



CrossGrid User Manual Guide

JIMS - the JMX-based Infrastructure Monitoring System

Task 3.3.3 - JIMS

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Abstract: This is the skeleton/example for a user manual for the software developed within the CrossGrid project.



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1 Introduction

Current JIMS version is 1.5.20. User manual for JIMS is available in the form of man pages for following JIMS applications:

- cg-jims-agent (cg-wp3.3.3-jims-agent-1.5.20-1.noarch.rpm)
- cg-jims-client (cg-wp3.3.3-jims-client-1.5.20-1.noarch.rpm)
- cg-jims-cli (cg-wp3.3.3-jims-client-1.5.20-1.noarch.rpm)

1.1 Product Usage

Please describe the mode of operation of your software. The exact structure of this chapter depends on the software being described; however it is recommended to start with a general description (avoid simply restating remarks from the introduction). Please refer the reader to the appropriate installation guide for installation instructions.

1.2 Running the Product

Please provide an overview of how the software in question is executed. This section can be subdivided as follows:

1.2.1 Operating Requirements

Please describe the type of infrastructure required for the product to operate, using the subsections below (in particular, describe the required Grid testbed configuration, restating the information present in the relevant installation manual: configuration files, startup scripts, user names, ports and security certificates required to run the product). Unless the product is a standalone piece of software, you should also describe what software needs to be available in order for the product to run correctly (for instance, the Migrating Desktop requires access to the Roaming Access Server, which this section should mention, possibly referring the reader to the appropriate user manual for RAS - see below).

Local hardware requirements

Describe requirements with respect to local hardware on which the product will run (system architecture, computing power, memory, mass storage etc.) Recommendations for optimal performance can also be included here.

Local software requirements

Describe the local software required for the product to operate (operating system version/revision, external software packages with version numbers).

Grid infrastructure requirements

Describe the required Grid infrastructure, which must be available in order for the product to operate in a meaningful fashion (this can include access to external computing/storage Elements, resource broker(s), specific external hardware platforms, security certificates etc.) Recommendations for optimal performance, especially with respect to network connectivity and bandwidth, can also be included here.

1.2.2 Step-by-step Setup

Please provide a stepwise, detailed description of the way in which the software is set up for user interaction (for instance, step 1: creating a security proxy; step 2: connecting to an appropriate URL; step 3: logging in, etc.) Be detailed. Include information on any potential errors and problems which may arise during execution of the software.

1.3 Basic Operation

Please describe how to utilize the software at a basic level (for instance, submitting simple jobs, querying the Grid infrastructure or obtaining basic monitoring info). Use examples wherever appropriate (it is possible to make use of examples already developed as part of your contribution to the CrossGrid tutorial, but make sure to follow consistent formatting throughout the document). Screenshots and/or other visual aids are highly recommended.

1.3.1 Advanced Features

Having enabled the user to make basic use of the software, please advance to more sophisticated functions of the product (for instance, submitting numerous jobs simultaneously or creating custom metrics). It is up to you to decide what constitutes an advanced feature; however the requirement for examples and visual aids still applies. Work by example (it is possible to make use of examples already developed as part of your contribution to the CrossGrid tutorial, but make sure to follow consistent formatting throughout the document).

2 Interface Reference Guide

Please provide an itemized description of the product user interface, if one exists. If the interface is a GUI, include screenshots for each interface element and describe each element (i.e. dialog box/window/menu) in a separate subsection. If the product provides a command-line interface, describe each command (preferably in an alphabetic manner), including syntax and usage examples.

3 Troubleshooting Q and A

This chapter is intended as an in-depth explanation of potential problems and errors which might occur during the use of the software. Use the generally accepted QA layout, for example: Q: Upon submission of a job, the scheduler returns an error stating that no suitable computing element could be found for execution. A: Your job may require resources which are currently not available in the production testbed. Please revise your .jdl file to match the resources currently being offered (you may want to check <http://someaddress.net> for a list of currently available computing elements, along with their status).

4 Contact Information and Credits

You may want to provide a list of people involved in the development of this software and provide a feedback channel (typically e-mail) for bug reporting and commenting on the product. This section is optional.

5 EDG License Agreement

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Bibliography

[QAP] WP5, CYRFRONET; **Quality Assurance Plan**; Evolving document