

UCanUse© User Redirect Module

User Manual

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Version 1.2

Thank you for purchasing the UCanUse© User Redirect module. This User Manual has been written to help you learn how to set up and operate this powerful utility. Please read it carefully so you can understand how to use it most effectively.

The UCanUse© User Redirect module is a powerful utility to help site administrators take control of automated user navigation. It is an invisible module that can be set to operate immediately when the page is hit, on page postback, or only when it receives an IMC message. Even when it is set to page postback, its normal operation can be superceded by sending it an IMC message.

You can set up as many User Redirect modules as you want on your web site or portal. They are invisible to the user and very lightweight.

The UCanUse© User Redirect module works on its own or with the other UCanUse© and third party modules. Please see the [Introduction](#) section below for more details.

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Installation

This section will help you install the User Redirect module and its related components.

FIRST BACKUP YOUR DATABASE!

Back up your entire DNN installation before any module upgrades. If there is a power failure or some other problem you can quickly revert to your previous installation.

There are a number of zip files included in your package, detailed below. Note that the version number of each file is included in the name of the zip package. Because the version numbers change with each maintenance release or upgrade, we will not include those version numbers below. Your package will have the newest versions at the time of your purchase. We notify customers of all patches and upgrades as soon as they are available, so you don't have to worry about checking with us to see what the latest upgrade version was.

Here are the contents of the installation zip package:

Installation Zip

ReadMeFirst.txt

License.txt

UCanUse.UserRedirect.UserManual_1.0.zip – Do not install, just unzip and read this pdf file.

Dnn4.UCanUse.UserRedirect_01.00.00-15.zip (or current version)

UCanUse.Core_1.9.zip (or current version)

UCanUse.UserRedirect.Terms_01.00.00.zip (or current version)

UCanUse.UserRedirect.Terms.UserManual_1.0.zip – Do not install, just unzip and read this pdf file.

The UCanUse[®] Core drives all of the UCanUse[®] modules. It contains code common to all our modules.

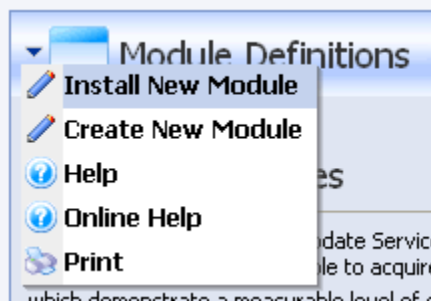
The UCanUse[®] User Redirect Terms of Agreement module is included with the UCanUse[®] User Redirect module. It demonstrates how a third party module can interact with the User Redirect module. See the separate The UCanUse[®] User Redirect Terms of Agreement User Manual for details.

To install the UCanUse[®] User Redirect module and its included components follow these steps:

- Log into your DotNetNuke portal as Host.
- Select the Host menu Module Definitions menu item.

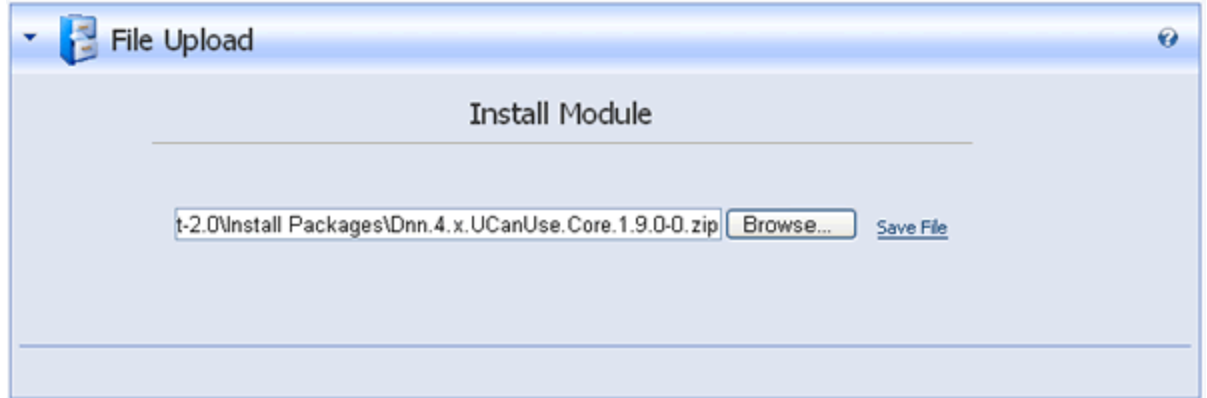


- Select Install New Module from the Actions Menu (under pencil edit icon).



The Install Module page will appear.

- Use the Browse button to launch the folder and file dialog and find the UCanUse[®] Core install zip.



- Press the Install New Module link button (Save File button in earlier versions of DotNetNuke). DotNetNuke will report what it is doing as it installs the files, and that the installation was successful.
- Use the Browse button to launch the folder and file dialog and find the User Redirect install zip.
- Press the Save File button. DotNetNuke will report what it is doing as it installs the files, and that the installation was successful.
- Optionally, repeat the process to install the UCanUse© User Redirect Terms module.

Adding Your Components to a Page

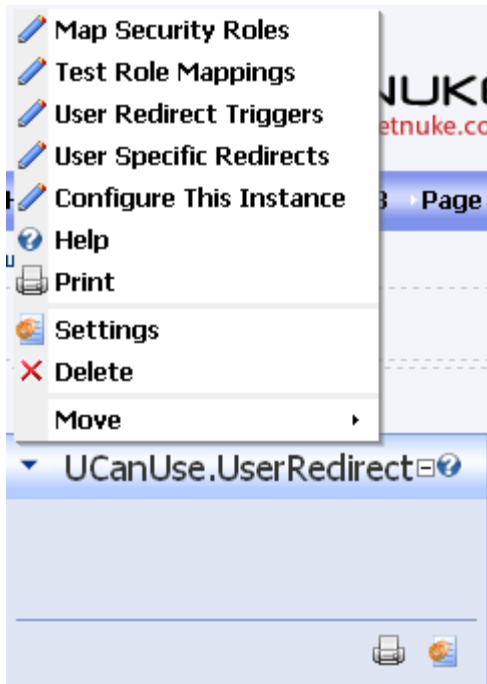
Follow these instructions to add a new User Redirect module to a page.

- Log in as Administrator, or alternatively, Host (Superuser).
- The UCanUse© Core is not added to any page. It is our Core Code Library that is needed to run the User Attributes components. If you do add it to a page, the “About” form will be displayed which also displays the exact version of the Core that is installed.
- Add a new tab to your DotNetNuke portal, or select an existing one where you want the UCanUse© User Redirect module to appear.
- Select the UCanUse. User Redirect module from the Module drop-down list, select the pane you want to add it to, enter the module title you want to appear above the form (or enter a space if you do not want a title) and press the Add button. The module will appear in the pane you specified. The User Redirect form appears as viewed below:



There isn't much to see here because there is no user interface. If you leave the interface visible to all users as it operates, it will report the values being passed to and from it (the details of the data passed to and from the module appear later in this User Manual).

Use the module Action Menu to set up the various aspects of the User Redirect Module.



Use This Menu Item	To Do This:
Map Security Roles	Map a security role or multiple security roles to specific redirect URLs
Test Role Mappings	To test the role mappings you've set up
User Redirect Triggers	To enter specific users and redirect URLs for each, or for an entire group of Users at one time
Export	Exports the User Redirect module settings to an xml file in the Host root folder
Import	Imports the User Redirect module settings from an xml file in the Host root folder if an export was first performed.
Settings	To set up the module and module options

Each of the above menu items is detailed below. But first read what you can do with the User Redirect Module next.

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Introduction

What It Does

The Redirect Module redirects users based on a number of different criteria. It can be set up in different ways on different pages to perform differently.

The Redirect Module can:

The User Redirect module can redirect users in a number of different ways including:

- Redirect to any page or URL you name.
- Redirect by query String URL. You can send a query string to a Redirect Module and have it redirect to that URL immediately upon page load
- Redirect by Security Role(s). You can set up a table of security roles and specify a redirect URL for each, or you can group several security roles together and use that as a basis for redirecting you're the users in those roles. You can even 'weigh' the different groups you set up to enact various scenarios.
- User Specific Redirects – By setting up 'triggers' in a special table, you can interrupt the normal activity of any User Redirect module to redirect a specific user to a specific URL. This is useful for when you want subscribers to renew their subscription, or when you need to have any specific user do a specific thing such as update their user profile. User Specific redirects interrupt the normal operation of the User Redirect module only for users you have entered valid triggers for. Third party module developers can populate the triggers table from their modules.
- User Preference Redirects – Used in conjunction with the UCanUse© Favorites module, you can let users specify their own 'home' page on your site or portal and set the User Redirect module to redirect them their, for example, when they log in.
- With most of these settings you can also specify an optional first page, which we call an "Admin URL" which you can use to send users to before they continue on to the normal redirect URL. You can also specify whether the Admin URL is the 'final' URL, preventing further redirects. This is useful if the user must meet a condition on the destination page before further redirects can occur.

You can also forward data from one IMC or session state enabled module to another through the Redirect Module, whether or not you perform a redirect. This makes it easy to perform workflow scenarios.

The Redirect Module can be set up to work immediately upon reaching a page, on page post back, or it can wait until it receives an IMC message. You can configure a Redirect Module to act in a certain way, but then override those settings by sending it data via IMC or by storing it in session state. This makes it a dynamic, condition-based redirect facility.

Session state will work with web farms equally well when the servers are configured to use it.

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How It Works

The Redirect Module is placed on a page with or without other controls and can be configured to redirect the user to another page or URL. You can place one lightweight User Redirect Module on as many pages as you want to set up the redirect scenarios you need.

The module can be configured directly to act in a certain way, or it can be controlled from other modules on the same or a different page. Communication and data transfer occurs via session state, IMC (Inter-Module-Communication) or both.

NOTE: The Redirect Module does not redirect people in the Administrators role or the Superusers. If this were the case, you could find yourself unable to edit a page you placed the Redirect Module on, for example if you put an immediate redirect based on a security role or based on user.

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Modes of Operation

The Redirect Module can act in two modes at the same time: Remote Mode and Configured Mode. Remote Mode is based on information received from a module on the same or a different page than the Redirect Module (through IMC or session state). The Configured Mode is based upon how the Admin configures the module in the current page. The Configured Mode can be overridden through IMC or session state data passed in, or it can be set to ignore external messages.

Configured Mode

The User Redirect module is configured directly using its own module settings. Information received via IMC or session state is ignored if the Ignore Messages setting is ticked (see Remote Mode below).

The Module Settings screen appears below.

UCanUse User Redirect Module

Admin Options

Redirect Timing Mode: Immediate

Redirect Delay Seconds: 0

Redirect Mode: Not Used

Admin Redirect Mode: No Admin Redirect

Link Type:

URL (A Link To An External Resource)

Page (A Page On Your Site)

File (A File On Your Site)

Cancellation URL:

Location: (Enter The Address Of The Link)

http://

[Select An Existing URL](#)

Link Type:

URL (A Link To An External Resource)

Page (A Page On Your Site)

File (A File On Your Site)

Admin URL:

Location: (Enter The Address Of The Link)

http://

[Select An Existing URL](#)

The screenshot shows a configuration form with the following elements:

- Link Type:** Three radio buttons: "URL (A Link To An External Resource)" (selected), "Page (A Page On Your Site)", and "File (A File On Your Site)".
- Named URL:** A label followed by a "Location: (Enter The Address Of The Link)" text box containing "http://". Below the text box is a link that says "Select An Existing URL".
- Action List:** A label followed by an empty text box.
- Ignore Stop Command:** A checkbox.
- Ignore Messages:** A checkbox.
- Check Terms Agreement:** A checkbox.
- Perform User-Specific Redirects:** A checkbox.
- Data Delivery Process:** A dropdown menu currently showing "Store in Session State and Send Me".
- Buttons:** "Update", "Cancel", and "Delete" at the bottom.

The following settings are available:

Redirect Timing Mode: Immediate, On Page Postback, or Wait For Message

This setting determines when the user redirection occurs.

Redirect Delay Seconds: whole number

Enter a value here to delay the redirect for a certain number of seconds. This is only available for browsers that support the http Refresh method. The Redirect Delay Seconds setting is taken into account in all cases except for when the module's Redirect Timing Mode is set to Wait For Message.

Admin Redirect Mode

No Admin Redirect

Only the normal redirect mode is used; see Redirect Mode below.

Admin First

The user is redirected to the URL entered in the Admin URL setting. After reaching that page, the user is redirected to the normal redirect.

Admin Only

When this mode is set, all Redirect Mode settings are ignored. The user is redirected to the URL entered into the Admin URL setting.

To use the Admin First or Admin Only settings, a valid URL must be entered into the Admin URL setting.

Redirect Mode

Not Used

No preconfigured redirect mode is set.

Named URL

The user will be redirected to the URL in the Named URL field.

Security Role Mapped URL

Using the included Security Roles Mapping control, the Admin can configure specific redirects for the security role(s) a user might be assigned to, weigh each potential redirect, and set conditions for the redirect. In this mode, the User is redirected according to any security role(s) he or she might be assigned to. If a user is not listed in the User Redirect list, the URL in the Named URL property will be used instead.

User Preference

The user can be redirected according to their preferred login page. The User Redirect module may be used in conjunction with the UCanUse© User Favorites module to provide this functionality, and the following profile text field must be entered into the DNN Profile Properties: User_Preference_URL. The user is redirected using the value in this field. If a URL does not exist for a user, the URL in the Named URL property is used instead.

Act on Query String URL

The Redirect Module will act on a properly formed URL sent to it via the query string.

A valid URL may be entered into each of the following settings:

Admin URL: Used only if Admin Redirect Mode is set to Admin First or Admin Only. The normal URL is stored for use after the Admin URL is reached.

Cancellation URL: The URL to send the user to if a cancellation action is taken (this is explained in further detail later in the User Manual).

Named URL: This URL is used in several different situations. It is used if the Redirect Mode is set to Named URL. It is also used if the Redirect Mode is set to Security Role Mapped URL, User Preference or User Specific redirects and a URL is not found for the current user in any of those scenarios.

The following settings are also available:

Ignore Stops: True or False (tick or untick the checkbox).

When an Admin Final redirect occurs, the Login Module includes a Stop Redirect command in the data it sends. This command effectively stops any further redirection after the destination (Admin) page is reached. If the user manually

navigated to a different page where a User Redirect module occurs, any intended redirect from the new page would be defeated due to the existence of the Stop command in the persisted “UCU_Redirect_Hash” table the Redirect Module sends. To circumvent this, set this Ignore Stops setting to true in each module that you do not want any Stop Redirect command from occurring. When this is set to true the Stop Command is ignored and is thus set to False when the Redirect Module reconstructs its own UCU_Redirect_Hash. Cancellation Override does not stop further redirects. To stop further redirects on Cancellation Override, either configure the Redirect Module on the cancellation page, if any, to not redirect the user or don't place one there at all.

Ignore Messages: True or False (tick or untick the checkbox)

This determines whether the configured settings can be overridden by incoming information sent via the UCU_Redirect_Hash. If this setting is not ticked, and the Redirect Module will be able to receive or read a UCU_Redirect_Hash and its internal configuration settings will be changed as necessary by the sending module.

Check Terms Agreement: If you are using the UCanUse® User Redirect Terms of Agreement module and you want to protect pages from unauthorized users (requiring them to accept your Terms before viewing the page), tick this checkbox. This is only needed when you place the User Redirect Module on a page you want protected from unauthorized user access. If you are using the Terms of Agreement module and you just want to protect the page from registered users, you do not need to tick this box. See the UCanUse® User Redirect Terms of Agreement Module User Manual included with your purchase for complete instructions on how to set up these scenarios.

Perform User-Specific Redirects: True or False (tick or untick the checkbox)

If this checkbox is ticked, the information in the User Specific Redirects page will be used to redirect the user. This setting overrides both the Admin Redirect Mode and the Redirect Mode settings. Consult the User Specific Redirects section for more information. If a user is not listed in the User Redirects table, the Named URL is used instead.

Data Delivery Process: This setting determines how the User Redirect Module will transfer data it receives. It does not determine how the User Redirect module receives information; it always checks session state and it is always ready to receive IMC messages unless Ignore Messages is set to false. The User Redirect module can deliver data in one of three ways: Store in Session State, Send IMC Message, and Store In Session State and Send IMC Message. You can also set this setting to None if you do not want the User Redirect module to pass on the data it receives and/or processes.

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How the User Redirect Module Works in Configured Mode

In Configured Mode, the Redirect is handled as follows:

- 1) The Admin Redirect Mode is investigated.

If Admin Redirect Mode is set to Not Used, the Admin Redirect method is skipped altogether (even if there is a valid URL entered in the Admin URL setting) and action moves to the Redirect Mode.

- 2) If Admin Redirect Mode is set to Admin First, the Admin URL is checked. If it has a valid value, the User is redirected to the Admin URL. The redirect that is to take place after the Admin redirect is postponed. The user places another Redirect Module on the destination page, and that second redirect module receives the URL of the postponed redirect. When and whether it acts upon the second redirect is determined by either the information sent to the second Redirect Module or by the second Redirect Module itself.
- 3) If Admin Redirect Mode is set to Admin Only, the Admin URL is checked and will be used, and any the normal URL will not be included in the UCU_Redirect_Hash sent at the time of the redirect. In this case the Redirect Mode will be set to Not Used. This effectively terminates the redirect chain at the destination page. Note that there should not be another User Redirect Module on the page indicated by the Admin URL. If there is, it will control the subsequent redirect. If not, the subsequent redirect will not occur.

If there is no Admin Redirect Mode, the User Redirect module checks the Redirect Mode property to determine how to act.

- 4) If Redirect Mode is set to Not Used, the User Redirect Module will not act.
- 5) If Redirect Mode is set to Security Role Mapped URL, the Security Roles the current User is assigned to are checked in the Security Roles Mapping table and the User is redirected accordingly. If none of the User's roles are found in the Security Roles Mapping table, the Named URL property of the current User Attributes Module is checked. If a valid URL exists, the User is redirected using that value; if one does not exist, no redirect occurs. The Named URL acts as a catch-all for the Security Role Mapped URL, the User Preference URL and the User Specific Redirect URL when a URL cannot be found for the current user under those scenarios.
- 6) If Redirect Mode is set to User Preference URL, the User Preferences table is checked for that user, and if a value exists, that URL is used to redirect the User. If a value does not exist, the Named URL property of the current User Redirect Module is checked. If a valid value does exist, the User is redirected using that value; if one does not exist, no redirect occurs. The Named URL acts as a catch-all for the Security Role Mapped URL, the User Preference URL and the User Specific Redirect URL when a URL cannot be found for the current user under those scenarios.
- 7) At redirect, processing of the UCU_Redirect_Hash occurs.

If an Admin Redirect is being triggered, the Admin URL in the UCU_Redirect_Hash is set to nothing and the Admin Redirect Mode is set to No Admin Redirect. This prevents any redirect module on the destination page from also using the Admin URL set on the origination page.

The new UCU_Redirect_Hash is sent to the next User Redirect Module in the chain via IMC, Session State, or both. It is stored in session state.

Remote Mode

The Redirect Module can operate in Remote Mode when it receives information either by session state or via IMC. Configured Mode settings can be overridden by information received in any hash table it receives, or in the UCU_Redirect_Hash it sends to itself only when the Redirect Module's Ignore Messages setting is not ticked. If an UCU_Redirect_Hash is received by the Redirect Module, the following rules apply.

Rules

- 1) The Admin Redirect Override property in the received data determines which Admin Mode, if any, will be used.
 - If the Admin Redirect Override property is set to true, the Admin_Redirect_Mode in the received data will be used. The URL entered in the Admin URL property of the received data will be used.
 - If the Admin Redirect Override property is set to false, the Admin Redirect Mode in the Redirect Module settings will be used. The URL entered in the Admin URL property of the Redirect Module will be used.
- 2) If there is no Admin Redirect Mode, the User Redirect module checks the Named URL property to determine how to act, and processing continues as outlined in the Remote Mode section above. Values in the received data can override the Redirect Module's settings.
- 3) At redirect, processing of the User Redirect module's data is stored in a hash table named "UCU_Redirect_Hash."
- 4) If an Admin Redirect is being triggered, the Admin URL in the UCU_Redirect_Hash object is set to nothing and the Admin Redirect Mode is set to No Admin Redirect.
- 5) The new UCU_Redirect_Hash object is sent to the next Redirect Module in the chain.
- 6) The Redirect Timing Mode (Immediate, On Page Postback, or Wait For Message) is still honored when the module acts in Remote Mode.

The Admin can and often should manually configure the User Redirect Module Named URL setting because the Named URL acts as a catch-all for the Security Role Mapped URL, the User Preference URL and the User Specific Redirect URL.

When acting in Remote Mode, the User Redirect Module receives data from another module and acts accordingly. The User Redirect module can receive a hashtable of name/value pairs that it can then pass on to other modules configured for IMC or that use Session State. The Redirect Module does not care what the name is of any hashtables it receives, but when it sends out data, the hashtable it sends is called UCU_Redirect_Hash. Any object types can be stored in the hashtable. The Redirect Module only uses a set of predefined properties. The hashtable may contain the following information that it uses directly:

UCU_Redirect_Hash Template (properties must be named as shown below)

<u>Property</u>	<u>Possible Values/Description</u>
Is_Admin_Redirect	True or False

Admin_Redirect_Override	True or False
Return_To_Origin	True or False
Admin_Redirect_Mode	Admin Only, Admin First, or No Admin Redirect
Named_URL	The redirect URL if Redirect Mode is set to Named URL
Admin_URL	The redirect URL if an Admin Redirect Mode is used
Cancellation_URL	The redirect URL used based on some condition
Origination_URL:	The URL the user is coming from
RedirectUserID:	The ID of the User for User Specific Redirects (Integer)
Stop:	True or False

The UCU_Redirect_Hash can also contain any other data or objects desired which it will pass on to the next page or redirect module in the redirect chain; for example:

Action_List _____
 (Action key names separated by commas; Actions are discussed later in this document)

AnyNameObject1 _____

AnyNameVariable1 _____

AnyNameObject2 _____

AnyNameVariable2 _____

AnyNameHashtable _____

...etc.

Only the amount of memory available on the server limits the size of the hashtable. Keep in mind that values the UCU_Redirect_Hash is stored in session state during the page view.

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Examples of Using Remote Mode

Redirect Based on Security Roles Example

You have set up the UCanUse© Login Module and you want to direct users to a different page depending upon the roles they belong to.

Solution:

If you have set a maximum number of login attempts in the Login Module, set a Cancellation URL in the Login Module Settings in case that number is reached. Put a message, instructions, and perhaps other links on the cancellation page.

Place a User Redirect Module on the same page as the UCanUse© Login Module.

In the User Redirect Module settings, set the option to run on IMC Message Received.

Set up the Security Roles Mapping table.

Result:

When users log in they will be automatically redirected depending upon their security roles.

Third Party Control Powering User Redirect Example

You have a module you developed and want to use the power of the UCanUse© User Redirect module.

Solution:

Follow the UCanUse© User Redirect Module Implementation Manual instructions on how to implement IMC functionality or session state so your module can communicate with the User Redirect Module.

Place both your module and the User Redirect Module on the same page.

In the User Redirect Module settings, set the Redirect Timing Mode to Wait For IMC Message.

Set up the Security Roles Mapping table if you want to redirect users by security role(s).

Result:

When the user does whatever is necessary to trigger your IMC method (or when the page posts back), the UCanUse© User Redirect Module takes over and performs exactly as you told it to via IMC or session state.

The UCanUse© User Redirect Terms of Agreement Module

The supplied UCanUse© User Redirect Terms of Agreement Module is a stand-alone module that works in conjunction with the User Redirect module. Add it and a User Redirect module to the same page. In the Terms of Agreement module settings, you can select a Cancellation URL which will be used when the user presses the Cancel button. This is optional. If you do not select a Cancellation URL, and you do not tick the Return To Origination URL checkbox, the user will not be redirected when the Cancel button is pressed. Instead, a message will appear telling the user that he or she cannot proceed if they do not accept the terms.

Set up the Redirect Module to act however you want it to act if the user presses the I Accept button. If you want a named URL, set the Redirect Mode to Named URL and select a page or enter a valid URL in the Named URL field in the module settings. You can set it up however you want, but make sure you do not select Query String URL as a redirect type, and that you do not select User Defined Redirect. Either of those could redirect the user before they accept your terms. Also be sure to set the Redirect Timing Mode to Wait For IMC Message.

If the user presses the I Accept button, he or she will be redirected to the URL determined by the User Redirect module. If the user presses the Cancel button, they will be redirected to the URL you specify in the Terms of Agreement module settings.

Source code for the Terms of Agreement module is available for free on the UCanUse© web site, www.UCanUse.com so you can see how simple it is to configure a module to work with the User Redirect module.

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Cancellation Redirect Override

Using Remote Mode you can tell the User Redirect Module to redirect the user to a special cancellation page or to the page the user was previously on, while either postponing or eliminating the normal redirect route the user would have taken had the cancellation override not occurred.

To trigger a cancellation redirect you must send the User Redirect Module the following information:

- 1) Cancellation_Override = True
- 2) Cancellation_URL = (optional) a valid URL
- 3) Return_To_Origin = (optional) True or False; if True, the Origination_URL will be used; if false, the Cancellation_URL will be used
- 4) Named_URL = (optional); the normal URL destination had the Cancellation Override not been invoked.

If you send the Return_To_Origin (true) property, the user will be returned to the page they came from at the time of the redirect. If not, the Cancellation_URL is used. If neither the cancellation URL or the Return_To_Origin are set, the user will not be redirected at all.

Any Admin Redirect Mode is ignored when a Cancellation Override is in effect. The Cancellation redirect takes its place.

The Named_URL property can be passed to the destination page if you potentially want the user to be redirected to that page should they take appropriate action on the destination page. This gives you a chance to let the user correct a wrong action or complete a required action before they can proceed to the normal redirect URL.

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How to Configure Cancellations

An example will help illustrate how to set up the Redirect Module to redirect the user to the origination page or a cancellation page.

Say you have a “Terms of Agreement” page with you statement of Terms an Accept button and a Do Not Accept button, both of which cause a postback. You would set up a User Redirect Module on that page. In the module settings, you would set the Redirect how you normally want to redirect the user. You would also either enter a Cancellation URL in the module settings or tick the Return To Origination Page checkbox.

Next you would configure the IMC send message in the Terms of Agreement page. You would send one message if the Accept button was pressed, and you would send a different message if the Do Not Accept button was pressed. You would also set the User Redirect Module to act on Page Postback.

When the user clicks either of the buttons, the appropriate message is sent to the Redirect Module. If it is a cancellation message, the cancellation URL, if entered, is used. If Return to Origination Page was selected, the user is redirected to the original page should then decide not to accept the terms of agreement.

Included with the Redirect Module is a Terms of Agreement Module you can put on any page you want. Code is included to show you, or someone you know who can do a little programming, how to send information to the Redirect Module to have it act as you want.

The User Login module works with the Redirect Module. If users attempt to log in unsuccessfully more than the number of times you specify, you can set the Login Module up to redirect them to a cancellation page it sends to the Redirect Module.

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How to Define a Redirect Condition

The Redirect Module can receive information via IMC or session state in the UCU_Redirect_Hash object. It then sends that information out via IMC. Third party IMC enabled modules can be written to receive the information from the Redirect Module and to return information to it. In this way, any condition can be checked and the redirect processed accordingly. Any rules can be devised and internal and external sources can be utilized with this open architecture. The redirect condition will be checked by the independent IMC enabled module, which will then send an UCU_Redirect_Hash to the Redirect Module, upon which it will act.

See the User Redirect Module Developer's Implementation Manual for more information.

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Map Security Role Redirects

The Map Security Roles menu option contains a form to design Security Roles Mappings scenarios. The user interface for this module is only available to the Admin and those roles the Admin delegates this right to.

The Map Security Roles screen looks like this:

Map Security Roles

Security Roles:

Select a Letter:

ABCDEFGHIJKLMNOPQRSTUVWXYZ All

Select	Ref	Role	Description	Is Public	Auto Assign
Select	0	Administrators	Portal Administration	False	False
Select	1	Registered Users	Registered Users	False	True
Select	2	Subscribers	A public role for portal subscriptions	True	True

1 1

First Page Previous Page Next Page Last Page

Selected Roles:

Redirect To:

Link Type:

URL (A Link To An External Resource)

Page (A Page On Your Site)

File (A File On Your Site)

Location: (Enter The Address Of The Link)

http://

[Select An Existing URL](#)

Enter a Condition:

Weighting:

Clear Update Cancel

Role IDs	Redirect URL	Condition	Weight
----------	--------------	-----------	--------

[Return](#)

The Role Redirect Mappings table contains a list of the roles and redirect URLs for each of the security roles that are selected by the Admin. Each Role can have multiple URLs; the URL that is used is determined by conditional logic. For example, if a User is a member of several Security Roles, conditional logic and weightings will be used to determine the actual Redirect URL that will be used.

The Role Redirect Mappings are portal-level (rather than module level) to avoid confusion.

Role Redirect Mappings table

PortalID integer, not null

RoleID integer, not null

RoleName nvarchar 100, null

RoleRedirectURL nvarchar 255, not null

IsDefault bit, not null, false by default

Condition, nvarchar 2000, null (see How to Specify a Condition, below)

Weight, integer, not null (used as a final criteria to determine the record to use)

Example:

The following table demonstrates a completed table.

PortalID	RoleID	Role Names	Role Redirect URL	IsDefault	Condition	Weight
0	18	Publishers 1	Tab 16	True		10
0	19	Publishers 1,Publishers 2	Tab 54	False		10
0	23	Reviewers	Tab 45	True		5
0	23	Reviewers,Publishers 1	Tab 65			5
0	23	Reviewers,Publishers 2	Tab 87		<NotInRoles>	5

In this example...

There are several Publishers entries. If an individual is assigned to the Publishers 1 role, the first of these is used if none of the other conditions are met because it is marked “Is Default.” The second is used if the User is a member of both Publishers 1 and Publishers 2.

The next three entries are Reviewers entries. The first is the default entry, and applies to Users assigned to the Reviewers Security Role if no other conditions are met. The second specifies the User must be a member of Reviewers and Publishers 1 while the third specifies the User cannot be a member of the Reviewers and Publishers 1 roles (by using the <NotInRoles> keyword in the Condition field).

What happens if a User is a member of multiple roles that cross definition in the Role Redirect Mappings table? For example, suppose a User is assigned to the Publishers 1 and Reviewers roles? In this specific situation, the user would qualify to be redirected according to the Publishers 1 entry since he or she is a member of those that group. The User would also qualify to be redirected according to the Reviewers 1 condition, and the (Reviewers and Publishers 1) entries.

So which URL is the User directed to in this scenario? The weight field is used to determine this. The (Reviewers and Publishers 1) entry has a weight of 5. The Reviewers entry also has a weight of 5. The Publishers 1 entry has a weight of 10. Since the Publishers 1 entry has the highest weight, the User would be redirected according to that entry, which in this case is Tab 16.

Weights are used to determine the Role Redirect Mappings table record to use. In the case where there is a tie, the last record wins.

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How to Specify a Condition

The following list of key words can be used as condition statements.

Keyword	Comments
<DateSpan>	<p>Example: <DateSpan=08/20/2008></p> <p>You must use the keyword DateSpan, you must use the brackets <> surrounding your entire condition.</p> <p>Use two dates separated by commas "July 1, 2005,July 15, 2005" for a date span, or use a single date: "July 10, 2005".</p> <p>Using one date, the current date must equal the date entered in the condition.</p>
<DateBefore>	<p>Example: <DateBefore=08/20/2008></p> <p>You must use the keyword DateBefore, you must use the brackets <> surrounding your entire condition.</p> <p>If the current date is less than the date entered in the condition, the redirect will be considered.</p>
<DateAfter>	<p>Example: <DateAfter=08/20/2008></p> <p>You must use the keyword DateAfter, you must use the brackets <> surrounding your entire condition.</p> <p>If the current date is greater than the date entered in the condition, the redirect will be considered.</p>
<NotAuthorized>	<p>If the user is not yet authorized (but is registered) the redirect will be considered.</p>
<NumberVisitor>	<p>Replace NumberVisitor with a whole number representing the number of hits on the current page. To use this you must also place the UCanUse© Visitor Counter on the page.</p>
<NotInRole>	<p>User is not in the specified Role(s).</p>
<NotAuthorized>	<p>The user is not an authorized user but is a visitor.</p>

<NotAuthorized> is not yet used.

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Test Role Mappings

To test role mappings, use the Test Role Mappings action menu item.



Simply select a user from the list and the applied redirect URL will be shown in the Redirect To Field.

User Specific Redirects

User Redirect offers the ability to redirect specific users based on 'triggers' that you define. Triggers can be manually added in the Redirect Module's User Redirect Triggers form, available from the Redirect Module's action menu. Triggers can also be updated by external modules by using SQL stored procedures.

A User-Specific Redirect will pre-empt all other Redirect Module settings. It will act as an Admin First or Admin Only redirect, depending on whether you set the Final Destination property to true or false when you define the trigger. If Final Destination is false, the normal redirect will happen when the user reaches the destination page. If a user is not assigned a redirect implicitly, the normal redirect will occur, whatever that may happen to be.

You must first set up the User Redirect Triggers. There are three types of triggers you can set up. One type is 'Always,' meaning it is not restricted by dates. The second type is based on a 'Duration Cycle.' With a duration cycle, the redirect period is calculated from the date it is triggered for the individual user until the date and time calculated using the duration cycle (days or hours) and duration length (a whole number) you specify when you define the trigger. For example, you could set up a trigger to redirect users for a period of 12 days from the date the trigger is triggered for a specific user. The third type of trigger, 'Until Date and Time,' is based on an expiration date you specify when you define the trigger. With this type of trigger you can define a trigger to be active until a certain date, no matter when the trigger occurs.

Here is an image of the User Redirect Triggers screen

UCanUse User Redirect Module

User Redirect Triggers

▣ Add/Edit Redirect Trigger

Add and edit User Redirect Triggers

Select a Trigger:

Application Name:

Portal ID:

Global All Portals:

Action Trigger Name:

Reason/Condition:

Duration Cycle: No Cycle

Duration:

Redirect URL:

Link Type:

URL (A Link To An External Resource)

Page (A Page On Your Site)

File (A File On Your Site)

Location: (Enter The Address Of The Link)

[Select An Existing URL](#)

Final Destination:

User Action:

[Add](#) [Update](#) [Cancel](#) [Delete](#)

▣ Triggers Grid

View and Edit Existing Triggers

After you define your triggers, you can manually assign users to the triggers in the User Specific Redirect form available from the Redirect Module action menu. You can select one or multiple users, a specific trigger you want to assign them to, and automatically assign them with a button press. If you need to, you can change the Effective Date To for the non-Always trigger types for a specific user.

You can also assign users to triggers from other modules by using SQL stored procedures predefined for you, or you can write your own. This makes it easy to set up automatic triggering functions in your own software.

Triggers definitions can be marked active or inactive and so can each user-specific trigger record. A user-specific trigger is active until either the Effective To date has expired (in all cases

except the Always On trigger type) or when you mark the user-specific trigger as inactive. When a user met a certain condition, for example, you could manually or automatically change the trigger assigned to them to be inactive.

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How to Set Up User Redirect Triggers

- 1) Open the User Redirect Triggers form from the Redirect Module actions menu.
- 2) Trigger Name: Enter a Name to identify this Redirect Trigger.
- 3) Description: Enter a Description for this redirect trigger's use. This field is for your own use only; it is not used programmatically.
- 4) Trigger Type: Select the type of trigger; choices include Always, Duration Cycle, and Until Date and Time)

If the Trigger Cycle Type is Duration Cycle the next two fields become enabled:

- 5) Duration: Enter a whole number representing the number of periods which you will next select in the Duration Cycle field (days or hours)
- 6) Duration Cycle: Select Days or Hours

If the Trigger Cycle Type is Until Date and Time, the Effective To field becomes enabled.

- 7) Effective To: Enter the end date and time for the trigger (or select it from the pop-up calendar)
- 8) Redirect URL: Select a Redirect URL. It can be any URL, a page from the existing portal, or a file you want the user to open.
- 9) Final Destination: If you want to make the redirect the final destination for the user (breaking the redirect chain at the destination URL), tick the Final Destination checkbox.
- 10) Conditions: Enter the Conditions for deactivating the trigger if you selected the Until Conditions Met Trigger Type. A user must satisfy these conditions to deactivate this specific trigger. This field is for your own use; it is not used programmatically by the User Redirect module. When the user meets the conditions, you would normally remove the user from the trigger.
- 11) Active: Activate the trigger by ticking this checkbox. Normally you would inactivate the trigger because you set the trigger up in advance of its intended use period, or because it has expired for any reason. You can manually inactivate a trigger at any time. You can use the provided SQL stored procedures, or write your own, to inactivate triggers.
- 12) Press the Save link button to save your record.

As you add triggers the grid below the form will fill so you can view and edit them. The grid will automatically page if you have large numbers of User Triggers set up.

To learn how to set up triggers from a third party module, see the User Redirect Module Developer's Implementation Manual.

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How to Set Up User Specific Redirects

- 1) Open the User Redirect Triggers form from the Redirect Module actions menu.
- 2) Use the alphabet picker to filter the list of users. You may select “All” but this is not recommended for sites with thousands of users due to the amount of network traffic, the length of time it takes to retrieve that many records and the difficulty imposed when selecting a small number of users from such a large list. The datagrid will page, but it is easier to keep the list smaller by selecting a letter from the alphabet picker.
- 3) Tick the checkbox(es) next to the user(s) you want this trigger to apply to.
- 4) Tick the Active checkbox if you want the User Redirects to be active right away.
- 5) Select the Trigger you want to use. All the triggers defined in the User Redirect Triggers form will be listed.
- 6) Modify the Effective To date if you want. The trigger will only act until that date. Keep in mind that if you are assigning this trigger to a number of users, the Effective To date will be used for all of those you assign.
- 7) Enter any notes you want to keep about this User Redirect action.

Below the entry fields is a datagrid of already-entered User Redirect actions. Click on the Edit button to edit a trigger. You can only edit one user at a time. An update and cancel button will appear at the start of the row. Update the row when you are finished or cancel your changes. Click on the Delete link to delete the selected row.

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Configure a Redirect Module to Use User-Specific Redirects

The final step to using User Specific Redirects is to set up one or more Redirect Modules to use them. Add a Redirect Module to a form, go to the module settings, and toward the bottom of the form select Enable User Specific Redirects. To redirect users you have not assigned a specific trigger to, select the Named URL Redirect Mode, and enter or select a URL in the Named URL field, or select one of the other Redirect Modes such as Security Role Related URL. Users that are assigned to triggers will be redirected according to the trigger URL, other users will be redirected in the normal fashion.

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Tips and Traps

Care should be taken when configuring redirect settings. If there are requirements on the destination page for the user to be registered or be a member of a security group to access the page, then the user may be restricted from viewing it.

The Redirect Module can be set up on every page. Be sure you think about the information being sent from one Redirect Module to another. Use a simple spreadsheet to avoid confusion. If you find a redirect not happening on a page that should be redirecting the user, make sure you have not sent it a Stop Redirect command from another module.

Be sure to use the Stop Redirect setting where necessary to avoid looping redirects.

Although the User Redirect module does a lot of things, if you are careful in how you set it up you can achieve just about whatever you want and avoid confusion in the process.

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Export and Import (IPortable)

The UCanUse© User Redirect module implements the DotNetNuke IPortable namespace meaning it can export and import its own module settings. Simply select Export from the module Action Menu to export the module's settings to an xml file located in the Host Portal Root folder. Select Import to import the xml file located in the same place.

Export and Import are useful for when you have a User Redirect module configured a certain way and you want to save the settings and/or add additional User Redirect modules to the same portal on different pages. Export the settings from the module you want to replicate and import the settings into other modules as necessary.

APPENDIX

System Variables

UCU_Redirect_Hash

This is a hashtable of name/value pairs that the User Redirect module will use in Remote Mode to determine how it acts. Any hashtable with any name can be sent to the User Redirect module, but the one sent from the User Redirect module is named UCU_Redirect_Hash.

Name/Value Pairs Hashtable (any name can be used)

A hashtable of name/value pairs that the User Redirect module will pass on to other modules configured for IMC or that the User Redirect module will store in Session State for use in other modules not configured to receive IMC messages. The hashtable is added to the UCU_Redirect_Hash as a key/item pair.

Action_URL_ToUse

This string variable is used internally to temporarily store the actual URL that will be used to redirect the user.

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How Other Modules Use the Redirect Module

The module must determine the URL to redirect the user to or the actions it wants an external module to take. However this is done programmatically, the module must pass the information in a hashtable of name/value pairs to the User Redirect Module via IMC or session state. This optional hashtable must be included in the UCU_Redirect_Hash. Only the module at the end of the chain, which acts on the hashtable name/value pairs, needs to know the details of the hashtable contents. However, it must know it's receiving a UCU_Redirect_Hash object. This data will not be used directly by the Redirect Module.

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Integration with the UCanUse© Login Module Example

Suppose the UCanUse© Login Module is on the same page as the Redirect Module. The Admin configures the UCanUse© Login Module to register a new user. The Admin also selects the New Password Required Admin Option to enforce a decision by upper management for users who are the Login Module verified against an external data source. The Admin then sets the Redirect Module's Redirect Mode to Security Role Mapped URL. In addition, the Admin enters an Admin URL so she can have the user accept the terms of an agreement before the new user is registered and before the registered user changes their password.

Example:

Login Module

Admin Option

Register_New_User

Use_Registration_Tab = Welcome!

Admin_URL = Terms of Agreement

Cancellation_URL = Login Failed

Redirect Mode

Security_Role_Mapped_URL

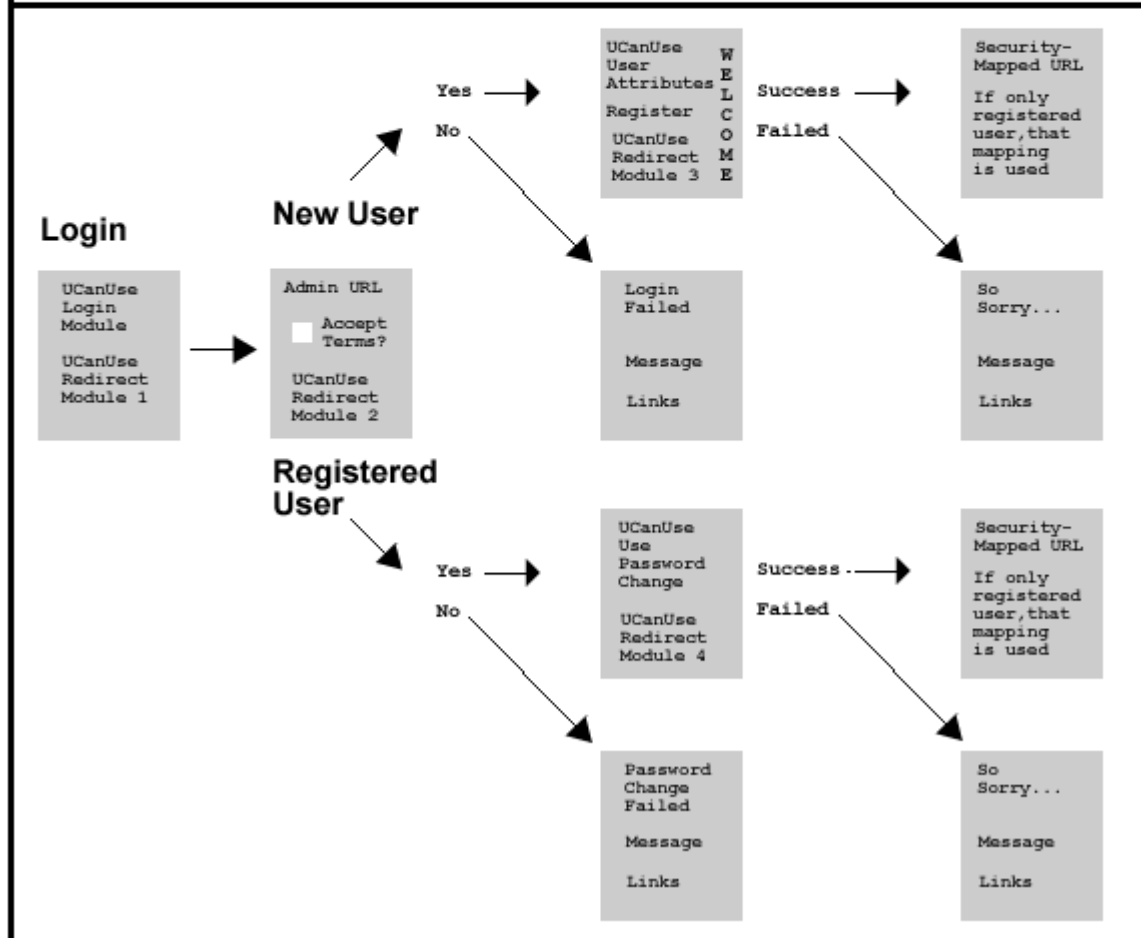
Admin Redirect Mode

Admin_URL_First

System Set Redirect Mode

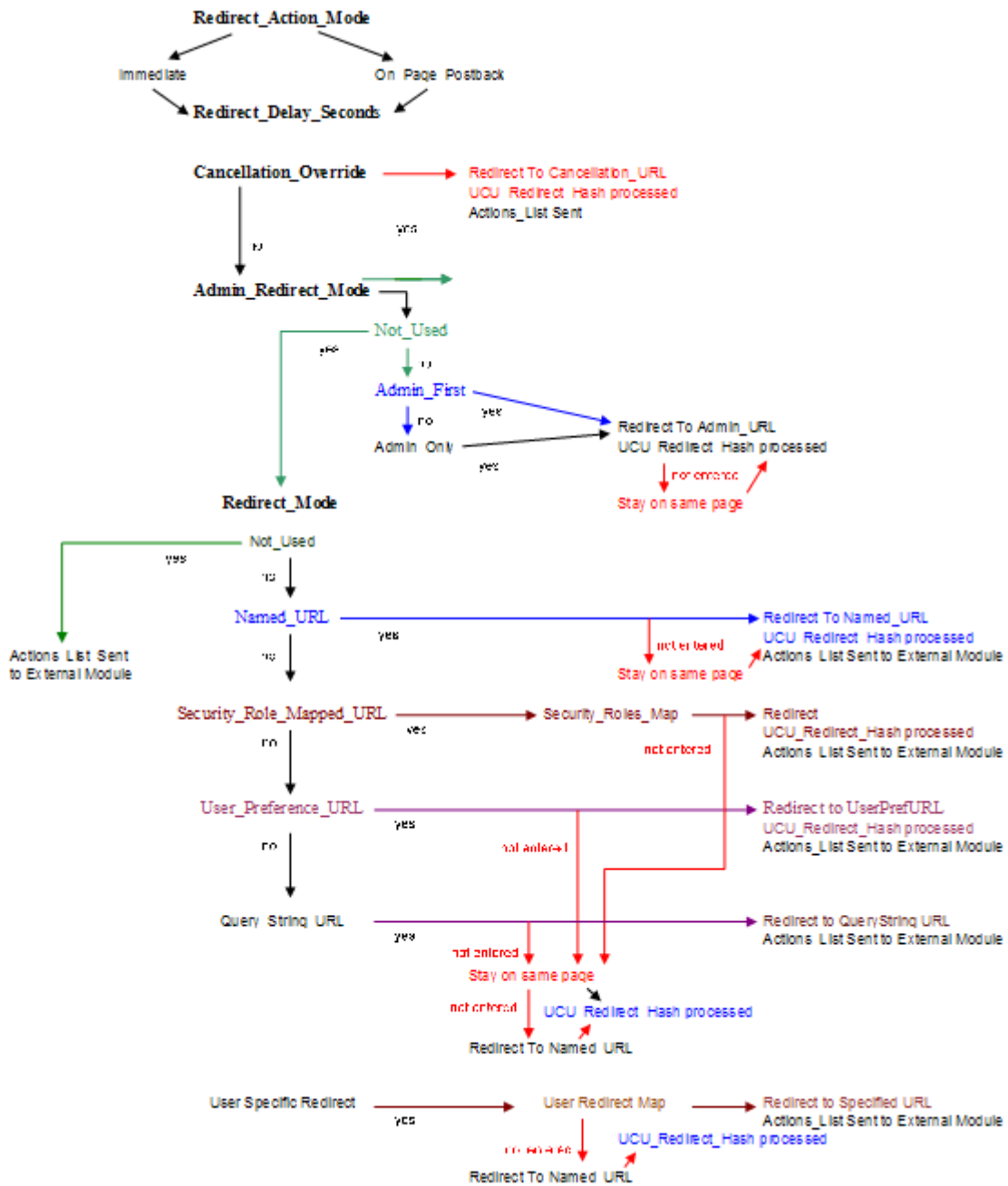
New User: UA_Registration_Module_Change_Password

Registered User: UP_Password_Module



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Redirect Module Process Flow



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Triggering Additional Actions with the Actions List

Additional actions can be triggered by using external IMC or session state enabled modules. In Configured Mode, the Action List setting can be used to send key words that will trigger specific actions in external IMC enabled modules. In Remote Mode, the Redirect Module will pass on any information it receives in the Action List property to the independent IMC or session state

enabled module which will carry out the action(s). A list or hashtable of name/value pairs can be passed in the UCU_Redirect_Hash if these external actions need specific data in order to function.

See the User Redirect Module Developer's Implementation Manual for more information.

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Technical Support

For technical support, check the UCanUse[®] technical support page on our web site at www.UCanUse.com. If there is an issue you need resolved, complete a support ticket and we will be back quickly, usually within 24 hours.

Be sure to contact us for a quote if you want custom functionality, information about our other modules, or for anything at all in DotNetNuke.

For comments or other questions, please email us: Consult@UCanUse.com We will not respond to support requests at this address; use the Support Desk on www.UCanUse.com instead.

We also have a user forum at www.UCanUse.com so you can ask questions, share ideas and get more insight into the use of the User Redirect Module, our flagship User Attributes module, and other UCanUse[®] products. Feel free to visit and participate in the forum and help us build our community of happy UCanUse[®] Users!

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Thank You!

Thank you for purchasing the UCanUse[®] User Redirect module. We hope it serves you and your customers well. If you are happy with our product, please visit the Snowcovered store (www.Snowcovered.com) and put a comment on our product page. If you are unhappy for any reason, please contact us first because we want to help you and can often sort out difficulties in a matter of minutes. Our technical support is unbeatable and we will prove that to you. We want you "up and running!"

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We Value Your Ideas

We encourage you to submit your ideas for improvements, enhancements and new modules. Please visit www.UCanUse.com often and email Support@UCanUse.com and share what you are thinking. We are client-focused and are committed to develop cutting-edge software UCanUse[®].

Richard Allen Golko

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