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.

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| --- | --- | --- | --- | --- |
| **Issue Type** | **Key** | **Summary** | **Resolution** | **Affects Version/s** |
| New Feature | [CAGRID-794](https://tracker.nci.nih.gov/browse/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](https://tracker.nci.nih.gov/browse/CAGRID-768) | Support for JBoss 5.1.x running wsrf grid services | Duplicate | caGrid 1.6 |
| New Feature | [CAGRID-767](https://tracker.nci.nih.gov/browse/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](https://tracker.nci.nih.gov/browse/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](https://tracker.nci.nih.gov/browse/CAGRID-733) | Project Summary Report for 28XS097 | Fixed | Sprint 2011\_09\_26-2011\_10\_07 |
| Sub-Task | [CAGRID-731](https://tracker.nci.nih.gov/browse/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](https://tracker.nci.nih.gov/browse/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](https://tracker.nci.nih.gov/browse/CAGRID-696) | Fix Globus wsrf app ThreadLocal memory leak | Won't Fix | caGrid 1.6 |
| New Feature | [CAGRID-693](https://tracker.nci.nih.gov/browse/CAGRID-693) | Add limit query support to CQL2 | Duplicate | caGrid 1.4 |
| New Feature | [CAGRID-666](https://tracker.nci.nih.gov/browse/CAGRID-666) | Back-port the SDK 4.4 data service style to caGrid / introduce 1.3 | Won't Fix | caGrid 1.3 |
| Sub-Task | [CAGRID-649](https://tracker.nci.nih.gov/browse/CAGRID-649) | CAGRID-537 Remove unnecessary upgrade from SDK 4.4 | Fixed | caGrid 1.4, caGrid 1.6 |
| New Feature | [CAGRID-638](https://tracker.nci.nih.gov/browse/CAGRID-638) | Add Authentication Service 'runClient' target | Won't Fix |  |
| New Feature | [CAGRID-628](https://tracker.nci.nih.gov/browse/CAGRID-628) | Add ability user to delegate credential to a service in the Credential Delegation dialog | Won't Fix |  |
| Task | [CAGRID-505](https://tracker.nci.nih.gov/browse/CAGRID-505) | Investigate use of Mozilla Rhino Javascript engine to parse PAC files | Won't Fix | General Investigation |
| Task | [CAGRID-468](https://tracker.nci.nih.gov/browse/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](https://tracker.nci.nih.gov/browse/CAGRID-454) | Update the mapping extension to use caCORE SDK v4.2 and v4.3 | Duplicate | caGrid 1.4 |
| Sub-Task | [CAGRID-108](https://tracker.nci.nih.gov/browse/CAGRID-108) | CAGRID-83 Investigate feasibility/impact of MySQL 5.1.x | Fixed | General Investigation, caGrid 1.6 |
| Sub-Task | [CAGRID-103](https://tracker.nci.nih.gov/browse/CAGRID-103) | CAGRID-83 Investigate feasibility/impact of JBoss 5.1.x as a deployment container | Fixed | caGrid 1.6 |
| Sub-Task | [CAGRID-32](https://tracker.nci.nih.gov/browse/CAGRID-32) | CAGRID-31 Deploy a service to EC2 using the caGrid AMI | Won't Fix | General Investigation |
| New Feature | [CAGRID-31](https://tracker.nci.nih.gov/browse/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](https://tracker.nci.nih.gov/browse/CAGRID-799) | NCI Production LDAP Authentication Service allows user IDs with garbage appended | On Hold |  |
| New Feature | [CAGRID-797](https://tracker.nci.nih.gov/browse/CAGRID-797) | Group Search | Open |  |
| Improvement | [CAGRID-796](https://tracker.nci.nih.gov/browse/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](https://tracker.nci.nih.gov/browse/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](https://tracker.nci.nih.gov/browse/CAGRID-540)
  + The overarching SHA 2 implementation task
    - See the above information regarding the development grid.
* [CAGRID-799](https://tracker.nci.nih.gov/browse/CAGRID-799) and [CAGRID-795](https://tracker.nci.nih.gov/browse/CAGRID-795)
  + These issues require extensive changes to the CSMAPI 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.