

Escenic Widget Framework

Functionality Overview

2.0.3.136893







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Last Updated

01.03.2013



Table of Contents

1 Introduction	7
2 Special Instruction	9
3 Version 2.0	11
3.1 A time based preview of section is added	11
3.2 WF pingback service has been removed	11
4 Version 1.10	13
4.1 Facebook integration	13
4.2 A new widget named 'Twitter'	13
4.3 Tweeting from Content Studio	13
4.4 A new widget named 'Pingback'	14
5 Version 1.9	15
5.1 A new content type named 'Event'	15
5.2 A tag structure for Events	15
5.3 New widgets to display Events	15
5.4 Configuring Solr for Event-specific functionalities	15
6 Version 1.8	17
6.1 A topic tag structure for content types	18
6.1.1 Setup instructions	18
6.1.2 Usage	18
6.2 Topic landing page configurable through conventional config sections	18
6.2.1 Setup instructions	19
6.3 New widgets to be used with regards to topics	19
6.3.1 Setup instructions	19
6.4 Updated widgets to be able to show content from a given topic	19
6.4.1 Setup instructions	19
7 Version 1.7	21
7.1 Geo blocking of video materials	21
7.1.1 Setup instructions	21
7.1.2 Usage	21
7.2 Paywall integration hooks	21
7.2.1 Setup instructions	22
7.2.2 Usage	22
7.3 Follow / Notifications	22
7.3.1 Setup instructions	22



7.3.2 Usage.....	23
8 Version 1.6.....	25
8.1 Tag functionality.....	25
8.1.1 Setup instructions.....	25
8.1.2 Usage.....	25
8.2 Search extensions.....	26
8.2.1 Setup instructions.....	26
8.2.2 Usage.....	26
8.3 Article Pagination.....	26
8.3.1 Setup instructions.....	26
8.3.2 Usage.....	26
9 How to export, import using Widget Framework Syndication Service.....	27
9.1 How to export widgets.....	27
9.2 How to import widgets.....	27



1 Introduction

This document describes the new major features in each version of **Escenic Widget Framework** (EWF from now on), what needs to be configured to use them and how to include the feature using the widgets.

The document will be updated for each version, so you should always have the document specifying the version of EWF that you or your project is using.

As this document was introduced at a later stage, the earliest versions might not be described yet, but eventually all major functionality of EWF should be found here.



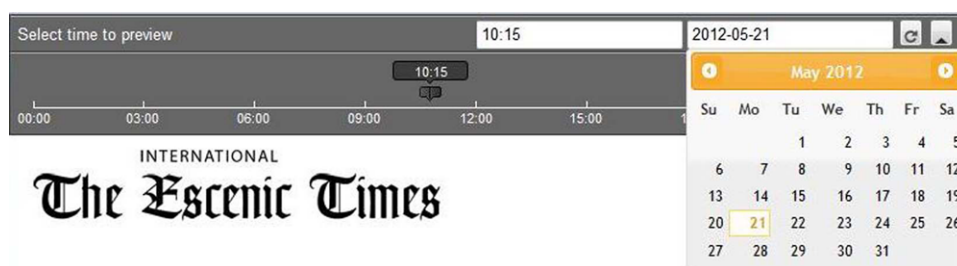
2 Special Instruction

You must install widget-framework-common module as an Escenic plug-in and customize the Escenic components in it according to your needs. These components are required for enabling Solr search, periodically generating and sending customized feeds for community users, tweeting article from Content Studio, enabling reCaptcha etc. This is a requirement for widget framework version 1.7.1 to 1.10.0.0. For version 2.0 this plugin is required no more.

3 Version 2.0

3.1 A time based preview of section is added

We can control the activation and expiration of a content or widget from content studio. Based on the active contents the section page, it looks different from time to time. It is possible to preview any section at a given time. Clicking the **Preview** button of any section page from **Content Studio** will open a page with a **time slider** at the top of the page.



Select the date from the date picker and scroll the time slider to set the time. You can input the time and date manually. But keep in mind that the time format is **hh:mm**. and the date format is **yyyy-mm-dd**.

Click the **C** button and you will be able to see the preview of the section page of that time that you set in the slider. You can **show or hide** the time slider using **▼** or **▲** button.

If you look at the url then you can see that there is an additional parameter called **now=yyyy-mm-ddThh:mm:ss**. You can edit this **now** parameter as your wish and see the preview. But keep the **time and date format** same as before. With a valid **token** parameter, you can add your **now** parameter to see the preview. Keep in mind that, a **token** is valid for only **5** minutes.

3.2 WF pingback service has been removed

Widget Framework had a pingback service. This is removed in the **Widget Framework 2.0**. **Forum Plugin** supports pingback feature. Widget framework has a pingback widget. So, if you want to enable pingback for your site you have to install **Forum Plugin** and **Forum Pingback Server**. Details of how to do this is described in the **Forum Plugin Guide**.



4 Version 1.10

The main new features of EWF 1.10 are:

- Facebook integration
- A new widget named 'Twitter'
- Tweeting from Content Studio
- A new widget named 'Pingback'

4.1 Facebook integration

Facebook like button and comments plugin has been added to Widget Framework 1.10. **Stories, List, Most Popular, Trailer, Popular List, Page Tools** widget has been modified to support facebook like button beside each teaser. You will find a checkbox in the general tab of those widget. If you select the checkbox then facebook like button will be shown in each teaser of those widgets. All views of **List** widget does not support facebook like. Only **detailed, picture and video** view has this support.

Comment widget has been modified to support comment. A new view named **Facebook Comment** has been added which is a pure facebook comment box. This will show facebook comment thread for the page where you have placed the widget. If you use this view then comment will be post to facebook but not in forum. **Flat, Thread** view of Comment widget also has been modified to support comment using facebook account. In this case you will find a checkbox in the publication which will ask whether you want to post your comment in facebook or not. You need an application in facebook for that. Required configuration steps for this is as follows -

- Create a facebook application from <https://developers.facebook.com/apps>
- Specify your site url and domain name correctly in the facebook application configuration. Note down the application ID.
- Add this application ID in the section parameter of corresponding publication. The application ID must be mapped against `facebook.app.id` name

4.2 A new widget named 'Twitter'

A new widget named 'Twitter' is now part of EWF. This widget brings various twitter-based functionalities together.

4.3 Tweeting from Content Studio

It is now possible to generate a tweet for a 'news' type article from Content Studio. In order to use this service, you need to do the following :

- Configure the nursery component '/com/escenic/framework/twitter/GoogleURLShortener' with the correct goo.gl API key.
- Create a twitter application and use its settings in twitter4j.properties

4.4 A new widget named 'Pingback'

A new widget named 'Pingback' has been added to support pingback/trackback functionality. You have installed **Forum Plugin** and **Forum Pingback Server** properly for getting pingbacks using Pingback widget.

5 Version 1.9

The main new features of EWF 1.9 are:

- A new content type named 'Event'
- A tag structure for Events
- New widgets to display events

5.1 A new content type named 'Event'

A new content type named 'Event' has been added that makes use of the newly introduced 'schedule' fields in ECE.

5.2 A tag structure for Events

In order to categorize events, a tag structure needs to be created with the scheme `eventType.ewf,2011` and with the name `eventtype.ewf` (please note that case is important)

After the tag structure is created, tags can be imported or manually created from content studio. A sample xml file that can be imported is provided under the `tags` folder of the release distribution.

5.3 New widgets to display Events

The Event List widget allows the user to display a list of events that occur within a specific time range (e.g., today, this week, this month etc)

The Event Calendar widget arranges the events in a calendar.

5.4 Configuring Solr for Event-specific functionalities

The 'Event' content-type contains a field named 'eventSchedule'. We need to ensure that this field is indexed by Solr before we can use event-specific widgets.

One possible way to configure Solr is to edit the schema.xml and add the following two lines :

```
<field name="eventschedule_start_tdate" type="tdate" indexed="true" stored="true"
multiValued="true"/>
<field name="eventschedule_end_tdate" type="tdate" indexed="true" stored="true"
multiValued="true"/>
```

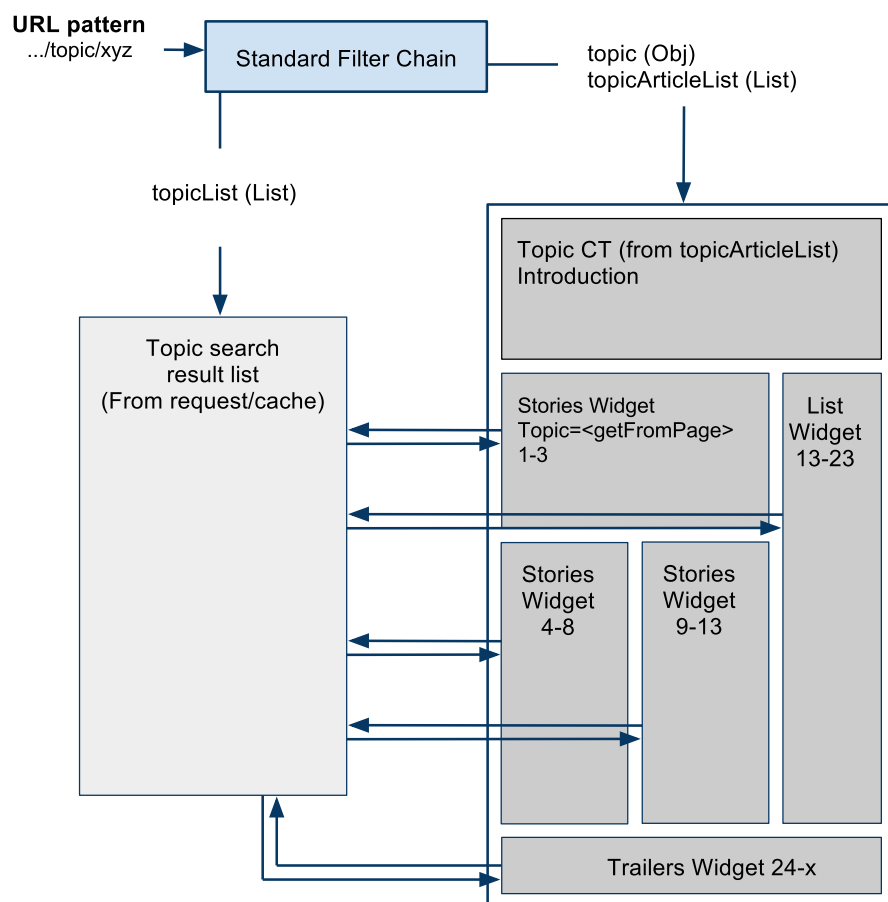
After modifying schema.xml, it is necessary to restart the application server and regenerate solr index.

6 Version 1.8

The main new features of EWF 1.8 are:

- A topic tag structure for content types
- A topic landing page configurable through conventional config sections
- New widgets to be used with regards to topics
- Updated widgets to be able to show content for a given topic

This version contains additions to the **Escenic Standard Filter Chain**, the filters involved with deciphering the URL, loading the appropriate variables and adding them to the request scope. This is to make available the tag used as (and from now on known as) a **topic**, as well as related objects necessary to create a proper **topic page**. As part of the topic page the URL pattern is resolved by a new filter that returns the actual topic object as well as the first found topic (typed) article and a list of search results on other content types as variables on the request scope. These variables can in turn be used by the widgets added to the topic configuration pages.



6.1 A topic tag structure for content types

To be able to tap into the new (as of ECE 5.3.0.0) tagging mechanism of Escenic Content Engine, a tag structure has been created that can be imported into Escenic Content Engine through the Escenic administration tool (`/escenic-admin/`). This empty tag structure is called **Topic** and is meant to be used to hold any news related topics. Examples of usage would be:

- Developing a story like **the War in Libya**
- Creating celebrity pages like **Michael Jackson**
- Collecting site-wide related news about a topic, like **Liverpool FC**
- etc.

6.1.1 Setup instructions

To enable this functionality the following steps are necessary:

- From the home page menu of the Escenic Administration tool, select **Manage tag structures** (`.../escenic-admin/do/classification/display`).
- Find and import the tag structure under the scheme `topic.ewf,2011` and name `topic.ewf`.
- Make sure that the content types which you want to be able to relate to a topic has the necessary `<ui:tag-scheme>tag:topic.ewf,2011</ui:tag-scheme>` node defined in the **content-types** reference document.
- To get the search working, faceted search needs to be enabled. This is done by setting the property `enableFacets=true` in the configuration file `com/escenic/classification/IndexerPlugin.properties`. If the file does not exist, it is safe to create it, adding only that line.

6.1.2 Usage

Once the `<ui:tag-scheme>tag:topic.ewf,2011</ui:tag-scheme>` tag is connected to a content type, tagging for that content item is made available in Escenic Content Studio.

6.2 Topic landing page configurable through conventional config sections

As the presentation for a topic, a landing page is created. this is handled by the addition of the filter. The landing pages can in turn be configured through config sections, similarly to the way regular sections are configured.

- `http://www.mySite.com/topic/liverpool =>`
config.topic.ece_frontpage will be looked up. If not found, **config.topic** will be used.
- `http://www.mySite.com/sports/topic/liverpool =>`
config.topic.sports will be looked up. If not found, **config.topic** will be used.



- `http://www.mySite.com/sports/football/topic/liverpool => config.topic.football` will be looked up. If not found, `config.topic.sports` will be looked up. If that is not found, `config.topic` will be used.
- and so on ...

6.2.1 Setup instructions

Create config sections for topics. At least the root node (`/config/`
`config.topic/`) should be created and configured, but you are of course free to create topic configuration sections for any level.

6.3 New widgets to be used with regards to topics

To be able to create an introduction to a **topic page** the EWF now comes with a new widget called **Topic**. This widget works a lot like the Story Content Widget, only now it renders topic in place of story.

6.3.1 Setup instructions

The new widget needs to be added to your project and built into your publication

6.4 Updated widgets to be able to show content from a given topic

To be able to utilize the new functionality, existing widgets have been updated to take **topics** into account. This, in effect, means that **topic** can be used as a source for retrieving content. The updated widgets are:

- Stories Widget
- Story Content Widget
- List Widget
- Trailers Widget
- Related Content Widget

6.4.1 Setup instructions

If you are starting of a project, follow the general build instruction from the EWF guides. If you are already using a version of EWF, you will need to merge the changes into your current project.



7 Version 1.7

The main new features of EWF 1.7 are:

- Geo blocking of video materials
- Paywall integration extension for content types
- Follow / Notification

7.1 Geo blocking of video materials

Licensed video elements can now be blocked based on geographical location. An editor can allow a video element to be accessible only from given regions, or allowed access for all except given regions. This is done by adding either a black-list or a white-list to the publication, and specifying whether the framework should check the user's location before granting access to the video element.

7.1.1 Setup instructions

To enable this functionality the following steps are necessary:

- Retrieve and place the **geo-ip.data** file in `/var/lib/escenic/engine` directory (on default installations). Download the GeoLite Country Database binary from maxmind.com. The downloadable artifact is at the time of writing called **GeoIP.dat.gz**. Extract it with e.g. **gunzip** and write it to `/var/lib/escenic/engine/geo-ip.data`
- White & black listing should be modified in the Nursery component `/com/escenic/framework/geo/GeoLookupManager`

Example

```
$class=com.escenic.framework.geo.GeoIPLookupManager
    geoIPDataFile=/var/lib/escenic/engine/geo-ip.data
    whiteList = NO
    #blackList = US,AE
```

7.1.2 Usage

When creating a new Video element through Content Studio, using the **Simple video** content type, check the **Block this video** check box to specify that the video should follow the rule-set defined in the white list or black list.

7.2 Paywall integration hooks

It is now possible to add support for premium content. This includes functions for marking content as premium and specifying which fields should be available to everyone and which should be locked has been added. Also, it is possible to allow for a number of body field paragraphs to be exposed as a teaser before being asked to login or register.

7.2.1 Setup instructions

The actual negotiation between the site and the paywall provider is handled outside of EWF. This means that WF assumes that the HTTP header called **PAYWALL_OPEN** is set to true/false before the request enters the application server.

The first entry point on the customer site (this is normally the caching server) should check for the existence of this header, and if present, remove it, before continuing. For instance, if the request flow is:

```
http://mysite.com/my-article ->
  cache-server
    1) Removes PAYWALL_OPEN HTTP header if present
    2) Checks for payment information URI parameters and/or cookie
    3) Sets the PAYWALL_OPEN HTTP header
    4) Passes on the request.
  ->
  app-server ->
    Hits this PayWallProcessor
```

7.2.2 Usage

When using the Story Content Widget, you can define which fields should be available as non premium content, and where to set display the message that the content being viewed is premium content.

For each content element (e.g. a News article) you may select that it is indeed a premium content by checking a check box under the **Advanced** tab. This will then trigger the usage of the previously defined settings in the Story Content Widgets used to render the content.

7.3 Follow / Notifications

It is now possible for registered users to subscribe to and receive notification for various types of updates. The updates are stored as entries in an rss-feed on the users profile. Periodically these will be sent as email to the user. This is thought to be used as a way for registered users to **follow** a section, another user or even a tag.

The user may subscribe to users, sections, tags, and content-types (articles). The user chooses which updates he or she wants to receive by selecting the appropriate check boxes on his or her profile page, and then subscribes as he or she navigates the site.

7.3.1 Setup instructions

To enable this functionality the some components need to be configured. Use the supplied configuration under the **misc/siteconfig/** directory inside the widget-framework-common plug-in and do the necessary adjustments:

- Configure the Nursery component **/com/escenic/framework/community/history/HistoryFeedGenerator** to fit your needs. This implies specifying which actions you would like the subscriber to receive on any given object.



- Configure the component `/com/escenic/framework/community/history/mail/HistoryFeedSender` to point at where the updates can be found as well as how the email should be built.
- Add `/com/escenic/framework/community/history/HistoryFeedGeneratorSchedule` and `/com/escenic/framework/community/history/mail/HistoryFeedSenderSchedule` as services to `Initial` to start listening and generating updates.
- Configure the component `/neo/io/services/MailSender` to match your outgoing mail server (SMTP) so that emails can be sent.

Remember to only configure one server to trigger the the gathering and sending of updates.

It is possible to send mail to users from a completely different server, which can be preferable from a performance point of view.

7.3.2 Usage

Using the Profile Actions widget, a link for subscribing to various objects can be created. This button or link can then be placed in the following locations to:

- On the profile configuration section (config.section.profile): subscribe to user updates
- On the article configuration section: subscribe to updates on an article (content type)
- On a section configuration page: subscribe to a sections updates
- On the search configuration page: subscribe to new elements being tagged with a specific tag

NOTE: these buttons will not show up until the page is viewed as a logged in user

8 Version 1.6

The main new features of EWF 1.6 are:

- Tag functionality
- Search extensions
- Article pagination

8.1 Tag functionality

Escenic Content Studio has the possibility to attach **Tags** to an article. Previously these tags have only been shown on the article itself.

8.1.1 Setup instructions

To enable this functionality the following steps are necessary:

- In order to use the solr-enabled search widget, publication names must be indexed and stored. The following configuration should be specified in schema.xml:

```
<field name="publication" type="string" indexed="true"
      stored="true"/>
```

The application server then needs to be restarted and the solr index regenerated.

8.1.2 Usage

The usage of the tag functionality spreads over several widgets and will be described one-by-one

The **Story Content Widget** has the option to list the contents attached tags. The listing is done as in previous versions of the widget, but this time including a link to the search page, executing a search for that tag. The result is that the search result page will return content containing that tag.

The **List Widget** has a new view called **Search** which will execute a search to retrieve any hits on the matching tag, then list these in pages defined by the **Number of articles per page** showing a **previous** and **next** button.

The **Related Contents Widget** now fetches content that contain the same tags as the main article it is used in relation with. These content items are then added to the manually attached relations and displayed until the **Max number of articles** have been met, as specified under the **Advanced** tab.

8.2 Search extensions

The search widget will now display search results **as-you-type** as short cuts so that the user does not actually have to execute the search to find what he/she is looking for

8.2.1 Setup instructions

No specific setup needed.

8.2.2 Usage

The **Search Widget** now has a selectable **Enable search suggestions** option under the **Advanced** tab, that when in simple search mode retrieves results from the search and displays these as selectable options in a box below the search input field.

The rendition of the search result now includes the possibility to sort the result based on **relevance**, **date** and **type** and list in both **ascending** or **descending** order.

8.3 Article Pagination

Pagination can now be added to the body text of an article.

8.3.1 Setup instructions

No specific setup needed.

8.3.2 Usage

The **Story Content Widget** now includes the option **Paginate body** which when selected will divide the articles body into pages. The size of each page is decided by specifying a number of paragraphs in the **Maximum number of paragraphs per page** field.

The editorial user may also choose whether the end user should see a **simple** controller showing previous and next buttons only, or an **advanced** controller showing previous and next buttons as well as number of pages, which page one is on and a show all button. This is chosen from the **Controls** option.

9 How to export, import using Widget Framework Syndication Service

You may need to export and import widget from one publication to another publication. You can do that using Widget framework syndication plugin. Most importantly you must meet some precondition for a successful export import-

- The widget you want to export/import must have **config** or its subsection as **Home** section.
- A widget may have related image (say **Ad Widget**). Then home section of this image must be **config** or its subsection.

9.1 How to export widgets

Here are the steps to export widgets from a publication. Please follow this steps sequentially to perform widget export.

- You need to install Widget Framework as a standard ECE plug-in.
- Specify the export directory in `/etc/escenic/engine/common/com/escenic/framework/EWFExportConfiguration.properties`
- Now click on **WF-Syndication** from web-studio
- Then select **Export Widget Framework Configuration** option
- Now you will find all the widget configuration section. you can choose which configuration section you want to export.
- Then click on **Perform Export**
- Be aware if there any error while exporting

9.2 How to import widgets

Now we assume that you have successfully exported widget configuration. So, now you have the exported configuration file. During the import procedure you have to use this file. The import steps are as follows-

- First configure import, archive and error directory in `/etc/escenic/engine/common/com/escenic/framework/EWFImportConfiguration.properties`. You must put your exported xml file in import directory location and also images which are related with widgets.
- From Web Studio go to 'Wf-Syndication' option.
- Select **Import Widget Framework Configuration**
- Select the file from which configuration will be imported. This is basically the file which is generated by WF Syndication export task. You must place this file in the import directory location. Syndication plugin does not export any images. So, if you have any images associated with any widget you must place those in the import directory manually. Then the syndication plugin will automatically import them and will attach them with widget.

- Now click on **Perform Import**
- Be aware of any error while import

Import is said to be successful if a corresponding config page is created for the selected configuration section, widget is created for selected configuration section and widget is linked with images (if there is any).