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GridLab - A Grid Application Toolkit and Testbed

Deliverable 4.3: Administration Portal

Author(s):	Michael Russell
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Lead Partner:	MPG
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Abstract: This document reports on GridLab Deliverable 4.3 (Administration Portal).

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1 Administration Portal

1.1 Status

The GridLab Administration Portal is up and running in its prototype form on the the GridLab Web site and can be accessed at <http://www.gridlab.org/WorkPackages/wp-5/testbed.html>. As of month 12, the GridLab Administration Portal consists of Web pages that provide a variety of information in tabular form on the resources that makeup the GridLab Testbed. Here one can browse the status of machines within the GridLab Testbed and other information pertaining to the GridLab Testbed. In general the information is either static or updated on an hourly basis. It's worth mentioning here that the same tools and page design that were used in the GridLab Administration Portal were used to develop the Web pages describing the Global Grid Testbed Collaboration, which was awarded the High-Performance Computing Challenge Award for the most distributed and heterogeneous testbed at SuperComputing 2002, Baltimore MD, USA. Further details can be obtained from <http://scb.ics.muni.cz/static/SC2002.html>.

1.2 Development

This year, in conjunction with the Administration Work Package (WP5), we will begin developing the GridLab Administration portlets. These portlets will be based on the GridLab Administration Web pages describe above and will enable us to support all GridLab administrative needs from one "GridLab Portal". We envision a cohesive, well-integrated GridLab Portal that in addition to serving virtual communities of application scientists, also serves the needs of administrators, developers, and service providers within the GridLab project. We can achieve this by developing portlets and portlet services that utilize the Grid Application Toolkit (GAT). The GridLab Administration portlets will provide functionality for publishing information about Grid resources, testing GridLab and other Grid services, as well as managing and configuring GridLab services. Access to the GridLab Administration portlets will be granted only to users that have been assigned the "GridLab Administration" role, where we intend to utilize the GridLab Authorization service for restricting administrative access to Grid service methods.