

jAPS 2.0 entando- Rss plugin

Do It The jAPS Way

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Sommario

The aim of this document is to fully describe the structure of the Rss plugin.

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Capitolo 1. Scope of the document

Introduction

The goal of this document is to fully describe the structure of the RSS(jprss) Plugin.

Target audience

This document is for those who want to know more about the RSS plugin functionalities and are considering to install it in a production or development environment with the Eclipse IDE. This document is aimed at system administrators (responsible for jAPS 2.0 entando installations) and Java developers (with a basic comprehension of the jAPS 2.0 entando framework).

Prerequisites

In order to take maximum advantage from the present document, it is necessary to have a basic knowledge about: the Java platform, the Eclipse IDE, the Apache Tomcat servlet container, the PostgreSQL DBMS and the jAPS 2.0 entando framework.

Riferimenti

Additional informations may be obtained through the official mailing-lists: Google Group "japs-platform" [<http://groups.google.com/group/japs-platform>].

To send a message to the list members, send an email to `<japs-platform@googlegroups.com>`.

Is it also possible to refer to the documentation found in the:

jAPS 2.0 entando Project - Developers site [<http://dev.japsportal.org/>]

Capitolo 2. Plugin characteristic

Plugin characteristic

The `jprss` plugin allows to serve the portal contents through RSS channels.

Tabella 2.1. Characteristics overview

Code	Name	Type	Plugin version	Version of jAPS 2.0 entando
jprss	RSS	PurePlugin	1.3	2.2.2 -
jprss	RSS	PurePlugin	1.2	2.2.0 -
jprss	RSS	PurePlugin	1.1	2.0.8 - 2.0.10
jprss	RSS	PurePlugin	1.0	2.0.6

Prerequisites

This plugin requires the following dependencies to be satisfied:

- *jacms* version 2.2.0 or later

Since version 2.0.8 *jacms* is bundled with jAPS2 itself, requiring no actions to be taken by the final user.

Functionalities:

This module offers:

- A back-end interface used by the administrator to create and manage the contents served through RSS channel. This interface adheres strictly to the pre-existing back-end graphics and settings, and it is accessible from the `Plugin` menu item.
- A showlet for the front-end designed to serve the list of the links of the active channels.

The links to RSS contents served in the Front-end always follow this pattern:

```
http://ipaddress:8080/myportal/do/jprss/Rss/Feed/show.action?id
```

where 'ipaddress' is the ip of the 'myPortal' portal and the id is the ID of the served content.

Capitolo 3. Installation and Integration

Plugin type

The `jprss` plugin serves the content of the portal in the RSS format.

This plugin is a *PurePlugin*, because the installation neither alters nor modifies pre existing functionalities of the system.

Package description

This package strictly adheres to the document *jAPSPlugin Pattern* so it contains all the directories expected (such as the `doc` and `src` directories as well as the `readme` file)

Moreover, the `src` is structured as follows:

- `java` directory. It contains the source files and the test suites of the plugin.
- `sql` directory. It contains the sql scripts to execute in the `port` and `serv` database, for the production, development and test environment.
- The `webapp` directory. This directory contains all the files needed by the web application. More specifically we have the `jsp` files of the user interfaces and the related configuration files, the `xml` declaring the beans of the various services (both belonging to the jAPS 2.0 entando business logic layer and the Struts2 presentation layer), all the required `jar` libraries (including the plugin itself!) and, finally, the static resources (`css`, `images`, `js` and so on).

Integration in a production environment

From now on we refer to the application where the plugin is going to be deployed as `myportal`. We also refer to the compressed file containing the all the plugin elements as 'package'.

To perform the installation in a production environment based on the jAPS 2.0 entando *compatible with this plugin*, the following steps must be taken:

1. Stop the servlet container
2. Copy the content of the `src/webapp/WEB-INF/lib` directory of the downloaded package inside the `myportal/WEB-INF/lib/` directory within the server container.
3. Make sure that the `myportal/WEB-INF/plugins/` directory exists, otherwise create it. Copy the content of the `src/webapp/WEB-INF/plugins` directory of the plugin package inside the `myportal/WEB-INF/plugins/` directory within the server container.
4. Copy the content of the directory `src/webapp/resources/plugins/` of the plugin package in the `myportal/resources/plugins/`.
5. Locate the SQL scripts in the `src/sql` directory inside the plugin package. Execute the script (eg. using the free program PgAdmin) to update the `port` database in production. The script has the parameter `version` set to `production`, change it accordingly to your needs. Substitute with the appropriate values the following strings: `CONTENT_TYPE`, `ATTRIBUTE_NAME` and finally `MAX_ITEMS`.
6. In the `src/sql` directory, locate and execute the script `servScript.sql` to update the `serv` database in production.

Installation in a development environment

As a convention, we call the project where the plugin is about to be installed `myproject`.

To perform the installation of `jprss` in an Eclipse IDE, on a version of `jAPS 2.0` entando *compatible* with the plugin, follow these steps:

1. Copy the content of the `src/webapp/WEB-INF/lib` directory of the plugin package in the `myproject/WebContent/WEB-INF/lib/` directory with the exclusion of the jar of the plugin.
2. Make sure that the `myproject/WEB-INF/plugins/` directory exists, otherwise create it. Copy the content of the `src/webapp/WEB-INF/plugins` directory in the `myproject/WebContent/WEB-INF/plugins/` directory.
3. Copy the content of the directory `src/webapp/resources/plugins` of the plugin package in the `myproject/WebContent/resources/plugins/` directory.
4. Execute the script `portScript.sql` (found in the `src/sql` directory of the plugin package) to update the local port database. The script has the version set to `production`, change it accordingly to your needs. Substitute with the appropriate values the following strings: `CONTENT_TYPE`, `ATTRIBUTE_NAME` and finally `MAX_ITEMS`.
5. Execute the script `servScript.sql` (found in the `src/sql` directory of the plugin package) to update your local serv database.
6. Execute the script `portTestScript.sql` (found in the `src/sql` directory of the plugin package) to update your local port database used for tests.
7. Execute the script `servTestScript.sql` (found in the `src/sql` directory of the plugin package) to update your local serv database used for tests.
8. Copy the content of the `src/java/main/com` directory of the plugin package in the `myproject/src/com` of your project.
9. Copy the content of the `src/java/test/test` directory into `myproject/src/test`.
10. Copy the file `src/java/main/jprss_japs-struts-plugin.xml` in `myproject/src/`. Look for a file named `japs-struts-plugin.xml` under the `src` directory of your Eclipse project: if it exists copy the content of the tag `<struts>` of the file `jprss_japs-struts-plugin.xml` inside the existing `japs-struts-plugin.xml` file, then delete `jprss_japs-struts-plugin.xml`. If the `japs-struts-plugin.xml` does not exist rename the file `jprss_japs-struts-plugin.xml` in `japs-struts-plugin.xml`.
11. Delete or comment out (using a java comment) the method `getSpringConfigFilePaths()` of the class `JpRssConfigTestUtils.java` belonging to the `test.com.agiletec.plugins.jprss` package.
12. Delete or comment out (using a java comment) the method `setInitParameters()` of the class `JpRssApsAdminBaseTestCase.java` belonging to the package `test.com.agiletec.plugins.jprss.apsadmin`.

Once the following steps are performed, restart your project and verify the presence of the RSS menu item under the Plugin menu in the back-end interface.

Capitolo 4. Plugin configuration

RSS channel configuration

Note: the pictures shown below of the jAPS backend may actually differ from the actual, however the underlying logic is mostly unchanged from the previous versions. A brief paragraph highlighting the only configuration change that improves the entire configuration and installation process follows.

RSS plugins takes advantage of one of the new key core features of the jAPS 2.0 entando, the attributes roles. As a matter of fact the "jprss_config" configuration item in the table "sysconfig" has been dropped.

Before configuring the RSS channels you must decide what kind of contents are suitable for publishing. Now that the configuration item does not exist anymore the role is used to decide if the attribute will become, for example, the title of the rss feed.

To do so, you must edit the "entity type" of the contents you want to publish into RSS format: in the attribute list edit the attribute of your choice that will be, for example, the title of the rss. At this point under "Role" select you have to choose one of the roles for the attribute injected in the system by the plugin:

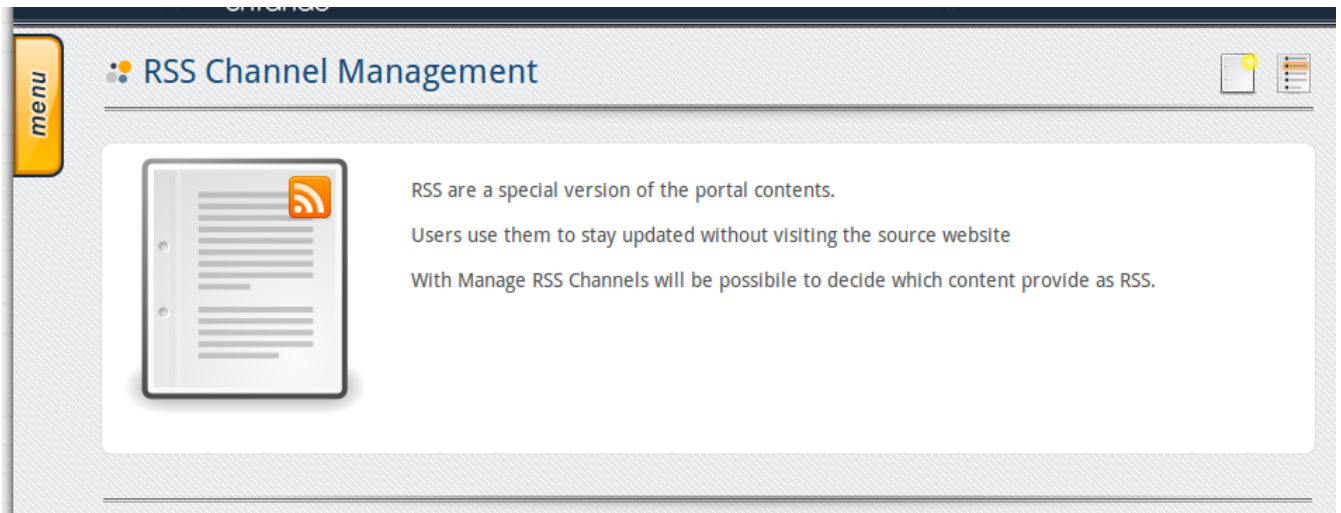
- jprss:title - the attribute that contains the title of the rss content
- jprss:description - the attribute that contains the description of the rss content

Confirm clicking the "Add" button, then proceed with the attribute configuration eventually pressing the "save" button. Once that each of the roles above are assigned you can enter the administration area of the plugin.

To enter the RSS administration interface follow these steps:

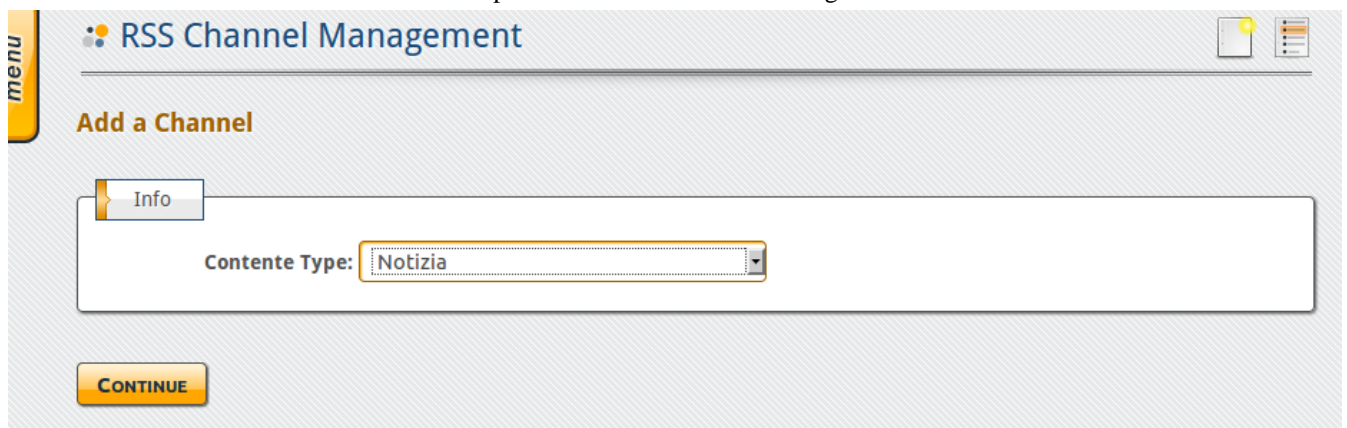
1. Enter the administration area of the portal
2. Plugin
3. RSS

The RSS welcome screen appears:



The list of the RSS channels actually defined in the portal

Press on the *New channel* link to proceed as shown in the next figure:



Choice of the content type to be served through a RSS channel (*translator note: 'notizia' means 'news'.*)

Once the content type has been selected, the fields showed below must be filled to complete the creation of the RSS channel.

Add a Channel

Info

Contente Type:

Title:

Description:

☐ **Active**

RSS Type:

Category:

Max Items

Filters

No filters are currently defined

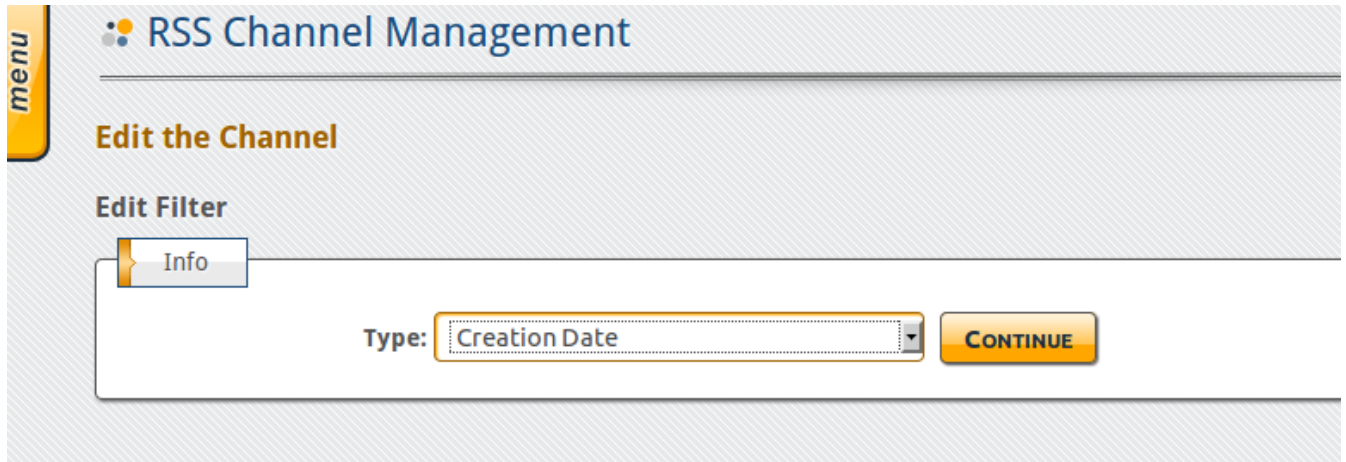
Fields of the RSS channel

Now the following information must be provided to complete the creation of the new channel:

- Type of the channel
- The title of the RSS channel
- A brief description of the RSS channel
- Choose if the channel must be immediately served checking the 'Active' box
- Definition of the Category this channel belongs to
- Definition of the Filters (refer to the next paragraph on how to create Filters)

Once the form is properly filled the RSS channel is ready to be exposed in the front-end.

Filters management: if the contents to be exposed through RSS must be filtered for any reason, just select *Add* in the filter box shown in the last picture. The following screen appears:

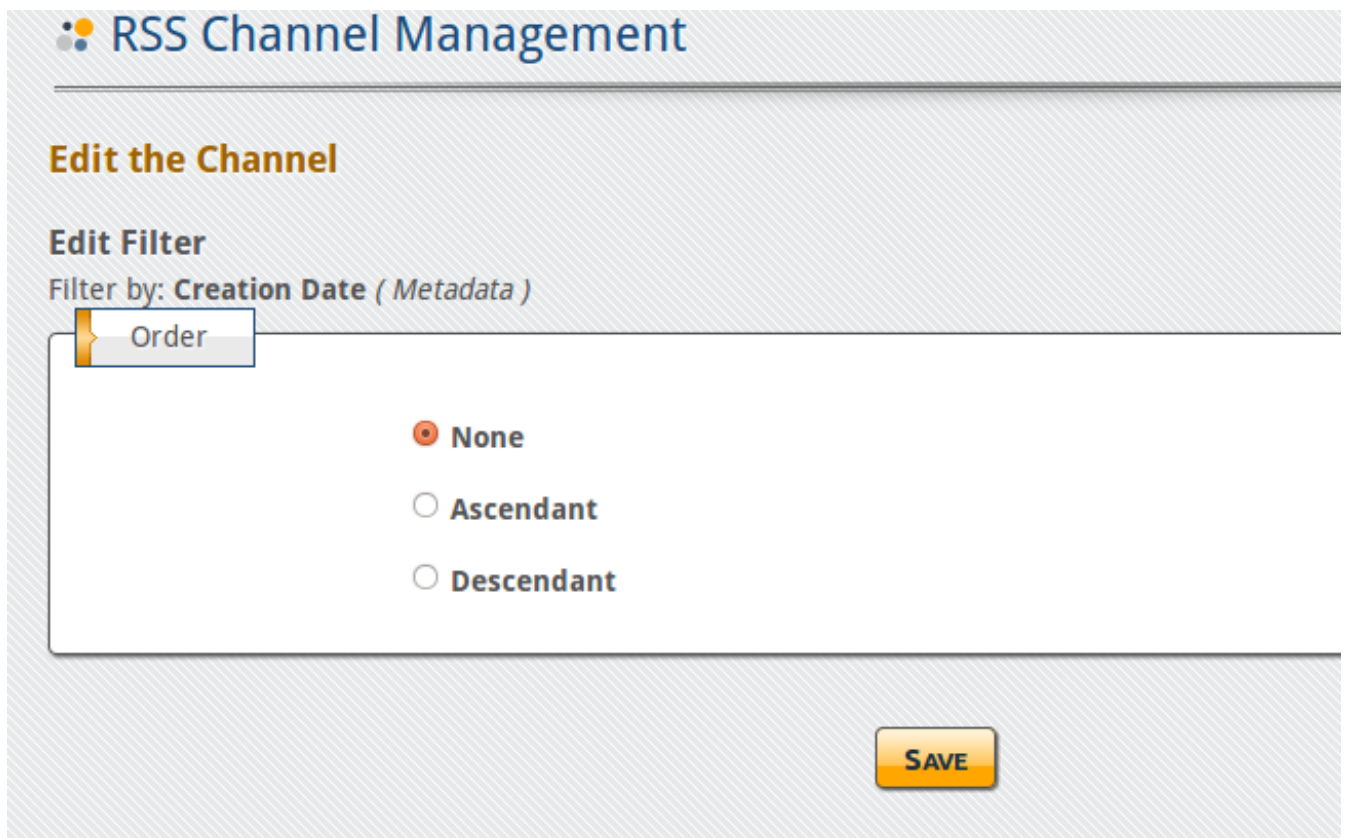


The screenshot shows the 'RSS Channel Management' interface. On the left, there is a vertical 'menu' bar. The main heading is 'RSS Channel Management'. Below it, there is a section 'Edit the Channel'. Underneath, there is a sub-section 'Edit Filter'. A tab labeled 'Info' is selected. In the center, there is a 'Type:' label followed by a dropdown menu showing 'Creation Date'. To the right of the dropdown is a yellow 'CONTINUE' button.

Filter management for RSS channels

You may configure the filters depending on the attributes used in the Content Type used for the RSS channel.

Esempio 4.1. Example of a Date filter



The screenshot shows the 'RSS Channel Management' interface. The main heading is 'RSS Channel Management'. Below it, there is a section 'Edit the Channel'. Underneath, there is a sub-section 'Edit Filter'. The text 'Filter by: Creation Date (Metadata)' is displayed. A tab labeled 'Order' is selected. Below the tab, there are three radio button options: 'None' (which is selected), 'Ascendant', and 'Descendant'. At the bottom right of the form, there is a yellow 'SAVE' button.

Creation of a date filter for the RSS channel

Esempio 4.2. example of a Text-type filer



The screenshot shows a web interface for 'RSS Channel Management'. On the left is a vertical orange sidebar with the word 'menu' written vertically. The main content area has a light gray background with a diagonal line pattern. At the top, the title 'RSS Channel Management' is displayed in blue. Below it, the section 'Edit the Channel' is highlighted in orange. Underneath, the 'Edit Filter' section is shown. A tab labeled 'Info' is selected and highlighted in blue. Below the tab, there is a 'Type:' label followed by a dropdown menu currently showing 'Attribute: Titolo'. To the right of the dropdown is a yellow 'CONTINUE' button.

Creation of a Text-type filter for a RSS channel (translator note: 'Titolo' means 'title')

Example of configuration of the plugin.

menu

entando

VERSION 2.2.2 - STABLE

RSS Channel Management

CHANNELS LIST

Title	Status	Description	Active	Contente Type	RSS Type	-
Announcements	Ok	Villamarina Announcements	Yes	Bando	atom 0.3	
Decisions	Ok	Villamarina Decisions	Yes	Delibera	atom 0.3	
News	Ok	Villamarina Municipality News	Yes	Notizia	atom 0.3	

Content Types Management

Here the Content Types configured in the system.

If the Content Type can be used to create RSS Channels will be shown the attributes.

CONTENT TYPES

Key	Description	Info
BND	Bando	Title: <i>Oggetto</i> , Description: <i>Abstract</i>
CNG	Contenuto generico	Content Type not configurable
DLB	Delibera	Title: <i>Oggetto</i> , Description: <i>Abstract</i>
FAQ	FAQ	Content Type not configurable
NEW	Notizia	Title: <i>Titolo</i> , Description: <i>Lancio</i>
RSS	Rss Aggregato	Content Type not configurable
SDL	Scheda Download	Content Type not configurable
SIM	Scheda Immagine	Content Type not configurable

Resulting RSS channel configuration

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