

# Using WebGrid.NET Enterprise 6.0 in Microsoft SharePoint Designer 2007

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This white paper describes the techniques and walkthroughs to consume Intersoft WebGrid.NET Enterprise 6.0 in Microsoft SharePoint Designer 2007 for building web pages for SharePoint 2007 portal sites.

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## Prerequisites

The following is the list of prerequisites of the required software and development environments before you can follow the walkthroughs described in this white paper.

- Windows 2003 Server with IIS installed.
- Microsoft Office SharePoint Server 2007.
- Microsoft Office SharePoint Designer 2007.
- Intersoft WebUI Studio.NET 2007 R2.

If you don't currently have SharePoint Server 2007 installed and wish to experiment with Intersoft WebUI Studio.NET 2007 R2, please download SharePoint Server 2007 Virtual PC Image from Microsoft Website at <http://www.microsoft.com/downloads/details.aspx?FamilyID=67f93dcb-ada8-4db5-a47b-df17e14b2c74&DisplayLang=en>.

Next, download SharePoint Designer 2007 Trial from Microsoft Website at <http://www.microsoft.com/downloads/details.aspx?FamilyID=baa3ad86-bfc1-4bd4-9812-d9e710d44f42&DisplayLang=en>.

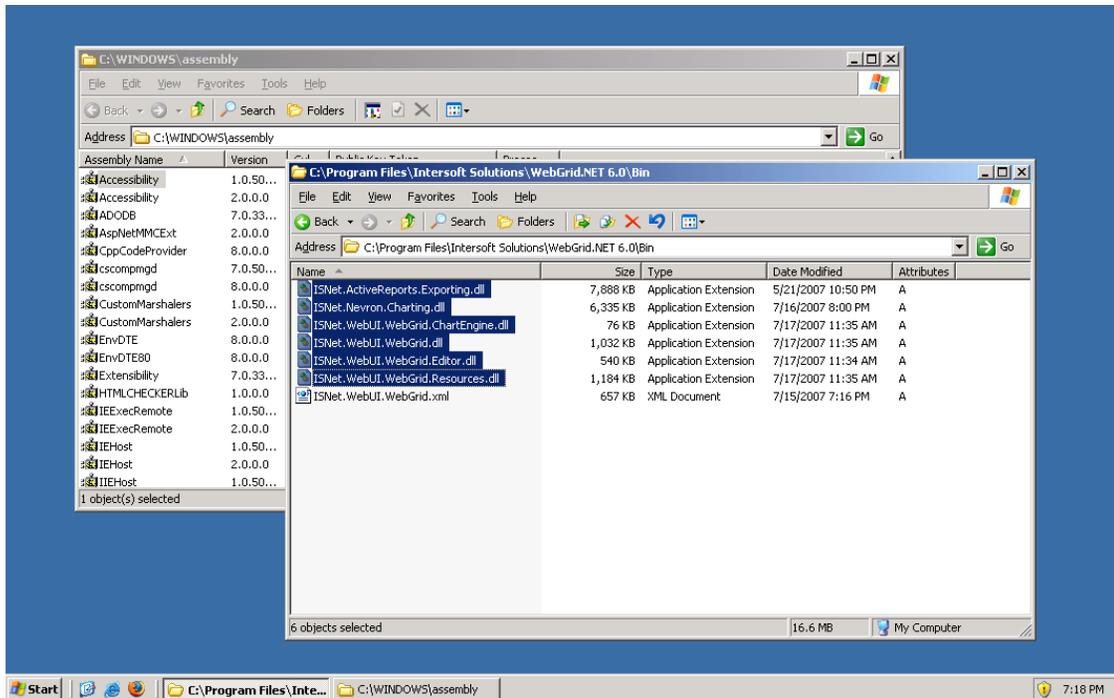
Finally, you can download the trial version of Intersoft WebUI Studio.NET 2007 R2 from Intersoft Website at <http://www.intersoftpt.com/WebUIStudio/Try>

## Configuring WebUI Studio.NET Assemblies

At this first step, you should have all prerequisites software properly installed. By default, WebUI Studio.NET Installer automatically registers core assemblies to GAC. However, SharePoint 2007 would require all component assemblies to be registered in GAC.

In the following step, you will be guided to register WebGrid.NET Enterprise 6.0's assemblies to GAC.

- Open Windows Explorer and goto C:\Windows\Assembly
- Open another Windows Explorer and goto C:\Program Files\Intersoft Solutions\WebGrid.NET 6.0\Bin
- Next, select all DLL files from the Bin folder. Drag and drop them into the GAC such as shown in the following screenshot.



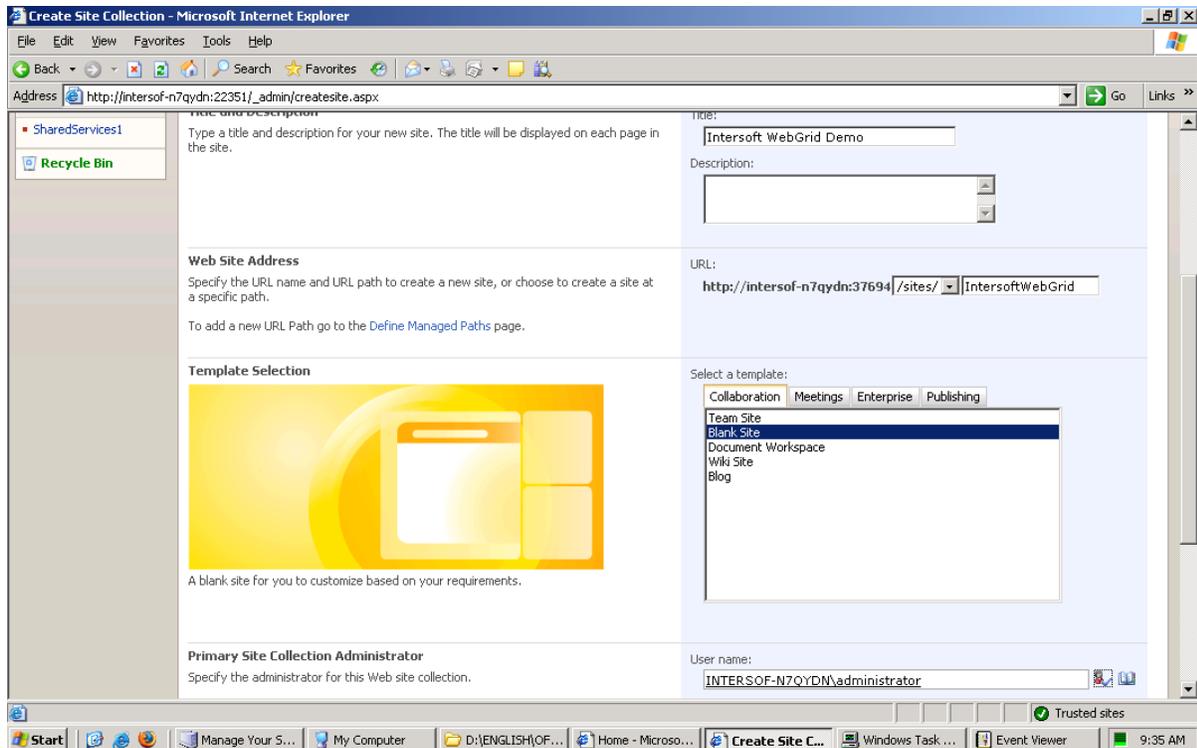
By registering the WebGrid's assemblies into GAC, you have completed the first walkthrough. You may want to register the other's product assemblies as necessary by repeating the above steps.

## Creating a New SharePoint Site

In this walkthrough, you will be guided to create a new SharePoint site to host the new SharePoint web pages that you are going to create in the next walkthroughs.

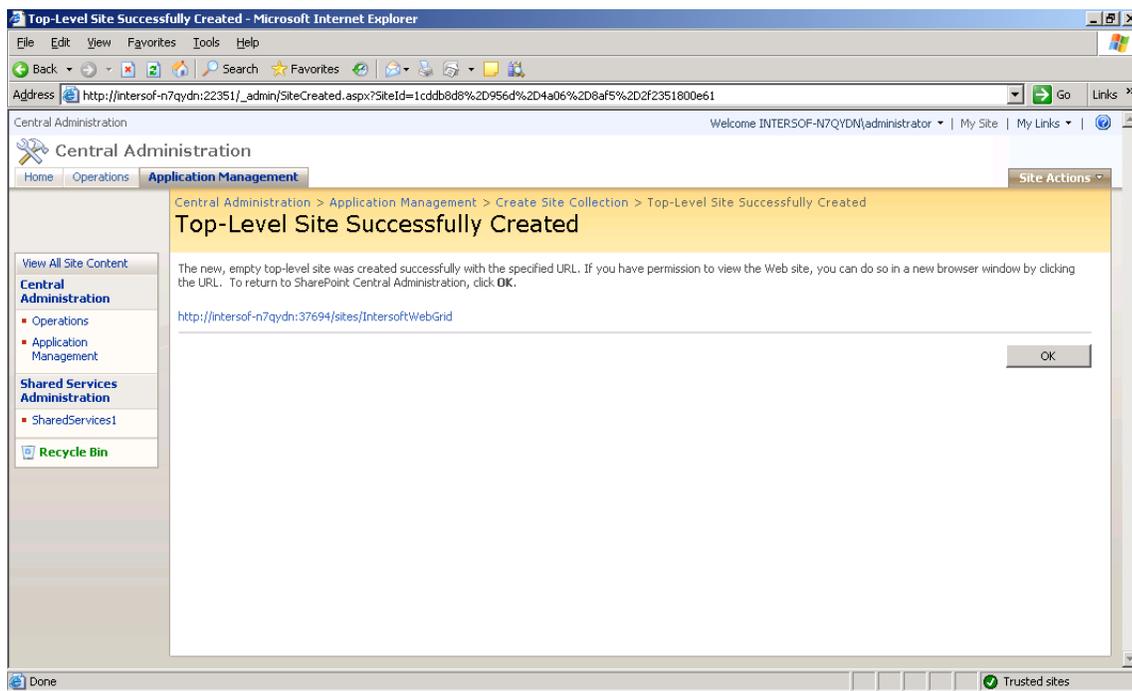
- Launch SharePoint 3.0 Portal Administration from Programs Group > Microsoft Office Server.
- A new Internet Explorer instance will be displayed along with the Central Administration UI.
- Click on Application Management tab.
- Click on Create Site Collection link under the SharePoint Site Management panel group.
- After a few seconds, the Create Site Collection page will be displayed.
- Fill in the following fields to create a new Site Collection:
  - Title: Intersoft WebGrid Demo
  - URL: Change the dropdown to /sites/, then enter IntersoftWebGrid in the textbox.
  - Select a Template: Blank Site
  - UserName: Administrator. Click on the Check Names button to validate the username.

Your Site Collection input page should look like the following screenshot.



- Scroll down to the bottom of the page, and click OK to create the Site Collection.

Please note that the Site Collection creation may take several minutes. Do not close the browser or stop the process while the progress bar is updating in the browser's status bar. After a while, you should see a success page such as shown in the following screenshot.



## Enabling Intersoft WebGrid control in SharePoint Site

In the following walkthroughs, you will be guided to configure the newly created site in order to consume WebGrid.NET Enterprise in the Website. There are three important steps that need to be done to enable Intersoft WebGrid control:

### 1. Mark WebGrid as Safe Control

- Launch Windows Explorer and go to the folder of your site. Eg, C:\inetpub\wwwroot\wss\VirtualDirectories\37694. Note that the number at the last folder indicates the port number of your designated site.
- Open the Web.config using your favorite text editor.
- Paste the following code before </SafeControls>

```
<SafeControl Assembly="ISNet.WebUI.WebGrid, Version=6.0.7200.X, Culture=neutral,
PublicKeyToken=3e60b85fb8502d5e" Namespace="ISNet.WebUI.WebGrid" TypeName="*" Safe="True" />
```

Note: Replace the [X] in the Version attribute with the build number of the WebGrid that you installed currently.

### 2. Register Intersoft SmartWebResources feature

- With the Web.config opened, please add the following codes:

- Under <httpHandlers>

```
<add path="ISRes.axd" verb="GET" type="ISNet.WebUI.WebResourceHandler, ISNet.WebUI,
Version=3.0.5000.1, Culture=neutral, PublicKeyToken=b1f2a8511635667a" validate="true" />
```

- Under <appSettings>

```
<add key="ISNet.WebUI.ISRes_Registered" value="true" />
```

- Save the changes to Web.config and close the text editor.

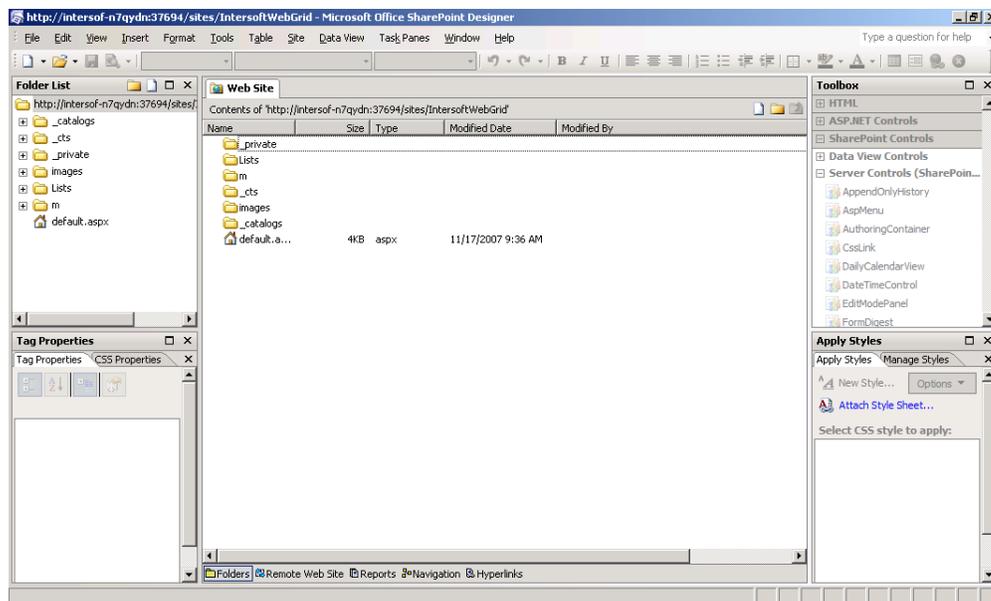
### 3. Copy WebGrid Resources

- Launch Windows Explorer and go to the bin folder of your site. Eg, C:\inetpub\wwwroot\wss\VirtualDirectories\[YourAppPortNumber]\bin.
- Launch another Windows Explorer and go to C:\Program Files\Intersoft Solutions.
- Copy the following assemblies to the bin folder of your site:
  - WebUI.NET Framework 3.0\Bin\ISNet.WebUI.Resources.dll
  - WebDesktop.NET 2.5\Bin\ISNet.WebUI.WebDesktop.Resources.dll
  - WebGrid.NET 6.0\Bin\ISNet.WebUI.WebGrid.Resources.dll

## Creating a new Web page in IntersoftWebGrid site using Microsoft Office SharePoint Designer 2007

Now that you have successfully created a new site collection with WebGrid control enabled as guided in the previous walkthroughs. In this walkthrough, you will learn how to open the newly created site using Office SharePoint Designer 2007, create a new Web page and displaying data using WebGrid.NET Enterprise 6.0 component.

- Launch Office SharePoint Designer 2007 from Programs Group > Microsoft Office > Microsoft Office SharePoint Designer 2007
- On **File** menu, choose **Open Site**.
- Pay attention on the sites listed in the dialogbox. If your newly created site is already listed, simply select it and click Open. Otherwise, you would need to type in the complete site address in the Site name textbox. Note that you can easily get the site's Url from the SharePoint Administration > Application Management > Site collection list.
- After several seconds, the site should now be connected and opened in the Sharepoint Designer 2007. You should see the application as in the following screenshot.



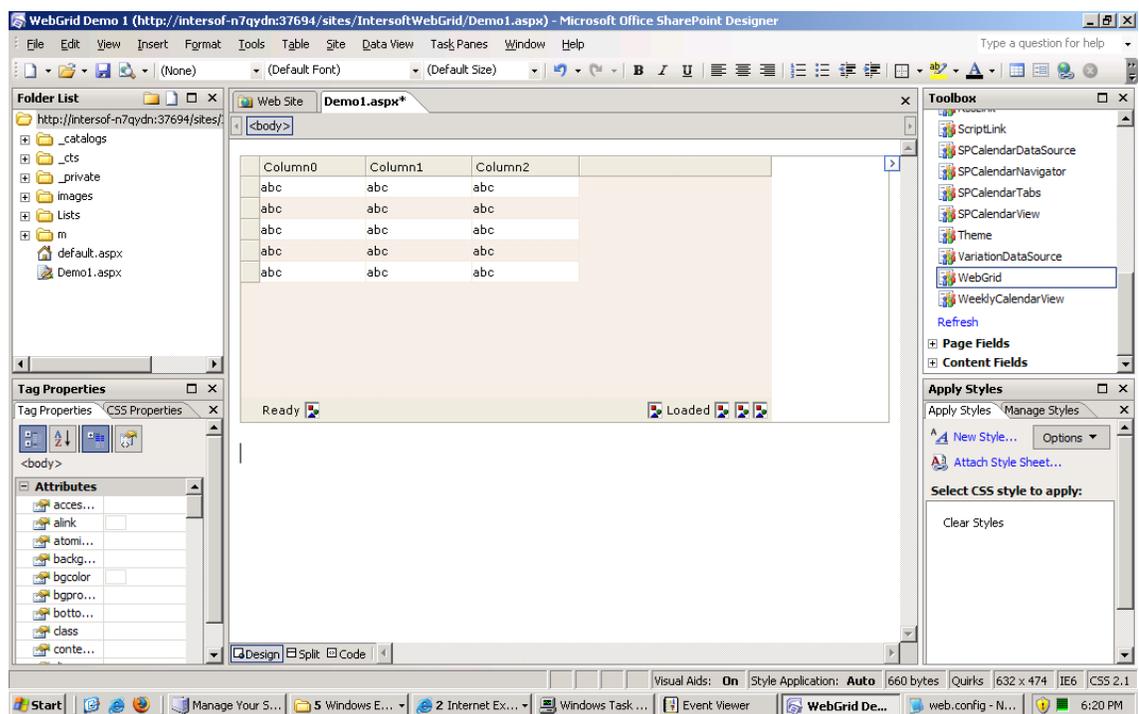
- Next, let's create a new Page by clicking the File menu, then point in the New submenu and choose Page.
- Choose ASPX in the template, then press OK button.
- In the next second you should be able to see the new Page opened in the Designer. Save the page with name WebGridDemo1.aspx

## Consuming WebGrid control

In this walkthrough, you will learn the techniques to consume WebGrid in the ASPX page by using SharePoint Designer 2007.

- With the new page opened in the Designer, drag the WebGrid control from the toolbox and drop it into the designer surface. Note that the interesting part here is SharePoint Designer 2007 detects the availability of WebGrid control automatically, so don't have to worry about adding it manually.

The following screenshot demonstrates the WebGrid control in the Toolbox (under Server Controls group) as well as WebGrid object instance in the Designer.

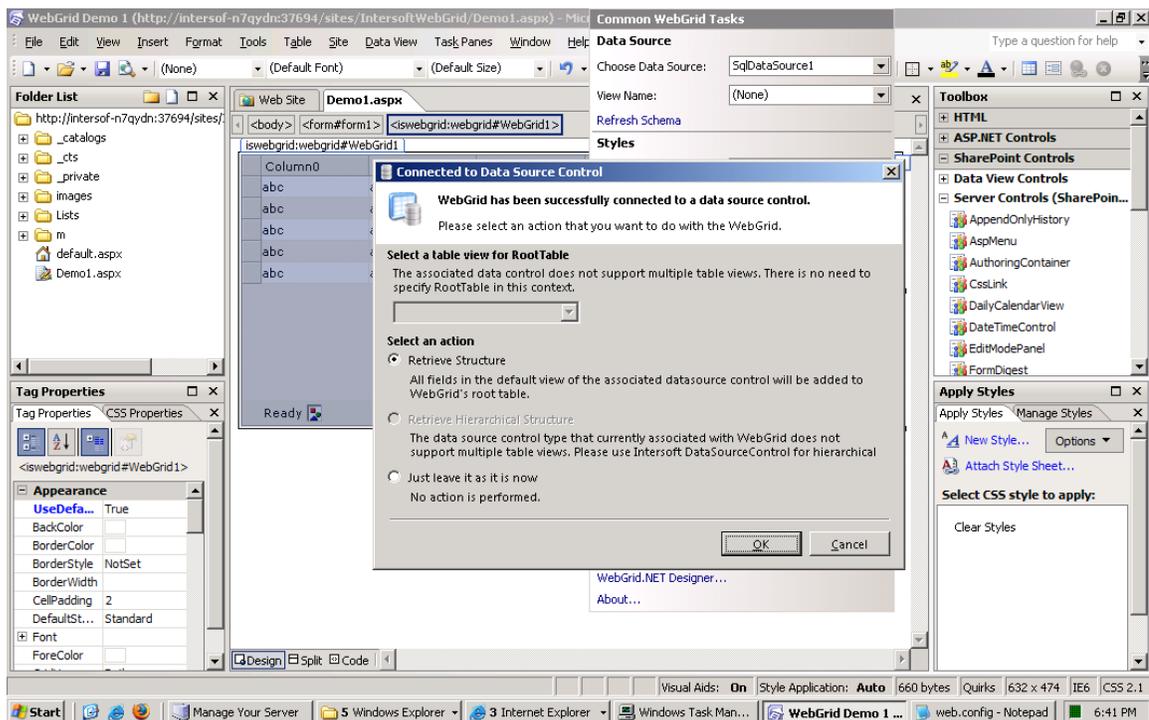


- Save the page.
- Now let's try to run the page in the browser.
- Congratulations! For the first time, you have successfully consumed WebGrid control in your SharePoint Server page.
- Learn more about data binding and WebGrid rich designer in the next page.

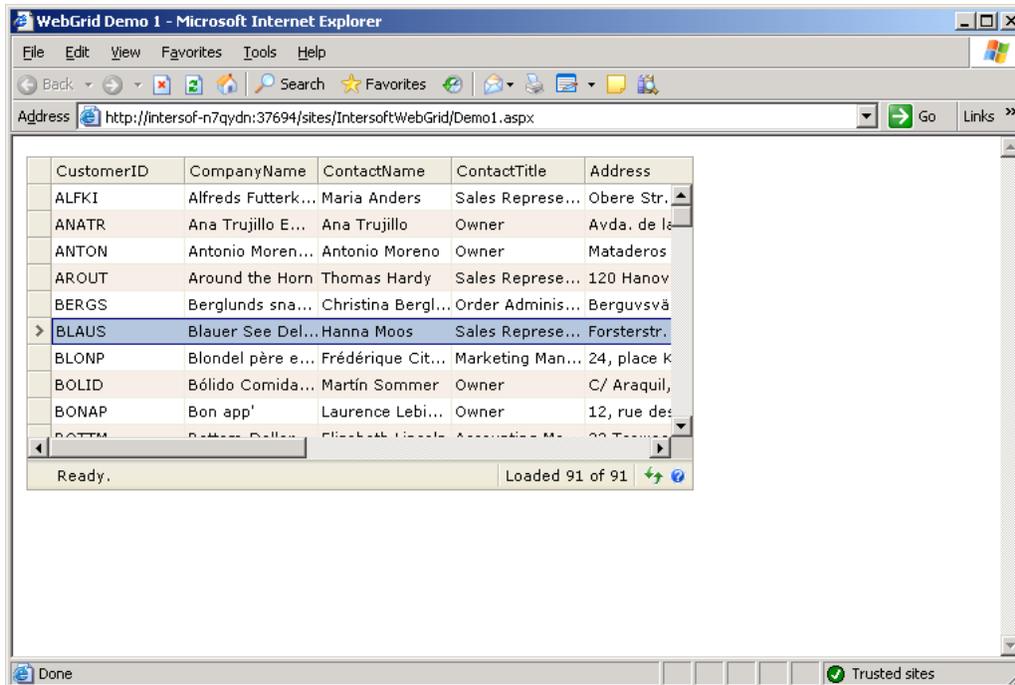
## Displaying data from external datasource

In this walkthrough, you will learn how to use WebGrid in the real-world scenarios such as displaying data from external datasource. The following steps will guide you to display Customers table data from Northwind sample database.

- Display WebGrid's SmartTag.
- In the Choose Datasource dropdown, select <New DataSource>
- Select Database and configure the data connection to use Microsoft Access, then point to C:\Program Files\Intersoft Solutions\Data\Northwind.mdb for a sample data.
- Select Customers and click on \* to retrieve all columns of the Customers table.
- Click Finish to create the datasource control.
- After several seconds, a dialogbox will appear. The beauty of the strong datasource support in WebGrid is its ability to detect a new datasource control and launching a Wizard to process the next action. See the following screenshot for a better picture.



- Simply click OK – as the “Retrieve Structure” option has been automatically selected for you by default.
- You should now notice that the Customer data columns are now reflected flawlessly in the WebGrid control at the design time.
- Congratulations, you are all set! Save your works and view the Page in the browser. You should now be able to see the Customers data displayed nicely in the WebGrid. Please refer to the following screenshot:



## Displaying data from SharePoint Data Library

In addition to standard datasource control supports such as AccessDataSource and SqlDataSource, WebGrid.NET Enterprise 6.0 also supports SharePoint-specific datasource control out of the box. In this walkthrough, you will learn how to create SharePoint Data List and bind it to the WebGrid control.

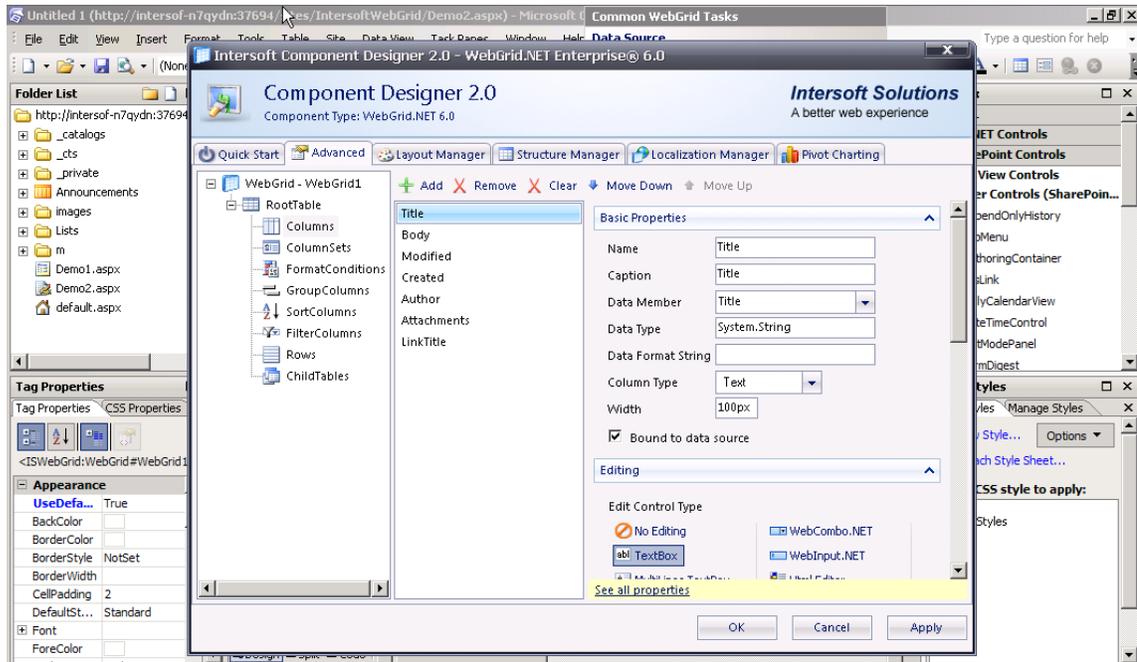
- Open **Data Source Library** from **Task Panes** menu, and choose Data Source Library.
- If you already have **SharePoint Lists**, you may skip this step. Otherwise, you will need to create your first SharePoint List. Click on the **Create new SharePoint List** link to create a new **Announcements** list.
- Before you can consume the Announcements list, you will need to have at least one record in the Announcements data. So let's add a new data to the Announcements by going to the main home page of your SharePoint Site. For instance, the home page link used in this sample is <http://intersof-n7qydn:37694/sites/IntersoftWebGrid/default.aspx>
- In the left panel, click on the **Announcements** under the List group.
- After the Announcements page is displayed, click on "New" command item in the toolbar then click on "New Announcement" to add a new announcement.
- Type in the Title and Body, then click OK to finish.
- Now go back to the SharePoint Designer and insert the Announcements list to the page by clicking on the dropdown and choose **Insert DataSource Control**.

Refer to the screenshot in the following.



- By default, WebGrid retrieves all valid columns available in the specified datasource control. However, you might not need to display all columns in a real-world scenario. Let's try to remove unused columns.
- Right click on the WebGrid instance and click on **WebGrid.NET Designer**.
- Choose Advanced tab, expand RootTable then click on Columns node in the TreeView.
- Remove all unnecessary columns by selecting on a column then click Remove button in the toolbar.

See the following screenshot for reference.



- Click OK to apply. Save your changes.
- Congratulations! You have now successfully bound a WebGrid control to SharePoint DataSource. To view the results in the browser, simply click on the View in Browser command in the SharePoint Designer's toolbar.

## Summary

With the latest innovations in deep integration and interoperability among Microsoft development platforms, Intersoft WebGrid.NET Enterprise® 6.0 is the ultimate data display and management solution for professional developers targeting Microsoft Visual Studio® 2005 and SharePoint Designer® 2007.

Thanks to the rich designer built into WebGrid.NET Enterprise 6.0, it enables you to develop in Microsoft development environments such as Visual Studio 2005 and SharePoint Designer 2007 without the need to write any codes. You can simply bind to a flat datasource control, hierarchical datasource control, SharePoint datasource control, or even your own custom datasource control through the provided designer.

WebGrid.NET Enterprise® 6.0 includes over 750 features in total – from data display, editing, Grid-related features to advanced user runtime features such as Excel 2007® style column freezing. It has now support over 3500 unique scenarios to meet advanced business logic and enterprise-specific requirements.

To learn more about WebGrid.NET Enterprise, please visit <http://www.intersoftpt.com/WebGrid>. To download the evaluation version, please visit <http://www.intersoftpt.com/WebGrid/Try>