
GT 4.2.1 Release Notes: RLS

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<titleabbrev>Release Note</titleabbrev>

1. Component Overview

The Replica Location Service (RLS) is a standalone server (i.e., it is not deployed in a Web services container) that provides for the registration and lookup of replica information. Within the RLS, there are two types of services, a catalog service and an index service.

2. Feature summary

Features New in GT 4.2.1

- None since GT 4.2.0.

Other Supported Features

- Comprehensive C and Java library for replica registration, replica lookup, replica attributes, index queries, and administrative tasks.
- Command line (`globus-rls-cli`) tool for client operations on catalogs and indexes.
- Command line (`globus-rls-admin`) tool for administrative tasks.

Deprecated Features

- None

3. Summary of Changes in RLS

- No changes since GT 4.2.0.

4. Bug Fixes

- [Bug 5999](#)¹: [WS-RLS] UndefineAttributeClient fails to set values for non-nullable parameters
- [Bug 6009](#)²: Failure to build on FreeBSD
- [Bug 6100](#)³: some bulk operations on attributes are no-ops
- [Bug 6103](#)⁴: RLS server crashes on 64-bit FC6
- [Bug 6104](#)⁵: getmethodargs does not protect against corrupt method or args

5. Known Problems

The following problems and limitations are known to exist for RLS at the time of the 4.2.1 release:

5.1. Limitations

- *Threading/Libc Problems*: set `LD_ASSUME_KERNEL=2.2.5` in your environment and see [Section 2, “Debian”](#) for more information.

5.2. Outstanding bugs

- *Threading/Libc Problems*: set `LD_ASSUME_KERNEL=2.2.5` in your environment and see [Platform Notes](#) for more information.
- [Bug 3656](#)⁶: ACLs cannot be modified dynamically
- [Bug 4141](#)⁷: regex call in auth.c's auth_getperms
- [Bug 4142](#)⁸: globus-rls-admin -s always indicates RLI does not exist
- [Bug 4512](#)⁹: RLS query returns incomplete result on 64bit system (*patch available*)
- [Bug 6085](#)¹⁰: RLS server crash with GLOBUSTHREAD: pthread_mutex_lock() failed
- [Bug 6239](#)¹¹: Wildcard queries with underscores don't work with SQLite
- [Bug 6322](#)¹²: RLS crash on a Sparc/Solaris 10 box (possible duplicate of bug 6356)
- [Bug 6356](#)¹³: RLS crash on x86/Solaris 10 box (*patch available*)

¹ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5999

² http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6009

³ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6100

⁴ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6103

⁵ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6104

⁶ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=3656

⁷ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=4141

⁸ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=4142

⁹ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=4512

¹⁰ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6085

¹¹ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6239

¹² http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6322

¹³ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6356

6. Technology dependencies

RLS depends on the following GT components:

- globus_core
- globus_common
- globus_io
- globus_gssapi_gsi
- globus_usage

RLS depends on the following 3rd party software:

- RDBMS: SQLite*, MySQL, PostgreSQL, or Oracle
- ODBC manager: iODBC, unixODBC
- ODBC driver: SQLite-ODBC*, MyODBC, psqLODBC, or Oracle

**The RLS comes installed with and configured to use these components.*

7. Tested platforms

Tested platforms for RLS include most 32-bit flavors of Linux and UNIX, including RedHat, Debian, CentOS, SUSE, Solaris/Sparc, Solaris/x86, and others.

8. Backward compatibility summary

Protocol changes since GT 4.0.x

- None

API changes since GT 4.0.x

- None

Exception changes since GT 4.0.x

- None

Schema changes since GT 4.0.x

- None

9. Associated Standards

Associated standards for RLS:

- The RLS is implemented as a conventional service and, as such, does not conform to the WSRF or other WS set of specifications.

10. For More Information

See [Replica Location Service \(RLS\)](#) for more information about this component.

Glossary