

OnWeb 7.5.0

Training Guide for Host Publishing

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OnWeb® rapidly transforms host applications into Web-based solutions, without the high cost of rewriting applications or changing back-end systems. It is a proven and easy-to-use application development framework for building enterprise-level extranet applications.

OnWeb comprises the following core components:

- **OnWeb Server** - a high performance, scalable, multi-user run time environment that accesses and integrates multiple data sources in real-time, executes business logic, and delivers the application to the desktop. It runs on Microsoft® Windows®, Solaris™, Linux®, and AIX® platforms, or the IBM® iSeries™ systems, and fully utilizes their performance capabilities.
- **OnWeb Designer** - a development environment for developing OnWeb applications.
- **OnWeb Administrator** - a tool for administering OnWeb Server.
- **OnWeb Source Server** - a database server used by Designer to store components of OnWeb applications.
- **OnWeb Application Manager** - a tool for deploying and managing OnWeb applications on a production server.
- **OnWeb Object Builder**- a tool for creating host transactions that will enable 3rd party development environments to access host information.

The Host Publishing capabilities of OnWeb allow you to make host applications available to the users via Web pages in record time. Using OnWeb Designer and its supporting tools, you can choose the level of customization for your host application presentation. You can quickly create an application that simply connects to the host and presents all host screens inside a simple Web page, or spend more time to fully customize how each host screen is presented in the browser.

About this guide

This guide will introduce you to the basic features of OnWeb Host Publishing. You will start by creating a simple Host Publishing application and progressively customize its appearance in the browser.

Chapter	Description
Chapter 2, “Creating a Host Publishing Application”	In this chapter, you will create your first Host Publishing application that displays host screens inside a simple Web page.
Chapter 3, “Using Templates”	This chapter will guide you through the process of customizing the Web templates that are used for presenting host screens.
Chapter 4, “Capturing Host Screens”	In this chapter, you will learn how to use Navigator to capture host screens that you want to individually customize.
Chapter 5, “Customizing Host Screen Presentation”	This chapter will introduce you to the features and tools of Host Publishing that allow you to customize how a host screen is presented in the browser.

OnWeb documentation

In order to use this guide effectively, you must have a working knowledge of HTML and Microsoft FrontPage®, and should be familiar with the OnWeb Designer environment. To learn more about OnWeb Designer and other tools used in the process of developing a Host Publishing application, consult the following online help systems available from the Help menu in each tool:

- **OnWeb Designer Help** explains how to use Designer.
- **OnWeb Navigator Help** explains how to use Navigator, a tool used to capture host screens.
- **OnWeb FrontPage Components Help** explains how to use OnWeb FrontPage components to customize Host Publishing applications.



Other components of OnWeb documentation will also help increase your OnWeb knowledge base. You can access them from the Windows **Start** menu:

- *OnWeb Developer's Guide* discusses in detail the process of developing OnWeb applications. Chapters 2 and 3 of the guide describe basic and advanced features of the Host Publishing application development.
- **Host Publishing HTML Tags Help** contains reference information about the custom HTML tags used in Host Publishing applications.



Creating a Host Publishing Application 2

OnWeb Designer's Host Publishing development mode allows you to quickly convert host mainframe applications into easily accessible HTML Web pages.

Although its screen customization tools allow you to create rich, Web-based host applications, OnWeb Designer also gives you the freedom to produce simple, straight-forward applications.

In this chapter, you will create a simple application that will help you become familiar with the basic concepts of Host Publishing.

Creating an OnWeb project

Each OnWeb application is created within an OnWeb project. A project is a self-contained development environment that uses the same source directory and database. There is no limit to the number of projects you can have and the number of applications within each project. For the purpose of this training, we will create a separate project called "Tutorial".

► To create a new project

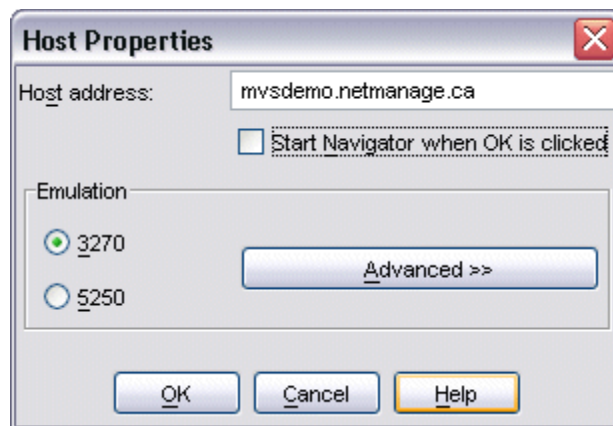
1. Start OnWeb Designer.
2. In the OnWeb Server Logon dialog box, enter your OnWeb user ID and password to log on to OnWeb Server.
3. In the OnWeb Designer dialog box, select **New Project** and click **OK**.
4. In the New Project dialog box, type `Tutorial` and click **OK**.

Creating a simple Host Publishing application

Now you will create a new Host Publishing application using a Micro Focus® host available to the public over the Internet. This host is home to the customer tracking application of a fictitious telephone company. In later chapters, you will customize the presentation of this Host Publishing application.

► To create a simple Host Publishing application

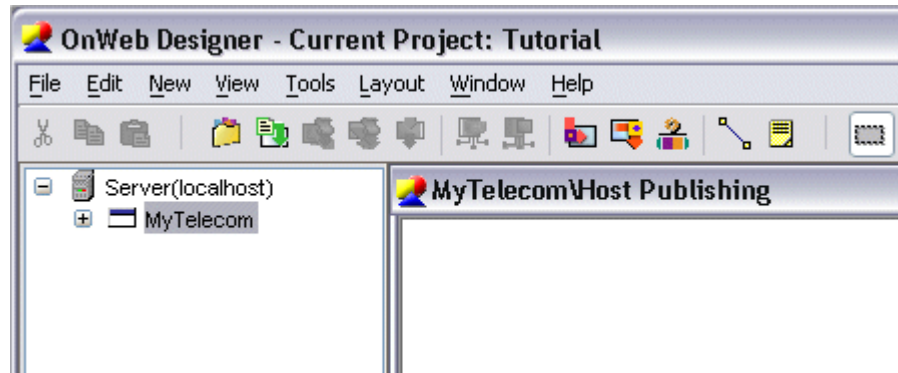
1. Continuing from the previous procedure, in the OnWeb Application Wizard dialog box, select **New Application** and click **OK**.
2. In the Create Application dialog box, type `MyTelecom` as the application name, and click **OK**.
3. In the Host Properties dialog box:
 - › Type `mysdemo.netmanage.ca` in the **Host address** box.
 - › Clear the **Start Navigator when OK is clicked** check box.



4. Click **OK**.



The new Host Publishing application is added to the tree list in OnWeb Designer.



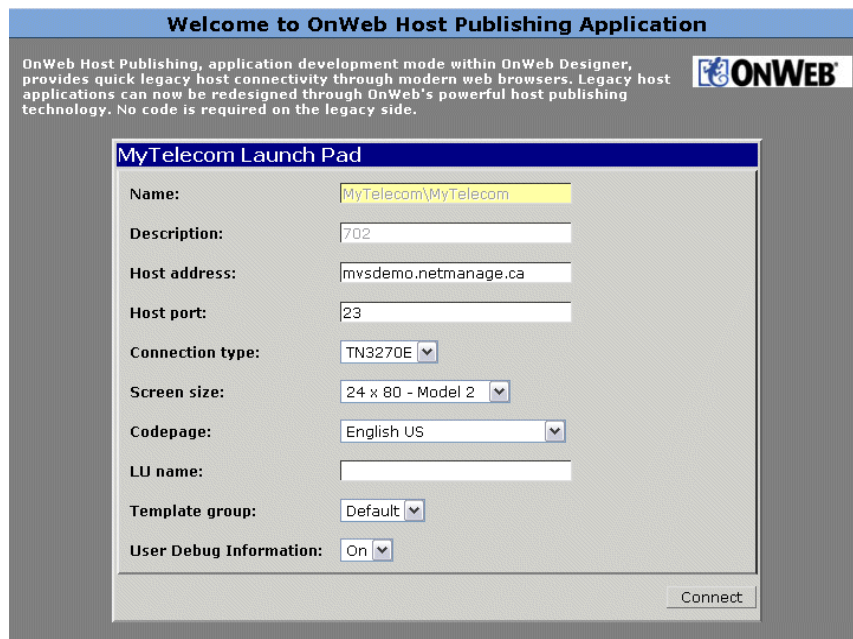
Testing the application

Now that you've created your first Host Publishing application, run it to see how it works.

► To test the Host Publishing application

1. In the Designer tree list, right-click MyTelecom and choose **Build and Test** from the menu.

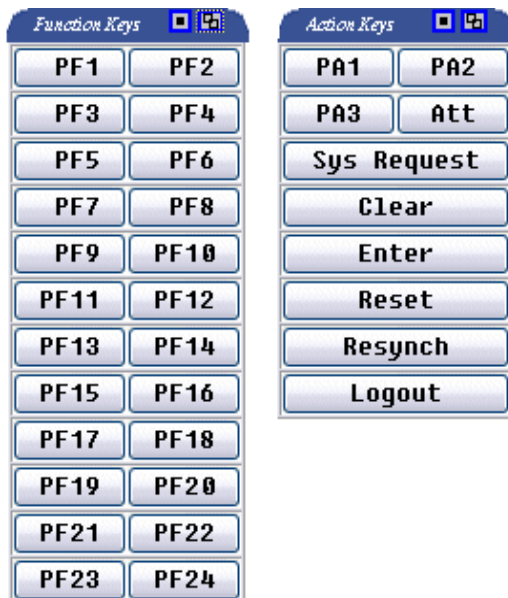
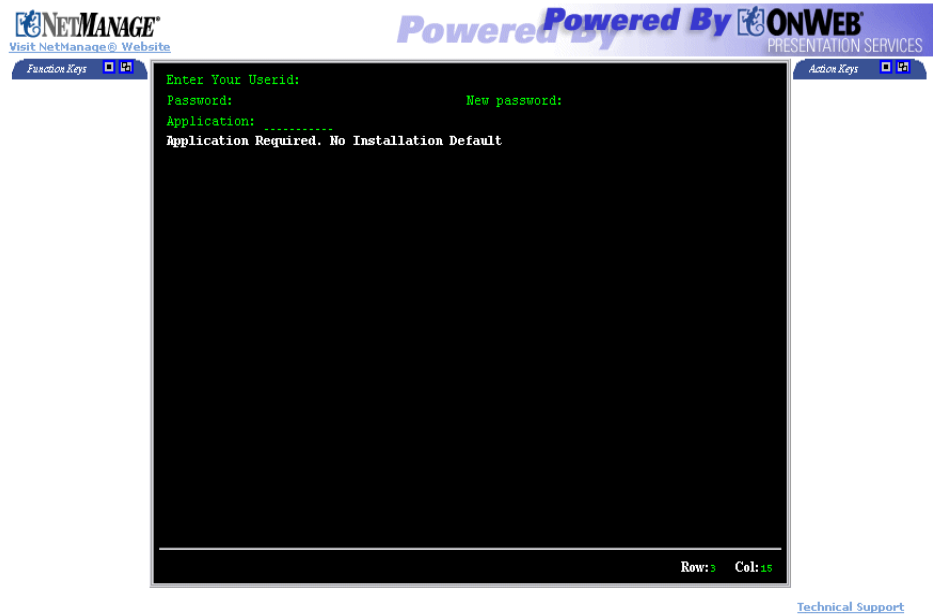
Designer builds the application to OnWeb Server and opens a Web browser displaying a default launch page, as shown below.



This launch page is the default startup page used by Host Publishing applications. It lists general information about the host to which we are about to connect, such as its IP address and session type.

2. Click **Connect** to start the MyTelecom host session.

The host application is displayed within a large black rectangle inside Web page, as shown here:



Various host mainframe applications require the use of extra keys not found on standard PC keyboards. Host Publishing uses **Virtual Keyboards** to solve this problem. These keyboards appear on the Web page as a series of customizable HTML buttons. Click the down arrow keys on the blue keyboards visible on each side of the host screen to expand them.



Summary

You have just examined the most basic functionality of Host Publishing. You have seen how to create a new Designer project and how to create and run a simple Host Publishing application.

Before continuing to the next chapter, you should be familiar with the following points we just covered:

- How to create a new project.
- How to create a new Host Publishing application.
- How to test a Host Publishing application.



In the last chapter, you learned how to create a simple Host Publishing application. Next you will learn how to customize the appearance of your application by applying a template. With templates, you can improve the appearance of your application through creative use of:

- Fonts and colors
- HTML Web links
- Images and media

OnWeb Designer comes with a selection of predefined templates. The templates are written in standard HTML and make use of special OnWeb tags. It is recommended that you have a solid understanding of HTML before starting this section.

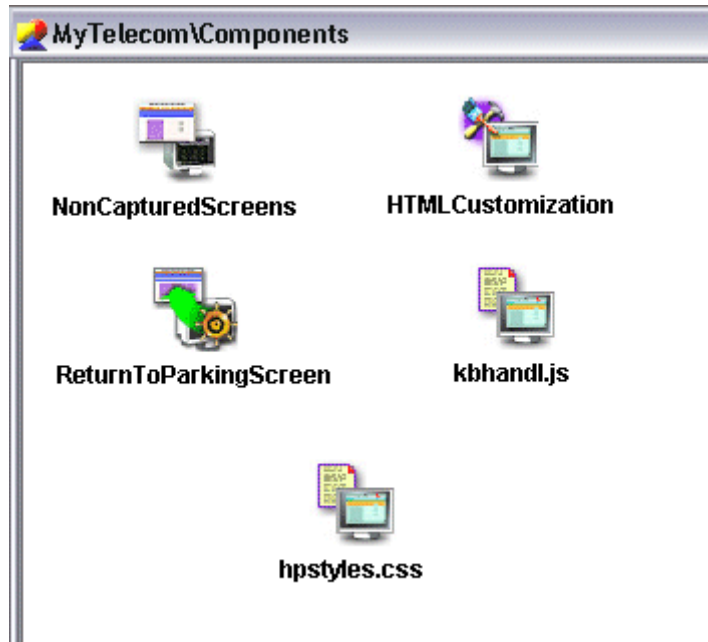
Applying a template

In this lesson, you will be using the MyTelecom application you created in the previous chapter.

Note: The MyTelecom application is stored in the Tutorial project file. OnWeb Designer's title bar indicates which project you are currently working in. If the title bar does not show Tutorial as the current project, you must switch projects. From the **File** menu, choose **Open Project** and select **Tutorial** from the list.

► **To apply a template to a Host Publishing application**

1. In the tree list, double-click Components under your application name. This opens the Components white-board.



2. Right-click the NonCapturedScreens object and choose **Edit** from the menu.
3. In the Select Template dialog box, select "OWPTemplateBottom" and click **OK**.
4. The applied template opens in your default HTML editor. For now, close the editor to return to Designer.

The template you selected will be applied to every host screen. Now test the application to see how the template affects the appearance of your application. See ["Testing the application"](#) on page 11.





The default appearance of MyTelecom has a pair of blue virtual keyboards on either side of the host window. This particular template changes the position and appearance of those virtual keyboards. See “Using Templates” in the OnWeb Designer Help for complete descriptions of each template.

Customizing a template

Next you will learn how to customize the appearance of the MyTelecom application by making changes to the template. You will learn how to change the background color and how to use an OnWeb Designer presentation file to add an image.

► To edit an applied template

1. Open the Components white-board.
2. Right-click the NonCapturedScreens object and choose **Edit** from the menu. The applied template opens in your default HTML editor. You can now modify the template look in your application only, without altering the original template.

You will first start by removing unwanted items from the template such as the two images, a Web link, and an HTML table.

Removing images from the template

The original template includes HTML code to display two images. Clicking each of those images during runtime redirects the Web browser to the Micro Focus corporate Web site. The images are named 'netmanage.gif' and 'hp.gif' and are each embedded within their own anchor element (<A> . .).

Lets remove the two images by removing each anchor element.

► To remove the images

- The two anchor elements are found on lines 18 and 19 of the template. Remove both anchor elements by deleting the following code:

```
<a href="http://www.netmanage.com" target="_blank"
title="Visit NetManage&reg; Website"></a>

<a href="http://www.netmanage.com" target="_blank"
title="Powered by OnWeb&reg; Host Publishing"></a>
```

Removing Web links from the template

The template includes a link to the Micro Focus corporate Web site. It is also embedded within an anchor element.

► To remove the link from the template

- Remove the anchor element by deleting the following code from line 23.

```
<a href="http://www.netmanage.com" target="_blank"
title="Visit NetManage&reg; Website">Visit
NetManage&reg; Website</a>
```



Removing an HTML table from the template

The images and the link from the previous two exercises were originally placed within an HTML Table element. Because you removed the images and the link, the table is now empty.

Remove the empty table in order to keep the HTML code as clean as possible.

Changing the browser title bar string

The HTML Title element contains the following OnWeb tag:

```
<TITLE><!--OW:APPLICATION_NAME--></TITLE>
```

When OnWeb applies the template to the host screen at runtime, it recognizes this tag and replaces it with a set value. In the case of this particular tag, OnWeb inserts the name of the Host Publishing application in the title bar of the Web browser. See Host Publishing HTML Tags Help for more information on OnWeb tags.

► To change the browser title bar string

- Replace the OnWeb tag `<!--OW:APPLICATION_NAME-->` with:
Welcome to MyTelecom

Changing the background color

The current background color for this template is white:

```
<BODY bgcolor="white" onLoad="Init()" text="white"
onUnload="autoLogoff()">
```

► To change the background color

- Replace the attribute `bgcolor="white"` with `bgcolor="#4A5593"`

Adding an image to the template

Adding an image to a template is a two-step process:

Step1: Add the HTML image code to the template, using one of the following methods:

- The image file's path and name:

```

```

- Because every page returned from Host Publishing has its base location set as: `<BASE HREF="HTTP://<server>/<ApplicationName>/host_publishing/">`, you can use the file name without its path:

```

```

Step 2: For each image added to the template, you must add a presentation object to the application.

You will place the image near the upper, left-hand corner of the page and insert the HTML code on the line below the BODY tag.

► **To add the image HTML code to the template**

- Insert the following statement on the line below the BODY tag.

```

```

Saving changes to the template

Next you need to save the changes to your template.

► **To save the changes**

1. Save the template file and close the editor.

Creating a presentation object

Next you must add a presentation object to the Host Publishing application. OnWeb Designer uses presentation objects to represent any graphics, media, or HTML files you use in your application. Since you added an image to the template, you need to add its presentation object to the application.

► **To add a presentation object to the application**

1. Open the Host Publishing white-board.
2. From the **New** menu, choose **Presentation File** and click inside the white-board.
3. In the Presentation File Properties dialog box, click **Browse**.

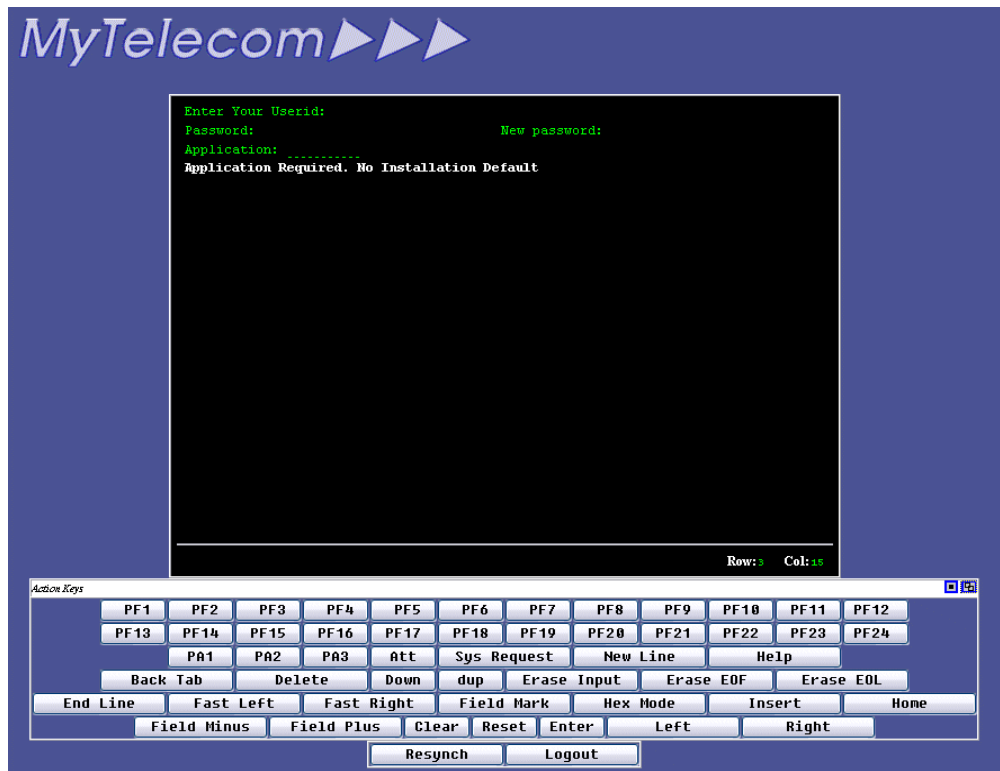


4. In the Select Presentation File dialog box, select the MyTelecom.gif image file from OnWeb \ Documentation folder and click **Open**.
5. In the Presentation File Properties dialog box, click **OK**.

A new presentation object appears in the white-board.



Now test the application to see the changes. The figure below shows the MyTelecom application with the virtual keyboard maximized.



Summary

You've just learned how templates are used within a Host Publishing application. You learned the steps to applying a specific template to an application. You also learned how to modify the template with images and colors as well as how to create presentation objects.

Before continuing to the next chapter, you should be familiar with the following points just covered:

- How to apply a template.
- How to modify a template.
- How to create a presentation object.



In the previous chapter, you were introduced to Host Publishing templates. You learned how templates were used to customize the appearance of a host application. You also learned how to customize a template to fit the requirements of a specific application by adding such elements as images and color.

The drawback of using templates is that the entire host application has the same uniform appearance. A template wouldn't allow you to customize the appearance of a single, specific screen such as a welcome or an error screen.

This chapter will show you how to use a tool called Navigator to capture host screens. You can then customize presentation for each captured screen using the techniques described in [Chapter 5, "Customizing Host Screen Presentation"](#).

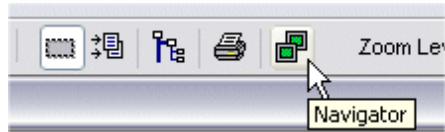
Navigating to a specific host screen

In this lesson, you will be using the MyTelecom application you have created in the first chapter. You will capture the main welcome screen of the customer tracking application for our fictitious telephone company. Because this welcome screen is not the first host screen, you will have to navigate through the host application to find it.

Note: The MyTelecom application is stored in the Tutorial project file. OnWeb Designer's title bar indicates which project you are currently working in. If the title bar does not show Tutorial as the current project, you must switch projects. From the **File** menu, choose **Open Project** and select **Tutorial** from the list.

► **To navigate to a specific host screen**

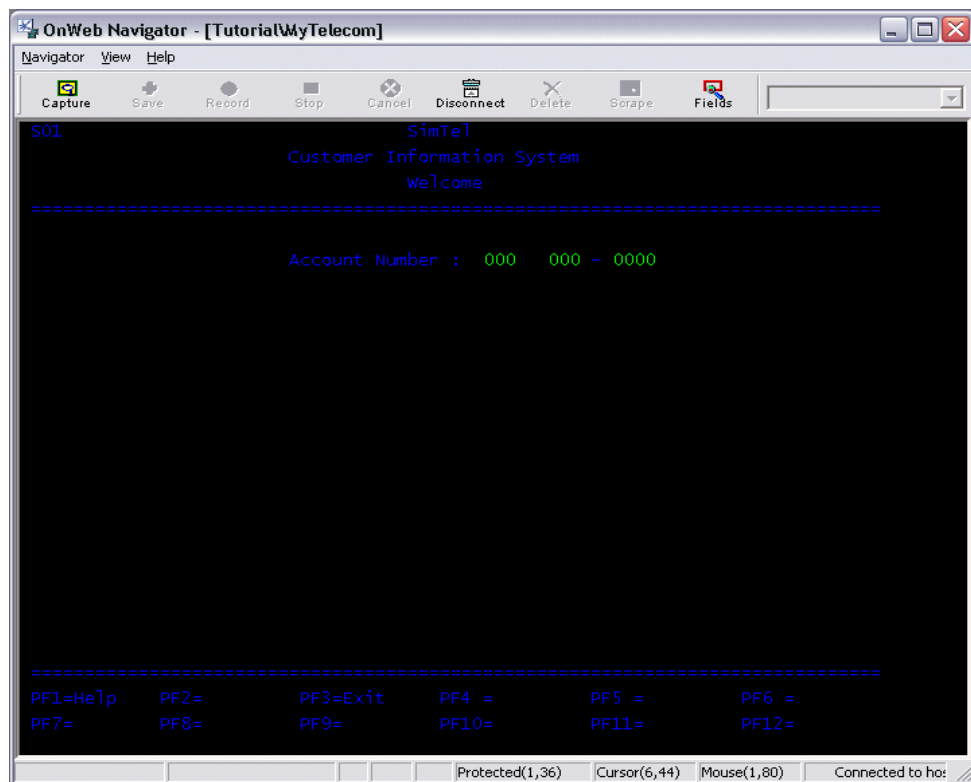
1. On the OnWeb Designer toolbar, click the **Navigator** button.



Navigator starts and connects to the host mainframe.

2. In the **Application** box, type `cicsa0` and press Enter.
3. You must now clear the CICS® welcome screen. To do this, press `Ctrl+Shift+Z`. For more information on Navigator's emulation keys, see "Emulation Keys" in the OnWeb Navigator Help.
4. Type `tele` and press Enter.

Navigator now displays the Welcome screen for the SimTel Customer Information System.



Capturing this screen will allow you to apply a custom appearance unique to this screen.

Capturing a host screen

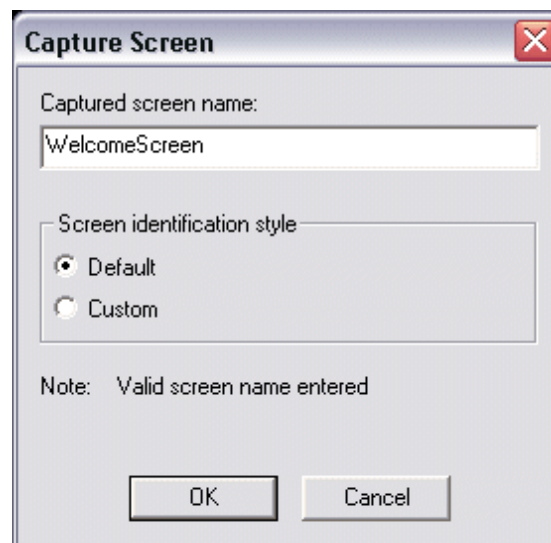
Only host screens which have been captured with Navigator can be given a unique appearance. Host screens are captured by selecting certain screen identifiers. These screen identifiers are strings that are selected either automatically by Navigator or manually and are used by OnWeb to identify individual host screens.

Default screen identifiers

Let's capture the Customer Information System Welcome screen.

► To capture a host screen with default screen identifiers

1. On the Navigator's toolbar, click the **Capture** button.
2. In the Capture Screen dialog box, type `WelcomeScreen` in the **Captured screen name** box.



3. Click **OK**.
Navigator automatically selects several screen identifiers and highlights each of them with a light blue selection box.
4. On the Navigator's toolbar, click the **Save** button.
The color of the screen identifiers changes from a light blue to red indicating the screen has been captured using the automatic process.

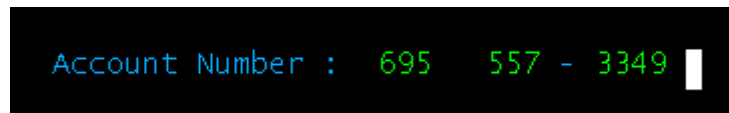
Manual screen identifiers

There are certain situations where the screen identifiers selected by Navigator are unsuitable for use by OnWeb. For example, some host screens display the current time of day. If Navigator selects a particular field that contains the time of day, OnWeb would not be able to recognize the host screen the next time it encounters it because the current time of day will likely be different. In such cases, you can select screen identifiers manually.

Now capture one of the screens following the welcome screen.

► To capture a host screen with manual screen identifiers

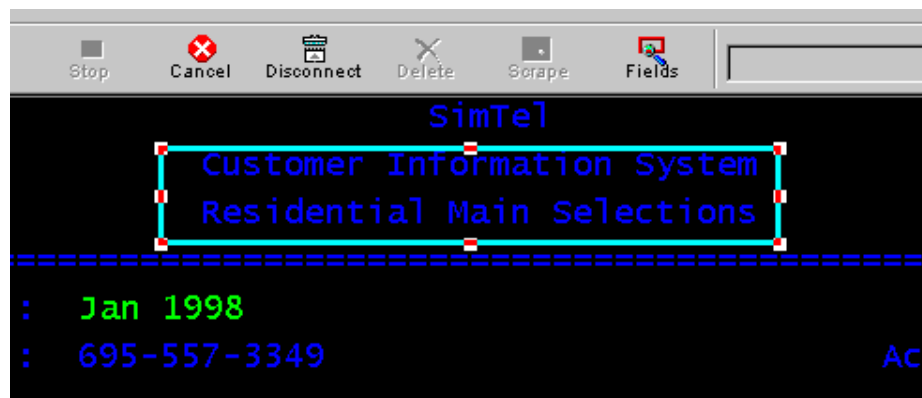
1. Continuing from the previous exercise, enter the telephone number 695 557 3349 and press Enter. The cursor will automatically move from one field to another.



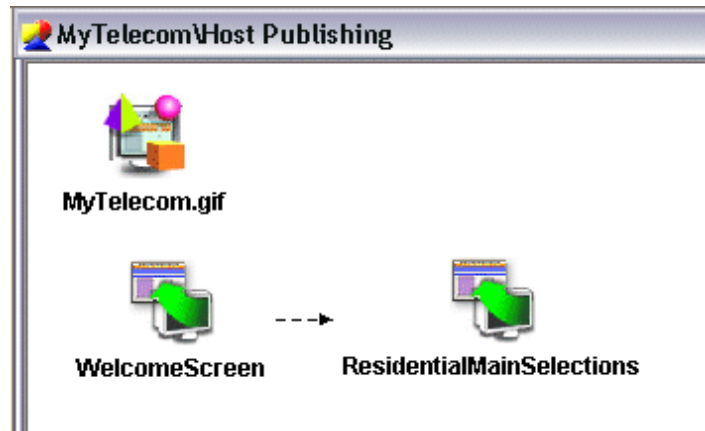
The Residential Main Selections screen appears displaying basic information about the customer.

2. On the Navigator's toolbar, click the **Capture** button.
3. In the Capture Screen dialog box, type `ResidentialMainSelections` in the **Captured screen name** box.
4. In the **Screen identification style** area, select **Custom** and then click **OK**.

The mouse cursor changes to a cross-hairs indicating that you must draw a selection area around some text. Click and drag the mouse pointer around the words "Customer Information System Residential Main Selections", as shown below:



5. On the Navigator's toolbar, click the **Save** button.
The color of the selection area changes from red to yellow to indicate the screen was captured using the manual process.
6. Close Navigator.
Two new screen objects named WelcomeScreen and ResidentialMainSelections are created and displayed in the Host Publishing white-board.



7. Click the **Hierarchical Layout** button to reorganize the screen objects into a more functional layout.

Summary

We've just learned how to capture host screens using Navigator. You saw how OnWeb uses screen identifiers to identify individual screens. Before continuing to the next chapter, you should be familiar with the following points we just covered:

- How to capture a host screen using the automatic method.
- How to capture a host screen using the manual method.



Customizing Host Screen Presentation 5

In the last chapter, you learned how to use Navigator to capture individual host screens.

Next, you will see how special XML files called transforms are used to customize the appearance of those individual host screens beyond the capabilities offered by templates.

You will also be introduced to the OnWeb FrontPage Plugin. The plugin is a special Web component for Microsoft FrontPage that allows you to create entirely new Web pages that can manipulate host screens.

For this chapter, it is recommended that you have a working knowledge of XML coding and of Microsoft FrontPage.

Using transforms

A captured screen file is an XML representation of a host screen. You must apply a transform to a captured screen before you can customize the screen's appearance.

OnWeb has three basic transforms available to you.

- **HTML** - Transforms a captured screen into HTML format, which uses HTML tags supported by Host Publishing.
- **XSL** - Transforms a captured screen into XSL format.
- **OnWeb Plugin** - Transforms a captured screen into HTML format enabled for using OnWeb Plugin for editing. The HTML page is initially blank.

Editing a transform

In the following exercises, you will learn how to customize the default appearance of a transform. You will customize the transform by changing the background color and adding an image. Customizing the transform itself will save you from making these changes to each captured screen you apply the transform to. Later, you will apply the transform to a captured host screen and further modify the new screen to include an image, buttons, and text.

You can customize transforms using either the default editor supplied with OnWeb or an XML editor of your choice. See “Specifying OnWeb Designer Preferences” in the OnWeb Designer Help for more information.

Of the three transforms available to you in OnWeb, you will base your customizations on the OnWeb Plugin transform. You will use the MyTelecom application created in the previous chapters.

► To edit a transform

1. From the OnWeb Designer **Tools** menu, choose **Host Publishing Transforms**.
2. In the Host Publishing Transforms dialog box, select OnWeb Plugin from the list and click **Duplicate**.
3. In the Duplicate dialog box, type `TransformTutorial1` and click **OK**.
4. In the Host Publishing Transforms dialog box, select `TransformTutorial1` from the list and click **Edit**.
5. On the Check Out message box, click **Yes**.

The default XML editor starts, displaying the contents of `TransformTutorial1`. The transform is composed of HTML code wrapped in XSL tags. Those XSL tags will later be stripped out by OnWeb during runtime.



Changing the background color

The first change will be to make the background color of the transform match that of the template you customized for the application. The default color of this transform is white as it has no bgcolor attribute in the body tag.

► To change the background color

- Insert the attribute `bgcolor="#4A5593"` inside the BODY tag.

The new body tag should look like this:

```
<BODY onLoad="set_onwebplugin_defaults()"
  bgcolor="#4A5593">
```

Adding an image

You will now add the MyTelecom.gif image file to the transform. This is the same image that you added to the template in [Chapter 3, "Using Templates"](#).

► To add an image to a transform

1. Insert the following statement on the line below the BODY tag:

```

```

Note: You are required to create a presentation object for each image you use in your transforms. As you have already included the MyTelecom.gif image in the TemplateTutorial1 template and created its corresponding presentation object, you do not need to create one here.

Saving the changes to the transform

Next you need to save and check in the changes to the transform.

► To save and check in the changes

1. In the default XML editor, save the file and close the editor.
2. In the Host Publishing Transforms dialog box, click **Check In**.
3. In the Check In dialog box, click **OK**.
4. In the Host Publishing Transforms dialog box, click **Close**.

Applying a transform

The next step is to apply the transform to a captured screen object. Unlike templates, transforms must be applied manually to each captured screen object for the customizations to take effect.

► To apply a transform to a captured screen

1. On the Host Publishing white-board, double-click the captured screen object named WelcomeScreen.
2. In the Apply Transform dialog box, select TransformTutorial1 and click **OK**.

The HTML editor starts and displays the HTML representation of the transformed screen. Once you apply a transform to a captured screen, the screen is ready to be used in your Host Publishing application.

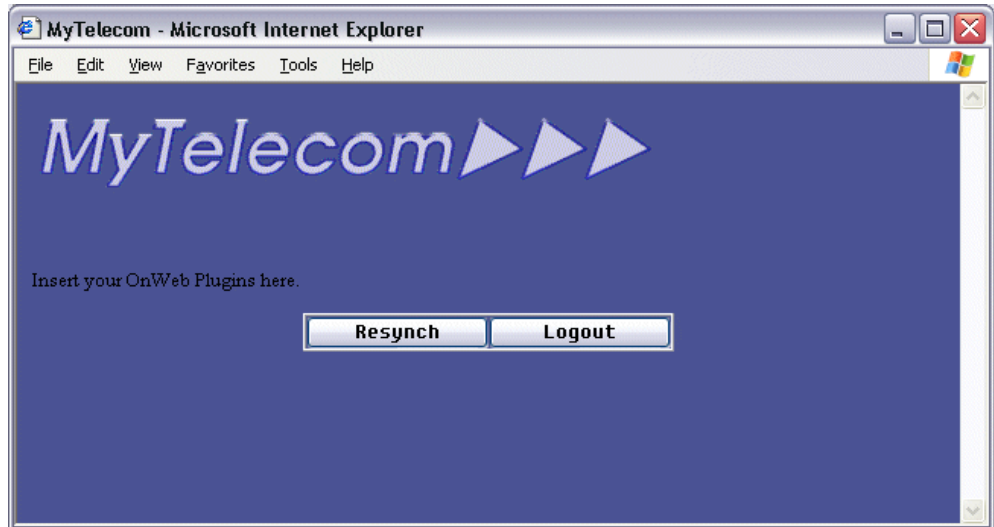
You will have to further customize the appearance of this individual screen, however, as it was customized by a template based on the OnWeb Plugin transform. You will customize this screen in the next section.

3. Exit the editor.

You may view the captured screen by testing the Host Publishing application and navigating to the MyTelecom welcome screen.

Customizing the captured screen

In the last section, you learned how to customize a captured screen by using a transform. You changed the background color and added an image. If you tested the Host Publishing application, you would have noticed the MyTelecom welcome screen is quite similar to the previous screens customized with a simple template, except the black host window is missing, as shown here:



The advantage to using a transform is that while you can customize the appearance of a specific host screen, its real power is the option to use the OnWeb Plugin, as you'll see later.

Microsoft FrontPage

The following exercises require the use of Microsoft FrontPage. The minimum version of FrontPage required is FrontPage 98 but this guide will follow the conventions used in FrontPage 2002.

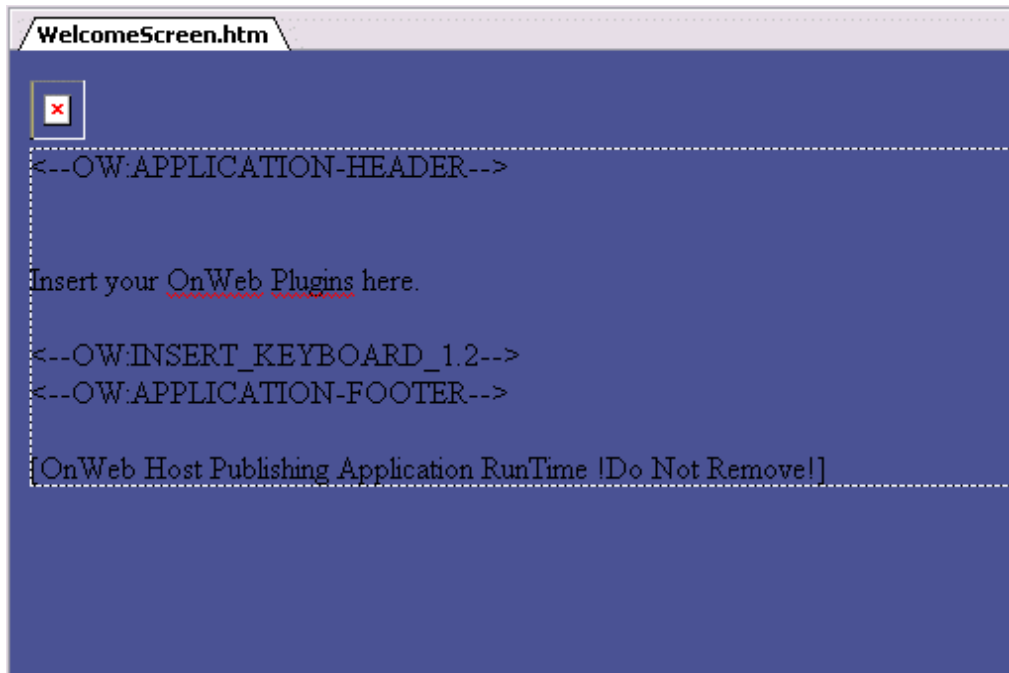
In order to use FrontPage with OnWeb Designer, you must change the default HTML editor in Designer's Edit Preferences dialog box to FrontPage. For more information on changing the default HTML editor, see "Specifying OnWeb Designer preferences" in the OnWeb Designer Help.

Once Designer is configured to use Microsoft FrontPage as the default HTML editor, you may start using the OnWeb Plugin.

► **To start FrontPage from Designer**

- On the Host Publishing white-board, double-click the WelcomeScreen object.

FrontPage starts and displays the Normal view of the welcome screen.



Using HTML form elements

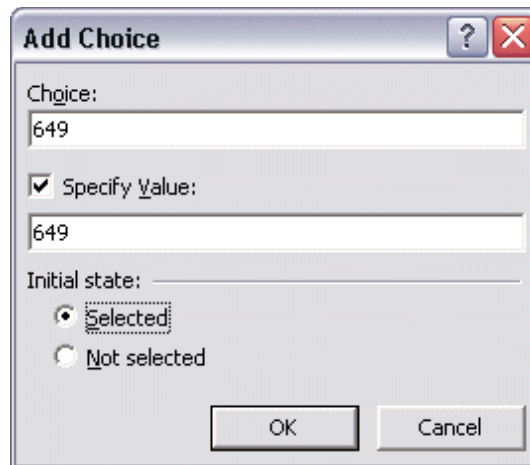
The main function of the MyTelecom welcome screen is to allow the operator to enter a customer's telephone number to retrieve the customer's information. You will make the following changes to the screen:

- You will start building this screen by first adding a drop-down list containing a series of valid telephone area codes.
- Then you will add two text fields, one for the first three digits of the telephone number, and one for the last four digits.
- You will then use the OnWeb Plugin to add a button that will be used to initiate the search.
- Finally, you will add a few extra features such as descriptive text and two function buttons.



► **To insert a drop-down box**

1. Delete the “Insert your OnWeb Plugins here” text.
2. From the **Insert** menu, point to **Form**, then choose **Drop-Down Box**. FrontPage inserts an unpopulated drop-down box.
3. Double-click the new drop-down box.
4. In the Drop-Down Box Properties dialog box, type AREACODEDROPDOWN in the **Name** box.
5. Click **Add**.
6. In the Add Choice dialog box, type 694 in the **Choice** box.
7. Select the **Specify Value** check box.
8. In the **Initial state** area, click **Selected**.



9. Click **OK**.
10. Repeat steps 5 through 8, typing 695 and 696 in the choice box, and choosing the **Not selected** option in the **Initial state** area.
11. In the Drop-Down Box Properties dialog box, click **OK**.

The new drop-down box is now populated with 3 area codes, one of which is the default selection, as shown below:



Now you will add a pair of text boxes for the seven digit telephone number; one for the first three digits, and one for the last four digits. You will place the text boxes next to the area code drop down box.

► **To add a pair of text boxes for the telephone number**

1. Place the cursor to the right of the drop-down box and press the spacebar 3 times.
2. From the **Insert** menu, point to **Form**, then choose **Textbox**.
A new text box appears next to the drop-down box.
3. Double-click the new text box.
4. In the Text Box Properties dialog box, enter `phonenumfirst3` in the **Name** box.
5. In the **Initial value** box, enter `000`.
6. In the **Width in characters** box, replace the 20 with a 3 and click **OK**.
7. Place the cursor to the right of the new text box and press the spacebar 2 times.
8. From the **Insert** menu, point to **Form**, then choose **Textbox**.
9. Double-click the new text box.
10. In the Text Box Properties dialog box, enter `phonenumlast4` in the **Name** box.
11. In the **Initial value** box, enter `0000`.
12. In the **Width in characters** box, replace the 20 with a 4 and click **OK**.

The screen should now look like this:



Adding a Search button with the OnWeb Plugin

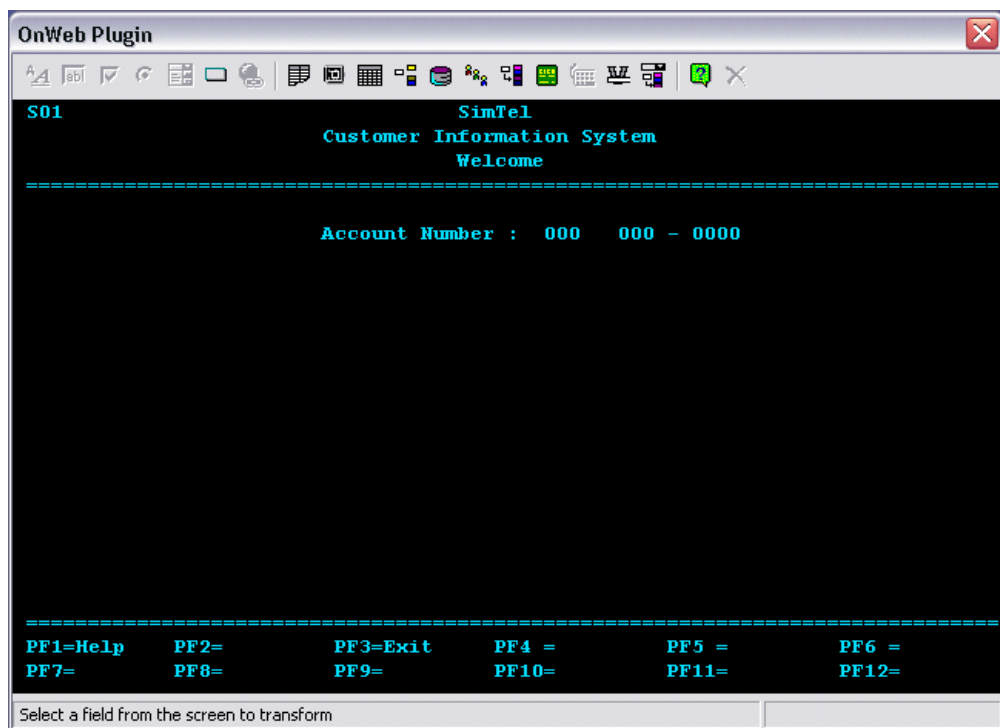
In the next exercises, you will learn how to use the OnWeb Plugin to add a button to your screen.

First, you must learn to start the OnWeb Plugin.

► To start the OnWeb Plugin

1. From the **Insert** menu, choose **Web Component**.
2. In the Insert Web Component dialog box, select Additional Components from the **Component type** list.
3. In the **Choose a component** list, double-click OnWeb Plugin.


The OnWeb Plugin starts and displays the unformatted contents of the WelcomeScreen object.

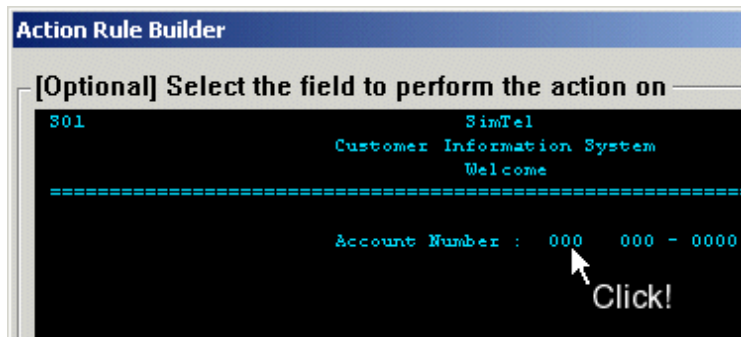



4. For now, close the OnWeb Plugin.

Next you will use the OnWeb Plugin to add a **Search** button next to the telephone number text boxes.


► **To add a Search button**

1. Place the cursor after the last telephone number box and press the spacebar 5 times.
2. Start the OnWeb Plugin.
3. On the toolbar, click 
4. In the Push Button dialog box, type `Search` in the **Value** box.
Next you will specify which actions OnWeb will perform when the **Search** button is clicked.
5. In the **Component Properties** area, click **Add**.
The Action Rule Builder dialog box appears. Here you can define a series of commands which will be executed when the new **Search** button is clicked.
6. In the representation of the screen, click the area code field as shown here:



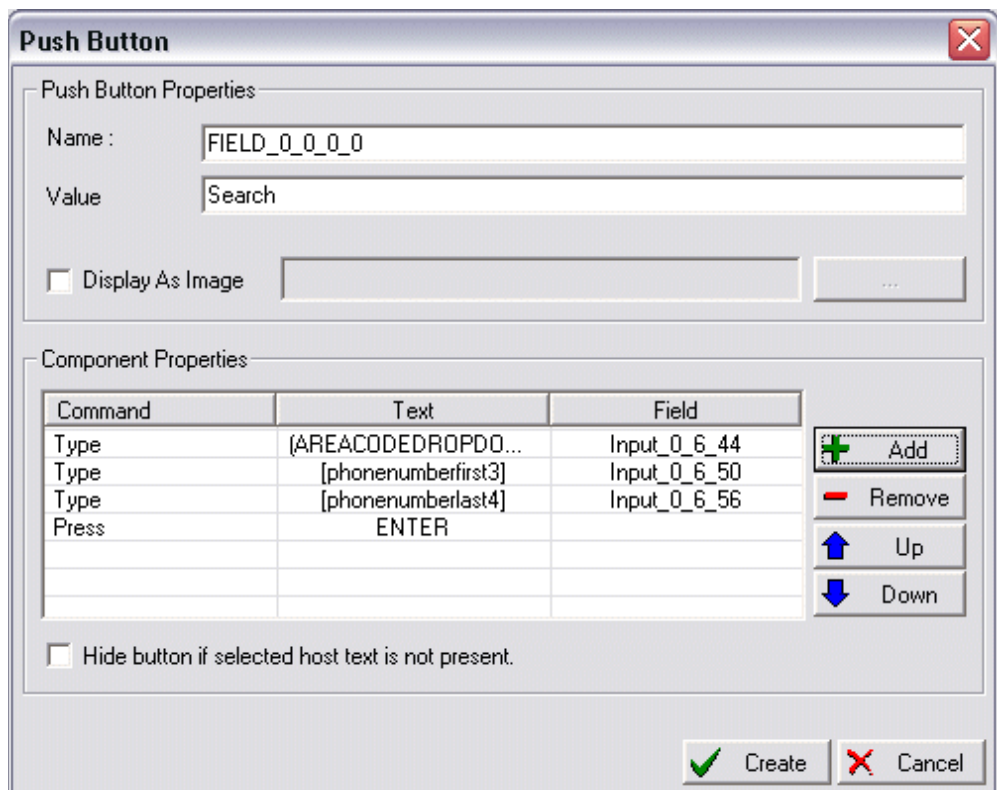
7. Click  to open the Select Value Option dialog box.
8. Click the **Dynamic** tab.
The **Dynamic** tab lists all the valid HTML form elements which are present on the current screen. It allows you to combine data from any of those elements into a single, larger value.
9. In the **Existing Form Elements** area, select `AREACODEDDROPDOWN`, click **Insert**, then click **OK**.
10. In the Action Rule Builder dialog box, click **Create**.

11. Repeat steps 5 through 10 to complete the remainder of the telephone number:
 - › For the first three digits of the telephone number, select “phonenumfirst3” from the **Existing Form Elements**.
 - › For the last four digits of the telephone number, select “phonenumlast4” from the **Existing Form Elements**.
12. In the Push Button dialog box, click **Add**.

13. In the Action Rule Builder dialog box, click  Keyboard and select Enter from the virtual keyboard.

14. Click **Create**.

In the Push Button dialog box, the **Component Properties** area now lists the commands that will be executed when the **Search** button is clicked, as shown here:



Push Button

Push Button Properties

Name : FIELD_0_0_0_0

Value Search

Display As Image

Component Properties

Command	Text	Field
Type	(AREACODEDROPDO...	Input_0_6_44
Type	[phonenumfirst3]	Input_0_6_50
Type	[phonenumlast4]	Input_0_6_56
Press	ENTER	

Hide button if selected host text is not present.

Create Cancel

When the **Search** button is clicked, OnWeb will:

- › **Type** the text from **AREACODEDROPDOWN** into the host input field **Input_0_6_44**.
- › Then **Type** the text from **phonenumberfirst3** into the host input field **Input_0_6_50**.
- › Then **Type** the text from **phonenumberlast4** into the host input field **Input_0_6_56**.
- › Then **Press** the **ENTER** key.

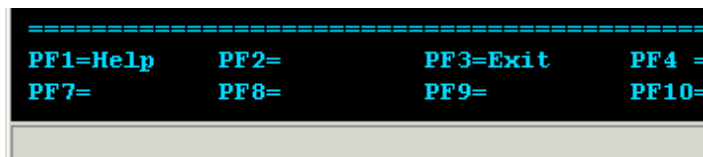
15. In the Push Button dialog box, click **Create**.

The screen should now look like this:



Adding Help and Exit buttons with the OnWeb Plugin


At the bottom of the host screen are two rows of PF commands. These are to remind the user which application functions are available on any particular host screen. On the MyTelecom welcome screen, the only functions available are the Help and Exit functions.



You will use the OnWeb Plugin feature called Hot-spot Keyboard to add buttons to represent the Help and Exit host functions.

► To add command buttons

1. Place the cursor next to the **Search** button and press Enter, then press the spacebar twice.
2. Start the OnWeb Plugin.
3. Click and drag the cursor around the two rows of PF keys. The selected text changes to yellow.

4. On the toolbar, click .
5. In the Hot-Spot Keyboard dialog box, leave the default values and click **Create**.
6. The line [HOT-SPOT KEYBOARD] is inserted below the phone number drop-downs.
At run time, the PF1=Help and PF3=Exit entries will be presented as two buttons, **Help** and **Exit**.

Finishing up

Now add a short sentence indicating how to use the MyTelecom welcome screen.

► To add the text

1. Place the cursor on the line above the area code drop-down box and press the spacebar twice.
2. Type `Enter customer telephone number:`
3. You can highlight the sentence and change the font, style, and color.

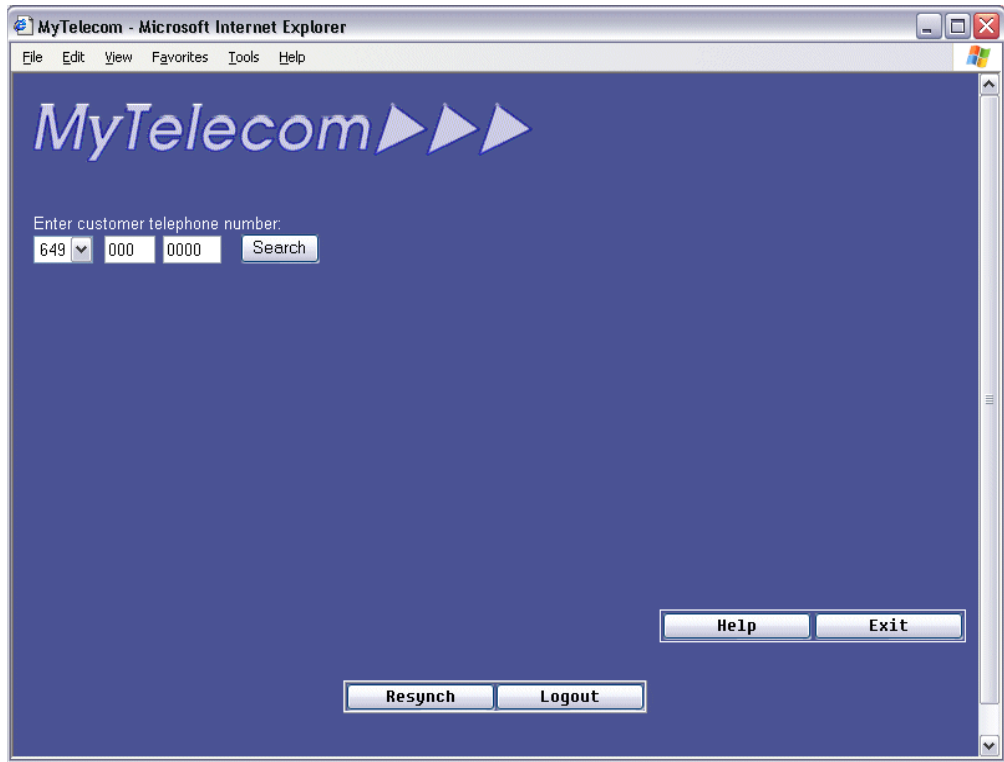
The new elements you placed on the welcome screen are too close together. Rearrange the layout by adding extra blank lines and adjusting the alignment.

► To rearrange the layout of the elements

1. Place the cursor on the line to the right of the **Search** button and press Enter eight times.
2. Place the cursor on the [HOT-SPOT KEYBOARD] line and click **Align Right**.

Now that you completed all the customizations, you can save your work and close FrontPage to return to OnWeb Designer.

Test the Host Publishing application and navigate to the MyTelecom welcome screen to see the changes you made.



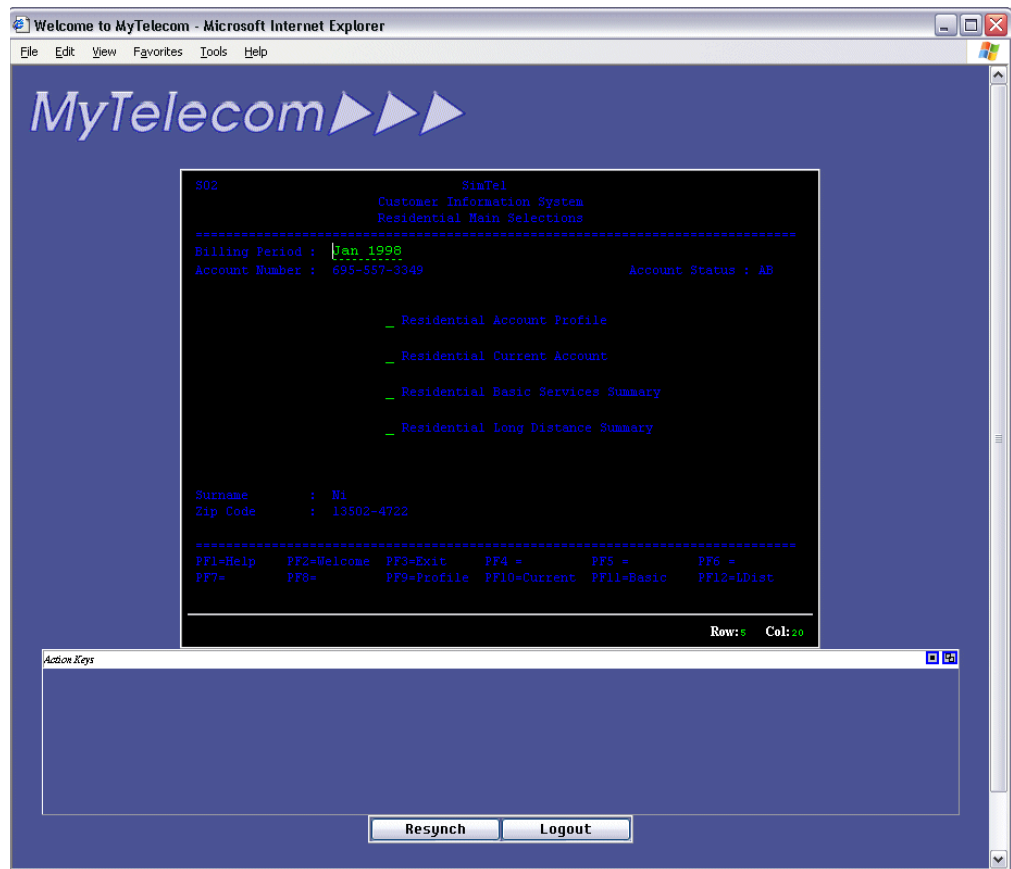
As you can see, the appearance is considerably different from the screens produced with the templates. The drop-down, input fields and buttons are fully functional. Clicking the **Help** button results in a host mainframe help screen. Clicking the **Exit** button will close the customer tracking application.

Now try the MyTelecom welcome screen by entering a telephone number.

► **To test the MyTelecom welcome screen**

1. In the area code drop-down box, select 695.
2. In the telephone number fields, enter 557 and 3349 respectively and click **Search**.

As you can see, OnWeb passed the information you supplied onto the host mainframe and returned with the proper result. The screen displaying the result of your search was formatted using a template because a transform has not been applied to it.



Summary

You have just learned how to use transforms to customize your Host Publishing application. You learned how to customize a transform using color and images. You were also introduced to the OnWeb Plugin and how it is used to add specialized HTML elements to your host screen.



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