



PORTAL USER MANUAL

WP5

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Abstract: This document provides a user manual for K-WfGrid project's web portal. It describes portal's software and hardware requirements, how to log into the portal and retrieval of user proxy certificate. It mentions the user interfaces of K-WfGrid components that are deployed in the portal, but does not provide any further details about their usage, which is described in user guides of respective components.

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2. INTRODUCTION

K-Wf Grid application portal provides convenient web based user interface for the tools and applications being developed in the context of the K-Wf Grid project.

Users with valid portal account can access various portal sections focused on K-Wf Grid's applications and associated knowledge, application monitoring and grid services.

The portal is built on the Gridsphere portal framework. The framework is an implementation of a portlet paradigm defined in JSR-168 Portlet API Specification – portlets are self-contained components generating just part of the portal page, independent from each other that are pluggable into the portal. The Gridsphere framework provides the environment for running the portlets, portlet state management, session management and various other tasks. The gist of the K-Wf Grid portal development lies in the development of the portlets providing user interfaces to various K-Wf Grid software components.

Currently supported portlets comprise following ones:

- **Credential Manager** – loads user's proxy certificate from MyProxy server.
- **Log Viewer** – displays Log4j log messages of various K-Wf Grid's components.
- **Workflow applet (GWUI)** – presents workflows from file or GWES.
- **User Assistant** – provides for knowledge sharing among users for workflow construction and execution. Initiates workflow construction based on user's requirements.
- **Knowledge Management** – shows the content of GOM.
- **Knowledge Assimilation** – simple testing interface to KAA service.
- **Collaboration** – interface for user discussions.
- **Monitoring and Analysis** – monitors the services of K-Wf Grid

2.1. ABBREVIATIONS AND ACRONYMS

GOM – Grid Organization Memory

GWUI – Grid Workflow User Interface

GWES – Grid Workflow Execution Service

JSR-168 – Java Specification Request regarding the portlets

KAA – Knowledge Assimilation Agent

Gridsphere – a portal framework used as a base for the project portal

2.2. REFERENCES AND SOURCE CODE

Current installation of the project's portal can be found at <https://portal.ui.sav.sk/kwfportal/gridsphere>.

Sources of portlets developed in the K-Wf Grid project can be downloaded from project's CVS server. It can be reached using any CVS client with CVS root configured as “:pserver:<user_name>@cvs.ui.sav.sk:/home/cvs”. Module to check out is “kwfgrid/portal/jsr-portlets”. Sources are also accessible using web browser at <http://cvs.ui.sav.sk/cgi-bin/cvsweb.cgi/kwfgrid/portal/jsr-portlets/src/net/kwfgrid/wp5/portal/jsr/>.

All documentation, sources, installation manual, developer manuals and other documentation for the Gridsphere portal framework can be found at <http://www.gridsphere.org>.

Installation and developer manuals for the project's components are located at project's BSCW server at <https://elbe.first.fhg.de/bscw/bscw.cgi/0/51314>.

3. PROTOTYPE USAGE

In order to use the portal, user needs an account that will be provided by portal administrator upon request (usually by email).

3.1. INSTALLING THE PROTOTYPE

Installation manual for the Gridsphere portal framework can be found at <http://www.gridisphere.org/gridisphere/gridisphere?cid=tutorials>.

Portlets are deployed to Gridsphere in groups called portlet applications. A portlet application usually appears as a separate main tab on the portal page. There are four portlet applications deployed in the portal:

- kwfgrid – main group of K-Wf Grid portlets containing user interfaces for Workflow, User assistant agent, GOM browser, components' log viewer and Knowledge assimilation
- kwfgrid-pma – performance analysis and monitoring portlets
- gridportlets – grid portlets from authors of Gridsphere portal framework. Currently, we use Credential manager only.

In order to deploy a portlet application to the portal a command “ant deploy” must be executed in portlet application's root directory where is also located a build.xml file. The deployment process requires valid installation of Apache ANT build tool version 1.6+.

3.2. RUNNING THE PROTOTYPE

3.2.1. Operating Requirements

3.2.1.1. Hardware requirements

For server running portal - machine capable of running Java Tomcat container.

For client machine accessing portal – machine capable of running graphical web browser.

- Pentium II or better processor
- At least 256MB RAM

3.2.1.2. Software requirements

Server: Java SDK 1.4.2+, Apache Tomcat 5.0+ application server, Apache Ant 1.6+. For additional requirements see the documentation for the Gridsphere portal.

Client: Any current graphical web browser with JavaScript support and Java 1.4.2+ plugin for certain applets.

3.2.1.3. Grid infrastructure requirements

MyProxy Credential Management Service (<http://grid.ncsa.uiuc.edu/myproxy/>) server has to be accessible for storage and retrieval of a user's grid proxy certificates. (A grid proxy certificate may be required for operation of some of the portlets.)

MyProxy server is currently installed on the machine `rosnicka.ui.savba.sk` as part of the Globus toolkit deployment.

3.3. BASIC OPERATION

3.3.1. Logging in

In your web browser, go to portal location. As of writing this document, it is <https://portal.ui.sav.sk/kwfportal>. You will see a page like on Figure 2-1. Type your login name and password to the fields circled on the figure.

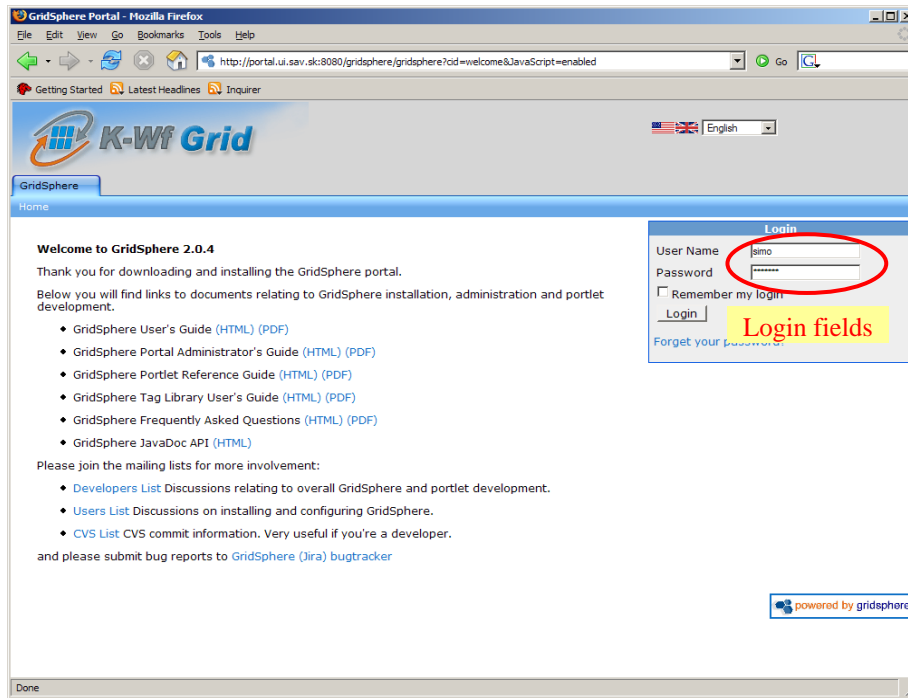


Fig. 3-1: Portal welcome page

In case you provided invalid name and/or password the login box will show an error message. Contact portal administrator if you will not be able to log-in at all. Access to cookies is not required by portal, although it is used if possible.

After successful login, you will see a *Settings* page like on Figure 2-2. Make sure, that all four portlet groups are checked in the *Configure group membership* section. If not, check them all and press the *Save* button. That will make all portlet groups available to you.

On the *Settings* page, you can also change your password and modify your user details.

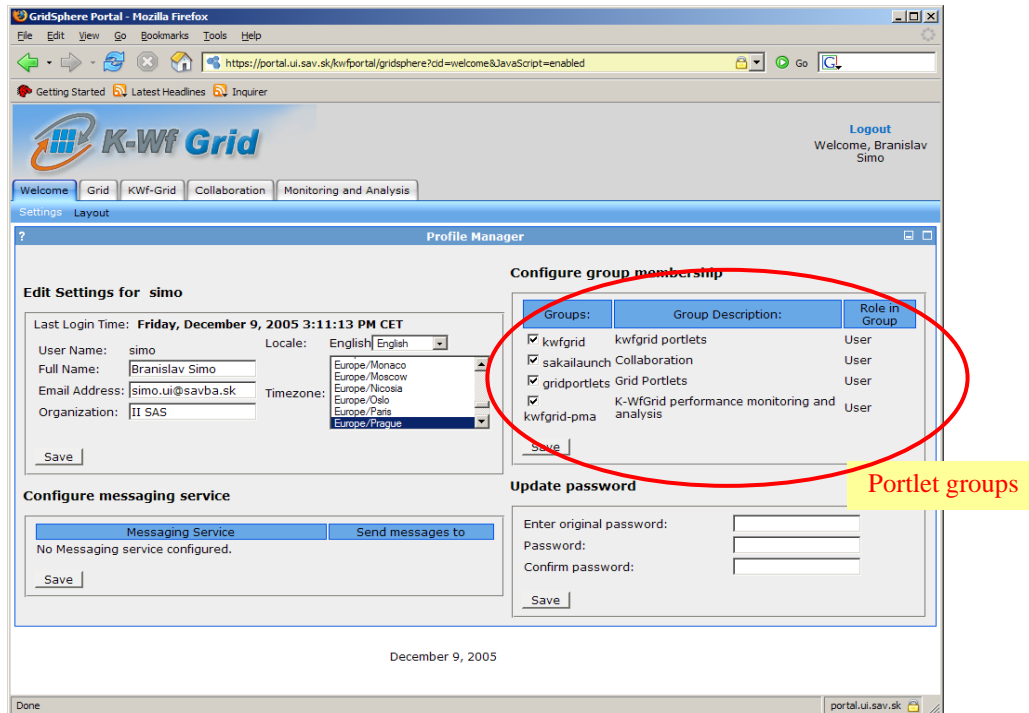


Fig. 3-2: After successful login

3.3.2. Getting proxy credentials

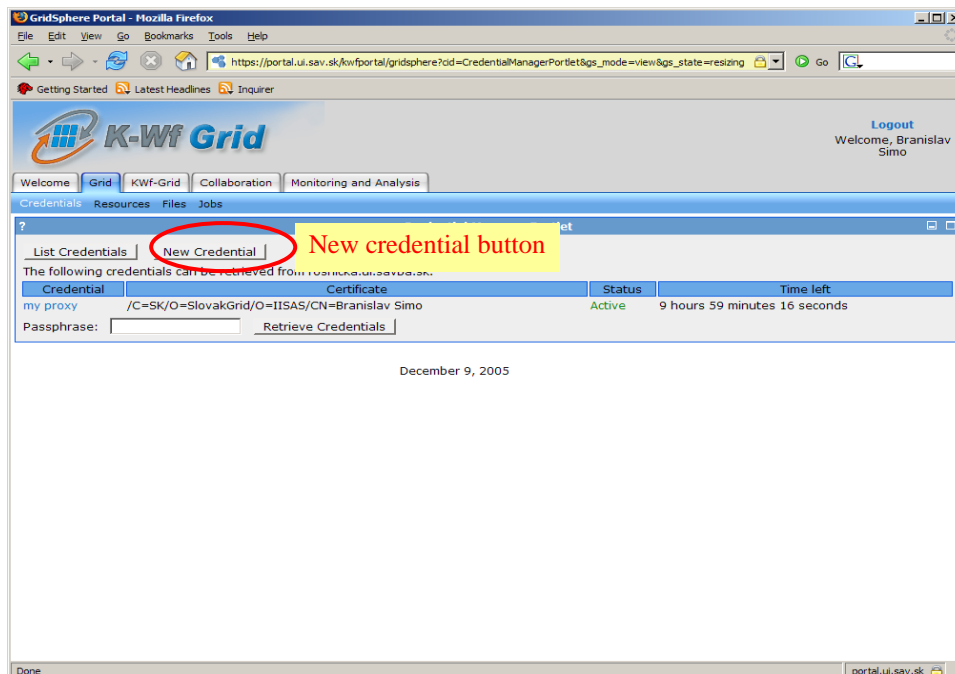


Fig. 3-3: Credential Manager portlet showing the list of loaded credentials

In order to work with portlets that require a grid proxy certificate, you have to load one. This can be done in the *Grid* tab, section *Credentials*. There is a *Credential manager portlet*, which shows a list of loaded credentials (see Figure 2-3). If there already is some proxy loaded, you can just enter the passphrase and click the *Retrieve credentials* button, in order to get renewed proxy.

Note: MyProxy server is currently installed on the machine *rosnicka.ui.savba.sk* as part of the Globus toolkit deployment. Short client user's guide can be found at <http://www.globus.org/toolkit/docs/4.0/security/myproxy/user-index.html>, which includes uploading the proxy certificate to the MyProxy server.

In order to load new proxy, press the *New credential* button. You will see a form like on Figure 2-4. Fill it in, providing any text, such as the label, user name that you used for storing the proxy certificate to the MyProxy server, optional credential name and passphrase.

Note: Make sure that the *Use Portal Credential* check box will be unchecked.

The screenshot shows a window titled "Credential Manager Portlet" with a subtitle "This credential can be retrieved from rosnicka.ui.savba.sk.". The form contains the following fields and options:

- Label:** * my proxy (Required: Label to display for credential in portal)
- User Name:** * simoa (Required: -l or --username option to myproxy-init)
- Credential Name:** name1 (Optional: -k or --credname option to myproxy-init)
- Passphrase:** * ***** (Required: Your credential repository password)
- Use Portal Credential:** (Leave checked to use the portal credential when retrieving your credential)
- Single Sign-On:** (Leave checked to sign-on to the portal with this credential)

Buttons for "Apply" and "Cancel" are at the bottom left. A red box on the right highlights the "Use Portal Credential" checkbox with the text "Must be unchecked".

Fig. 3-4: Form for retrieval of new proxy certificate

After successful proxy retrieval, you will see summary information about the retrieved proxy credential as on Figure 2-5. Press the *List credential* button to return to the starting view.

The screenshot shows a window titled "Credential Manager Portlet" with a subtitle "Credential Info". The form contains the following information:

- Use Portal Credential:**
- Single Sign-On:**
- Certificate:** /C=SK/O=SlovakGrid/O=IISAS/CN=Branislav Simo
- User Name:** simoa
- Credential Name:** name1
- Credential Label:** my proxy
- Passphrase:** [text box]

Below the "Credential Info" section is the "Credential Status" section:

- Credential Status:** active
- Time Remaining:** 1 seconds
- Date Created:** Friday, December 9, 2005 3:41:39 PM CET
- Last Retrieved:** Friday, December 9, 2005 3:41:39 PM CET

Fig. 3-5: Proxy certificate received

3.3.3. Log Viewer

The Log Viewer portlet (see Figure 2-6) is placed on the *KWf-Grid* tab and serves for the purpose of viewing log messages generated by various KWf Grid components.

On the top, you can select one of the components by pressing the link showing its name. Subsequently, you will be shown the list of log messages, the most recent on the top. When showing a log, there are several options shown as links below the component list:

- *Show older* – will show the last backup log file with logs generated just before the ones you are seeing
- *Reverse sort order* – will show the most recent log message on the bottom
- *Refresh* – refreshes the current list of log messages

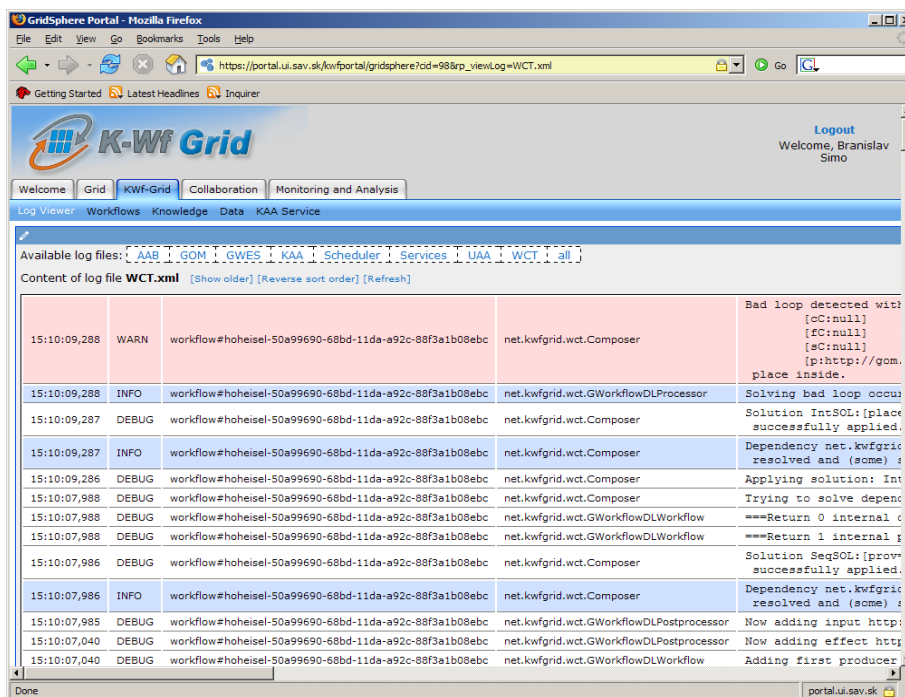


Fig. 3-6: Log Viewer portlet

Note: In order to add, remove or change available log files a configuration file has to be changed on the portal server.

3.3.4. Other sections

Other sections of the portal: Workflows, Knowledge, KAA Service on the *KWf-Grid* tab and the content of the *Monitoring and Analysis* tab are described in their respective user manuals.

3.4. KNOWN PROBLEMS

Sakai collaboration environment does not work embedded in the portal and must be launched in external window.

4. TROUBLESHOOTING Q&A

Q: I want an account on K-Wf Grid portal. What should I do?

A: Write an email to the portal administrator: branislav.simo@savba.sk

Q: I cannot log into the portal.

A: First, make sure that you are using correct user name and password. If you still cannot log in write an email to the portal administrator: branislav.simo@savba.sk

5. CONTACT INFORMATION AND CREDITS

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