Integrate WebScheduler to Microsoft SharePoint 2007

This white paper describes the techniques and walkthrough about integrating WebScheduler to Microsoft SharePoint 2007 as webpart.

Prerequisites

The following are the required software and development environments before proceeding.

- Windows 2003 Server with IIS installed.
- Microsoft Office SharePoint Server 2007.
- Intersoft WebUI Studio 2009 R2.

SharePoint Server 2007 Virtual PC Image can be downloaded from Microsoft Website at <u>here</u> and <u>here</u> for the 30-day full trial of Intersoft WebUI Studio 2009 R2.

In summary, we are going to create a Visual Studio Web Application project, create a Web User Control (ASCX), a class that can act as the Web Part interface to our ASCX Web User Control and ASP.NET web page for testing and debugging.

Creating ASP.NET Web Application

1. In Visual Studio, choose **ASP.NET Web Application** and give it a name, for example: WebSchedulerWebParticle.

| | | Templates: | .NET Framework 3.5 🔹 🛄 |
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| A project for creati | ng an application with a | a Web user interface (.NET Framework 3.5) | |
| Name: | WebSchedulerWebP | article | |
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| | | ▼ Cre | ate directory for solution |
| Solution: | Create new Solution | | |

Create a new ASP.NET Web Application

 Add the SharePoint.dll to as a reference. The file is by default located in %ProgramFiles%\Microsoft Shared\Web Server Extensions\12\ISAPI Directory.

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| | Connected WebPart (Row, CSharp) | |

- 3. Add the follow Intersoft's references:
 - ISNet.dll
 - ISNet.WebUI..dll
 - ISNet.WebUI.ISDataSource.dll
 - ISNet.WebUI.WebCombo.dll
 - ISNet.WebUI.WebCombo.Resources.dll
 - ISNet.WebUI.WebInput.dll
 - ISNet.WebUI.WebInput.Resources.dll
 - ISNet.WebUI.WebDesktop.dll
 - ISNet.WebUI.WebDesktop.Resources.dll
 - ISNet.WebUI.WebScheduler.dll
 - ISNet.WebUI.WebScheduler.Resources.dll

All files can be found under %ProgramFiles%\Intersoft Solutions\WebUI Studio for ASP.NET*

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| ISNet.WebUI.WebDesktop |
| ISNet.WebUI.WebDesktop.Resources |
| ISNet.WebUI.WebInput |
| ISNet.WebUI.WebInput.Resources |
| ISNet.WebUI.WebScheduler |
| ISNet.WebUI.WebScheduler.Resources |
| - Microsoft.SharePoint |

Create a User Control and bind WebScheduler to Intersoft Datasource (ISDataSource) control

| 1. | 1. Add a Web User Control file to your project and name it WebSchedu | lerUC.ascx. | |
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| WPF | AJAX Client Control | 🔊 AJAX Client Library | |
| Reporting | 🗖 AJAX Master Page | 🛅 AJAX Web Form | |
| Workflow | AJAX-enabled WCF Service | <table-of-contents> Application Manifest File</table-of-contents> | |
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| | 🖆 Class | 🗟 Class Diagram | |
| | 🕐 Code File | 🜆 DataSet | |
| | 🕼 Debugger Visualizer | 📴 Dynamic Data Field | |
| | 📓 Generic Handler | 🔊 Global Application Class | |
| | 🗃 HTML Page | Installer Class | - |
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| Name: WebSchedul | lerUC | | |
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 Bind WebScheduler to ISDataSource. A through data binding tutorial can be found in WebScheduler's documentation. (WebScheduler's documentation > Walkthrough Topics > DataBinding).

| WebSchedulerUC.ascx | | | | | | | | | | | | | | | | | | | | - | × |
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| Design Split So | urce | | | | | | | | | | | | | | | | | | | | |

Create a class file

1. Add a class file to your project give it a name. For example: *WebParticle.cs*. This class acts the Web Part interface to the earlier ASCX WebScheduler User Control.

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It will be inherited from Microsoft.SharePoint.WebPartPages.WebPart and override the CreateChildControls and RenderContents methods to load and render the ASCX Web Control created earlier.

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using Microsoft.SharePoint.WebPartPages;
using System.Web.UI;
namespace WebSchedulerWebParticle
{
    public class WebParticle : Microsoft.SharePoint.WebPartPages.WebPart
    {
       private Control control;
       private string exceptions = "";
       protected string UserControlPath = @"~/usercontrols/";
        protected string UserControlFileName = @"WebSchedulerUC.ascx";
        protected override void CreateChildControls()
        {
            try
            {
                // load the control ... this could require GAC installation
```

```
// of your DLL to avoid File.IO permissions denial exceptions
                control = this.Page.LoadControl(UserControlPath +
UserControlFileName);
                // add it to the controls collection to wire up events
                Controls.Add( control);
            }
            catch (Exception CreateChildControls Exception)
                exceptions += "CreateChildControls Exception: " +
CreateChildControls Exception.Message;
            }//end catch
            finally
            {
                base.CreateChildControls();
            }//end try/catch/finally block
        }//end protected override void CreateChildControls()
        protected override void RenderContents (HtmlTextWriter writer)
        {
            // not much to do here except to programmatically and cleanly
            // handle exceptions
            try
            {
                base.RenderContents(writer);
            catch (Exception RenderContents Exception)
            {
                exceptions += "RenderContents Exception: " +
RenderContents Exception.Message;
            finally
            {
                if ( exceptions.Length > 0)
                {
                    writer.WriteLine( exceptions);
            }//end try/catch/finally
        }//end protected override void RenderContents(HtmlTextWriter writer)
    }
```

Signing and Building the Project

Next step is to assign a strong name key and sign the control. This step ensures the WebPart and Web User Control live in Microsoft Office SharePoint Server and Global Assembly cache.

1. Simply right-click on the project in Solution Explorer and select Properties. Check the "Sign the assembly" box and select <New...> from the "Choose a strong name key file" drop down list.

| Settings | Issued By (none) Intended Purpose (none) Expiration Date (none) | Select from File |
|-----------------|---|------------------------|
| Reference Paths | | Create Test Certificat |
| Signing | | More Details |
| Web | Timestamp server <u>U</u> RL: | |
| | I I Sign the assembly | |
| | Choose a strong name key file: | |
| | <new> <browse></browse></new> | Change Password). |

2. Enter a name (for example: *WebSchedulerWebParticle.snk*) in the "Key file name" field. Uncheck the box marked "Protect my key file with a password" and click "OK".

| Create Strong Name Key | ? × |
|--|-----------|
| Key file name: | |
| WebSchedulerWebParticle | |
| Protect my key file with a password Enter password: | |
| Confirm password: | |
| | |
| | OK Cancel |

3. The WebSchedulerWebParticle.snk strong name key file is added to your project. Now, build your project.

Deploying your custom WebPart and Web User Control

Since we are using the WebParticle approach, we need to deploy both the ASCX file and the WebPart compiled in a .dll. Here are the steps.

Build Project and Copy User Control ASCX to SharePoint folder
Use the Visual Studio Build menu to build your project. Next, copy WebSchedulerUC.ascx Web
User Control to /UserControls/ directory.

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- Copy App_Code, App_Data to SharePoint folder Since WebScheduler user control is bound to data through ISDataSource. It's important for you to copy the data sets and database along. By default, all are located in App_Code and App_Data folder.
- Drag and drop WebSchedulerWebParticle.dll into GAC
 The Global Assembly Cache (GAC) is a special folder located at %WINDIR%\Assembly.
 Remember to drag-drop the assembly, not copy-paste it.
- Finding the public KeyToken of the WebPart assembly Go to your GAC (or %WINDIR%\Assembly) and scroll to your WebPart assembly.

| : WebSchedulerWebParticle | 1.0.0.0 | fac546c5573ea5c5 | MSIL |
|-----------------------------|---------|------------------|------|
| : 🔹 WebTextEditorFieldType | 1.0.0.0 | 9f4da00116c38ec5 | MSIL |
| : 💼 WindowsBase | 3.0.0.0 | 31bf3856ad364e35 | MSIL |
| : 🙀 WindowsFormsIntegration | 3.0.0.0 | 31bf3856ad364e35 | MSIL |

This information is required when marking the WebPart assembly as a safe control. Open SharePoint's Web.config file. Under the <SafeControls> add a new entry pointing to your Web Part assembly with its PublicKeyToken.

</SafeControls>

5. Add your WebPart assembly to the assemblies section in SharePoint's Web.config file This is an important part where you need to provide more information about your custom WebPart to SharePoint as it doesn't check the SafeControl section until it loads the Assembly using Reflection. The first thing to do is that SharePoint must know the location of your WebPart. You can place your assembly inside the SharePoint folder, but it's not a good practice in the long run. When you make any changes in the future, you will need to update the assembly in two different places. The best thing to do is to have a centralized location where you can refer to it via Web.config. Here is how you tell SharePoint the location of your WebPart.

```
<assemblies>
<add assembly="Microsoft.SharePoint, Version=12.0.0.0, Culture=neutral,
PublicKeyToken=71e9bce111e9429c" />
<add assembly="ISNet.WebUI, Version=3.0.5000.1, Culture=neutral,
PublicKeyToken=b1f2a8511635667a" />
<add assembly="ISNet, Version=3.0.5000.1, Culture=neutral,
PublicKeyToken=b1f2a8511635667a" />
<add assembly="WebSchedulerWebParticle, Version=1.0.0.0, Culture=neutral,
PublicKeyToken=fac546c5573ea5c5" />
</assemblies>
```

 Add a connection string for ISDataSource in SharePoint's Web.config file Here is how you add a new connection string for ISDataSource inside SharePoint's Web.config file.

```
<connectionStrings>
        <add name="WebSchedulerDataConnectionString"
connectionString="Provider=Microsoft.Jet.OLEDB.4.0;Data
Source=|DataDirectory|\WebSchedulerData.mdb;Persist Security Info=True"
providerName="System.Data.OleDb"/>
        </connectionStrings>
```

7. Compile your project.

Populate your custom WebPart to WebPart's Gallery

1. Go to Site Action >Site Settings > Modify All Settings.



2. In Site Settings, go to Gallery column and choose WebPart

| Site Information | | | | |
|--------------------------------|---------------------------------|-------------------------------|------------------------------|--------------------------------|
| Site URL: | http://hpv-sps | 1 | | |
| Mobile Site URL: | http://hpv-sps | /_layouts/mobile/default.aspx | | |
| Version: | 12.0.0.6219 | | | |
| Isers and Permissions | Look and Feel | Galleries | Site Administration | Site Collection Administration |
| People and groups | Master page | Site content types | Regional settings | Search settings |
| Site collection administrators | Title, description, and icon | Site columns | Site libraries and lists | Search scopes |
| Advanced permissions | Navigation | Site templates | Site usage reports | Search keywords |
| | Page layouts and site templates | List templates | User alerts | Recycle bin |
| | Welcome page | Web Parts | RSS | Site directory settings |
| | Tree view | Workflows | Search visibility | Site collection usage reports |
| | Site theme | Master pages and page layouts | Sites and workspaces | Site collection features |
| | Reset to site definition | | Site features | Site hierarchy |
| | Searchable columns | | Delete this site | Portal site connection |
| | | | Related Links scope settings | Site collection audit settings |
| | | | Site output cache | Audit log reports |
| | | | Content and structure | Site collection policies |
| | | | Content and structure logs | Site collection output cache |
| | | | | Site collection cache profiles |
| | | | | Site collection object cache |

- In Web Part Gallery, Click New > Checked the WebPart name (WebSchedulerWebParticle.WebParticle) > Populate Gallery.
- 4. Now, we have the WebScheduler User Control WebPart.

Creating a SharePoint page with WebScheduler User Control WebPart

1. Go to View All Site Content > Create.



2. On the WebPages column, click the Web Part Pages.

| Home > Create | | | | | | | |
|--|------------------|------------------------------|-------------------------------|--|--|--|--|
| | | | | | | | |
| Web Part Page Create a Web Part Page when you want to add a Web page to this site that displays one or more Web Parts. Web Parts provide an easy way to build powerful Web pages that can show you information ranging from a view of a list in the current site to the latest data from Web Services. | | | | | | | |
| Libraries | Communications | Tracking | Custom Lists | Web Pages | | | |
| Document Library | Announcements | ■ Links | Custom List | Basic Page | | | |
| Form Library | Contacts | Calendar | Custom List in Datasheet View | Web Part Page | | | |
| Wiki Page Library | Discussion Board | Tasks | Languages and Translators | Sites and Workspaces | | | |
| Picture Library | | Project Tasks | KPI List | Publishing Page | | | |
| Data Connection Library | | Issue Tracking | Import Spreadsheet | | | | |
| Translation Management Library | | Survey | | | | | |
| Report Library | | | | | | | |
| Slide Library | | | | | | | |
| | | | | | | | |

3. Enter your SharePoint page name hit the Create button.



4. Navigate to the newly created page and edit it. Add your custom WebPart (WebSchedulerWebParticle) from WebPart gallery.

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| | Synthese Synthese Displays your inbox using Outlook Web Access for Microsoft Exchange Server 2003 or later. | | | | |
| | My Mail Folder Displays your mail folder using Outlook Web Access for Microsoft Exchange Server 2000. | | | | |
| | My Tasks Displays your tasks using Outlook Web Access for Microsoft Exchange Server 2003 or later. | | | | |
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| | Advanced Search Box Used for parameterized searches based on properties and combinations of words. | | | | |
| | People Search Box Used to search people. | | | | |
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5. Apply the changes to see the final result of the WebTextEditor integration in Sharepoint such as shown in the screenshot below .

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