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Duration: 30 minutes

The following exercises will help you to sharpen basic skills needed to use the webMethods SAP Adapter. Exercises include discussions of the steps involved in performing the tasks listed. Finished packages are provided to show how services are built.

Prerequisites

To get the most value out of this tutorial, a basic working knowledge of webMethods ESB services is helpful. Please complete the introductory tutorial:

- [webMethods Flow Tutorial](#)
- webMethods Integration Server is up and running. Instructions on how to start the IS are found in the **Prerequisites** part of the 1. Create an IS Package and Folders (<http://techcommunity.softwareag.com/pwiki/-/wiki/Main/webMethods+Flow+Tutorial+-+Create+an+IS+Package+and+Folders>) FLOW tutorial.

In addition, a basic knowledge of Software AG Designer is helpful, but not required.

Step Outline

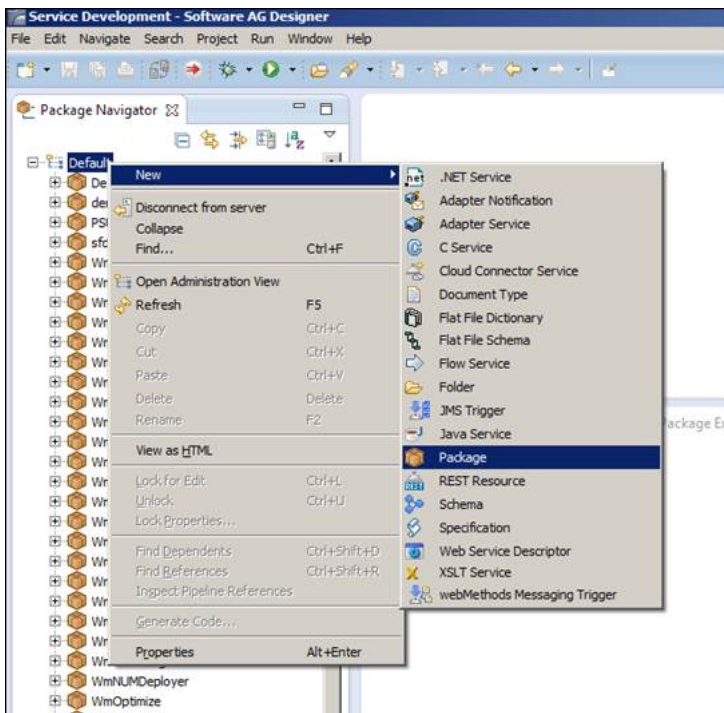
You use the webMethods SAP Adapter to communicate with SAP systems. The steps for establishing this communication are:

- Create a new IS Package and Folders
- Create an RFC Connection to SAP
- Create an SAP adapter service
- Run the adapter service

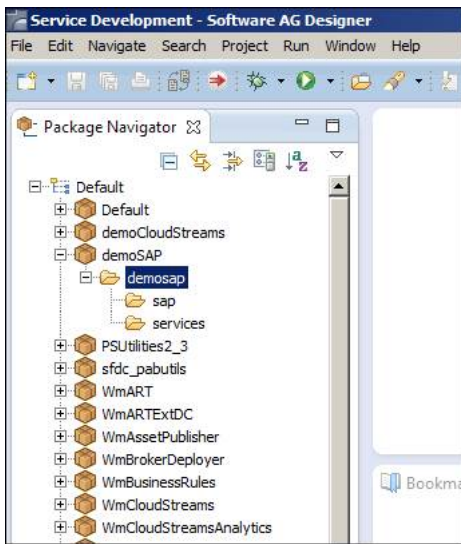
Step 1: Create a new IS Package and Folders

In this Step: You will create a package to hold the SAP tutorial assets

1. Open Software AG Designer and go to the **Service Development** perspective by selecting the **Service Development** perspective toolbar button or by selecting **Service Development** from the **Window -> Open Perspective -> Other...** dialog and click **OK**.
2. From the **Package Navigator** view, right-click on **Default**, then select **File -> New -> Package**



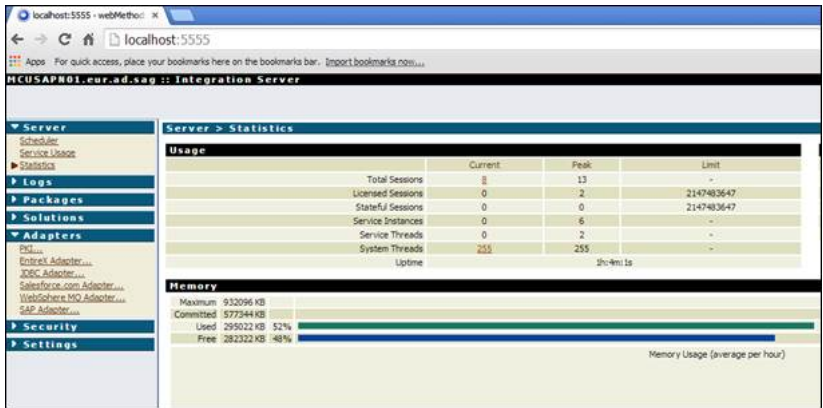
3. In the **New Integration Server Package** dialog enter **demoSAP** in the **Package name:** field and click **Finish**.
4. Create a folder hierarchy by right-clicking on the **demoSAP** package, select **New -> Folder**, enter **demosap** in the **Folder name:** field and click **Finish**. Do this 2 more times to create 2 subfolders called **sap** and **services** by right-clicking on the **demosap** folder. The package should look like the following:



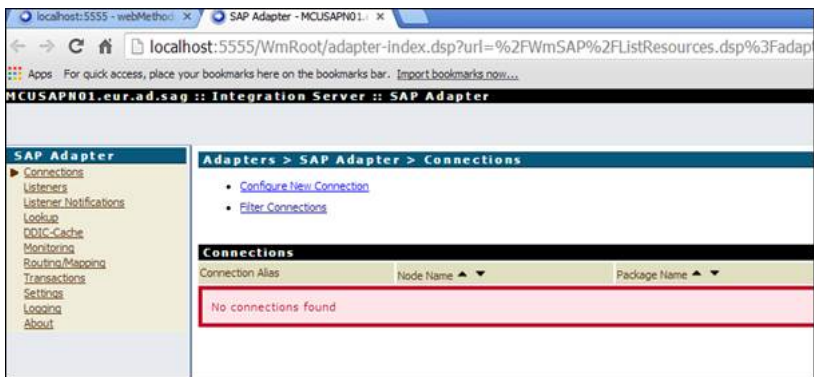
Step 2: Configure an RFC connection to SAP

In this Step: You will configure a synchronous RFC connection with your SAP system.

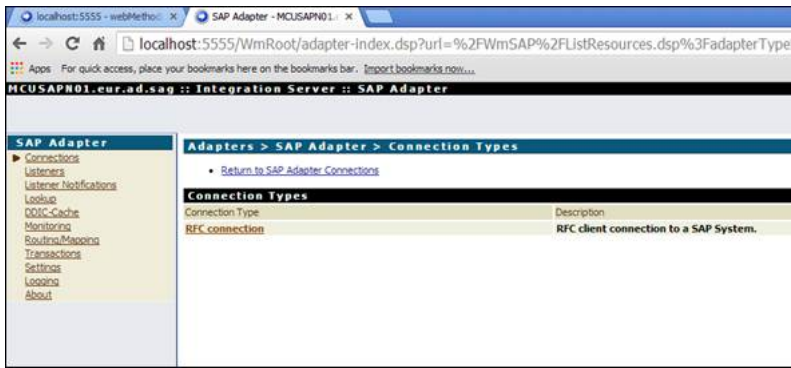
1. Open a web browser and navigate to the Integration Server administrator page located at **<webMethods Integration Server (localhost)>:5555**.



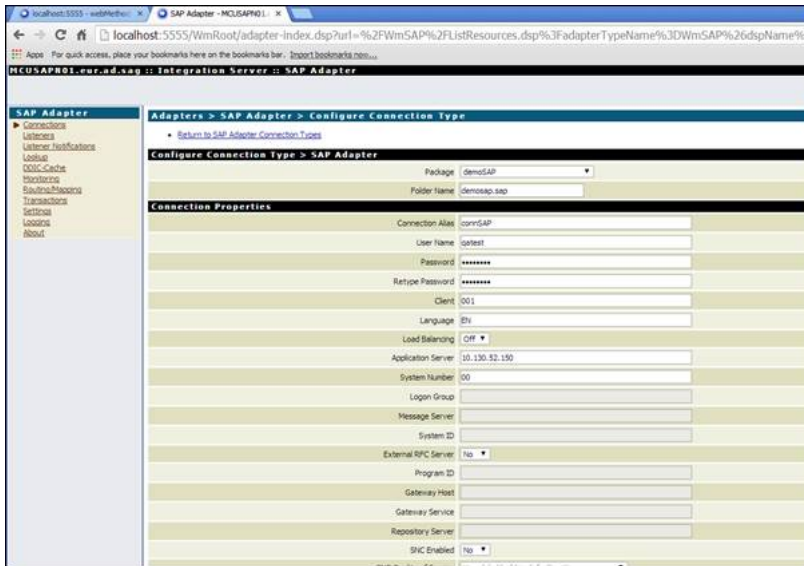
2. Expand the **Adapters** menu header on the left menu bar and click the **SAP Adapter...** link.



3. In the **SAP Adapter Administration** page click the **Configure New Connection** link to create a new SAP Adapter Connection to your SAP System. This starts a wizard that walks the user through creating a new connection.
4. Click the **RFC connection** link.

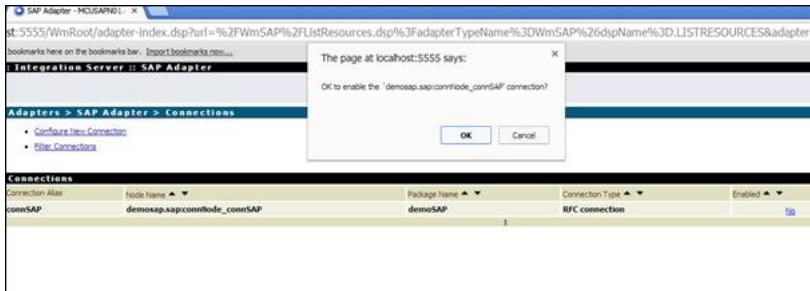


5. The SAP adapter connection configuration page is now displayed. This page has many fields that support many SAP deployment architectures including clustered and SAP security. In this case, we will configure a simple SAP RFC connection to one server. Using the screenshot as an example, edit the values that conform to your SAP server.

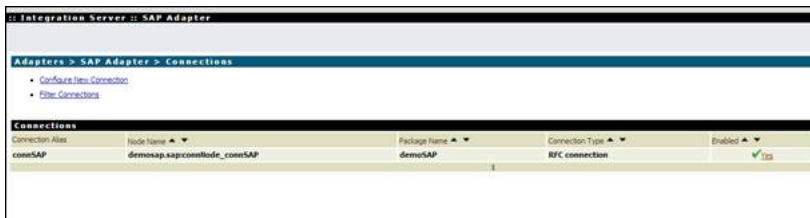


6. Click the **Save Connection** link at the bottom of the page. This saves the connection information and creates an SAP adapter connection object that is viewable from the Software AG Designer.

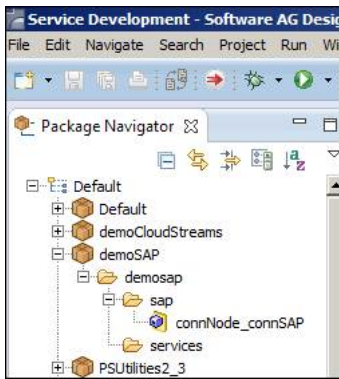
7. Enable the connection by clicking the **No** link under the **Enabled** column. Click the **OK** button to confirm you want to enable the connection.



8. The SAP adapter connection should now be enabled.



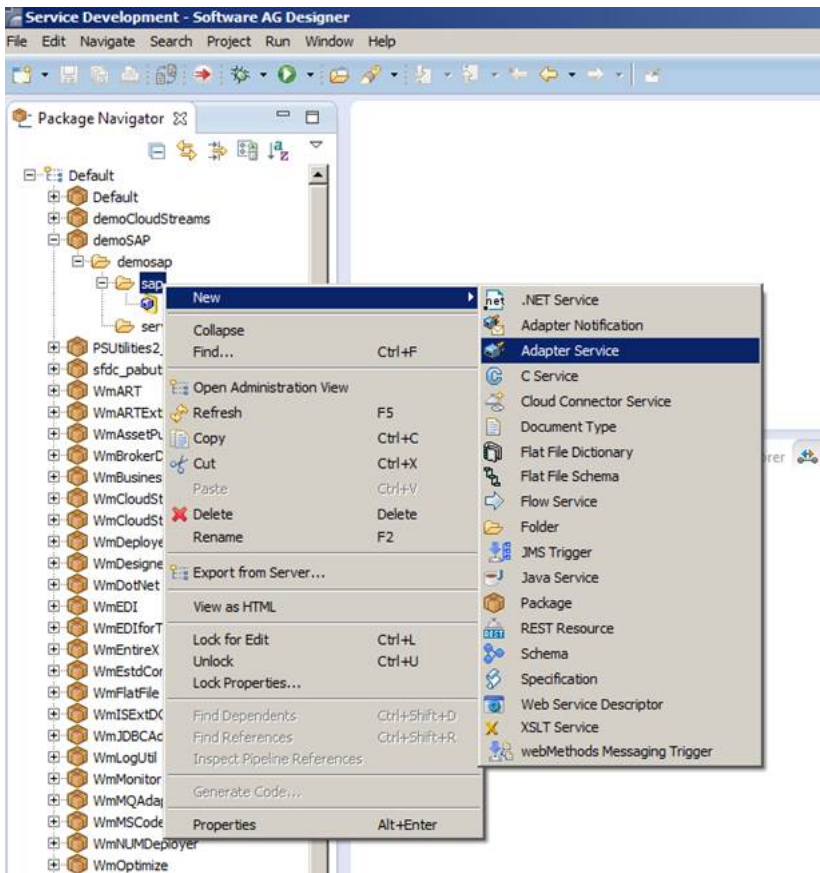
9. To see how the adapter connection is displayed in the IDE, go to Software AG Designer. Right click the **demoSAP** package and select **Refresh**. The package contents and structure should appear as shown.



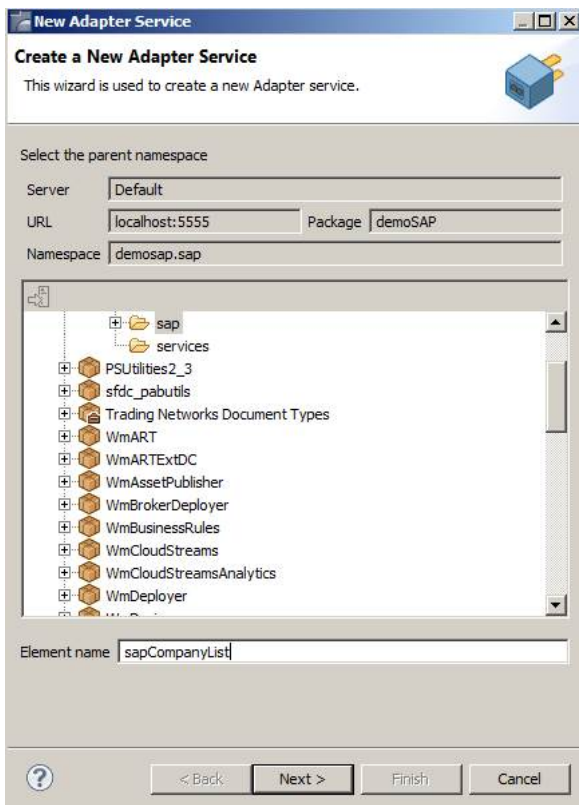
Step 3: Create an SAP adapter service

In this Step: You will leverage the SAP adapter connection that we created in the first step and create an adapter service.

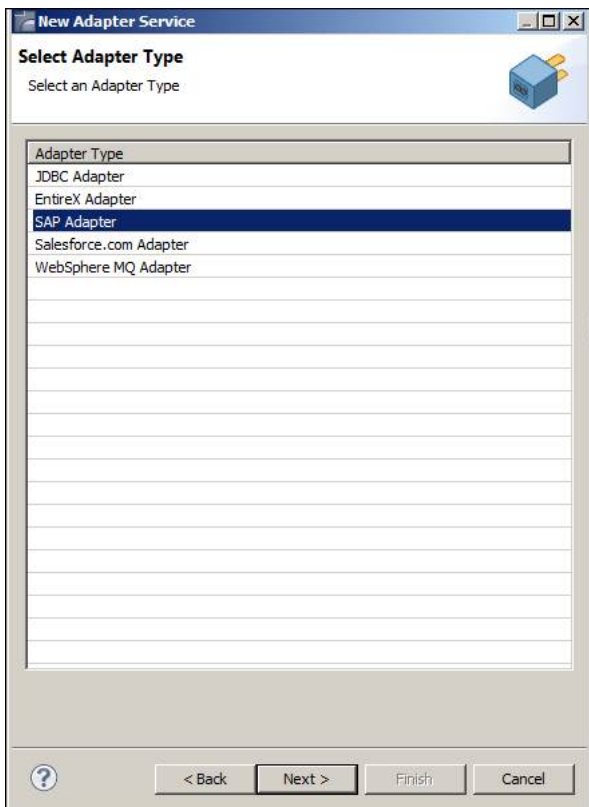
1. Right click on the **sap** folder of your tutorial package as shown and select **New -> Adapter Service**.



2. The adapter service wizard will prompt you for a name for the new service. We will be executing an SAP Remote Function Call (RFC) to get a listing of companies that are in the SAP system. In the **Element name** field, enter **sapCompanyList** and click **Next >**.



3. In the **Select Adapter Type** dialog, select **SAP Adapter** and click the **Next >** button.



4. In the **Select an Adapter Connection Alias** dialog, you will see two connections displayed. The **emptyConnection** is used for advanced purposes. In our case, select the **demosap.sap:connNode_connSAP** connection which we created and enabled and click the **Next >** button.

