PEtALS Webconsole User Guide

This document describes the installation and usage of the web monitoring and administration application of PEtALS

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Structure of the document

This document describes the installation and the usage of the web console of PEtALS. It's designed for:

- The PEtALS administrator.
- The PEtALS user.
Chapter 1. Pre-requisites

Before installing the webconsole, make sure you have installed:

- A servlet container like Tomcat
- A PEtALS server up and running. The webconsole will NOT work with any PEtALS version older than 2.1.
- Web navigator Firefox 1.5 or later with Javascript activated.

To make the jUDDI part of the webconsole work, you must have jUDDI installed and running. If you haven't installed jUDDI yet, please follow the instructions here.
Chapter 2. Presentation of the webconsole

The webconsole is made of three parts:

- **Administration**: allows you to manage life cycles of components, service assemblies and shared libraries. In this section you can start/stop monitoring PEtALS and have several informations about any visible subdomain or server.

- **jUDDI**: in this section you can export any PEtALS service to jUDDI.

- **Monitoring**: Messages exchanges, queues status,...any monitoring information is available in this section.
Chapter 3. Installation

3.1. Installing the application

The webconsole is packaged as a war, you just have to deploy it in your servlet container.

For example, Tomcat users just have to copy the war to the "webapps" directory and wait for Tomcat to deploy the application.

Note: The PEtALS Quickstart distribution *doesn't need any installation step*, the webconsole is directly embedded in PEtALS and can be accessed via [http://localhost:7878](http://localhost:7878)

3.2. Accessing the application

Once deployed, the webconsole can be accessed in your web browser through the address [http://localhost:8080/petals-webconsole/](http://localhost:8080/petals-webconsole/)
Chapter 4. First launch

4.1. Starting the datacollector

The petals webconsole connects to an application that exposes all necessary functions to monitor and administrate PEtALS. This application is named "PEtALS Datacollector" and is, for now, embedded in the webconsole.

The first time you access the webconsole, you will need to configure and start the datacollector before any other action; ie tell the datacollector which PEtALS to connect to and collect the needed information.

Fill in the form like the screenshot below and click on the submit button to start the datacollector.

4.2. Configuring the datacollector

Once started, the datacollector can be configured and administrated through the left menu: click on the left menu to access the configuration panel or the details panel.

- **Queues listening**: each X seconds, the datacollector check all queues status and save them to its database if there's a non null value

- **Database configuration**: if there’s too many messages saved in the collector database, you can clear all or a part of them thanx the "empty database" button

- **PEtALS JMX connection**: if the datacollector lost its connection to PEtALS, you can make it try to reconnect X time every X ms. Default is 30 times every 10 seconds
4.3. Accessing the webconsole

Once the datacollector started, you can access the webconsole: click on the right link "webconsole" in the menubar to go to the console login page.

For now there's only 3 possible accounts:

- **petals/petals**: this user can access all pages without any restriction
- **admin/admin**: this user can only access administration and jUDDI pages
- **monitoring/monitoring**: this user can only access monitoring pages
Chapter 5. PEtALS Administration

5.1. Start / stop Components, service assemblies and shared libraries

The first thing you may want to do is to install a component, a service assembly or a service unit: the administration part of the webconsole allows you to do so in a few clicks. Just click on the selected action in the left menu to open the right panel.

5.2. Start / stop Monitoring

In the left menu, clicking on the domain, the subdomain or the server opens a panel with details about the selected element. On the server panel, you can choose to activate or deactivate monitoring. If you want the messages in PEtALS to be monitored in real time, you must activate the monitoring.
PEtALS Administration

The open source ESB solution for Services Oriented Architectures

PEtALS Administration - Server

Components:

- petals-cmpвлок (Enabled)
- petals-cmpвлок (Disabled)

Manage the server:

- Monitoring status: true - Message content shown: true
- Start monitoring server 0 with messages content
- Stop monitoring server 0 without messages content
- Stop monitoring server 0

Server properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>server name</td>
<td>0</td>
</tr>
<tr>
<td>server version</td>
<td>Petals ESB Container - version 2.1</td>
</tr>
<tr>
<td>server host</td>
<td>127.0.0.1</td>
</tr>
<tr>
<td>JMX-RMI port</td>
<td>7000</td>
</tr>
<tr>
<td>JMX-HTTP port</td>
<td>7000</td>
</tr>
<tr>
<td>server status</td>
<td>Started</td>
</tr>
<tr>
<td>JMX monitoring station</td>
<td>193.23.107.21</td>
</tr>
<tr>
<td>JMX monitoring port</td>
<td>7000</td>
</tr>
</tbody>
</table>
Chapter 6. Monitoring

6.1. Various statistics

The monitoring part offers various statistics on every subdomain, servers, components, endpoints... just click on an item in the left menu to display charts about it.

usually, there's two charts displayed

- **Messages Captures Per Second**: Each time a message go through a component, a capture of this message is saved. For example, each InOnly message exchange will have 6 captures (in, out, done counted for each component)

- **Message Repartition**: Message Exchanges repartition, depending on the selected element. for example, a domain will have the message repartition chart by server.
6.2. Entity details

Apart from message traffic, monitoring pages offers several information about the selected entity

- component : name, description, state, type, objectName, list of endpoints and queues status

- endpoint : interface, service, endpoint, component, server and associated wsdl

6.3. System information and queues

This section provides several about the system PEtALS is running on and about the different PEtALS queues.
6.4. Messages Exchanges

If you want to see what's transiting in PEtALS, you're in the good section.

The messages Exchanges part of the webconsole allows you to:

- list all monitored messages exchanges
6.5. Endpoints

The endpoints section displays several informations about all endpoints for a subdomain
Chapter 7. jUDDI

The jUDDI part of the application allows you to export PEtALS services to a jUDDI registry. For this, you must have jUDDI installed and deployed (for this, please report to the installation section).