

SAVVIS Content Exchange Services

URL Specifications

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1. Introduction

To provide a means for customers to easily integrate SAVVIS Content Exchange Services with their web applications, SAVVIS has implemented an URL API Program. The URLs covered in this program will allow customers to integrate with the WAM!NET® Internet GatewaySM, WAM!NET® Content StudioSM and WAM!NET® Content Submission PortalSM Services. This document contains the detailed information required for customers to build these URLs.

2. Build URL Tool

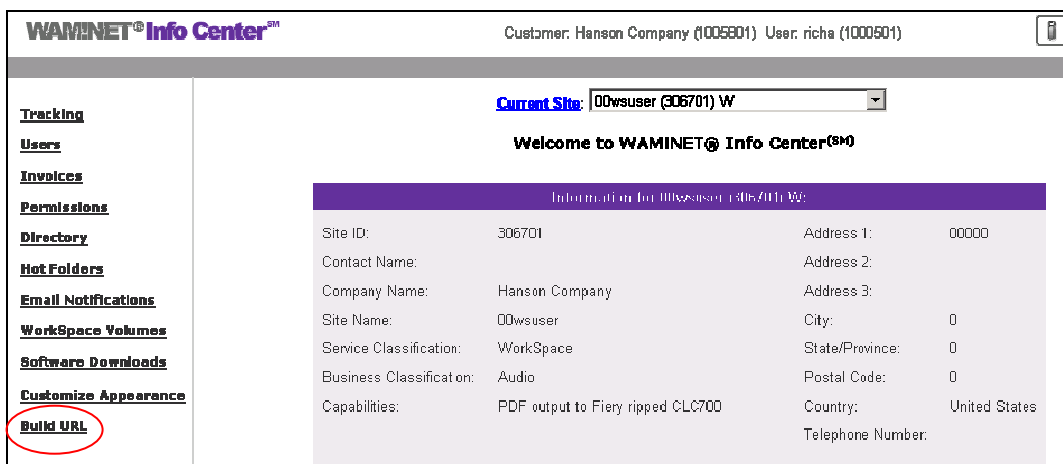
To facilitate generating appropriate URLs, SAVVIS has made available a Build URL tool in WAM!NET® Info CenterSM. This Build URL tool can be used to generate the following URLs:

- Internet Gateway Auto Login URL
- Content Studio Auto Login URL
- Content Studio View/Download Asset URL

NOTE: The Build URL tool does not generate Content Submission Portal URLs, however, instructions for building those URLs are included in this document.

For access to the Build URL tool in Info Center your company must be registered for the URL API Program and the user must have Info Center Administrator permissions. For more information on how to register for the URL API Program please contact your SAVVIS Account Representative.

To access the Build URL tool, log into Info Center and click on the Build URL link as shown below:



The screenshot shows the WAM!NET Info Center interface. At the top, it displays 'Customer: Hanson Company (1005801) User: richa (1000501)'. Below this, there is a 'Current Site' dropdown menu set to '00wsuser (306701) W'. A welcome message reads 'Welcome to WAM!NET® Info Center®'. A table titled 'Information for 00wsuser (306701) W:' contains the following data:

Information for 00wsuser (306701) W:			
Site ID:	306701	Address 1:	00000
Contact Name:		Address 2:	
Company Name:	Hanson Company	Address 3:	
Site Name:	00wsuser	City:	0
Service Classification:	WorkSpace	State/Province:	0
Business Classification:	Audio	Postal Code:	0
Capabilities:	PDF output to Fiery ripped CLC700	Country:	United States
		Telephone Number:	

On the left sidebar, the 'Build URL' link is circled in red.

Once you launch the tool there are several links corresponding to the specific URL that you wish to create. The following sections describe each of these in detail.

3. Internet Gateway Auto Login URL

The Internet Gateway Service features an URL that allows users to automatically log into the service without requiring User Name and Password authentication. The URL allows customers to seamlessly integrate all of the features of the Internet Gateway Service into their web applications. It also supports customized Internet Gateway user interfaces. This section will assist with integrating and generating this URL.

NOTE: There is a security implication to providing this type of access. Anyone with access to the URL will be able to access the Internet Gateway account as if they logged in as that user. So, if the Internet Gateway account is authorized to access Info Center or other services such as WAM!NET® WorkSpaceSM or Content Studio, they will also be accessible via the login. If anonymous send only access is required, consider using the Content Submission Portal Service. The Content Submission Portal is a much more limited interface that restricts access to only submission of content. Please contact your SAVVIS Account Representative for more details.

A. Integrating the Internet Gateway Auto Login URL into Your Application

To provide access to a specific Internet Gateway resource without authentication, the Build URL tool will generate an URL that is associated with a specific Internet Gateway account. This URL can then be embedded by your web development team into your application that integrates the Internet Gateway Service. Once completed, users will be able to access the full features of Internet Gateway through your application.

Once the user logs out of the Internet Gateway Service they are redirected back to the referring page (your web page that contains the URL link). Because of this, the web page that includes the URL should contain content that is appropriate to the redirect.

To assist with managing the redirect, you can append your own specific URL parameters to the URL generated by the Build URL tool. These parameters will be passed back to the referring URL upon Internet Gateway logout.

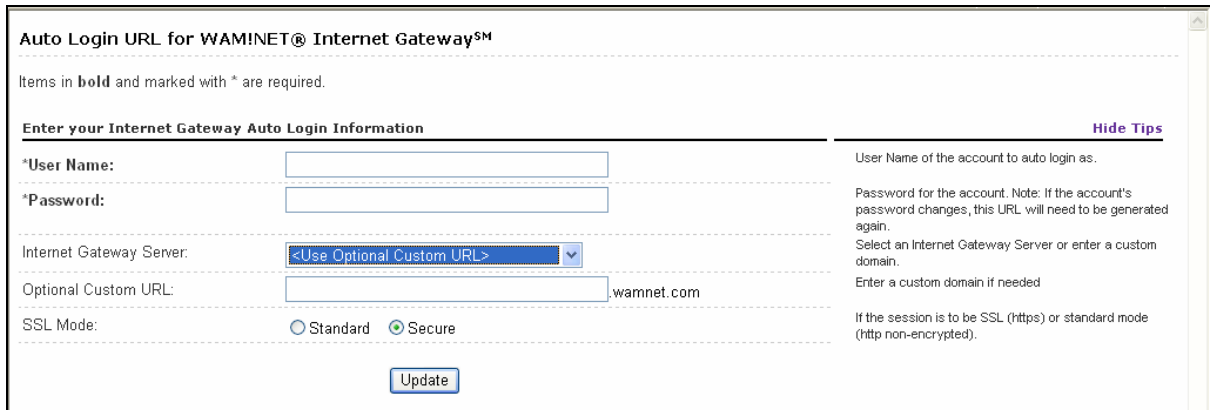
In addition, the Internet Gateway Service will append a series of Internet Gateway specific URL parameters that will allow you to extract a text message indicating exit status (i.e. successful logout, timeout, or service is temporarily unavailable). If you wish to display this message, embed the following javascript in the referring page:

```
<script language="JavaScript1.1"  
src="http://internetgateway.wamnet.com/URLAPI.js"  
type="text/javascript"></script>
```

Note that this script simply retrieves the real javascript from the Internet Gateway server. The Internet Gateway specific URL parameters may change in the future, however, the javascript provided will always be compatible with any changes that may occur.

B. How to Build the Internet Gateway Auto Login URL

Within the Build URL tool, click Login under the Internet Gateway section and you will see the following screen:

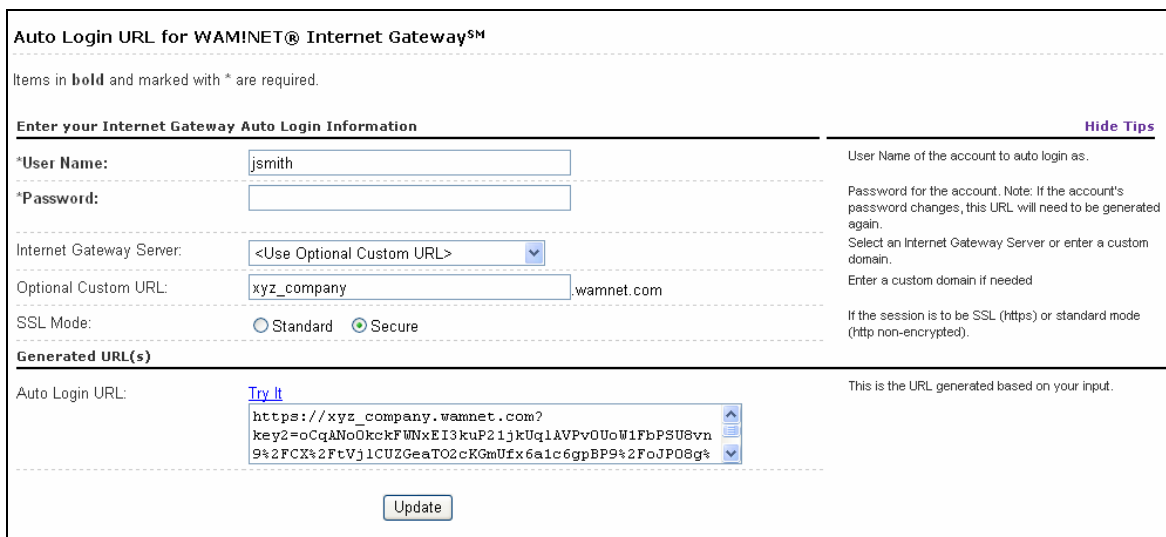


First, specify the User Name and Password (Service Login) associated with the Internet Gateway account. These are required fields.

If you are using a customized user interface for Internet Gateway, select <Use Optional Custom URL> for the Internet Gateway Server option. Then enter the URL assigned to this customization in the Optional Custom URL field. If you are using the standard Internet Gateway interface, select the appropriate Internet Gateway Server and leave the Optional Custom URL field blank.

Choose the preferred SSL mode: either Standard (http) or Secure (https).

Click the Update button at the bottom of the screen and the tool will generate and display the Internet Gateway Auto Login URL, as shown below, that you will embed in your application.



The "Try It" link will test the URL by opening a new browser window and launch the URL. Please note that when you log out of the Internet Gateway Service from this test page, the system does not refer back to the Build URL tool, and as a result you may see some browser errors.

4. Content Studio Auto Login URL

The Content Studio Service features an URL that allows users to automatically log into the service without requiring User Name and Password authentication. The URL allows customers to seamlessly integrate all of the features of Content Studio into their web applications. It also supports customized Content Studio user interfaces. This section will assist with integrating and generating the Content Studio Auto Login URL option.

NOTE: There is a security implication to providing this type of access. Anyone with access to the URL will be able to access the Content Studio account as if they logged in as that user. So, if the Content Studio account is authorized to access Info Center it will also be accessible via the login. If anonymous send only access is required, consider using the Content Submission Portal Service. The Content Submission Portal is a much more limited interface that restricts access to only submission of content. Please contact your SAVVIS Account Representative for more details.

A. Integrating the Content Studio Auto Login URL into Your Application

The Content Studio Auto Login URL is based on a User Name and Password (Service Login). When the URL is used the user will have access to any libraries that the Service Login is associated with and will be limited to the permissions of the Service Login as configured in Info Center.

To provide access to Content Studio without authentication the Build URL tool will generate an URL that can then be embedded by your web development team into your application that integrates the Content Studio Service. Once completed, users will be able to access the full features of Content Studio through your application.

The Content Studio Auto Login URL also supports a predefined search. With the use of a predefined search the login URL not only logs the user into Content Studio but also runs the predefined search and displays the search results upon login.

Once the user logs out of the Content Studio Service, he/she will be prompted to close the window.

B. How to Build the Content Studio Auto Login URL

Within the Build URL tool, click Login under the Content Studio section and you will see the following screen:

Build a Login URL for WAM!NET® Content StudioSM

Items in **bold** and marked with * are required.

Authentication Information	Hide Tips
User Name: <input type="text"/>	User Name of the account to auto login as.
Password: <input type="password"/>	Password for the account. Note: If the account's password changes, this URL will need to be generated again.
Extended Login Parameters	
Project: <input type="text"/>	Allows the assignment of a customer defined project code used for additional identification of download and ship activities. The assigned value will be appended to the user login name and appears on the Asset Activity Transaction Report under the column heading User.
Customization: <input type="text"/>	If you wish to use a customization with this login, enter it here.
Optional Search Parameters	
Search Type: <input type="text" value="Basic"/>	These are optional parameters you can add onto your login to automatically initiate a search. More Info .
Search Parameters: <input type="text"/>	If you are choosing to use this url for searching, enter any search parameters here.
SSL Mode: <input type="radio"/> Standard <input checked="" type="radio"/> Secure	If the session is to be SSL (https) or standard mode (http non-encrypted).
<input type="button" value="Update"/>	

First, specify the User Name and Password (Service Login) for the auto login. These are required fields.

Content Studio writes transaction records that allow users to track their activity in the system. Normally this is based on the login name. However, if you would like to track activity based on a specific project, you can

enter an identifier for this project in the Project field. This identifier will be added to the user's login name and will appear on the Asset Activity Transaction Report in Content Studio.

If you have created a customized Content Studio user interface, you will have chosen a name to identify this customization. You may enter this name in the Customization field, in which case your customized user interface for Content Studio will then be accessed by the user upon login.

By default, when a user logs in using the Auto Login URL, he/she will be logged into the basic search screen. The user is then free to navigate Content Studio. If you would like to change that behavior to return a set of results associated with a specific search, enter the search criteria in the Search Parameters field. If the Search Parameters contain advanced search features, you must select the Advanced option as the Search Type. Select the More Info link in the Tips section of the tool for more details on the available search parameters.

Choose the preferred SSL mode, either Standard (http) or Secure (https), to identify the preferred method of accessing Content Studio. This setting will apply to both the initial auto login as well as the entire Content Studio session.

Click the Update button at the bottom of the screen and the tool will generate and display the Content Studio Auto Login URL, as shown below, that you will embed in your application.



The screenshot shows a web interface titled "Generated URL(s)". On the left, there is a label "Auto Login URL:" followed by a blue "Try It" link. Below this is a text area containing a long URL: `https://contentstudio.wamnet.com/cgi-bin/cs/mvsrc_h_front?SSL=Yes&process_control=returnPage&header=tmp1/loginPage.tmp1&KEY=zzGuIRK3JQb/KPyk5CxxzOnE11H0LQ8hwTy0BIysp2FvNFYTTp16HuU1CCnp2wOhILOmDtHStw%3D`. To the right of the text area is a small note: "This is the URL generated based on your input." At the bottom center of the form is a button labeled "Update".

The "Try It" link will test the URL by opening a new browser window and launch the URL. Please note that when you log out of the Content Studio Service from this test page, you will be prompted to confirm your logout and the window will close if "Yes" is selected.

5. Content Studio View/Download Asset URL

The Content Studio Service features an URL that will allow a user to view or download a specific asset. This section will assist with integrating and generating the Content Studio View/Download Asset URL.

NOTE: There is a security implication to providing this type of access. Anyone with access to the URL will be able to access the asset that is configured for that URL.

A. Integrating the Content Studio View/Download Asset URL into Your Application

The Content Studio View/Download Asset URL is based on a User Name and Password (Service Login). When the URL is used, the system will validate that the Service Login is authorized to access the indicated asset and, if so, the asset will be returned. You may choose to configure the browser to either view the asset or download it as a file. If the Service Login used in the URL is not authorized to access the indicated asset, an http error: File Not Found will be returned.

B. How to Build the Content Studio View/Download Asset URL

Within the Build URL tool, click Download under the Content Studio section and you will see the following screen:

Build a Download URL for WAM!NET® Content StudioSM

Items in **bold** and marked with * are required.

Generic Download Information		Hide Tips
* User Name:	<input type="text"/>	User Name of the account to auto login as.
* Password:	<input type="password"/>	Password for the account. Note: If the account's password changes, this URL will need to be generated again.
* Representation Type	Source <input type="button" value="v"/>	The Asset Representation you wish to download.
SSL Mode:	<input type="radio"/> Standard <input checked="" type="radio"/> Secure	If the session is to be SSL (https) or standard mode (http non-encrypted).
Download by Asset Name		
Library Name:	<input type="text"/>	Enter the name of the Content Studio Library you are downloading from.
Asset Name:	<input type="text"/>	Enter the name of the asset you are downloading.
File Name:	<input type="text"/>	Enter the optional File Name you would like this asset downloaded as. Note: this does not need to be the Assets actual file name.
Download by Asset Locator ID		
Asset Locator:	<input type="text"/>	Enter the Asset Locator ID for the Asset you are downloading.
File Name:	<input type="text"/>	Enter the name of the file you are going to download. Note: this does not need to be the Assets actual file name.

First, specify the User Name and Password (Service Login) with the proper rights to access the asset. These are required fields.

The only Representation Type currently supported is Source. This will display by default. Other Representation Types may be added in the future.

Choose the preferred SSL mode, either Standard (http) or Secure (https), to identify the preferred method of accessing the asset.

There are two methods of identifying the asset: either by Asset Name or by Asset Locator. Depending on the preferred method, only one of the sections of information must be completed in order to generate the URL.

To Download by Asset Name, specify the Library Name that contains the asset and the name of the asset. The File Name field is optional. If you would prefer to change the name of the file when it is downloaded, enter the preferred name in the File Name field. If this field is left blank the file name will inherit the asset name by default.

To Download by Asset Locator ID, specify the Asset Locator identifier associated with the asset. Then enter the File Name, which is the name given to the file when the asset is downloaded.

Click the Update button at the bottom of the screen and the tool will generate and display the Content Studio View/Download Asset URL, as shown below, that you will embed in your application.

Generated URL(s)

Asset Name Download URL: [Try It](#)

`https://contentstudio.wamnet.com/cs/asset/get/mylibrary/Source/myasset?KEY=v7jQE1aIGJZDxBxNECimJGNZWCMAk7W4p%`

This is the download URL based on the Asset Name information.

The "Try It" link will test the URL by opening a new browser window and launch the URL. How the asset is displayed is dependent upon the asset type and your browser's settings.

6. Content Submission Portal URL

The Content Submission Portal Service features an URL that will allow a user to submit content from your custom web application to the service of your choice; Internet Gateway, Content Studio, WAM!NET® Direct!™, etc.

The Content Submission Portal service supports both anonymous and authenticated submission of content. The anonymous submission option allows users to submit content without requiring a User Name and Password, whereas the authenticated submission option requires the use of a User Name and Password (Service Login). This section will assist with configuring and integrating both types of submission options.

NOTE: The Build URL tool is not used to generate Content Submission Portal URLs.

A. Setting Up a Content Submission Portal

To set up a Content Submission Portal from your custom web application to a WAM!NET Service, a Submission Option Resource must be configured by SAVVIS. You must specify whether you would like to use an anonymous or authenticated submission option when you place your order. SAVVIS will provide you with a Resource ID once the Submission Option Resource is established. This Resource ID is needed as part of the URL used in the HTML code for your custom application.

Once the Submission Option Resource has been created, the following actions must be performed:

- Assign one or more trading partners to the Submission Option Resource, which are the WAM!NET Services that will receive the submitted content.
- If the Submission Option Resource is authenticated, the authorized Service Logins must be associated with the Resource.

NOTE: Regardless of whether you use the anonymous or authenticated submission option, the URL requires the use of an HTML form posted over a secure link (https), as described in the following sections.

B. Anonymous Submission Option

An anonymous submission option is used when no user credentials are necessary.

NOTE: There is a security implication to providing this type of access. Anyone with access to the URL will be able to submit content to the receiving site(s).

Following is an example of an HTML form that shows how to use the URL on your web page:

```
<form action="https://contentsubmissionportal.wamnet.com/" method="POST">
  <input type=hidden name=soid value=12345>
  <input type=submit value="Submit Content">
</form>
```

In the example above, there are three items that you will need to configure:

1. If you are using a customized user interface replace the host name, "contentsubmissionportal.wamnet.com" in the example above, with the hostname of your customization.
2. The soid value, "12345" in the example above, is the Resource ID of your Submission Option Resource assigned to you by SAVVIS.
3. The submit value, "Submit Content" in the example above, is the text appearing on the button that users will click to submit content. You may choose to use any text appropriate for your application.

Depending on the browser environment, when the user clicks on the submission button a security window may appear with the following text: "This page contains both secure and non-secure items." This occurs

because the HTML returned contains a reference to an animated .gif used by the Content Submission Portal Service to indicate file transfer activity. It is recommended that you instruct users to allow the displaying of both secure and non-secure items.

When a user submits content, he/she will be presented with a page that identifies tracking information for the content that was submitted. On this page the user will be given the choice to either Log Out or Close. In either case the user will be returned to the referring page. Should any errors occur in the submission process, the user will also be returned to the referring page.

The Content Submission Portal Service will append a series of URL parameters that will allow you to extract a text message indicating exit status (i.e. successful logout, timeout, or service is temporarily unavailable). If you wish to display this message, embed the following javascript in the referring page:

```
<script language="JavaScript1.1"
src="http://contentsubmissionportal.wamnet.com/URLAPI.js"
type="text/javascript"></script>
```

Place this line where the user will see the output. Only one javascript include is necessary no matter how many submission options you incorporate on the page.

C. Authenticated Submission Option

An authenticated submission option is used when you wish to restrict access to the Submission Option Resource. All of the principles are the same as the anonymous submission option explained above with the addition of the User Name and Password elements as shown in the HTML code below:

```
<form action="https://contentsubmissionportal.wamnet.com/" method="POST">
  <table border=0>
    <tr><td>Username</td><td><input type=text name="username"></td><tr>
    <tr><td>Password</td><td><input type=password
name="password"></td><tr>
  </table>
  <input type=hidden name=soid value=23456>
  <input type=submit value="Submit Content">
</form>
```

When you include the User Name and Password elements in your HTML form, prompts for User Name and Password will appear in your web application. The only valid input values are Service Logins that are associated with the Submission Option Resource.

If the user enters an incorrect User Name or Password (Service Login), the system will return the user to the referring page. As indicated in the anonymous submission option section above, URL parameters will be added and the javascript example may be used to display the failed login message.

D. Using the PIN Registration URL

If you are using the authenticated submission option and would like users to create their own User Name and Password (Service Login) to associate with the Submission Option Resource, or have those users associate their already-existing Service Logins to the Submission Option Resource, you may embed the following URL into your web application:

<https://serviceportal.wamnet.com/signup/cs/pin.php>

This URL should be opened in a new browser window, as the registration process will close the window when complete.

When users click the link, they will see the following registration page:

Account Setup

Fields in **bold** and marked with a "*" are required

Please enter pin: [▶ Show Tips](#)

*Pin:

*Confirm Pin:

I am a current customer and already have a user name and password:

User Name:

Password:

I am a new customer and need to create a new account:

User Name:

If you want users to create their own Service Logins to associate with the Submission Option Resource, or have those users associate their already-existing Service Logins to the Submission Option Resource, you must provide those users with a PIN.

If PIN functionality is required for your Content Submission Portal, this must be requested at the time of your order. If requested, SAVVIS will associate a PIN with your Submission Option Resource. If for some reason you do not recall your PIN, you can access it on the Welcome page in Info Center when the corresponding Submission Option Resource is selected as the Current Site.

Users with Existing Service Logins

Users with existing Service Logins should complete the first section, indicating their User Name and Password (Service Login), and click the Submit button. The following confirmation page will then appear:

Access Information:

A confirmation email will be sent to 'test@sawvis.net'.

Users with No Service Login

Users who do not have a Service Login should complete the second section by entering their desired User Name, and click the Submit button. The following information page will appear:

Service Login Information	
Fields in bold and marked with a "*" are required All User Information must be in English.	
Please Enter User Information:	
*User Name:	<input type="text" value="csp_test_login"/>
*Password:	<input type="password"/> <input type="button" value="Generate Random"/>
*Confirm Password:	<input type="password"/>
*Preferred Language:	English <input type="button" value="v"/>
*First Name:	<input type="text"/>
*Last Name:	<input type="text"/>
Company	<input type="text"/>
*Work Telephone Number:	<input type="text"/>
*Email Address:	<input type="text"/>
Account Setup	
*Pin:	<input type="text" value="123"/>
<input type="button" value="Reset"/> <input type="button" value="Submit"/>	

The user should complete the form and click the Submit button. The new Service Login that is created will be under the Customer who owns the Submission Option Resource associated with the PIN. The email address must be a valid address, as confirmation of the Service Login creation will be sent to this address.

If the requested User Name is already being used, the user will be notified that the "User Name already exists." The user should choose an alternative User Name. Once all of the information is completed, click the Submit button.

When the Service Login is successfully created, the following confirmation page will appear:

Access Information:
Successfully created username 'csp_test_login'.
A confirmation email will be sent to 'test@sawis.net'.
<input type="button" value="Close"/>

Clicking on the Close button will close the window.

Revision History:

Doc Version	Date	Changed By	Notes
1	6/26/06	Jane Meredith Kevin Mahony Jeanna Karlen	Original