June 11, 2004
The Globus Alliance

Call for Community Testing:
GT 3.9.1 Java WSRF Core Preview

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 Java WSRF Core Preview 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. An installer is located at http://www-unix.globus.org/toolkit/downloads/development/; the code can also be retrieved directly from CVS using the tag **globus_3_9_1**
3. Exercise the software
4. Log your experiences in http://bugzilla.globus.org/globus/ under the "WS Core" product.
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.

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About the Java WSRF Core Preview

The Java WSRF Core Preview provides an early look at the Java web services implementation that will be included in the upcoming GT 4.0 release. It implements most features of the WS-RF and WS-BaseNotification suite of specifications. Furthermore, it contains tools for building stateful web services, a set of supporting services and sample code. Implementations of the higher-level GT services (i.e., RFT, GRAM, etc.) are not included in this release, but will appear in future GT releases.

In addition to the WSRF implementation, this release includes a first look at message-level security based on WS Security, XML Signature and Encryption as well as a Resolver Service.

Support is provided for specifying and enforcing authentication and authorization policy on the service and client. Features include: resource- and service-based security, declarative security at service end and APIs that provide developers with fine-grained control over security settings.

Please note that the message-level security protocols included in this release may change before 4.0 Final. A move to adopt the Apache WSS4J implementation for SOAP message security is currently under consideration by the Globus development team. Originally based on the Globus implementation, the Apache WSS4J library has since evolved and is now compliant with the final version of the Web Services security
standard from OASIS, ensuring future interoperability with other Web Services software stacks. As the two implementations are very similar, such a move would consist of little more than namespace changes.

The Resolver Service provides a mechanism for resolving a URI into a WS-Addressing endpoint reference. This gives users the ability to pass a URI to command line clients rather than having to somehow specify a full WS-Addressing endpoint reference.

Reasons for testing the Java WSRF Core Preview

The Java WSRF Core Preview constitutes the foundation for higher-level Java WSRF services. Early testing of this preview will provide important feedback as to its basic facility and integrity, and allow preview testers to make feature requests and contribute design ideas.

Components affected by the Java WSRF Core Preview

1. None to date

Environment/build parameters and other special conditions to test

1. The use of different JVMs
2. Interoperability tests
3. Various security policies on resource/service/client

Additional Documentation

http://www-unix.globus.org/toolkit/docs/development/wsrf/3.9.1/

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