

**IFrame64
V1.0
For
DotNetNuke 4.9.2+**

**By
Paul Scarlett**

TressleWorks.ca

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Release History

Version 1.0 - July 2009 Initial Release

Introduction

After a security review of an internal site, a concern was raised that passing parameters to other pages in cleartext, where the parameter name was rather revealing, was weak from a security point of view. The pages where this concern was raised all used DotNetNuke's IFrame module, and in fact the parameters were passed in cleartext. For example, several of the target Frames required that the user's username be passed. The IFrame module would create a URL like www.othersite.com?username=myusername. This meant that a user could potentially revise the URL with a different username and spoof the real username. I was required to "blur" the parameters being passed so that someone looking for specific parameters would not be able to determine what was being passed.

I developed IFrame64 as a super-set of the DotNetNuke IFrame module that will allow users to easily blur the parameters being passed to other pages / documents / sites. IFrame64 can create a URL like www.othersite.com?x=VXNlcm5hbWU9aG9zdA==. Where the VXNlcm5hbWU9aG9zdA== is a Base64 encoded string containing `username=myusername`.

Requirements

Iframe64 has only one requirement – DotNetNuke's IFrame must be installed. IFrame64 uses the same IFrame_Parameter database table that IFrame installs.

IMPORTANT: IFrame must be installed prior to installing IFrame64!

Usage

All the options and features of the DotNetNuke IFrame module exist within the IFrame64 Module. The sample below shows the standard options and a URL of www.tressleworks.ca. The resulting page display shows a small part of the web site.

▼ Edit IFrame

☐ Options

🔍 Source:

Link Type:

URL (A Link To An External Resource)

File (A File On Your Site)

Location: (Enter The Address Of The Link)

Select An Existing URL

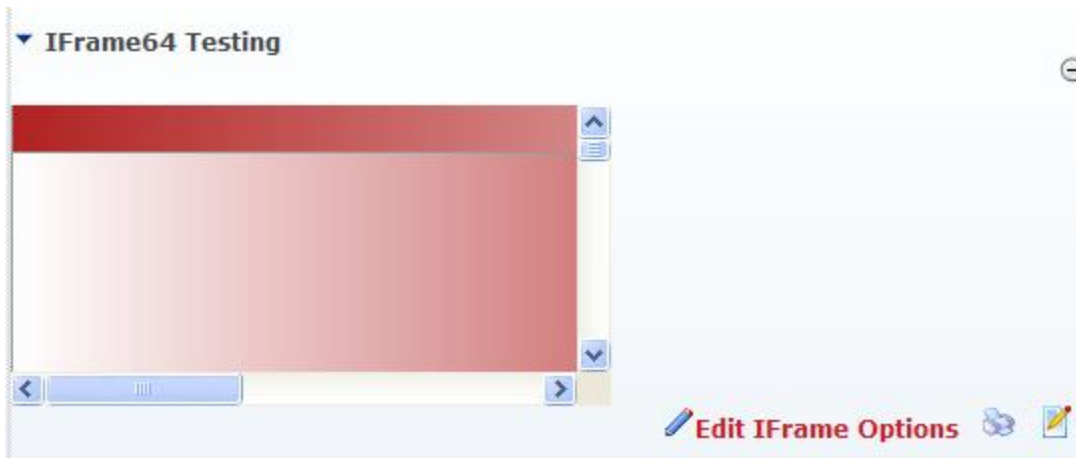
🔍 Width:

🔍 Height:

🔍 Auto height

🔍 Scrolling: Auto ▼

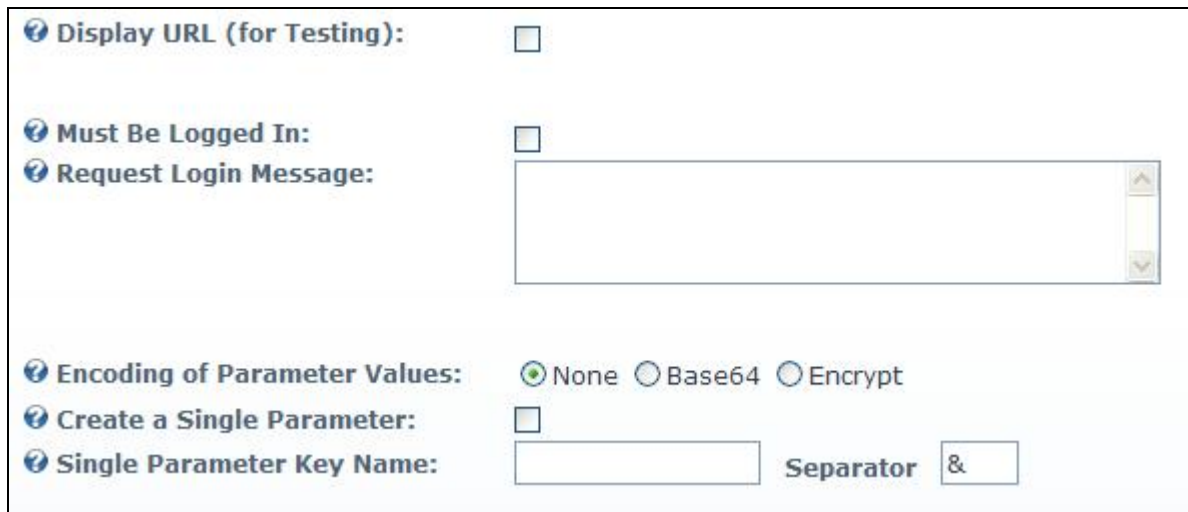
🔍 Border: No ▼



New Options

IFrame64 adds 4 new options to the standard IFrame. They are

- Display URL
- Must be Logged In
- Parameter Encoding
- Single Parameter



The screenshot shows a configuration panel for IFrame64 with the following options:

- Display URL (for Testing):**
- Must Be Logged In:**
- Request Login Message:** A text area for entering a message.
- Encoding of Parameter Values:** Radio buttons for None, Base64, and Encrypt.
- Create a Single Parameter:**
- Single Parameter Key Name:** A text input field followed by the label "Separator" and a text input field containing the character "&".

The [Display URL](#) option allows the user to see the URL passed to the other page. The option is helpful in testing and debugging. This option is not recommended for production and should be disabled prior to moving to production.

The [Must be Logged In](#) option allows the user to define a message to be display when an anonymous user gains access to the page where this module located and the option is enabled.

[Encoding of parameter](#) is set to none by default, however this can be changed to Base64 encoding or to Encryption. The Encryption is based on the site keys associated with each individual Dotnetnuke site.

[Create a Single Parameter](#) when enabled will create a single parameter for all the key-values pairs defined. All the key-value pairs will be combined into a single string and Base64 Encoded.

Note: The receiving page / site / document must be able to interrupt the encode/encrypted data. You may need to revise the target page / site / document accordingly.

Display URL

As the option indicates, this option when enabled displays the URL above the frame.

Other Options

Display URL (for Testing):

Must Be Logged In:

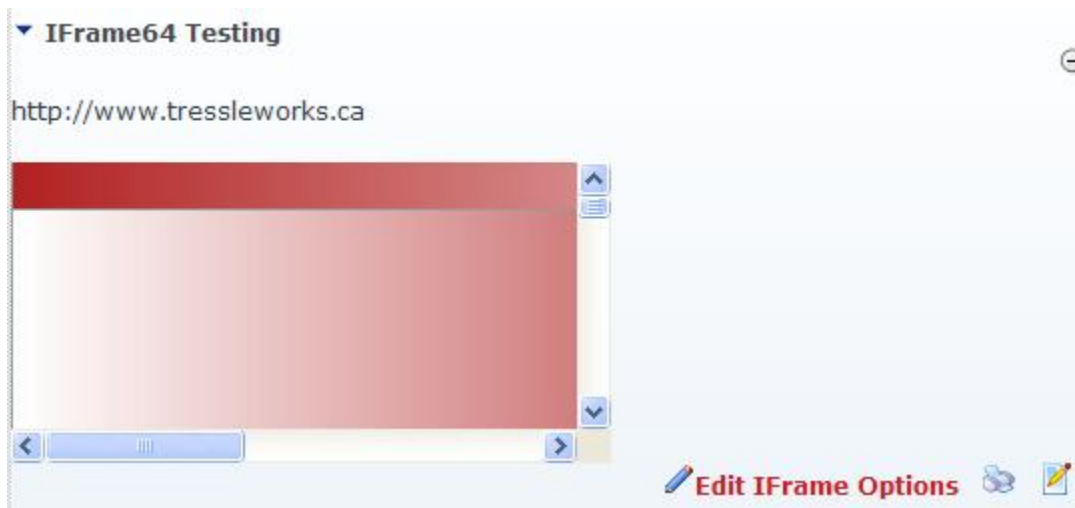
Request Login Message:

Encoding of Parameter Values: None Base64 Encrypt

Create a Single Parameter:

Single Parameter Key Name: **Separator**

The URL is <http://www.tressleworks.ca>. The frame size has not been set and the default size has been taken.



Display Url with parameters

▼ Edit IFrame

☐ Options

🔗 Source:

Link Type:

URL (A Link To An External Resource)

File (A File On Your Site)

Location: (Enter The Address Of The Link)

Select An Existing URL

🔗 Width:

🔗 Height:

🔗 Auto height

🔗 Scrolling: Auto ▼

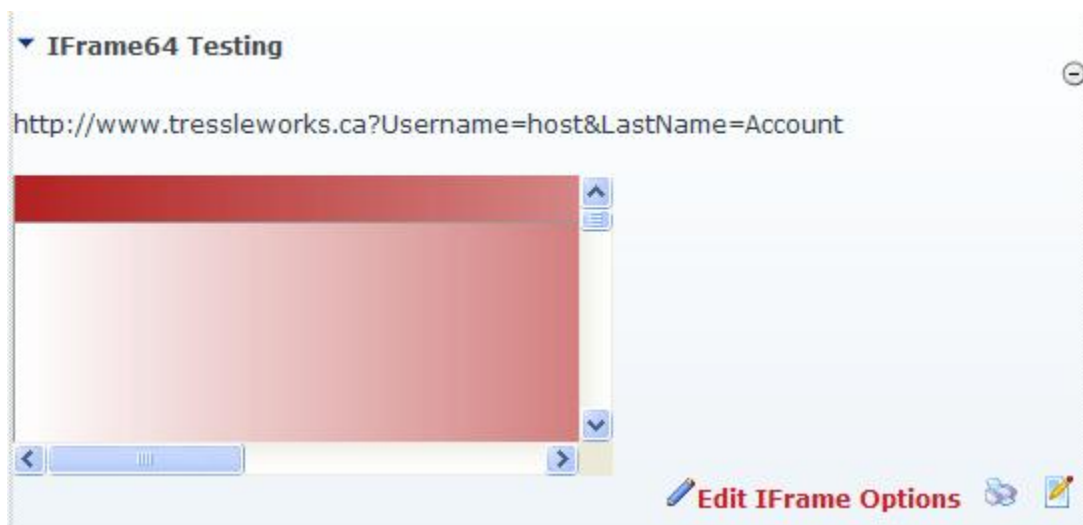
🔗 Border: No ▼

☒ Other Options

☐ QueryString Parameters

Name	Value
Username	User's Username
LastName	User's Last Name

Add QueryString Parameter



Must Be Logged In

This option ensures the user has a valid userid. If the userid is not defined, then the associated message is displayed.

Other Options

Display URL (for Testing):

Must Be Logged In:

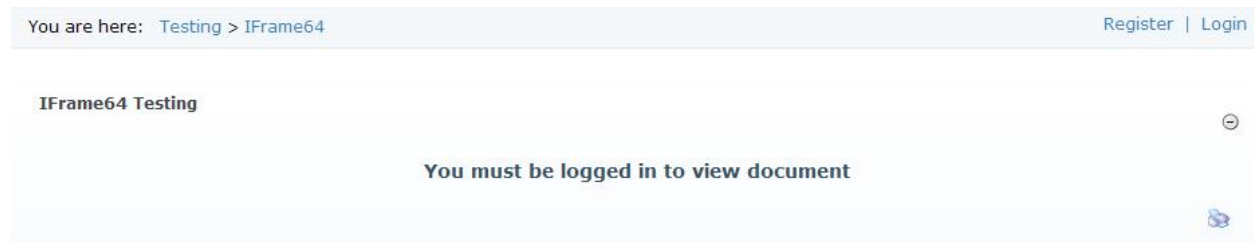
Request Login Message:

Encoding of Parameter Values: None Base64 Encrypt

Create a Single Parameter:

Single Parameter Key Name: **Separator**

As you can see, no one is logged in, so the message is displayed instead of the Frame.



Parameter Encoding

The individual parameters can be “blurred” in two ways – Base64 encoding or Site based Encryption.

Base64 Encoding

Other Options

Display URL (for Testing):

Must Be Logged In:

Request Login Message:

Encoding of Parameter Values: None Base64 Encrypt

Create a Single Parameter:

Single Parameter Key Name: Separator



Encryption

Other Options

Display URL (for Testing):

Must Be Logged In:

Request Login Message:


Encoding of Parameter Values: None Base64 Encrypt

Create a Single Parameter:

Single Parameter Key Name: Separator

IFrame64 Testing

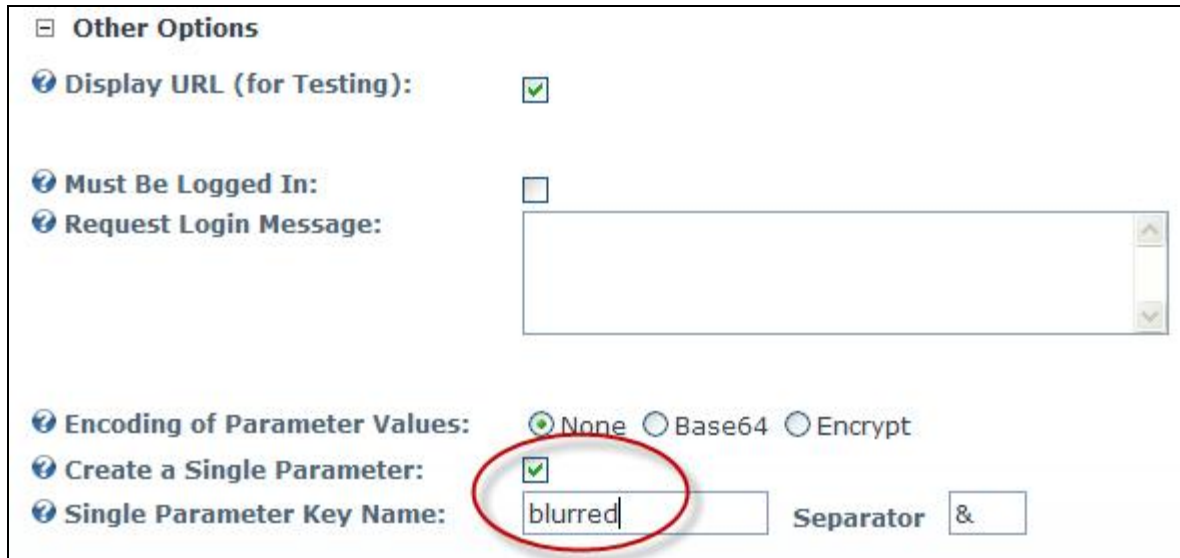
http://www.tressleworks.ca?Username=rtK3jMH2OcE%3d&LastName=X3Ii28CuVf8%3d



[Edit IFrame Options](#)

Single Parameter

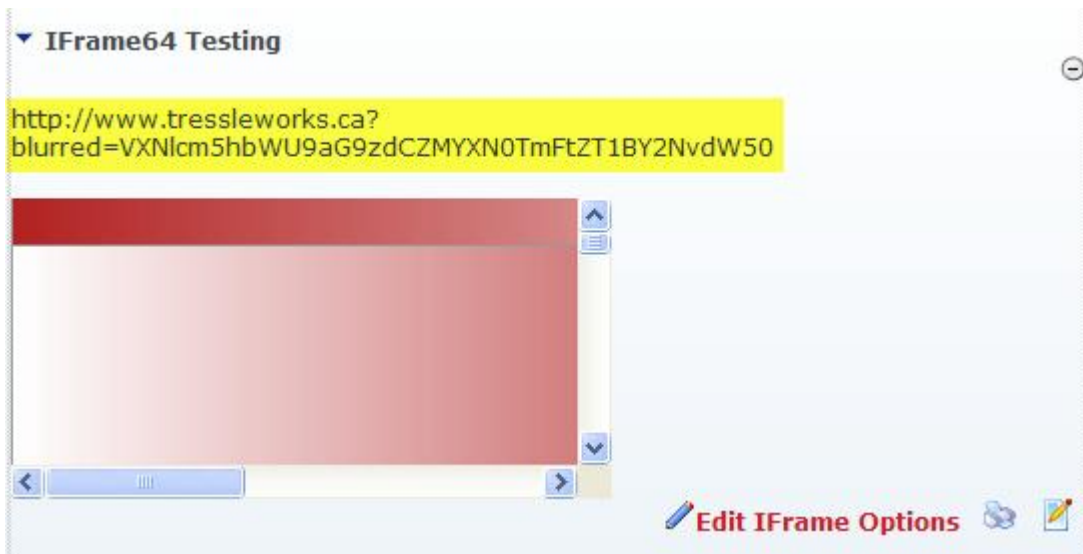
When enabled, the IFrame64 module will create a single Base64 encoded parameter from all the parameters being passed.



The screenshot shows the 'Other Options' section of the IFrame64 configuration. It includes the following settings:

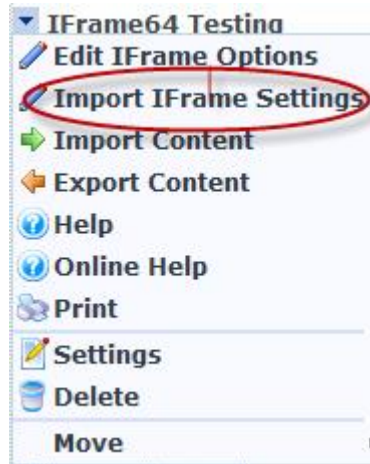
- Display URL (for Testing):**
- Must Be Logged In:**
- Request Login Message:**
- Encoding of Parameter Values:** None Base64 Encrypt
- Create a Single Parameter:** (This checkbox is circled in red in the original image)
- Single Parameter Key Name:** **Separator:**

In the examples being used, the Username=Host&Lastname=Account string is Base64 encoded



New Module Menu Option

A new action has been added to the Module Menu for IFrame64. The action allows the users to import a DotNetNuke IFrame export setting into IFrame64. Since IFrame64 is based on IFrame, no conversion is required, and all new features will be defaulted. Based on the settings, IFrame64 will operate just as IFrame does.



Once the Import IFrame Settings action has been selected the user will be prompted to select the location of the IFrame Settings file. This the same functionality found for importing any setting.

▼ Import IFrame Settings

Select Modules Settings from either IFrame64 or IFrame modules

Folder: <None Specified> ▼

File: ▼

Import Cancel

References

IFrame64 is a super-set of DotNetNuke's IFrame module, thus the most of the code is based on the work done by the Core Team.

I have converted the module to a WAP project as I prefer that style of development.

Licensing

IFrame64 is available from www.tressleworks.ca under the same licensing that DotNetNuke implements. (BSD Licence model) You are free to use the module in any site you choose, however please give credit where credit is due.

Support

Support is limited as this is a mixture of existing code. Send questions, concerns and comments to IFRAME64@tressleworks.ca