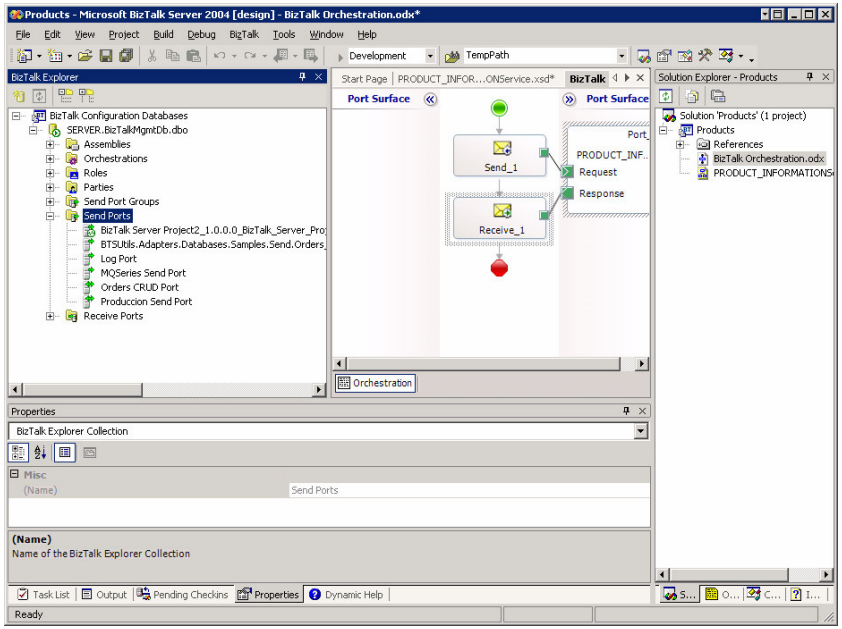
10. Attach the Send Shape to the Request Method and the Receive Shape to the Response Method.



Creating the Send Port in the BizTalk Explorer

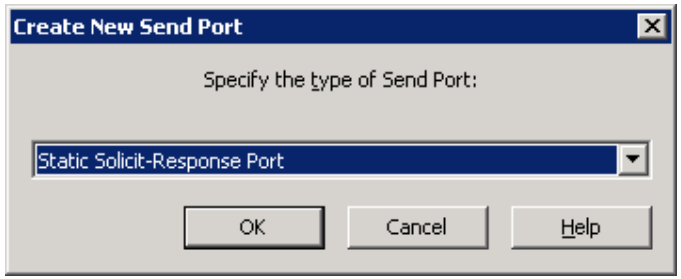
1. Open the BizTalk Explorer by Clicking View/BizTalk Explorer within Visual Studio .NET.

2. Navigate to Send Ports.

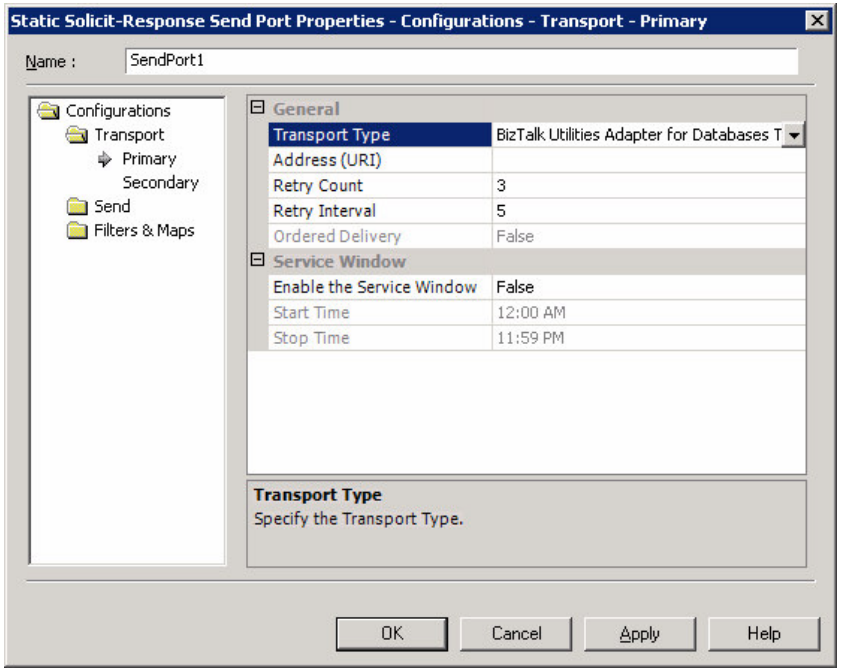


3. Right Click on the Send Ports node and select Add Send Port from the Context Menu.

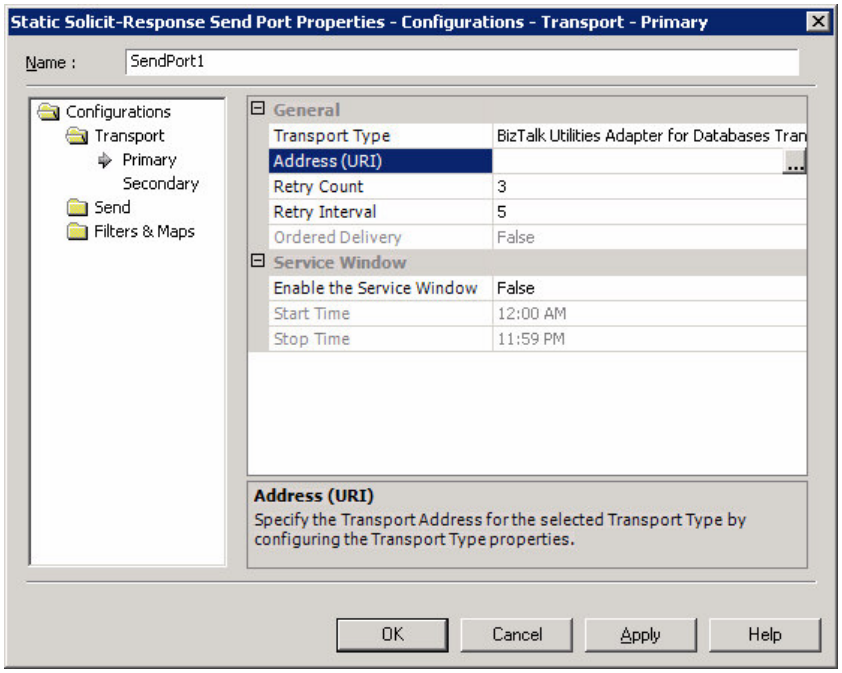
4. Select Static Solicit-Response Port from the type drop-down.



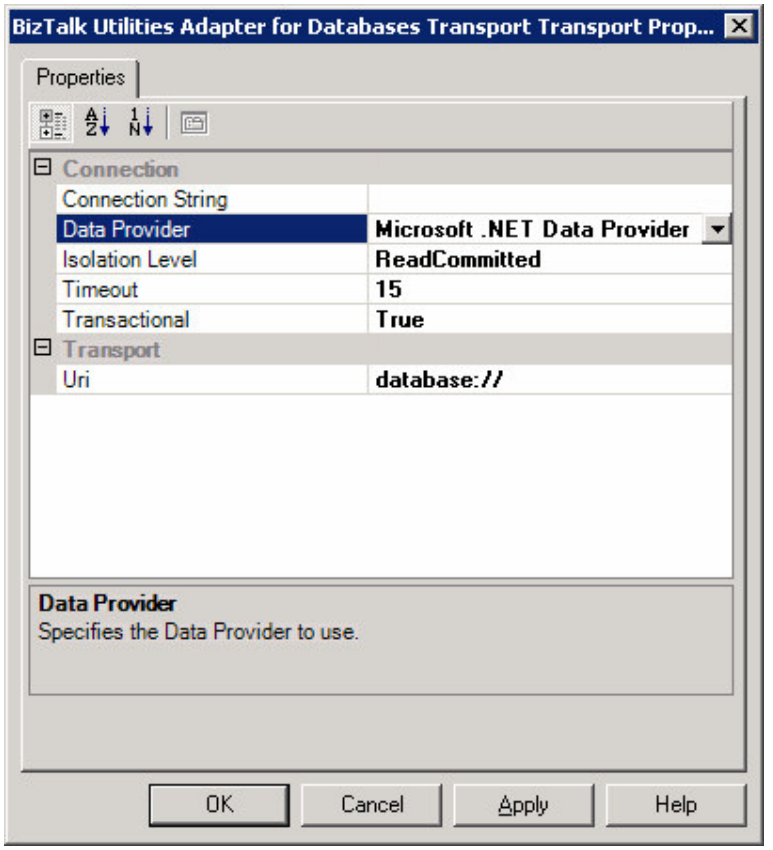
5. Select the BizTalk .Utilities Adapter for Databases Transport from the Transport Type Dialog.



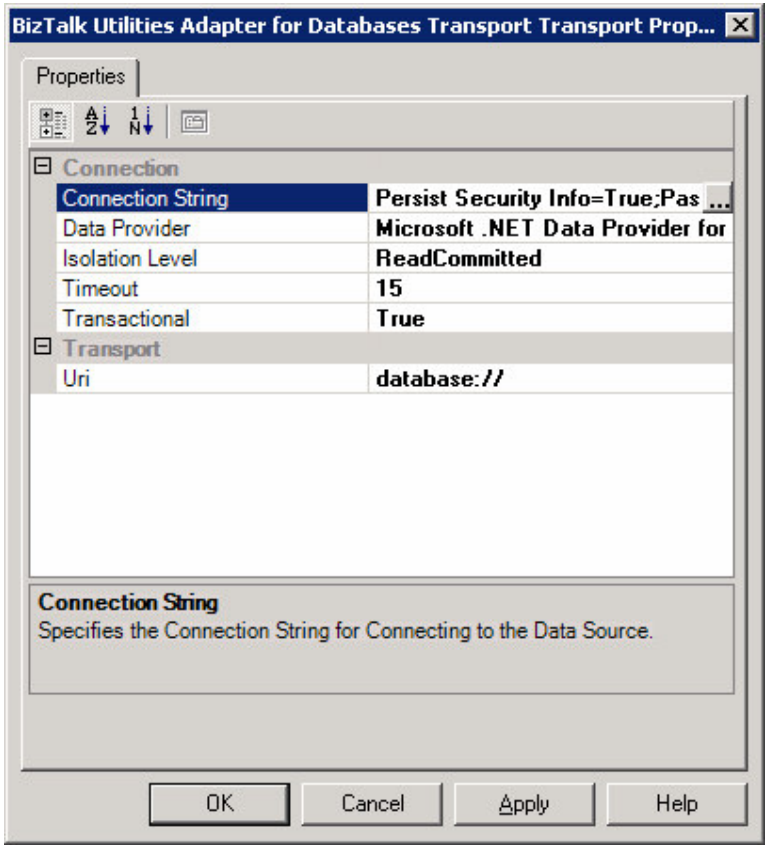
6. Click on the Editor Button (…) when selecting the Address (URI) option.



7. Select the Oracle Provider within the Data Provider drop-down.

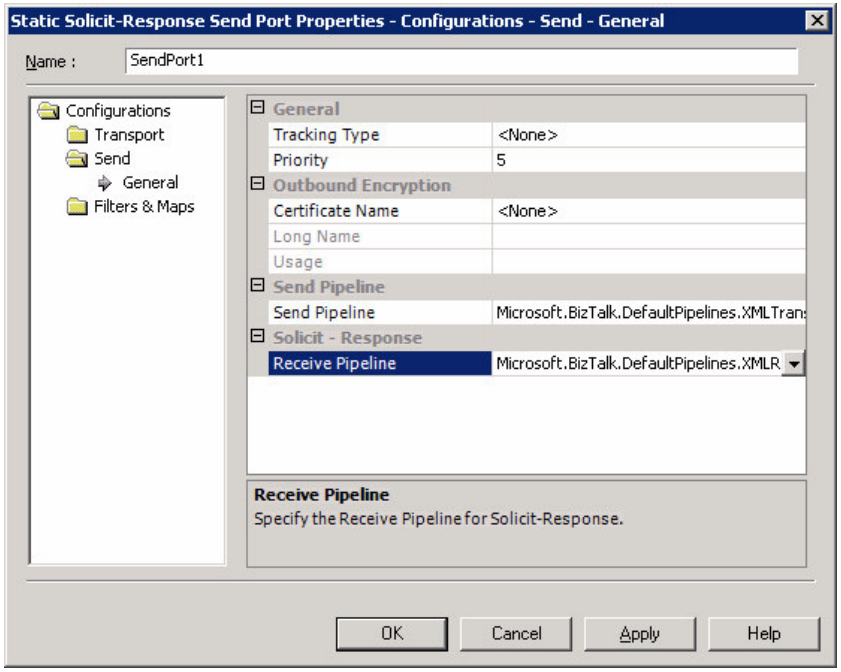


8. Configure the Oracle Connection string by clicking on the Editor (…) button.

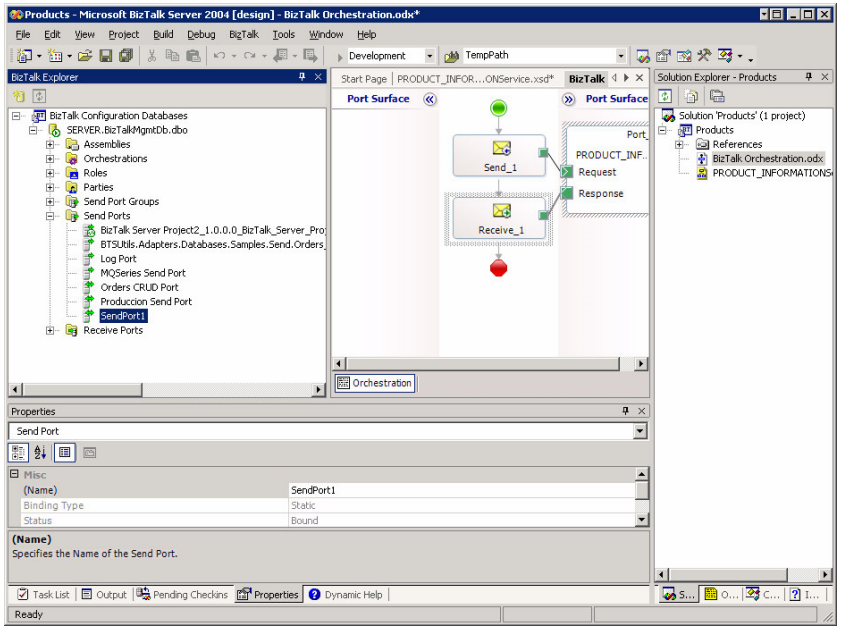


9. Click on the OK button to continue.

10. Under Send General, select the default Microsoft XML Pipelines for the Send and Receive pipelines.



11. Click OK to complete the configuration of the Send Port.


Products - Microsoft BizTalk Server 2004 [design] - BizTalk Orchestration.odx*
File Edit View Project Build Debug BizTalk Tools Window Help
Development
TempPath
BizTalk Explorer
BizTalk Configuration Databases
SERVER.BizTalkMgmtDb.dbo
Assemblies
Orchestrations
Roles
Parties
Send Port Groups
Send Ports
BizTalk Server Project2_1.0.0.0_BizTalk_Server_Pro
BTSUtils.Adapters.Databases.Samples.Send.Orders_
Log Port
MQSeries Send Port
Orders CRUD Port
Produccion Send Port
SendPort1
Receive Ports
Start Page
PRODUCT_INFOR...ONService.xsd*
BizTalk
Port Surface
Port Surface
Send_1
Receive_1
Port_
PRODUCT_INF..
Request
Response
Orchestration
Solution Explorer - Products
Solution 'Products' (1 project)
Products
References
BizTalk Orchestration.odx
PRODUCT_INFORMATIONS
Properties
Send Port
Misc
(Name)
SendPort1
Binding Type
Static
Status
Bound
(Name)
Specifies the Name of the Send Port.
Task List
Output
Pending Checkins
Properties
Dynamic Help
Ready