

## Introduction to Form2Content Plug-in Events

Since version 2.12.0 Form2Content Pro for Joomla 1.5 supports plug-in events. These events are designed to manipulate the data before it is being saved, or to process the data in any other way than the default Form2Content handling. Form2Content was primarily designed to create Joomla articles through form submissions. Now that Form2Content has been extended with the plug-in support a whole new world has opened that can bring the use of Form2Content to a whole new level.

Here are some examples of things you might do with the events:

- Alter the submitted data: Filter words from the submitted text and add these to the metadata keywords.
- Alter submitted images: Add watermarks to your images.
- Store the submitted images in an alternate location.
- Update 3<sup>rd</sup> party tables with the Form2Content data.
- Et cetera.....

Since you now can decide to use Form2Content for example to feed 3<sup>rd</sup> party tables only, there's no longer the necessity to generate a Joomla Article for every F2C Article. You can now specify for each Content Type whether submitting a F2C Article should create a Joomla Article or not.

If you set this option to “no”, Form2Content will no longer create Joomla Articles for this Content Type. The data as submitted by the user is still stored in the Form2Content tables and the F2C Articles will still be present in the F2C Article Manager. This means that you can open an existing F2C Article, modify it and save it again. It's up to the plug-in code what will happen when saving the F2C Article.

The data structure that is passed with all the events is of the type F2cEventArgs as defined in components/com\_form2content/class.form2content.php.

There are six events defined:

1. onBeforeF2cContentSave
2. onAfterF2cContentSave
3. onBeforeF2cContentDelete
4. onAfterF2cContentDelete
5. onBeforeF2cContentParse
6. onAfterF2cContentParse

### OnBeforeF2cContentSave

Fires when:	before an F2C Article will be saved
<b>Property values of instance of class F2cEventArgs</b>	
action	<b>save:</b> for a save or apply action <b>copy:</b> for a copy action
isNew	<b>True</b> when the user has submitted a new F2C Article or is copying an existing one. <b>False:</b> when the user is updating an existing F2C Article
formOld	Contains the values from the original F2C Article form when

	<p>the user is updating an existing F2C Article or copying a F2C Article.</p> <p>When the user has submitted a new F2C Article, the value is null.</p>
fieldsOld	<p>Contains the values of the custom fields from the original F2C Article when the user is updating an existing F2C Article or copying a F2C Article.</p> <p>When the user has submitted a new F2C Article, the value is null.</p>
formNew	<p>Contains the values of the custom fields from the F2C Article that the user has submitted.</p>
fieldsNew	<p>Contains the values from the F2C Article that the user has submitted.</p>
parsedIntroContent	null
parsedMainContent	null

### **OnAfterF2cContentSave**

Fires when:	after an F2C Article has been saved
<b>Property values of instance of class F2cEventArgs</b>	
action	<p><b>save:</b> for a save or apply action</p> <p><b>copy:</b> for a copy action</p>
isNew	<p><b>True</b> when the user has submitted a new F2C Article or is copying an existing one.</p> <p><b>False:</b> when the user is updating an existing F2C Article</p>
formOld	<p>Contains the values from the original F2C Article form when the user is updating an existing F2C Article or copying a F2C Article.</p> <p>When the user has submitted a new F2C Article, the value is null.</p>
fieldsOld	<p>Contains the values of the custom fields from the original F2C Article when the user is updating an existing F2C Article or copying a F2C Article.</p> <p>When the user has submitted a new F2C Article, the value is null.</p>
formNew	<p>Contains the values of the custom fields from the F2C Article that the user has submitted.</p>
fieldsNew	<p>Contains the values from the F2C Article that the user has submitted.</p>
parsedIntroContent	The parsed intro template
parsedMainContent	The parsed main template

### ***OnBeforeF2cContentDelete***

Fires when:	Before an F2C Article will be deleted
<b>Property values of instance of class F2cEventArgs</b>	
action	<b>delete</b>
isNew	<b>False</b>
formOld	Contains the values from the F2C Article form that will be deleted.
fieldsOld	Contains the values of the custom fields from the F2C Article that will be deleted.
formNew	<b>null</b>
fieldsNew	<b>null</b>
parsedIntroContent	<b>null</b>
parsedMainContent	<b>null</b>

### ***OnAfterF2cContentDelete***

Fires when:	Before an F2C Article will be deleted
<b>Property values of instance of class F2cEventArgs</b>	
action	<b>delete</b>
isNew	<b>False</b>
formOld	Contains the values from the F2C Article form that was deleted.
fieldsOld	Contains the values of the custom fields from the F2C Article that was deleted.
formNew	<b>null</b>
fieldsNew	<b>null</b>
parsedIntroContent	<b>null</b>
parsedMainContent	<b>null</b>

### ***OnBeforeF2cContentParse***

Fires when:	before an F2C Article will be saved
<b>Property values of instance of class F2cEventArgs</b>	
action	<b>save:</b> for a save or apply action <b>copy:</b> for a copy action
isNew	<b>True</b> when the user has submitted a new F2C Article or is copying an existing one. <b>False:</b> when the user is updating an existing F2C Article
formOld	Contains the values from the original F2C Article form when the user is updating an existing F2C Article or copying a F2C

	Article. When the user has submitted a new F2C Article, the value is null.
fieldsOld	Contains the values of the custom fields from the original F2C Article when the user is updating an existing F2C Article or copying a F2C Article. When the user has submitted a new F2C Article, the value is null.
formNew	Contains the values of the custom fields from the F2C Article that the user has submitted.
fieldsNew	Contains the values from the F2C Article that the user has submitted.
parsedIntroContent	<b>null</b>
parsedMainContent	<b>null</b>

### ***OnAfterF2cContentSave***

Fires when:	Before the intro and main template will be parsed
<b>Property values of instance of class F2cEventArgs</b>	
action	<b>parse</b>
isNew	<b>True</b> when the user has submitted a new F2C Article or is copying an existing one. <b>False:</b> when the user is updating an existing F2C Article
formOld	Contains the values of the custom fields from the F2C Article that the user has submitted.
fieldsOld	Contains the values from the F2C Article that the user has submitted.
formNew	Contains the values of the custom fields from the F2C Article that the user has submitted.
fieldsNew	Contains the values from the F2C Article that the user has submitted.
parsedIntroContent	<b>null</b>
parsedMainContent	<b>null</b>

### ***OnAfterF2cContentParse***

Fires when:	After the intro and main template have been parsed
<b>Property values of instance of class F2cEventArgs</b>	
action	<b>parse</b>
isNew	<b>True</b> when the user has submitted a new F2C Article or is copying an existing one. <b>False:</b> when the user is updating an existing F2C Article

formOld	Contains the values of the custom fields from the F2C Article that the user has submitted.
fieldsOld	Contains the values from the F2C Article that the user has submitted.
formNew	Contains the values of the custom fields from the F2C Article that the user has submitted.
fieldsNew	Contains the values from the F2C Article that the user has submitted.
parsedIntroContent	The parsed intro template
parsedMainContent	The parsed main template

## Structure of class F2cEventArgs

Property name	Type
action	string
isNew	boolean
formOld	Object with the following properties: <ul style="list-style-type: none"> <li>• id</li> <li>• projectid</li> <li>• title</li> <li>• title_alias</li> <li>• created_by</li> <li>• created_by_alias</li> <li>• created</li> <li>• modified</li> <li>• metakey</li> <li>• metadesc</li> <li>• sectionid</li> <li>• catid</li> <li>• intro_template</li> <li>• main_template</li> <li>• reference_id</li> <li>• ordering</li> <li>• publish_up</li> <li>• publish_down</li> <li>• state</li> <li>• frontpage</li> <li>• access</li> <li>• attribs</li> <li>• metadata</li> <li>• secTitle</li> <li>• secAlias</li> <li>• catTitle</li> <li>• catAlias</li> </ul>

fieldsOld	Array with F2cFieldData objects. The array is indexed by the custom fieldname.
formNew	<p>StdClass Object with the following properties:</p> <ul style="list-style-type: none"> <li>• id</li> <li>• projectid</li> <li>• title</li> <li>• title_alias</li> <li>• created_by</li> <li>• created_by_alias</li> <li>• created</li> <li>• modified</li> <li>• metakey</li> <li>• metadesc</li> <li>• sectionid</li> <li>• catid</li> <li>• intro_template</li> <li>• main_template</li> <li>• reference_id</li> <li>• ordering</li> <li>• publish_up</li> <li>• publish_down</li> <li>• state</li> <li>• frontpage</li> <li>• access</li> <li>• attribs</li> <li>• metadata</li> <li>• secTitle</li> <li>• secAlias</li> <li>• catTitle</li> <li>• catAlias</li> </ul>
fieldsNew	Array with F2cFieldData objects. The array is indexed by the custom fieldname.
parsedIntroContent	string
parsedMainContent	string

## Structure of class F2cFieldData

Property name	Type	Remarks
id	integer	Id of the custom field
fieldname	string	Name of the custom field
title	string	Title of the custom field
fieldtypeid	integer	Indicates type of the field (as defined in shared.form2content.php)
settings	object	The class this object is an instance of depends on the type of field. It can be an instance of any of the following classes:

		<ul style="list-style-type: none"> <li>• F2C_CheckBoxSettings</li> <li>• F2C_DatabaseLookupSettings</li> <li>• F2C_DatePickerSettings</li> <li>• F2C_DisplayListSettings</li> <li>• F2C_EmailSettings</li> <li>• F2C_FileSettings</li> <li>• F2C_GeoCoderSettings</li> <li>• F2C_LinkSettings</li> <li>• F2C_IFrameSettings</li> <li>• F2C_ImageSettings</li> <li>• F2C_InfoTextSettings</li> <li>• F2C_MultiSelectSettings</li> <li>• F2C_MultiLineEditorSettings</li> <li>• F2C_MultiLineTextSettings</li> <li>• F2C_SingleLineTextSettings</li> <li>• F2C_SingleSelectSettings</li> </ul>
description	string	Description (tooltip) of custom field
projectid	integer	The id of the Content Type this field belongs to
ordering	integer	Order of the field
frontvisible	boolean	Indicates whether the field is visible in the front-end or hidden
values	array	Array of key-value pairs. Which keys are present is dependant of the field Content Type Field Type. For a complete specification please see the paragraph “The F2cFieldData ”values” property”
internal	array	Array of internal helper data. For a complete specification please see the paragraph “The F2cFieldData ”internal” property”

## The F2cFieldData ”values” property

This property contains the values for the custom field specified as key-value pairs, where the key is the indexer for the array. For each field the property is filled differently. Please see the table below for a complete specification.

Key	Value
<b>Checkbox</b>	
VALUE	True or false
<b>Database Lookup</b>	
VALUE	The selected value from the lookup
<b>Database Lookup Multiselect</b>	
VALUE	Array of selected values
<b>Date Picker</b>	
VALUE	The selected date in ISO 8601 format

<b>Displaylist</b>	
VALUE	Array of items for the list
<b>E-mail</b>	
EMAIL	E-mail address
DISPLAY_AS	Display As tag
<b>File upload</b>	
FILENAME	The original filename of the uploaded file
<b>Geocoder</b>	
ADDRESS	Address of the location
LAT	Latitude (format xxx.xxxxx)
LON	Longitude (format xxx.xxxxx)
<b>Hyperlink</b>	
URL	Url
DISPLAY_AS	Display as tag
TITLE	Title tag
TARGET	Link target: _blank or _parent
<b>Iframe</b>	
URL	Url that the Iframe should load
WIDTH	Width in pixels
HEIGHT	Height in pixels
<b>Image</b>	
FILENAME	Current filename
ALT	Alt tag
TITLE	Title tag
WIDTH	Width in pixels
HEIGHT	Height in pixels
WIDTH_THUMBNAIL	Thumbnail width in pixels
HEIGHT_THUMBNAIL	Thumbnail height in pixels
<b>InfoText</b>	
–	Empty array
<b>Multiselect List</b>	
VALUE	Array of selected values
<b>Multiline Text (Editor)</b>	
VALUE	Editor text with mark-up
<b>Multiline Text (Textarea)</b>	
VALUE	text
<b>Single Line Text (Textbox)</b>	



VALUE	text
<b>Single Select List</b>	
VALUE	Selected value

## The F2cFieldData "internal" property

The internal property is not part of the data for the field but contains helper information for updating and rendering of the custom field. The information is specified as key-value pairs, where the key is the indexer for the array. This information should never be changed by a plug-in!

Please see the table below for a complete specification.

Key	Value
<b>Checkbox</b>	
fieldcontentid	The id of the field in the jos_f2_fieldcontent table
<b>Database Lookup</b>	
fieldcontentid	The id of the field in the jos_f2_fieldcontent table
<b>Database Lookup Multiselect</b>	
–	Empty array
<b>Date Picker</b>	
fieldcontentid	The id of the field in the jos_f2_fieldcontent table
<b>Displaylist</b>	
fieldcontentid	The id of the field in the jos_f2_fieldcontent table
<b>E-mail</b>	
fieldcontentid	The id of the field in the jos_f2_fieldcontent table
<b>File upload</b>	
fieldcontentid	The id of the field in the jos_f2_fieldcontent table
method	Indicates what action should be performed on the file. This property can have one of the following values: <ul style="list-style-type: none"> <li>• 'upload': a new file is being uploaded</li> <li>• 'copy': an existing file will be copied</li> <li>• "": no action. This file was submitted and has not been changed.</li> </ul>
delete	True or false, indicates whether the user has chosen to delete this file.
filelocation	Path to the file
<b>Geocoder</b>	
addressid	The id of the address field in the jos_f2_fieldcontent table
latid	The id of the latitude field in the jos_f2_fieldcontent table
lonid	The id of the longitude field in the jos_f2_fieldcontent table
<b>Hyperlink</b>	

fieldcontentid	The id of the field in the jos_f2_fieldcontent table
<b>IFrame</b>	
fieldcontentid	The id of the field in the jos_f2_fieldcontent table
<b>Image</b>	
fieldcontentid	The id of the field in the jos_f2_fieldcontent table
method	Indicates what action should be performed on the image. This property can have one of the following values: <ul style="list-style-type: none"> <li>• 'upload': a new image is being uploaded</li> <li>• 'copy': an existing image will be copied</li> <li>• "": no action. This image was submitted and has not been changed.</li> </ul>
delete	True or false, indicates whether the user has chosen to delete this image.
currentfilename	Filename of the image
imagelocation	Path to the image
thumblocation	Path to the thumbnail image
<b>InfoText</b>	
–	Empty array
<b>Multiselect List</b>	
fieldcontentid	The id of the field in the jos_f2_fieldcontent table
<b>Multiline Text (Editor)</b>	
fieldcontentid	The id of the field in the jos_f2_fieldcontent table
<b>Multiline Text (Textarea)</b>	
fieldcontentid	The id of the field in the jos_f2_fieldcontent table
<b>Single Line Text (Textbox)</b>	
fieldcontentid	The id of the field in the jos_f2_fieldcontent table
<b>Single Select List</b>	
fieldcontentid	The id of the field in the jos_f2_fieldcontent table