

Call for Community Testing: GT 3.9.2 WS GRAM Web Service Grid Resource Allocation and Management

What is a “Call for Community Testing”?


A Call for Community Testing is a mechanism to notify our users that new Globus code is available for testing in the field. Through these calls, the Globus Alliance hopes to expose its code to a wide variety of usage scenarios early in its development process. The ultimate goals are to catch bugs that have historically been found only after final releases, and to elicit feedback from the community on ways our software can be improved.

Participating in the GRAM Testing Call is Easy!

1. *Optional:* Consider sending mail to testing@globus.org to let us know that you’re helping out and describing what you intend to test
2. Install the software in a non-production environment: Use the 3.9.2 distribution from <http://www-unix.globus.org/toolkit/downloads/development/>; the code can also be retrieved directly from CVS using the tag **globus_3_9_2**.
3. Use GRAM as you normally would, simulating production job runs, etc.
4. Log your experiences in <http://bugzilla.globus.org/globus/> under GRAM, version “development”. Please mention 3.9.2 explicitly in the body of the report.
5. *Optional:* Consider sending descriptions of your tests to testing@globus.org so that we might use them to build standard tests in the future

If you have any questions or comments about the process, feel free to contact Bob Gaffaney at gaffaney@mcs.anl.gov or Lisa Childers at childers@mcs.anl.gov.

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About WS GRAM

WS GRAM is designed to simplify the use of remote systems by providing a single standard interface for requesting and using remote system resources for the execution of "jobs". The most common use (and the best supported use) of GRAM is remote job submission and control. This is typically used to support distributed computing applications.

Globus Toolkit releases include two versions of GRAM services: one based on a proprietary / Pre-Web Service protocol (Pre-WS GRAM) and another based on the Web Service protocol (WS GRAM). This testing call is for the new development included in the WS GRAM component.

Reasons for testing GRAM

Users should not expect this early version of WS GRAM to contain the stability and performance improvements planned for the 4.0 Final. However, the WS GRAM component in 3.9.2 contains the first cut at the new Web service interface for GRAM, based on WSRF. Comments and suggestions for improving the interface are sought.

The Resource Specification Language (RSL) schema has changed in this release. The set of RSL attributes (elements) has not changed significantly, but the RSL substitution definitions and substitution references have been removed in order to be able to use standard XML parsing/serialization tools. The functionality previously provided by RSL substitutions will be a new requirement for GRAM clients to perform. GRAM service-defined substitution values will be published, but a GRAM client will need to query for these values and edit the RSL accordingly before submitting the job.

Components affected by WS GRAM

1. None

Environment/build parameters and other special conditions to test

1. Provide feedback on the WSRF-based interaction model for WS GRAM (see <http://www-unix.globus.org/toolkit/docs/development/3.9.2/gram/interfaces.html> - [interaction](#) for more information.)

Release Notes

http://www-unix.globus.org/toolkit/docs/development/3.9.2/gram/release_notes.html

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