EXT: RSS feed

Extension Key: **ecorss**

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Table of Contents

Introduction

What does it do?

This extension is designed to set up **quickly** and **easily** one or many rss feeds from any tables of the database. Copy / paste a few TypoScript lines in your template setup and that's it! You can follow the latest content of your website – keep an eye on the latest frontend user, etc.

Features

- Choose whether ATOM or RSS feed is displayed:
  - http://en.wikipedia.org/wiki/Atom_(standard)
  - http://en.wikipedia.org/wiki/RSS_(file_format)
- Extract value from flexform (requires MySQL 5.2). Some values can be stored in flexform data. This information is not very practical to extract. However with MySQL 5.2, it is now possible to build XPath requests and fetch data within the XML structures.
- Hide / show several different feeds on the same pages. RSS feeds are very practical to follow the life of a website. You can imagine a feed that inform you whether a new page is created, a backend user's profile has been updated or a content element has been updated. Such administrative feeds are not necessarily shown in the frontend but are given only for administrators.
- A lot of possible data combination and configurations...

Further documentation of RSS: http://www.rssboard.org/rss-specification

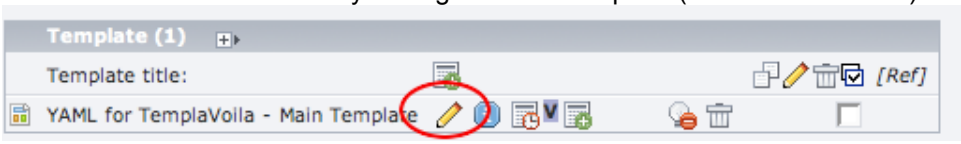
No screenshots necessary!

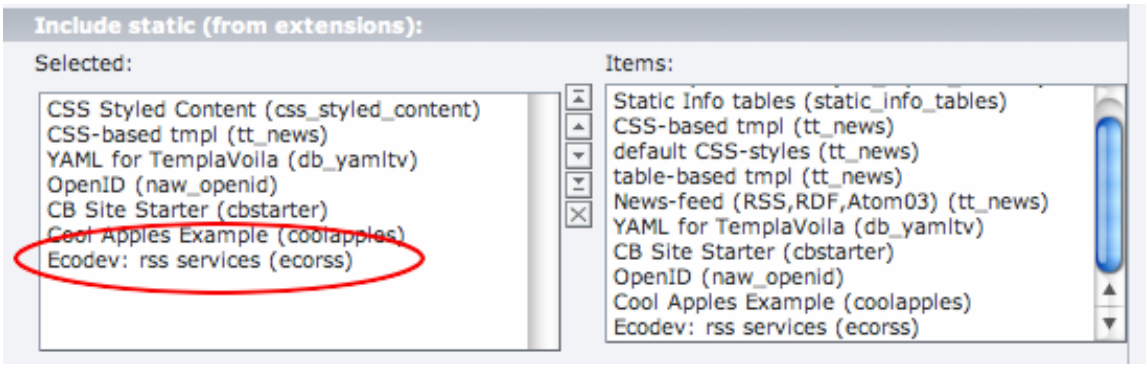
@see rather the TypoScript example in the next section.

Installation

Download and install the extension as normal. No database update necessary.

Update your "Static Include" from extension by editing the main template (module Web > List) as follows:





How to Build a Feed, TypoScript Example

Very Important: this extension won't work until you properly complete the installation section.

Express Installation

Copy / paste these lines into a template > setup. Beware of the cache period. The feed is regenerating every 3600 seconds. To change this value, check parameter "cache_period".

```
##############################
# DECLARE FEED (ATOM)
##############################
page.headerData.12 = USER
page.headerData.12.userFunc = tx_ecorss_controllers_feed->add
page.headerData.12.feed1{
    # CHANGE THIS: the root page id
    rootPid = 1
    # CHANGE THIS
    title = title of the feed
    # KEEP IT IN NORMAL USE
    typeNum = 103
}


##############################
# GENERATE THE FEED
##############################
feed1 = PAGE
feed1 {
    typeNum = 103
    10 >
    10 = USER
    10.userFunc = tx_ecorss_controllers_feed->display
    10.lang = fr-FR
    # CHANGE THIS:
    10.title = title of the feed
    # CHANGE THIS:
    10.subtitle = subtitle of the feed
    config{
        disableAllHeaderCode = 1
        disableCharsetHeader = 1
```

```
        additionalHeaders = Content-type:text/xml
        no_cache = 1
        xhtml_cleaning = 0
        admPanel = 0
    }
}
```

More Details: Declaring a RSS or ATOM Feed in the Frontend

Declaring two different feeds onto the frontend

Copy paste these lines in a template > setup.

```
page = PAGE
page.headerData.12 = USER
page.headerData.12.userFunc = tx_ecorss_controllers_feed->add
page.headerData.12.feed1{
    rootPid = 1
    title = Here comes the title of the feed 1
    typeNum = 103
    feed = atom
}
page.headerData.12.feed2{
    rootPid = 1
    title = Here comes the title of the feed 2
    typeNum = 100
    feed = rss
}
```

Plugin Global Configuration

Property:	Data type:	Description:	Default:
num	int (mandatory)	the type of the page like index.php?id=1&type=126	null
rootPid	int (mandatory)	the root page id	null
url	string	the url, useful for configuring other domains	null
title	string	the title of the feed	
feed	string	2 possibles values: atom – rss have a look at the following links to know the difference of the formats: ● http://en.wikipedia.org/wiki/Atom_(standard) ● http://en.wikipedia.org/wiki/RSS_(file_format)	atom

Important Remark

In case you have several feeds, you might want define constants to avoid repeating things.

In the constant editor:

```
plugin.tx_ecorss.title = Here comes the *title* for every feeds
plugin.tx_ecorss.subtitle = Here comes the *subtitle* for every feeds
...
```

Feed Configuration

Property:	Data type:	Description:	Default:
title	string	the title of the feed	atom
subtitle	string	the subtile of the feed	
lang	string	the character encoding: fr-FR ; de-DE ; en-US	en-GB
host	string	define an other host name t if not the same as t3lib_div::getIndpEnv('TYPO3_SITE_URL'). If protocol (http:// or https://) is not specified, then http:// will be prefixed.	t3lib_div::getIndpEnv('TYPO3_SITE_URL')
encoding	string		utf-8
numberItems	string	number of elements in the feed	10

Property:	Data type:	Description:	Default:
feed	string	2 possibles values: atom ; rss have a look at the following links to know the difference of the formats: ● http://en.wikipedia.org/wiki/Atom_(standard) ● http://en.wikipedia.org/wiki/RSS_(file_format)	atom
author.name	string	the author of the feed's (Atom feed). **Remark:** If you want to save this value automatically in the database, have a look at the extension “fhm_author”.	Page's author name
author.email	string	the email of the author (Atom feed). Beware: default Atom template does not write the email, you have to modify file templates/atom.php) **Remark:** If you want to save this value automatically in the database, have a look at the extension “fhm_author”.	Page's author email
cache_period	int	How long should the feed be hold in cache. Unit in second	3600
no_anchor	int	Define if the URL will contain an anchor like this : http://mydomaine.tld/index.php?id=123#c343	0
pidRootline	int	which page id define the first page of the Site (update on this page will be included too in the feed). It is useful with multi domain websites or to create feeds related to sections in the website	null
sysLanguageUid	int	which language (L parameter in multilingual sites) should be used to filter updated content. If left unconfigured, return all content in all languages	null
profileAjaxType	int	which page type should be used to include website content in the feed (useful to change the page type to use a stripped down layout – e.g., w/o menu – when reading the news in a newsreader such as Thunderbird)	0
hook	user defined	If you create a hook for post-processing feed entries, you may configure it as you wish using this section. See section “Available Hooks” for more information.	null

Elements of the Feed Configuration (select.)

Property:	Data type:	Description:	Default:
title	string	the field of the database that corresponds to the "title" of an element in the feed. Most of the time, it will be tt_content.header	header
titleXPath	string	the field where the flexform is stored. Most of the time, it will be content.pi_flexform	pi_flexform
summary	string	the field of the database that corresponds to the "body of an element in the feed. Most of the time, it will be tt_content.bodytext	bodytext
summaryXPath	string	the field of the database that corresponds to the "body of an element in the feed. Most of the time, it will be tt_content.bodytext	utf-8
published	string	the field of the database that corresponds to the time stamp when the element is published	tstamp
updated	string	the field of the database that corresponds to the time stamp when the element is updated	tstamp
uid	string	the uid field name of the database	uid
pid	string	the page id's field name of the database	pid
filterField	string	define which field will be used to filter elements. Will be transform in a SQL statement like field = value => list_type = some_plugin	null
filterInclude	comma separated string	define which value will be used to filter elements. Will be transform in a SQL statement like field = value => list_type = some_plugin	null
filterExclude	comma separated string	define which value will **NOT** be used. Will be transform in a SQL statement like list_type **!=** some_plugin	
table	string	which table contains the element of the feed	tt_content
debug	true/false	output the request in the RSS feed. Maybe useful to debug the request.	false
linkItem	true/false	make a link to the element. Not always the case since in can be a administrative feed informing that a new user is created for example	false
defaultText	string	should the element contain a default value. Useful for administrative feed.	null
single_page.pid	int	page id containg the plugin to display a single record as defined in “select” configuration element.	null

Property:	Data type:	Description:	Default:
single_page.linkParamUid	string	parameter to the url to choose the record to be shown. E.g. if you use the extension mininews, you will have to set this to “tx_mininews_pi1[showUid]” as the URL to show a single news is the URL of the page containing the news plugin and the parameter &tx_mininews_pi1[showUid]=<uid>	null

Feed Configuration Examples

Generating a RSS or ATOM feed

The minimum configuration to build a feed. Copy paste these lines in a template > setup. It will display the latest updated content from table tt_content with 10 items.

```
feed2 = PAGE
feed2 {
    typeNum = 103
    10 >
    10 = USER
    10.userFunc = tx_ecorss_controllers_feed->display
    10.title = title of the feed
    10.subtitle = subtitle of the feed
    10.lang = fr-FR
    config {
        disableAllHeaderCode = 1
        disableCharsetHeader = 1
        additionalHeaders = Content-type:text/xml
        no_cache = 1
        xhtml_cleaning = 0
        admPanel = 0
    }
}
```

Generating a RSS or ATOM feed (more configuration)

It will provide exactly the same output as "feed2" but with more configuration

```
feed3 = PAGE
feed3 {
    typeNum = 103
    10 >
    10 = USER
    10.userFunc = tx_ecorss_controllers_feed->display
    10.title = title of the feed
    10.subtitle = subtitle of the feed
    10.lang = fr-FR
    10.cache_period = 3600
    10.numberItems = 10
    10.feed = atom
    10.select {
        01 {
            table = tt_content
            title = header
            summary = bodytext
            published = tstamp
            updated = tstamp
            debug = 0
        }
    }
    config {
        disableAllHeaderCode = 1
        disableCharsetHeader = 1
        additionalHeaders = Content-type:text/xml
        no_cache = 1
        xhtml_cleaning = 0
        admPanel = 0
    }
}
```

Filtering Content based on Page Language

Only return entries for the language associated to L=1 (e.g., English).

```
feed4 = PAGE
feed4 {
    typeNum = 103
    10 >
    10 = USER
    10.userFunc = tx_ecorss_controllers_feed->display
    10.title = title of the feed
    10.subtitle = subtitle of the feed
    10.lang = en-GB
    10.sys_language_uid = 1
    config {
        disableAllHeaderCode = 1
        disableCharsetHeader = 1
        additionalHeaders = Content-type:text/xml
        no_cache = 1
        xhtml_cleaning = 0
        admPanel = 0
    }
}
```

Filtering Records from Table tt_content

```
feed5 = PAGE
feed5 {
    typeNum = 103
    10 >
    10 = USER
    10.userFunc = tx_ecorss_controllers_feed->display
    10.title = title of the feed
    10.subtitle = subtitle of the feed
    10.lang = fr-FR

    10.select {
        01 {
            table = tt_content
            # it will be transformed in SQL e.g. list_type=tx_ecobox_controllers_content
            filterField = list_type
            # comma separated value
            filterInclude = tx_ecobox_controllers_content , tx_ecobox_controllers_box
        }
    }
    config {
        disableAllHeaderCode = 1
        disableCharsetHeader = 1
        additionalHeaders = Content-type:text/xml
        no_cache = 1
        xhtml_cleaning = 0
        admPanel = 0
    }
}
```

Including and Excluding Field's Value

Include and exclude field's value in a more verbose configuration.

```
feed6 = PAGE
feed6 {
    typeNum = 103
    10 >
    10 = USER
    10.userFunc = tx_ecorss_controllers_feed->display
    10.title = title of the feed
    10.subtitle = subtitle of the feed
    10.lang = fr-FR
    10.cache_period = 3600
    10.numberItems = 10
    10.feed = atom
    10.select {
        01 {
            table = tt_content
            filterField = list_type
            filterInclude = text, textpic
            filterExclude = list, mailform
            # the value corresponds to a field (title of the enty)
```

```
            title = header
            # the value corresponds to a field (body of the enty)
            summary = bodytext
            debug = 0
        }
    }
    config {
        disableAllHeaderCode = 1
        disableCharsetHeader = 1
        additionalHeaders = Content-type:text/xml
        no_cache = 1
        xhtml_cleaning = 0
        admPanel = 0
    }
}
```

Selecting Content from a Flexform

Requires MySQL >= 5.2.

```
feed7 = PAGE
feed7 {
    typeNum = 103
    10 >
    10 = USER
    10.userFunc = tx_ecorss_controllers_feed->display
    10.title = title of the feed
    10.subtitle = subtitle of the feed
    10.lang = fr-FR
    10.cache_period = 3600
    10.numberItems = 10
    10.feed = rss
    10.select{
        01{
            table = tt_content
            filterField = list_type
            filterInclude = tx_ecobox_controllers_content
            # this option is not mandatory
            summary = pi_flexform
            summaryXPath = /T3FlexForms/data/sheet[@index="sSummary"]/language/field/value[text()]
        }
    }
    config{
        disableAllHeaderCode = 1
        disableCharsetHeader = 1
        additionalHeaders = Content-type:text/xml
        no_cache = 1
        xhtml_cleaning = 0
        admPanel = 0
    }
}
```

Combining Content from a Flexform and From Another Table

Select content from a Flexform (require MySQL 5.2) AND combine with an other feed from an other table (tx_mininews_news) associated to extension mininews.

```
feed8 = PAGE
feed8 {
    typeNum = 103
    10 >
    10 = USER
    10.userFunc = tx_ecorss_controllers_feed->display
    10.title = title of the feed
    10.subtitle = subtitle of the feed
    10.lang = fr-FR
    10.cache_period = 3600
    10.numberItems = 10
    10.select {
        01 {
            table = tt_content
            filterField = list_type
            filterInclude = tx_ecobox_controllers_content
            summaryXPath = /T3FlexForms/data/sheet[@index="sSummary"]/language/field/value[text()]
        }
        02 {
            table = tx_mininews_news
            title = title
            summary = teaser
```

```
            published = tstamp
            updated = tstamp
            debug = 0

            single_page {
                pid = 87
                linkParamUid = tx_mininews_pi1[showUid]
            }
        }
    }
    config {
        disableAllHeaderCode = 1
        disableCharsetHeader = 1
        additionalHeaders = Content-type:text/xml
        no_cache = 1
        xhtml_cleaning = 0
        admPanel = 0
    }
}
```

Available Hooks

One single hook, namely PostProcessingProc, is available and let you post-process each feed entry before displaying / caching it.

Configuration

Create a PHP class containing your own processing method (see section “Class Example” below) and reference it in localconf.php:

```
include(dirname(__FILE__).'/../fileadmin/class.user_ecorss.inc');
$TYPO3_CONF_VARS['EXTCONF']['ecorss']['PostProcessingProc'][] = 'user_ecorss->proc';
```

Remark

This configuration example uses a file class.user_ecorss.inc which is stored in fileadmin. You may change it as you wish to fit your needs!

Class Example

This example shows how to create a post-processing method which prepends “Hello - “ to the feed title.

```
<?php
class user_ecorss {
    public function proc($feed, $cObj) {
        $feed['entry']['title'] = 'HELLO - ' . $feed['entry']['title'];
    }
}
?>
```

TypoScript Configuration

If you need to parameterize the post processing function, you may extend the feed configuration with any parameter in the hook block:

```
feed1.10.hook {
    myPrefix = Hello World ::
}
```

And then in your class:

```
$feed['entry']['title'] = $feed['config']['myPrefix'] . $feed['entry']['title'];
```

Administration

Installation

Nothing special. Install the extension as usual :-) . Copy / paste / adapt the TypoScript in the example section.

Known problems

– Please report the problem you might meet to fabien.udriot@ecodev.ch

To-Do list

– Manage the <keyword> tag in RSS feed (depending on the demand)

Acknowledgments

–

Changelog

Version	Date	Comments and Changes
0.4.1	April 08	Cache configuration enhancement, by Fabien Udriot
0.4	April 08	Hook and caching mechanism added, by Xavier Perseguers
0.3	March 08	Feed author is now configurable, by Xavier Perseguers
0.2	February 08	Bug fixes and multilingual support, by Xavier Perseguers
0.1	December 07	Initial release, by Fabien Udriot