

GT 4.2.0 GRAM4: Quality Profile

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<titleabbrev>Quality Profile</titleabbrev>

1. Test coverage reports

- [4.2.0 Testing Status Report](#)¹

2. Code analysis reports

- No code analysis reports have been generated at this time.

3. Outstanding bugs

- [Bug 2250](#):²delegation required resource property
- [Bug 2578](#):³reliable state change notification
- [Bug 2579](#):⁴reliable state change notification
- [Bug 2623](#):⁵service summary/diagnostics
- [Bug 2624](#):⁶Multiple job hold states and parameterized release operation
- [Bug 2629](#):⁷performance timings in globusrun-ws
- [Bug 2734](#):⁸non-shared FS scheduler file list
- [Bug 3088](#):⁹Default Job Environment
- [Bug 3242](#):¹⁰Software selection thru WS GRAM RSL

¹ ../reports/tests/

² http://bugzilla.globus.org/globus/show_bug.cgi?id=2250

³ http://bugzilla.globus.org/globus/show_bug.cgi?id=2578

⁴ http://bugzilla.globus.org/globus/show_bug.cgi?id=2579

⁵ http://bugzilla.globus.org/globus/show_bug.cgi?id=2623

⁶ http://bugzilla.globus.org/globus/show_bug.cgi?id=2624

⁷ http://bugzilla.globus.org/globus/show_bug.cgi?id=2629

⁸ http://bugzilla.globus.org/globus/show_bug.cgi?id=2734

⁹ http://bugzilla.globus.org/globus/show_bug.cgi?id=3088

¹⁰ http://bugzilla.globus.org/globus/show_bug.cgi?id=3242

- [Bug 3569](#):¹¹Selectable jobType default per factory
- [Bug 3575](#):¹²SEG dependent on GLOBUS_LOCATION env var
- [Bug 3948](#):¹³Service must release all of its resources on deactivation
- [Bug 4009](#):¹⁴Use pbsdsh if available
- [Bug 4181](#):¹⁵Allow File Staging To/From globusrun-ws application without an external server
- [Bug 4791](#):¹⁶Job state history RP
- [Bug 5017](#):¹⁷gram[24] tests that need to be updated
- [Bug 5402](#):¹⁸invalid password error messages
- [Bug 5433](#):¹⁹public interface doc lists non-public/internal APIs
- [Bug 5484](#):²⁰Review and Update 4.2 GRAM doc
- [Bug 5510](#):²¹Reduction of notification consumers in WS-GRAM RFT interaction
- [Bug 5745](#):²²Allow users to specify JDD in a different order than RSL schema
- [Bug 5805](#):²³Change threadpools from Gram custom implementation to java.util.concurrent
- [Bug 5853](#):²⁴create automated tests for globus-job-*-ws programs
- [Bug 6019](#):²⁵CEDPS: Add executable path to log statement
- [Bug 6024](#):²⁶GRAM Audit v2
- [Bug 6102](#):²⁷GRAM4 throughput tester for 4.2
- [Bug 6109](#):²⁸Add ability for setuid programs to be plugged into GRAM4
- [Bug 6110](#):²⁹Add comments to GRAM4 service code for audit v2
- [Bug 6172](#):³⁰Bad error message for file not found

¹¹ http://bugzilla.globus.org/globus/show_bug.cgi?id=3569

¹² http://bugzilla.globus.org/globus/show_bug.cgi?id=3575

¹³ http://bugzilla.globus.org/globus/show_bug.cgi?id=3948

¹⁴ http://bugzilla.globus.org/globus/show_bug.cgi?id=4009

¹⁵ http://bugzilla.globus.org/globus/show_bug.cgi?id=4181

¹⁶ http://bugzilla.globus.org/globus/show_bug.cgi?id=4791

¹⁷ http://bugzilla.globus.org/globus/show_bug.cgi?id=5017

¹⁸ http://bugzilla.globus.org/globus/show_bug.cgi?id=5402

¹⁹ http://bugzilla.globus.org/globus/show_bug.cgi?id=5433

²⁰ http://bugzilla.globus.org/globus/show_bug.cgi?id=5484

²¹ http://bugzilla.globus.org/globus/show_bug.cgi?id=5510

²² http://bugzilla.globus.org/globus/show_bug.cgi?id=5745

²³ http://bugzilla.globus.org/globus/show_bug.cgi?id=5805

²⁴ http://bugzilla.globus.org/globus/show_bug.cgi?id=5853

²⁵ http://bugzilla.globus.org/globus/show_bug.cgi?id=6019

²⁶ http://bugzilla.globus.org/globus/show_bug.cgi?id=6024

²⁷ http://bugzilla.globus.org/globus/show_bug.cgi?id=6102

²⁸ http://bugzilla.globus.org/globus/show_bug.cgi?id=6109

²⁹ http://bugzilla.globus.org/globus/show_bug.cgi?id=6110

³⁰ http://bugzilla.globus.org/globus/show_bug.cgi?id=6172

4. Bug Fixes

- [Bug 2049](#).³¹ Batch providers need a namespace
- [Bug 2243](#).³² globus_scheduler_event_generator should use globus_extension
- [Bug 2306](#).³³ Unique job id as RSL substitution variable
- [Bug 2527](#).³⁴ Add a failure case for non-existent queue to scheduler test suite
- [Bug 2996](#).³⁵ ws-gram does not handle Windows paths in RSL's
- [Bug 3005](#).³⁶ Extra slashes stops PBS from mapping output files
- [Bug 3067](#).³⁷ globusrun-ws -dumprsl argument
- [Bug 3204](#).³⁸ InternalStateEnumeration schema cleanup
- [Bug 3212](#).³⁹ Rename RSLHelper and it's methods
- [Bug 3241](#).⁴⁰ Specifying multiple (node type
- [Bug 3372](#).⁴¹ -self option on globusrun-ws not passed to subjobs
- [Bug 3420](#).⁴² CAMPAIGN: WS-GRAM Command-line Client Tools
- [Bug 3534](#).⁴³ globusrun-ws needs a -release option
- [Bug 3540](#).⁴⁴ Throughput Tester hanging
- [Bug 3571](#).⁴⁵ ant not found during install
- [Bug 3629](#).⁴⁶ new tests to improve code coverage
- [Bug 3740](#).⁴⁷ Recovery INFO lines with full EPRs instead of resource IDs
- [Bug 3766](#).⁴⁸ CAMPAIGN: WS-GRAM Job Description Extensions Handling Support
- [Bug 3773](#).⁴⁹ ws gram job description extensions for condor

³¹ http://bugzilla.globus.org/globus/show_bug.cgi?id=2049

³² http://bugzilla.globus.org/globus/show_bug.cgi?id=2243

³³ http://bugzilla.globus.org/globus/show_bug.cgi?id=2306

³⁴ http://bugzilla.globus.org/globus/show_bug.cgi?id=2527

³⁵ http://bugzilla.globus.org/globus/show_bug.cgi?id=2996

³⁶ http://bugzilla.globus.org/globus/show_bug.cgi?id=3005

³⁷ http://bugzilla.globus.org/globus/show_bug.cgi?id=3067

³⁸ http://bugzilla.globus.org/globus/show_bug.cgi?id=3204

³⁹ http://bugzilla.globus.org/globus/show_bug.cgi?id=3212

⁴⁰ http://bugzilla.globus.org/globus/show_bug.cgi?id=3241

⁴¹ http://bugzilla.globus.org/globus/show_bug.cgi?id=3372

⁴² http://bugzilla.globus.org/globus/show_bug.cgi?id=3420

⁴³ http://bugzilla.globus.org/globus/show_bug.cgi?id=3534

⁴⁴ http://bugzilla.globus.org/globus/show_bug.cgi?id=3540

⁴⁵ http://bugzilla.globus.org/globus/show_bug.cgi?id=3571

⁴⁶ http://bugzilla.globus.org/globus/show_bug.cgi?id=3629

⁴⁷ http://bugzilla.globus.org/globus/show_bug.cgi?id=3740

⁴⁸ http://bugzilla.globus.org/globus/show_bug.cgi?id=3766

⁴⁹ http://bugzilla.globus.org/globus/show_bug.cgi?id=3773

- [Bug 3775](#).⁵⁰ CAMPAIGN: Investigate job info from schedulers
- [Bug 3778](#).⁵¹ WS-GRAM dependant on GT2 job manager
- [Bug 3801](#).⁵² condor commands need CONDOR_CONFIG
- [Bug 3842](#).⁵³ stdoutUrl and stderrUrl resource properties being set repeatedly
- [Bug 3905](#).⁵⁴ NPE in state transition
- [Bug 3909](#).⁵⁵ IllegalMonitorStateException
- [Bug 3967](#).⁵⁶ CAMPAIGN: WS-GRAM TeraGrid SoftEnv Extensions
- [Bug 4154](#).⁵⁷ a few gram scheduler tests from the trunk are broken
- [Bug 4211](#).⁵⁸ -Sf and -Tf options not working for multi jobs
- [Bug 4312](#).⁵⁹ WS GRAM resourceAllocationGroup bug
- [Bug 4518](#).⁶⁰ SEG issues DONE for FAILED jobs
- [Bug 4664](#).⁶¹ performance improvements for large run job submissions using condor-g
- [Bug 4687](#).⁶² Notifications from RFT to WS-GRAM
- [Bug 4729](#).⁶³ Add local_job_id RP
- [Bug 4748](#).⁶⁴ Adding a submit-site chosen job name to the remote job manager
- [Bug 4749](#).⁶⁵ client receives no state notifications if RSL gram:count is big
- [Bug 4785](#).⁶⁶ globus-scheduler-provider-fork return wrong information - Solved
- [Bug 5016](#).⁶⁷ globusrun-ws fails due to formatting issues in factoryEndpoint element
- [Bug 5247](#).⁶⁸ job cancellation can lead to container hanging
- [Bug 5512](#).⁶⁹ Review synchronization in MJFS.createManagedJob()

⁵⁰ http://bugzilla.globus.org/globus/show_bug.cgi?id=3775

⁵¹ http://bugzilla.globus.org/globus/show_bug.cgi?id=3778

⁵² http://bugzilla.globus.org/globus/show_bug.cgi?id=3801

⁵³ http://bugzilla.globus.org/globus/show_bug.cgi?id=3842

⁵⁴ http://bugzilla.globus.org/globus/show_bug.cgi?id=3905

⁵⁵ http://bugzilla.globus.org/globus/show_bug.cgi?id=3909

⁵⁶ http://bugzilla.globus.org/globus/show_bug.cgi?id=3967

⁵⁷ http://bugzilla.globus.org/globus/show_bug.cgi?id=4154

⁵⁸ http://bugzilla.globus.org/globus/show_bug.cgi?id=4211

⁵⁹ http://bugzilla.globus.org/globus/show_bug.cgi?id=4312

⁶⁰ http://bugzilla.globus.org/globus/show_bug.cgi?id=4518

⁶¹ http://bugzilla.globus.org/globus/show_bug.cgi?id=4664

⁶² http://bugzilla.globus.org/globus/show_bug.cgi?id=4687

⁶³ http://bugzilla.globus.org/globus/show_bug.cgi?id=4729

⁶⁴ http://bugzilla.globus.org/globus/show_bug.cgi?id=4748

⁶⁵ http://bugzilla.globus.org/globus/show_bug.cgi?id=4749

⁶⁶ http://bugzilla.globus.org/globus/show_bug.cgi?id=4785

⁶⁷ http://bugzilla.globus.org/globus/show_bug.cgi?id=5016

⁶⁸ http://bugzilla.globus.org/globus/show_bug.cgi?id=5247

⁶⁹ http://bugzilla.globus.org/globus/show_bug.cgi?id=5512

- [Bug 5513](#).⁷⁰ Persisting a StagingFaultType with local invocations to RFT enabled fails
- [Bug 5598](#).⁷¹ LocalInvocationHelper: wrong way of getting container configuration values
- [Bug 5671](#).⁷² Problem with notification message type in ws-rendezvous
- [Bug 5672](#).⁷³ Problem with notification message type in ws-gram
- [Bug 5682](#).⁷⁴ Change name of topic in ws-gram currently known as RP_STATE
- [Bug 5683](#).⁷⁵ Error in subject creation in LocalInvocationHelper
- [Bug 5695](#).⁷⁶ problem with local user id and streaming in globusrun-ws
- [Bug 5744](#).⁷⁷ Add a default factory
- [Bug 5767](#).⁷⁸ Removing notification wrapper types from globusrun-ws code
- [Bug 5799](#).⁷⁹ adjust globusrun-ws to changes in release method in gram in GT4.2
- [Bug 5800](#).⁸⁰ adjust globusrun-ws to changes in job termination in gram in GT4.2
- [Bug 5801](#).⁸¹ adjust globusrun-ws to not destroy subscription resources in GT4.2
- [Bug 5802](#).⁸² adjust default termination time in globusrun-ws in GT4.2
- [Bug 5803](#).⁸³ Change of lifetime policy in gram4's job resources.
- [Bug 5804](#).⁸⁴ Destroy subscription resources of a job at the end of processing
- [Bug 5806](#).⁸⁵ Change of GramJob.setDuration()
- [Bug 5830](#).⁸⁶ Don't fetch a delegated job credential during job creation
- [Bug 5832](#).⁸⁷ Remove InternalStateEnumeration from schema in Gram 4.2
- [Bug 5833](#).⁸⁸ Setting termination time on MultiJob resources
- [Bug 5834](#).⁸⁹ QName change of the state change topic of job resources

⁷⁰ http://bugzilla.globus.org/globus/show_bug.cgi?id=5513

⁷¹ http://bugzilla.globus.org/globus/show_bug.cgi?id=5598

⁷² http://bugzilla.globus.org/globus/show_bug.cgi?id=5671

⁷³ http://bugzilla.globus.org/globus/show_bug.cgi?id=5672

⁷⁴ http://bugzilla.globus.org/globus/show_bug.cgi?id=5682

⁷⁵ http://bugzilla.globus.org/globus/show_bug.cgi?id=5683

⁷⁶ http://bugzilla.globus.org/globus/show_bug.cgi?id=5695

⁷⁷ http://bugzilla.globus.org/globus/show_bug.cgi?id=5744

⁷⁸ http://bugzilla.globus.org/globus/show_bug.cgi?id=5767

⁷⁹ http://bugzilla.globus.org/globus/show_bug.cgi?id=5799

⁸⁰ http://bugzilla.globus.org/globus/show_bug.cgi?id=5800

⁸¹ http://bugzilla.globus.org/globus/show_bug.cgi?id=5801

⁸² http://bugzilla.globus.org/globus/show_bug.cgi?id=5802

⁸³ http://bugzilla.globus.org/globus/show_bug.cgi?id=5803

⁸⁴ http://bugzilla.globus.org/globus/show_bug.cgi?id=5804

⁸⁵ http://bugzilla.globus.org/globus/show_bug.cgi?id=5806

⁸⁶ http://bugzilla.globus.org/globus/show_bug.cgi?id=5830

⁸⁷ http://bugzilla.globus.org/globus/show_bug.cgi?id=5832

⁸⁸ http://bugzilla.globus.org/globus/show_bug.cgi?id=5833

⁸⁹ http://bugzilla.globus.org/globus/show_bug.cgi?id=5834

- [Bug 5835](#).⁹⁰ New operation providers for Gram4
- [Bug 5836](#).⁹¹ Change in persistence behavior of Gram4 job resources
- [Bug 5837](#).⁹² Change processing the restart state of resources in a container start
- [Bug 5838](#).⁹³ Share a threadpool for SEG event processing
- [Bug 5839](#).⁹⁴ Finish currently running state processing tasks in an orderly JVM shutdown
- [Bug 5840](#).⁹⁵ Adding priorities to internal job states regarding processing order
- [Bug 5841](#).⁹⁶ StateMachine is unreadable and hardly maintainable
- [Bug 5842](#).⁹⁷ Adapt tests of gram4 to changes in 4.2
- [Bug 5852](#).⁹⁸ Make use of default factory resource in job submission with globusrun-ws
- [Bug 5858](#).⁹⁹ Fix host authorization in GRAM4
- [Bug 5927](#).¹⁰⁰ Cloning EPR's from stubs before storing them
- [Bug 5929](#).¹⁰¹ Log an info statement when factory returns EPR of existing job
- [Bug 5931](#).¹⁰² Make SchedulerEventGenerator.run() (Java) more robust
- [Bug 5936](#).¹⁰³ Make job creation slimmer
- [Bug 5957](#).¹⁰⁴ one rendezvous test fails
- [Bug 5958](#).¹⁰⁵ Exceptions ws-gram recovery
- [Bug 5959](#).¹⁰⁶ globusrun-ws error in job with invalid staging request
- [Bug 5986](#).¹⁰⁷ New fault type for job resource expiration
- [Bug 5995](#).¹⁰⁸ globusrun-ws problems with extensions element in job description
- [Bug 6004](#).¹⁰⁹ adapt globusrun-ws to handle new faults and change of RP fault to array

⁹⁰ http://bugzilla.globus.org/globus/show_bug.cgi?id=5835

⁹¹ http://bugzilla.globus.org/globus/show_bug.cgi?id=5836

⁹² http://bugzilla.globus.org/globus/show_bug.cgi?id=5837

⁹³ http://bugzilla.globus.org/globus/show_bug.cgi?id=5838

⁹⁴ http://bugzilla.globus.org/globus/show_bug.cgi?id=5839

⁹⁵ http://bugzilla.globus.org/globus/show_bug.cgi?id=5840

⁹⁶ http://bugzilla.globus.org/globus/show_bug.cgi?id=5841

⁹⁷ http://bugzilla.globus.org/globus/show_bug.cgi?id=5842

⁹⁸ http://bugzilla.globus.org/globus/show_bug.cgi?id=5852

⁹⁹ http://bugzilla.globus.org/globus/show_bug.cgi?id=5858

¹⁰⁰ http://bugzilla.globus.org/globus/show_bug.cgi?id=5927

¹⁰¹ http://bugzilla.globus.org/globus/show_bug.cgi?id=5929

¹⁰² http://bugzilla.globus.org/globus/show_bug.cgi?id=5931

¹⁰³ http://bugzilla.globus.org/globus/show_bug.cgi?id=5936

¹⁰⁴ http://bugzilla.globus.org/globus/show_bug.cgi?id=5957

¹⁰⁵ http://bugzilla.globus.org/globus/show_bug.cgi?id=5958

¹⁰⁶ http://bugzilla.globus.org/globus/show_bug.cgi?id=5959

¹⁰⁷ http://bugzilla.globus.org/globus/show_bug.cgi?id=5986

¹⁰⁸ http://bugzilla.globus.org/globus/show_bug.cgi?id=5995

¹⁰⁹ http://bugzilla.globus.org/globus/show_bug.cgi?id=6004

- [Bug 6027](#):¹¹⁰ delegated user proxy job file is not being removed
- [Bug 6028](#):¹¹¹ globusrun-ws fails in termination in special situation
- [Bug 6071](#):¹¹² info about how to disable an already installed LRM adapter is missing
- [Bug 6116](#):¹¹³ Limited delegation in tests for MultiJobs not sufficient
- [Bug 6117](#):¹¹⁴ Error in termination of jobs in internal state None
- [Bug 6131](#):¹¹⁵ 4.2 rc2 GRAM4 server doesn't send usage packets
- [Bug 6134](#):¹¹⁶ GT4.2 RC2: error reporting in globusrun-ws
- [Bug 6138](#):¹¹⁷ Interrupt staging if jobs are terminated and staging is active
- [Bug 6139](#):¹¹⁸ Deadlock situation in job termination
- [Bug 6140](#):¹¹⁹ tagging response handlers destroy transfers if they are still active
- [Bug 6141](#):¹²⁰ Getting the service hosts in DelegatedCredentialDestroyHelper is ambiguous

5. Performance reports

- No code performance reports have been generated at this time.

¹¹⁰ http://bugzilla.globus.org/globus/show_bug.cgi?id=6027

¹¹¹ http://bugzilla.globus.org/globus/show_bug.cgi?id=6028

¹¹² http://bugzilla.globus.org/globus/show_bug.cgi?id=6071

¹¹³ http://bugzilla.globus.org/globus/show_bug.cgi?id=6116

¹¹⁴ http://bugzilla.globus.org/globus/show_bug.cgi?id=6117

¹¹⁵ http://bugzilla.globus.org/globus/show_bug.cgi?id=6131

¹¹⁶ http://bugzilla.globus.org/globus/show_bug.cgi?id=6134

¹¹⁷ http://bugzilla.globus.org/globus/show_bug.cgi?id=6138

¹¹⁸ http://bugzilla.globus.org/globus/show_bug.cgi?id=6139

¹¹⁹ http://bugzilla.globus.org/globus/show_bug.cgi?id=6140

¹²⁰ http://bugzilla.globus.org/globus/show_bug.cgi?id=6141