

# **jAPS 2.0 entando – Plugin Mail**

## **Do It The jAPS Way**

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## **Abstract**

This document aims to describe the structure of the Mail (`jpmail`) plugin.

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# Chapter 1. Scope of the Document

## Introduction

The purpose of this document is to provide a complete description of the Plugin Mail (`jpmail`) structure.

## Target Audience

This document is intended for those who wish to know the capabilities of the jAPSPugin Mail (`jpmail`) and are considering the possible integration into a running production environment or in its Development Environment (IDE Eclipse Project).

The document is addressed to both System Administrators and java Developers with a basic understanding of the JAPS 2.0 entando platform.

## Prerequisites

In order to take maximum advantage from the present document, it is necessary to have basic knowledge about: Java platform, Eclipse development tools, the servlet engine Apache Tomcat, PostgreSQL dbms, jAPS 2.0 Framework.

Moreover, it's necessary to have read *jAPS 2.0 Plugin Pattern* document.

## Resources

Additional informations may be obtained through the official mailing-lists:

- `<japs-platform@googlegroups.com>`, "japs-platform" Google Group, the jAPS 2.0 entando official Mailing List

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

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

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## Chapter 2. Specifications

The Plugin Mail provides basic functionality for sending email both in plain text or HTML, with or without attachments. This service is the basis for all the plugins that require sending emails.

The plugin is structured can be inserted in an instance of jAPS without affecting the core system.

**Table 2.1. Characteristics Summary**

Code	Name	Type	Plugin Version	Version of jAPS 2.0 entando
jpmail	Mail	PurePlugin	1.4	2.2.2 -
jpmail	Mail	PurePlugin	1.3	2.2.0 -
jpmail	Mail	PurePlugin	1.2	2.0.10
jpmail	Mail	PurePlugin	1.1	2.0.6 - 2.0.8
jpmail	Mail	PurePlugin	1.0	2.0.2

## Characteristics of the Plugin Mail

### Features

This plugin provides the functionality of sending emails from a configured sender in the system.

The main goal of this plugin is to provide general functionalities in the service of particular implementations; exposed functionalities are in the exclusive service of other modules who need sending emails in order to work; for instance: User Registration, Newsletter etc.

Other modules can send emails, using the interface exposed by the Plugin Mail, customizing the following fields:

- Sender (from senders configured in the service)
- Subject
- Body
- Recipient (Primary recipients (to), Carbon Copy recipients (cc) and also Blind Carbon Copy recipients (bcc))
- Message Body Type (plain text, HTML, mixed; with or without attachments)

The modules has an user interface of the Back-end area through which a superuser can configure the service. The user interface adheres perfectly to the graphics and setting of the Back-end area and is accessible through a menu item Plugins. Moreover, It allows to configure, separately, the smtp server and the system senders addresses.

### Back-end Interface

This plugin provides user interface of the Back-end area accessible through a menu item Plugins, sub-menu eMail Management. There are two sub-items, the first leads to the SMTP server configuration page, the other leads to the Sender Configuration page.

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# Chapter 3. Plugin Installation and Integration

## Jpmail installation and integration

### Technical Specification

This plugin is *PurePlugin*, its installation doesn't modify any existing system function already present.

### The package

The package contains all the plugin directory (directory `doc`, `src` and the `Readme` file) defined by *jAPS2.0 Plugin Pattern* document.

In particular, the directory `src` is structured as described below:

- The `java` directory. It contains java sources and the jUnit tests for the plugin.
- The `sql` directory. It contains sql scripts for the `Port` and test databases.
- The `webapp` directory. It contains all the necessary files for the webapp. In particular, the directory contains files (`jsp`) related to user interfaces and configuration files themselves. It contains also Spring beans configuration (Business layers), Struts 2 configuration (Presentation layer) and the static resources for the plugin (`css`, `images` and `js`).

### Integration in Production Environment

From now we will use the name `myportal` when referring to your deployed jAPS 2.0 entando Application.

In order to execute the integration in a web application based on a jAPS 2.0 entando declared *compatible* with the plugin, follow this procedure:

#### Note

The integration activity must be performed after stopping the container.

- Copy the content of `src/webapp/WEB-INF/lib` directory, from the provided package, to `myportal/WEB-INF/lib/` directory.
- Create the directory `myportal/WEB-INF/plugins/` if it does not exist. Copy the content of `src/webapp/WEB-INF/plugins/` directory, from the provided package, to `myportal/WEB-INF/plugins/` just created.
- Execute the queries in `portScript.sql` file (`src/sql` directory in the provided package) in the `Port` db or your jAPS application.
- The script assumes `production` as value of `version`, modify It if version is different in the production environment. Modify also the `smtp` server configuration and sender addresses as needed.

### Installation in a Development Environment

From now we will use the name `myproject` when referring to your jAPS 2.0 entando Eclipse project.

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

- Copy the content of `src/webapp/WEB-INF/lib/` directory, from the provided package, to `myproject/WebContent/WEB-INF/lib/` directory excluding the jar of the plugin.
- Copy the content of `src/webapp/WEB-INF/plugins/` directory, from the provided package, to `myproject/WebContent/WEB-INF/plugins/` directory. If `myproject/WebContent/WEB-INF/plugins/` is not already present, create it.
- Copy the content of `src/webapp/resources/plugins/` directory, from the provided package, to `myproject/WebContent/resources/plugins/` directory.
- Execute the queries in `portScript.sql` file ( `src/sql` directory in the provided package) in the `Port` db or your jAPS application.

The script is assumes production as value of version (modify It if version is different in the db of your application). Modify also the smtp server configuration and sender addresses as needed.

- Execute the queries in `portTestScript.sql` file (`src/sql` directory in the provided package) in your test port db.
- Copy the content of `src/java/main/com` directory, from the provided package, to `myproject/src/com` directory.
- Copy the content of `src/java/test/test` directory, from the provided package, to `myproject/src/test`.
- If the file `myproject/src/japs-struts-plugin.xml` is already present, copy the content of `<struts>` tag from `src/java/main/jpphotogallery_japs-struts-plugin.xml` file, of the provided package, to existent `myproject/src/japs-struts-plugin.xml` file.

If the file `myproject/src/japs-struts-plugin.xml` is not already present, then copy the `src/java/main/jpphotogallery_japs-struts-plugin.xml` , from the provided package, to `myproject/src/` directory and rename it as `japs-struts-plugin.xml`.

- To verify proper sending of mails, in the jUnit tests, modify the `MAIL_ADDRESSES` constant of the `test.com.agiletec.plugins.jpmail.util.JpmailTestHelper.java` class.

After the steps just described, launch the Eclipse project and verify new menu items in the Back-end are present.



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# Chapter 4. Plugin configuration

## Configuration

The configuration parameters of this plugin are kept in the `Port` database of the current jAPS installation. This includes not only the host network configuration with all the related parameters (as shown below), but also a list of senders associated with an alphanumeric code.

The configuration is easily changed in the administration interface.

An example of the configuration:

```
<mailConfig>
  <senders>
    <sender code="CODE1">EMAIL1@EMAIL.COM</sender>
    <sender code="CODE2">EMAIL2@EMAIL.COM</sender>
  </senders>
  <smtp debug="true" >
    <host>out.virgilio.it</host>
    <user></user>
    <password></password>
    <security>tls</security> <!-- tls, ssl, std (the last for standard smtp)-->
  </smtp>
</mailConfig>
```

All these parameters are mandatory, except for the `debug` attribute that, when not present, is defaulted to "false".

In the interface `smtp` can be configured: Connection and Authentication. As for the connection are required: Required Host, Port and Timeout if blank get the default values respectively, 25 and 10000 milliseconds; Security can be impostanto SSL, TLS or anything, and you can choose to track send through the logs. Please leave Username and Password blank if the SMTP doesnt require authentication.

In the interface `Senders` there is the list of senders and the possibility to add, delete or modify the senders.

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