

Microsoft[®] Virtual Labs

Building Web Slices with Internet Explorer 8

Microsoft[®]

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Building Web Slices with Internet Explorer 8

Objectives

After completing this lab, you will be better able to:

- Create Web Slices
- Use Alternate Display Sources to add active content and customize the look of your Web Slice
- Use Alternate Update Sources to transfer update traffic to another web server

Scenario

As a developer for Northwind Traders, you have been assigned the task of creating new functionality for the sales department. A large portion of sales staff time is spent on locating background information on sales leads before calls may be made so that sales pitches may be tailored to their needs. This is referred to as “prospect research”.

Northwind Traders has deployed Internet Explorer 8 to all of their corporate computers and most prospect research takes place utilizing various trade websites containing public information about companies and their staff, but the sales department has utilized the new Accelerator feature of Internet Explorer 8 to make entering that information easier. You will create a Web Slice to present the information collected by the sales assistants. You will then add active content to your Web Slice and transfer the Web Slice’s update traffic to another server.

To save time, certain components have been pre-installed and pre-configured. These components include SQL Server 2005 Express, Internet Information Services (IIS), and IE8. You will be using Notepad for HTML editing.

Estimated Time to Complete This Lab

60 Minutes

Computers used in this Lab



VistaIE8


The password for the Administrator account on all computers in this lab is:
P@ssword

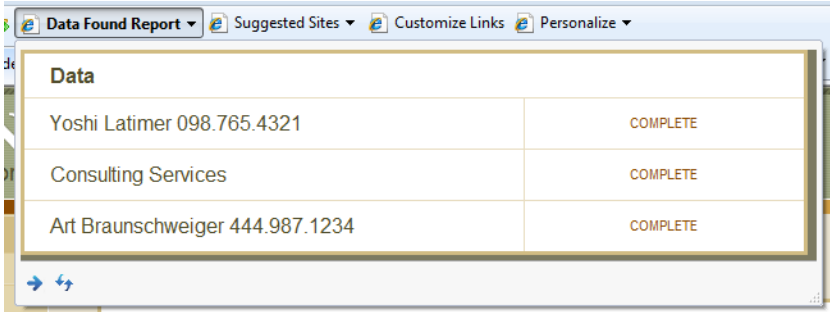
Exercise 1

Develop a Basic Web Slice

Scenario

In this exercise you will use the Notepad application to build a new Web Slice for use by Internet Explorer 8. The sales department’s responsibility is to locate customers based on data collected by the prospect research team. Currently, in order to view the reports they need, they must log in to Northwind’s Intranet site and navigate to the report page. The sales representatives have asked you to develop new functionality that will update them when new customer data is added by sales assistants. The report the sales representatives use is located on the Northwind Intranet’s “DataFoundReport.aspx” page. This report lists customers whose data has been collected and is pending verification, and will be the basis for your Web Slice.

Tasks	Detailed Steps
<p>Complete the following tasks on:</p> <p> VistaIE8</p> <p>1. Develop the Web Slice</p>	<p><i>Note: In this task you will create a Web Slice that notifies the sales representatives when data in the Data Found Report changes. You will add HTML markup to the pre-existing report page to activate the Web Slice.</i></p> <p>a. Open the file DataFoundReport.aspx with Notepad. Remember, the files are available under c:\inetpub\wwwroot\northwind-ie8.</p> <p>b. Below the form tag, enter:</p> <pre data-bbox="542 957 1398 1052"><div class="hslice" id="datafound"> <p class="entry-title">Data Found Report</p> <div class="entry-content"></pre> <p>This block creates the Web Slice container and sets its title to "Data Found Report". All markup inside the entry-content class will be included in the Web Slice.</p> <p>c. Just before the form closing tag, enter:</p> <pre data-bbox="542 1226 1398 1283"></div> </div></pre> <p>d. Save your work and close Notepad, and your Web Slice is complete.</p> <p><i>Note:</i></p> <p><i>hslice class (Required)</i></p> <p><i>This class designates the contained markup as a Web Slice. The container must have a unique id attribute, which is used by Internet Explorer to identify the Web Slice. If the id value is changed, Internet Explorer will no longer be able to identify the Web Slice. If the same id is used on multiple Web Slices, one of them will be ignored.</i></p> <p><i>entry-title class (Required)</i></p> <p><i>At least one child of the hslice class must be specified as an entry-title class. This is the title that will be displayed for your Web Slice on the Favorites bar and the Feed Discovery button, so a meaningful name is important. Multiple text spans can be concatenated to update the title when the Web Slice updates. For example:</i></p> <pre data-bbox="542 1717 1398 1896"><div class="hslice" id="main"> <h2 class="entry-title">Seattle Weather</h2> <p>It is 62&deg;. </p> </div></pre>

Tasks	Detailed Steps
	<p>The previous example will display:</p> <p style="text-align: center;"><i>Seattle Weather It is 62° as the Web Slice's title.</i></p> <p>entry-content class (Optional)</p> <p>The markup contained in the entry-content class is displayed in the Web Slice preview window when the Favorites bar button is clicked. A Web Slice can contain multiple entry-content classes. If there is more than one present, they will be combined to form a single preview. The default size of the Web Slice preview window is 320px wide and 240px tall. In order to keep your Web Slice small and lightweight, it is recommended that you fit your content to this window. The content inside the entry-content class will determine the size of the preview window.</p>
<p>2. Testing the Web Slice</p>	<p>Note: In this task you will verify your web slice is detected by IE8, is able to be subscribed to, and functions properly.</p> <ol style="list-style-type: none"> a. Point your browser to http://localhost/northwind-ie8/ and log on using the username rep1 and the password P@ssword. You will be logged on as the Sales Representative role. b. Click on the Data Found button. This opens the "Data Found Report" page showing any data pending for verification. c. To subscribe to the Web Slice, click the green discovery split button on the Internet Explorer toolbar. The discovery split button appears on the toolbar when Web Slice content is detected on the current page. This prompts you to add the Web Slice to your browser Favorites bar. d. Click the Add button. The Web Slice now shows on the Favorites bar. It will flash when any updates are detected to the title or content. e. Click the Data Found Report button on the Favorites bar. The Web Slice you created will drop down.  <p>Note: The Complete buttons currently load inside the Web Slice, but they are not functional. This is because the Web Slice preview window does not allow script or Microsoft ActiveX controls. We will learn how to enable active content in the next exercise.</p>

Exercise 2


Create a Web Slice Alternate Display Source

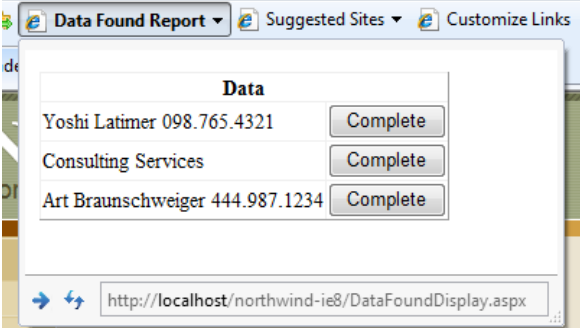
Scenario

In this exercise you will use the Notepad application to modify your previous Web Slice to utilize an Alternate Display Source and enable active content.

The sales representatives are thrilled with the new functionality provided by the Web Slice you created, but would like to enhance the look of the preview window and add the ability to update records from the Web Slice. When a sales representative has successfully contacted a customer from the Data Found Report, he or she will click the **Complete** button to remove that record from the "pending" list. They would like to duplicate that functionality in the Web Slice. The IT department has developed an ASP.NET user control (DataFoundReportControl.aspx) to accomplish that. They have asked you to add the control to the Web Slice.

The **Complete** buttons currently load inside the Web Slice, but they are not functional. This is because the Web Slice preview window does not allow script or Microsoft ActiveX controls without the use of an **Alternate Display Source**. The **Alternate Display Source** can be used to host active content such as JavaScript, Flash, Silverlight, or ActiveX controls. It can also be used to apply styles to the contents of the Web Slice preview window.

Tasks	Detailed Steps
<p>Complete the following tasks on:</p> <p> VistaIE8</p> <p>1. Create An Alternate Display Source</p>	<p><i>In this task you will create an Alternate Display Source that will allow the Web Slice to host active content:</i></p> <p>a. Open the file DataFoundDisplay.aspx with Notepad.</p> <p>b. Between the "form" tags, add the following markup:</p> <pre data-bbox="540 1014 1398 1045"><nw:DataFoundControl ID="nwDataFound" runat="server" /></pre> <p><i>Note: This line will add the previously created user control to the Alternate Display Source.</i></p> <p>c. Save your work and close Notepad and the Alternate Display Source is complete.</p> <p><i>Note: This markup will add the previously created DataFoundReportControl user control to the page. This user control is a wrapper for the ASP.NET Repeater control that is used to display the Data Found Report.</i></p>
<p>2. Modify Web Slice</p>	<p><i>Note: In this task you will modify the Web Slice you created in Exercise 1 to display the DataFoundReportControl instead of the Data Found Report page's contents.</i></p> <p>a. Open the file DataFoundReport.aspx with Notepad.</p> <p>b. Remove the markup you created in the first exercise.</p> <p>c. Add the following HTML code directly below the "form" tag:</p> <pre data-bbox="540 1461 1398 1619"><div class="hslice" id="datafound"> <p class="entry-title">Data Found Report</p> </div></pre> <p><i>Note: This block will create the Web Slice container, set its title to "Data Found Report", and set the Web Slice's Alternate Display Source to DataFoundDisplay.aspx.</i></p> <p>d. Save your work and close Notepad. Your Web Slice preview will now display content from DataFoundDisplay.aspx instead of DataFoundReport.aspx. You can verify this by looking at the address bar in the preview window. The address shown there is your display source. The Complete buttons in the preview window will now be active.</p>

Tasks	Detailed Steps
	<p><i>Note: This block tells Internet Explorer to display content from DataFoundDisplay.aspx in the Web Slice preview window (in this case, a link to the page containing the user control). The href attribute tells IE to use the Alternate Display Source for the preview instead of the enclosed markup. Because the web slice uses an Alternate Display Source, javascript and other content not available when using the original source is available. This means the buttons on the preview are now interactive. The content in the display source defines its own styles, so customizing the Web Slice preview's interface does not affect the appearance and layout of the report on DataFoundReport.aspx and vice versa.</i></p>
<p>3. Testing the Alternate Display Source</p>	<p><i>Note: In this task you will test that the Web Slice shows the new alternate display source with preview.</i></p> <ol style="list-style-type: none"> Point your browser to http://localhost/northwind-ie8/ and log on using the username rep1 and the password P@ssword. You will be logged on as the Sales Representative role. Click on the Data Found button. This opens the "Data Found Report" page. Right click the Data Found Report button on the Favorites bar and click Refresh. Click the Data Found Button. Your updated Web Slice preview will drop down. Since the page is now interactive, click the Complete button for one of the records. The record you selected will be removed from the Data Found Report. If you refresh DataFoundReport.aspx, the record you selected will be removed from the "pending" list. 

Exercise 3


Create a Web Slice Alternate Update Source

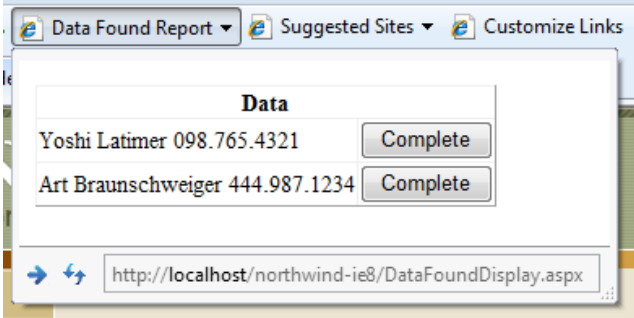
Scenario

In this exercise you will use the Notepad application to modify your previous Web Slice to utilize an Alternate Update Source.

The sales department loves the Web Slice and its new functionality, but the head of the IT department has requested that you move the Web Slice’s update traffic off of the main intranet server.

To update the Web Slice from another source, you will use the Web Slice **Alternate Update Source** feature.

Tasks	Detailed Steps
<p>Complete the following tasks on:</p> <p> VistaIE8</p> <p>1. Create Alternate Update Source</p>	<p><i>Note: In this task you will modify DataFoundUpdate.aspx to update the Web Slice content:</i></p> <p>a. Open the file DataFoundUpdate.aspx with Notepad.</p> <p>b. Below the form tag, enter:</p> <pre data-bbox="544 804 1398 961"><div class="hslice" id="datafound-update"> <h2 class="entry-title">Data Found Report</h2> </div></pre> <p>This block creates the Alternate Update Source, sets its title to "Data Found Report", and sets the Alternate Display Source to DataFoundDisplay.aspx.</p> <p>c. Save your work and close Notepad. Your Alternate Update Source is now created.</p> <p><i>Note: The hslice class's id attribute will be used by the main content page to identify which Web Slice will be the Alternate Update Source.</i></p> <p><i>The entry-content class specifies which page will display the Web Slice preview's content.</i></p> <p><i>You have now created a Web slice using an Alternate Update Source to move update traffic off of the main server, and used an Alternate Display Source to allow active content inside of the Web Slice preview window.</i></p>
<p>2. Modify Web Slice</p>	<p><i>Note: In this task you will modify DataFoundReport.aspx to use the new source for updates:</i></p> <p>a. Open the file DataFoundReport.aspx with Notepad.</p> <p>b. Below the form tag, change the original Web Slice line</p> <pre data-bbox="544 1535 1398 1598"></pre> <p>to the following:</p> <pre data-bbox="544 1640 1398 1703"></pre> <p><i>Note: This change informs Internet Explorer that updates will be generated from DataFoundUpdate.aspx instead of DataFoundReport.aspx. The anchor "datafound-update" must match the id of the Alternate Update Source.</i></p> <p>c. Save your work and close Notepad. This change will alert Internet Explorer that the Web Slice will be updated from DataFoundUpdate.aspx instead of</p>

Tasks	Detailed Steps
	<p>DataFoundDisplay.aspx.</p> <p><i>Note: The feedurl rel attribute specifies that the link will be treated as an alternate source for Web Slice Updates. When this attribute is present, Internet Explorer subscribes to the alternate update source and no longer uses the original page content to update the Web Slice. You are also removing the Alternate Display Source from the original page. The display source will be defined in the Alternate Update Source. The href's anchor (datafound-update) must match the id used for the Alternate Update Source. The anchor is how Internet Explorer identifies and locates the individual Web Slice. If the id is not present or changes, the Web Slice will not be discoverable.</i></p>
<p>3. Testing the Alternate Update Source</p>	<p><i>Note: In this task you will test that the Web Slice uses the new alternate update source with preview.</i></p> <ol style="list-style-type: none"> Point your browser to http://localhost/northwind-ie8/ and log on using the username rep1 and the password P@ssword. You will be logged on as the Sales Representative role. Click on the Data Found button. This opens the “Data Found Report” page. Right click the Data Found Report button on the Favorites bar and click Delete. <p><i>Note: Confirm that you do want to delete the Web Slice. This is necessary because the content is now coming from a different source (Similar to a dead hyperlink).</i></p> <ol style="list-style-type: none"> Click the Web Slice icon to re-subscribe to the Data Found Report web slice. Click the Data Found Report button on the Favorites bar. The Web Slice you created will drop down. The data in the Web Slice preview window is now updated by your Alternate Update Source. 


Exercise 4

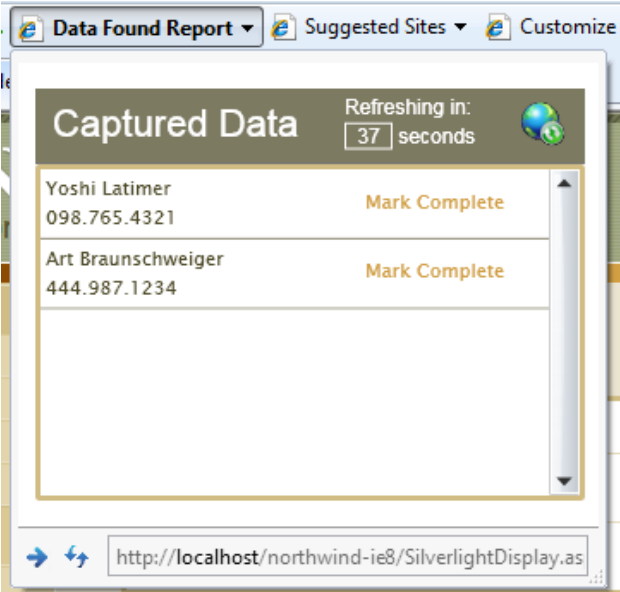
Add a Silverlight Control to a Web Slice

Scenario

In this exercise you will use the Notepad application to modify your previous Web Slice to include a Silverlight control.

The Development team has created a Silverlight control (DataFoundSilverlight.xap) that they would like to use in the Web Slice you created. The control has the same functionality as the DataFoundReportControl that you added in Exercise 2, but provides a more interactive user experience.

Tasks	Detailed Steps
<p>Complete the following tasks on:</p> <p> VistaIE8</p> <p>1. Create Alternate Display Source</p>	<p><i>Note: In this task you will update the Alternate Display Source to include the new Silverlight control:</i></p> <ol style="list-style-type: none"> Open the file DataFoundUpdate.aspx with Notepad. In the Web Slice's entry-content class, change the href from http://localhost/northwind-ie8/DataFoundDisplay.aspx to http://localhost/northwind-ie8/SilverlightDisplay.aspx <p><i>Note: This change will inform Internet Explorer that the new Alternate Display Source will be SilverlightDisplay.aspx instead of DataFoundDisplay.aspx.</i></p> <p><i>Note: SilverlightDisplay.aspx is a basic ASP.NET web form with an "object" tag containing the Silverlight control.</i></p> <ol style="list-style-type: none"> Save your work and close Notepad. The Web Slice is now updated to display the Silverlight control in the preview window. This method could also be used to display Flash or any other embedded content. <p><i>Explanation:</i></p> <p>When the entry-content class's href is updated in DataFoundUpdate.aspx, the Web Slice is updated when content changes in SilverlightDisplay.aspx instead of DataFoundDisplay.aspx.</p>
<p>2. Testing the Alternate Display Source</p>	<p><i>Note: In this task you will test that the Web Slice uses the new alternate display source with preview.</i></p> <ol style="list-style-type: none"> Point your browser to http://localhost/northwind-ie8/ and log on using the username rep1 and the password P@ssword. You will be logged in as the Sales Representative role. Right click the Data Found Report button on the Favorites bar and click Refresh. Click the Data Found Report button to preview the new display source.

Tasks	Detailed Steps									
	<p data-bbox="505 195 1430 254"><i>Note: Congratulations! You have now created a Web Slice with active content, custom styles, and alternate display and update sources.</i></p>  <p>The screenshot shows a web browser window with a 'Data Found Report' dropdown menu, 'Suggested Sites', and 'Customize' options. A 'Captured Data' window is open, displaying a table with two rows of data. The first row contains 'Yoshi Latimer' and '098.765.4321' with a 'Mark Complete' button. The second row contains 'Art Braunschweiger' and '444.987.1234' with a 'Mark Complete' button. The window also shows a 'Refreshing in: 37 seconds' timer and a globe icon. The address bar at the bottom shows 'http://localhost/northwind-ie8/SilverlightDisplay.as'.</p> <table border="1" data-bbox="706 346 1252 758"><thead><tr><th colspan="2">Captured Data</th><th>Refreshing in:</th></tr></thead><tbody><tr><td>Yoshi Latimer</td><td>098.765.4321</td><td>37 seconds</td></tr><tr><td>Art Braunschweiger</td><td>444.987.1234</td><td></td></tr></tbody></table>	Captured Data		Refreshing in:	Yoshi Latimer	098.765.4321	37 seconds	Art Braunschweiger	444.987.1234	
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