

caGrid Development Monthly Technical Status Report – October 2011

This report covers the progress made in the ongoing development of caGrid under Statement of Work 28XS097 during the month of October 2011 and has been prepared following the requirements of section 4.1.3 of that S.O.W.

Issues Resolved

The following issues were moved into the “resolved” status in the caGrid Jira tracker during the period of October 1st to October 31st. Version numbers of “caGrid 1.5” refer to the next release of caGrid which supports SHA 2 certificates; Version numbers of “caGrid 1.6” refer to a future release.

Issue Type	Key	Summary	Resolution	Affects Version/s
New Feature	CAGRID-794	Upgraders for SDK 4.2 data services from 1.5 and 1.4 to 1.6	Fixed	caGrid 1.3, caGrid 1.4, caGrid 1.5, caGrid 1.6
New Feature	CAGRID-768	Support for JBoss 5.1.x running wsrf grid services	Duplicate	caGrid 1.6
New Feature	CAGRID-767	WS-Enumeration extension upgraders from 1.4 and 1.5 to 1.6	Fixed	caGrid 1.4, caGrid 1.5, caGrid 1.6
New Feature	CAGRID-754	Upgraders for SDK 4.4 data services from 1.4 to 1.5 and 1.6	Fixed	caGrid 1.4, caGrid 1.5, caGrid 1.6
Task	CAGRID-733	Project Summary Report for 28XS097	Fixed	Sprint 2011_09_26-2011_10_07
Sub-Task	CAGRID-731	CAGRID-728 Technical Status Report for September 2011	Fixed	Sprint 2011_08_29-2011_09_09, Sprint 2011_09_12-2011_09_23, Sprint 2011_09_26-2011_10_07
Sub-Task	CAGRID-726	CAGRID-723 Technical Project Plan Update for September 2011	Fixed	Sprint 2011_08_29-2011_09_09, Sprint 2011_09_12-2011_09_23, Sprint 2011_09_26-2011_10_07
Bug	CAGRID-696	Fix Globus wsrf app ThreadLocal memory leak	Won't Fix	caGrid 1.6
New Feature	CAGRID-693	Add limit query support to CQL2	Duplicate	caGrid 1.4
New Feature	CAGRID-666	Back-port the SDK 4.4 data service style to caGrid /	Won't Fix	caGrid 1.3

		introduce 1.3		
Sub-Task	CAGRID-649	CAGRID-537 Remove unnecessary upgrade from SDK 4.4	Fixed	caGrid 1.4, caGrid 1.6
New Feature	CAGRID-638	Add Authentication Service 'runClient' target	Won't Fix	
New Feature	CAGRID-628	Add ability user to delegate credential to a service in the Credential Delegation dialog	Won't Fix	
Task	CAGRID-505	Investigate use of Mozilla Rhino Javascript engine to parse PAC files	Won't Fix	General Investigation
Task	CAGRID-468	Change Dorian configuration to allow users to modify their profile	Won't Fix	caGrid 1.4, Sprint 2010_8_2-2010_8_13
New Feature	CAGRID-454	Update the mapping extension to use caCORE SDK v4.2 and v4.3	Duplicate	caGrid 1.4
Sub-Task	CAGRID-108	CAGRID-83 Investigate feasibility/impact of MySQL 5.1.x	Fixed	General Investigation, caGrid 1.6
Sub-Task	CAGRID-103	CAGRID-83 Investigate feasibility/impact of JBoss 5.1.x as a deployment container	Fixed	caGrid 1.6
Sub-Task	CAGRID-32	CAGRID-31 Deploy a service to EC2 using the caGrid AMI	Won't Fix	General Investigation
New Feature	CAGRID-31	Create caGrid Amazon Machine Image for use on EC2	Won't Fix	General Investigation

New Issues Identified

The following issues were added to the Jira tracker during the period of October 1st to October 31st. Note that the term “issue” is somewhat generic in Jira, and encompasses bugs, new features, tasks, etc.

Issue Type	Key	Summary	Status	Affects Version/s
Bug	CAGRID-799	NCI Production LDAP Authentication Service allows user IDs with garbage appended	On Hold	
New Feature	CAGRID-797	Group Search	Open	
Improvement	CAGRID-796	Update Dorian to allow reissuing a dorian host certificate when it has expired	Open	caGrid 1.3, caGrid 1.4
New Feature	CAGRID-795	Update authentication Service to include configurable lockout settings	In Progress	caGrid 1.4, caGrid 1.5, caGrid 1.6

Releases of the caGrid Software

No releases of the software were made during the reporting period. With the reduced funding levels for development activities across the NCI and especially within the caBIG program, it is unlikely that a release will be made of the caGrid software in the near future, as this would require other project teams to upgrade their products.

A patched version of the csmapi jar which should fix bug CAGRID-799 (NCI Production LDAP Authentication Service allows user IDs with garbage appended) was created and sent to the NCI for testing in the stage and QA tiers.

Presentations, Documentation Updates, Community Communication

The development team continues to interact with the user community and Knowledge Center, which facilitates community support and requirements gathering.

As expressed in the August update of this document, the caGrid 1.5 development grid with SHA 2 certificates has been created and a community announcement regarding it has been drafted. As described in the “Releases” section, the dev team believes that development of the SHA 2 support release is substantially complete. The dev team is awaiting approval of CBIIT to go ahead with the formal public announcement of the development and testing grid installation.

Outstanding Issues Being Actively Worked

Numerous issues are being actively worked by the development team, as identified in the section “New Issues Identified” with the status “In Progress”. Since this report is a snapshot and issues being worked will change frequently, interested parties are advised to monitor the caGrid development Jira tracker at <https://tracker.nci.nih.gov/browse/CAGRID>. Long running issues being worked include the following:

- [CAGRID-540](#)
 - The overarching SHA 2 implementation task
 - See the above information regarding the development grid.
- [CAGRID-799](#) and [CAGRID-795](#)
 - These issues require extensive changes to the CSM API jar.
 - To best manage those changes, the csmapi codebase was brought in to the caGrid SVN repository
 - <https://ncisvn.nci.nih.gov/svn/cagrid/trunk/cagrid/Software/general/external/csmapi-32/api/>
 - A continuous integration build was created for this project as well
 - <http://quality.cagrid.org/job/caGrid-CSMAPI-3.2-Matrix/>
 - Testing CAGRID-799 has proven very difficult, since the development team does not have access to the NCI’s LDAP, and our local LDAP instance does not exhibit the same behavior.
 - The changes required to the authentication service to allow whitelisting of user accounts (CAGRID-795) is being backported to the caGrid 1.4 and 1.5 releases from the trunk. Subtasks of CAGRID-795 exist to track this work.

Critical Risks or External Dependencies

- The caGrid 1.5 with SHA 2 support development grid has been deployed at Ohio State, and is awaiting approval of a community announcement.
 - The SHA 2 support upgrade will require downstream products to upgrade and work through any issues encountered. The sooner they are able to test their products with the new version of the grid, the cleaner and more robust the final release will be.
- The de-scoped and scaled down development of caGrid will make it difficult to deliver new features that customers and users have requested in a timely manner.
 - This delay may cause them to abandon the grid entirely, or find alternative solutions to their use cases.
 - A mechanism for quicker support and feature addition releases could be researched and identified with the understanding that the only such changes made under this model wouldn’t impact the deployment of the production grid, which requires significant coordination and advance scheduling.