caGrid Development Monthly Technical Status Report – July 2011

This report covers the progress made in the ongoing development of caGrid under Statement of Work *28XS097* during the month of July 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 July 1st to July 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** |
| Sub-Task | [CAGRID-107](https://tracker.nci.nih.gov/browse/CAGRID-107) | CAGRID-83 Unify use of Spring to version 2.5.6 | Won't Fix | caGrid 1.6 |
| Sub-Task | [CAGRID-508](https://tracker.nci.nih.gov/browse/CAGRID-508) | CAGRID-540 Update Authentication Service to use/issue SHA-256 encrypted certificates | Fixed |  |
| Sub-Task | [CAGRID-509](https://tracker.nci.nih.gov/browse/CAGRID-509) | CAGRID-540 Update CDS to use/issue SHA-256 encrypted certificates | Fixed |  |
| Sub-Task | [CAGRID-511](https://tracker.nci.nih.gov/browse/CAGRID-511) | CAGRID-540 Create an announcement for upcoming SHA2 changes to the caGrid community | Fixed |  |
| Sub-Task | [CAGRID-544](https://tracker.nci.nih.gov/browse/CAGRID-544) | CAGRID-540 Decide on content of, write and send communique to users regarding legacy use of SHA-1 | Won't Fix | caGrid 1.5 |
| Sub-Task | [CAGRID-545](https://tracker.nci.nih.gov/browse/CAGRID-545) | CAGRID-540 Create and test SHA-256 patch for caGrid 1.3 | Won't Fix | caGrid 1.5 |
| Sub-Task | [CAGRID-547](https://tracker.nci.nih.gov/browse/CAGRID-547) | CAGRID-540 Write patch documentation for caGrid 1.3 | Won't Fix | caGrid 1.5 |
| Sub-Task | [CAGRID-549](https://tracker.nci.nih.gov/browse/CAGRID-549) | CAGRID-540 Revise time estimate for caGrid 1.3 patch after full details of 1.5 changes are known. | Won't Fix | caGrid 1.5 |
| Sub-Task | [CAGRID-550](https://tracker.nci.nih.gov/browse/CAGRID-550) | CAGRID-540 Revise time estimate for caGrid 1.2 patch after full details of 1.4.1 changes are known. | Won't Fix | caGrid 1.5 |
| Task | [CAGRID-603](https://tracker.nci.nih.gov/browse/CAGRID-603) | Update XML API used to parse SAML assertions in opensaml project | Fixed | Sprint 2011\_06\_20-2011\_07\_01 |
| Sub-Task | [CAGRID-618](https://tracker.nci.nih.gov/browse/CAGRID-618) | CAGRID-603 Need some unit tests in the openSAML project to verify this still works. | Fixed | caGrid 1.6 |
| Bug | [CAGRID-644](https://tracker.nci.nih.gov/browse/CAGRID-644) | Preferences/Target Grids makes gaards-ui freeze | Cannot Reproduce | caGrid 1.5, caGrid 1.6 |
| Task | [CAGRID-687](https://tracker.nci.nih.gov/browse/CAGRID-687) | Review failing SHA 2 integration tests | Fixed | caGrid 1.5 |
| Task | [CAGRID-694](https://tracker.nci.nih.gov/browse/CAGRID-694) | Update services with special deployments to work with Tomcat 6 | Fixed | caGrid 1.6 |
| Bug | [CAGRID-703](https://tracker.nci.nih.gov/browse/CAGRID-703) | SDKQueryProcessors do not properly parse useHttpsUrl property | Fixed | caGrid 1.4, caGrid 1.5, caGrid 1.6 |
| Improvement | [CAGRID-711](https://tracker.nci.nih.gov/browse/CAGRID-711) | Get rid of endorsed jars | Fixed | caGrid 1.6 |
| Bug | [CAGRID-712](https://tracker.nci.nih.gov/browse/CAGRID-712) | SyncGTS .xsd files are created without proper header | Fixed | caGrid 1.4, caGrid 1.5, caGrid 1.6 |
| Task | [CAGRID-734](https://tracker.nci.nih.gov/browse/CAGRID-734) | Merge All Changes on the caGrid 1.4 branch into the SHA2 branch | Fixed |  |
| Bug | [CAGRID-736](https://tracker.nci.nih.gov/browse/CAGRID-736) | Identifiers system tests fail due to change in templating the na.properties file | Fixed | caGrid 1.6 |
| Task | [CAGRID-738](https://tracker.nci.nih.gov/browse/CAGRID-738) | Update project version of SHA2 branch | Fixed |  |
| Sub-Task | [CAGRID-739](https://tracker.nci.nih.gov/browse/CAGRID-739) | CAGRID-749 Upgrade Authentication Service to Introduce 1.5 | Fixed | caGrid 1.5 |
| Sub-Task | [CAGRID-740](https://tracker.nci.nih.gov/browse/CAGRID-740) | CAGRID-749 Upgrade CDS to Introduce 1.5 | Fixed | caGrid 1.5 |
| Sub-Task | [CAGRID-741](https://tracker.nci.nih.gov/browse/CAGRID-741) | CAGRID-749 Upgrade Dorian to Introduce 1.5 | Fixed | caGrid 1.5 |
| Sub-Task | [CAGRID-742](https://tracker.nci.nih.gov/browse/CAGRID-742) | CAGRID-749 Upgrade FQP to Introduce 1.5 | Fixed | caGrid 1.5 |
| Sub-Task | [CAGRID-743](https://tracker.nci.nih.gov/browse/CAGRID-743) | CAGRID-749 Upgrade GME to Introduce 1.5 | Fixed | caGrid 1.5 |
| Sub-Task | [CAGRID-744](https://tracker.nci.nih.gov/browse/CAGRID-744) | CAGRID-749 Upgrade GridGrouper to Introduce 1.5 | Fixed | caGrid 1.5 |
| Sub-Task | [CAGRID-745](https://tracker.nci.nih.gov/browse/CAGRID-745) | CAGRID-749 Upgrade GTS to Introduce 1.5 | Fixed | caGrid 1.5 |
| Sub-Task | [CAGRID-746](https://tracker.nci.nih.gov/browse/CAGRID-746) | CAGRID-749 Upgrade MMS to Introduce 1.5 | Fixed | caGrid 1.5 |
| Sub-Task | [CAGRID-747](https://tracker.nci.nih.gov/browse/CAGRID-747) | CAGRID-749 Transfer Introduce Extension needs an upgrader to 1.5 | Fixed | caGrid 1.5 |
| Sub-Task | [CAGRID-748](https://tracker.nci.nih.gov/browse/CAGRID-748) | CAGRID-749 Upgrade NA grid service to Introduce 1.5 | Fixed | caGrid 1.5 |
| Sub-Task | [CAGRID-756](https://tracker.nci.nih.gov/browse/CAGRID-756) | CAGRID-749 Upgrade SyncGTS Service to Introduce 1.5 | Fixed | caGrid 1.5 |
| Sub-Task | [CAGRID-757](https://tracker.nci.nih.gov/browse/CAGRID-757) | CAGRID-749 Upgrade TavernaWorkflow to Introduce 1.5 | Fixed | caGrid 1.5 |

# New Issues Identified

The following issues were added to the Jira tracker during the period of July 1st to July 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** |
| Task | [CAGRID-723](https://tracker.nci.nih.gov/browse/CAGRID-723) | Technical Project Plan | Open |  |
| Sub-Task | [CAGRID-724](https://tracker.nci.nih.gov/browse/CAGRID-724) | CAGRID-723 Technical Project Plan Update for July 2011 | Resolved | Sprint 2011\_07\_04-2011\_07\_15, Sprint 2011\_07\_18-2011\_07\_29 |
| Sub-Task | [CAGRID-725](https://tracker.nci.nih.gov/browse/CAGRID-725) | CAGRID-723 Technical Project Plan Update for August 2011 | Open | Sprint 2011\_08\_01-2011\_08\_12, Sprint 2011\_08\_15-2011\_08\_26, Sprint 2011\_08\_29-2011\_09\_09 |
| Sub-Task | [CAGRID-726](https://tracker.nci.nih.gov/browse/CAGRID-726) | CAGRID-723 Technical Project Plan Update for September 2011 | Open | Sprint 2011\_08\_29-2011\_09\_09, Sprint 2011\_09\_12-2011\_09\_23, Sprint 2011\_09\_26-2011\_10\_07 |
| Sub-Task | [CAGRID-727](https://tracker.nci.nih.gov/browse/CAGRID-727) | CAGRID-723 Technical Project Plan Update for October 2011 | Open | Sprint 2011\_08\_29-2011\_09\_09, Sprint 2011\_09\_12-2011\_09\_23, Sprint 2011\_09\_26-2011\_10\_07 |
| Task | [CAGRID-728](https://tracker.nci.nih.gov/browse/CAGRID-728) | Technical Status Report | Open |  |
| Sub-Task | [CAGRID-729](https://tracker.nci.nih.gov/browse/CAGRID-729) | CAGRID-728 Technical Status Report for July 2011 | In Progress | Sprint 2011\_07\_04-2011\_07\_15, Sprint 2011\_07\_18-2011\_07\_29 |
| Sub-Task | [CAGRID-730](https://tracker.nci.nih.gov/browse/CAGRID-730) | CAGRID-728 Technical Status Report for August 2011 | Open | Sprint 2011\_08\_01-2011\_08\_12, Sprint 2011\_08\_15-2011\_08\_26, Sprint 2011\_08\_29-2011\_09\_09 |
| Sub-Task | [CAGRID-731](https://tracker.nci.nih.gov/browse/CAGRID-731) | CAGRID-728 Technical Status Report for September 2011 | Open | Sprint 2011\_08\_29-2011\_09\_09, Sprint 2011\_09\_12-2011\_09\_23, Sprint 2011\_09\_26-2011\_10\_07 |
| Sub-Task | [CAGRID-732](https://tracker.nci.nih.gov/browse/CAGRID-732) | CAGRID-728 Technical Status Report for October 2011 | Open | Sprint 2011\_09\_26-2011\_10\_07, Sprint 2011\_10\_10-2011\_10\_21 |
| Task | [CAGRID-733](https://tracker.nci.nih.gov/browse/CAGRID-733) | Project Summary Report for 28XS097 | Open | Sprint 2011\_09\_26-2011\_10\_07 |
| Task | [CAGRID-734](https://tracker.nci.nih.gov/browse/CAGRID-734) | Merge All Changes on the caGrid 1.4 branch into the SHA2 branch | Resolved |  |
| Bug | [CAGRID-735](https://tracker.nci.nih.gov/browse/CAGRID-735) | WEBSSO hides exceptions returned from Dorian | Open | caGrid 1.4 |
| Bug | [CAGRID-736](https://tracker.nci.nih.gov/browse/CAGRID-736) | Identifiers system tests fail due to change in templating the na.properties file | Closed | caGrid 1.6 |
| Bug | [CAGRID-737](https://tracker.nci.nih.gov/browse/CAGRID-737) | WEBSSO incorrectly configures Authentication and Dorian clients | Open | caGrid 1.4 |
| Task | [CAGRID-738](https://tracker.nci.nih.gov/browse/CAGRID-738) | Update project version of SHA2 branch | Resolved |  |
| Sub-Task | [CAGRID-739](https://tracker.nci.nih.gov/browse/CAGRID-739) | CAGRID-749 Upgrade Authentication Service to Introduce 1.5 | Resolved | caGrid 1.5 |
| Sub-Task | [CAGRID-740](https://tracker.nci.nih.gov/browse/CAGRID-740) | CAGRID-749 Upgrade CDS to Introduce 1.5 | Resolved | caGrid 1.5 |
| Sub-Task | [CAGRID-741](https://tracker.nci.nih.gov/browse/CAGRID-741) | CAGRID-749 Upgrade Dorian to Introduce 1.5 | Resolved | caGrid 1.5 |
| Sub-Task | [CAGRID-742](https://tracker.nci.nih.gov/browse/CAGRID-742) | CAGRID-749 Upgrade FQP to Introduce 1.5 | Resolved | caGrid 1.5 |
| Sub-Task | [CAGRID-743](https://tracker.nci.nih.gov/browse/CAGRID-743) | CAGRID-749 Upgrade GME to Introduce 1.5 | Resolved | caGrid 1.5 |
| Sub-Task | [CAGRID-744](https://tracker.nci.nih.gov/browse/CAGRID-744) | CAGRID-749 Upgrade GridGrouper to Introduce 1.5 | Resolved | caGrid 1.5 |
| Sub-Task | [CAGRID-745](https://tracker.nci.nih.gov/browse/CAGRID-745) | CAGRID-749 Upgrade GTS to Introduce 1.5 | Resolved | caGrid 1.5 |
| Sub-Task | [CAGRID-746](https://tracker.nci.nih.gov/browse/CAGRID-746) | CAGRID-749 Upgrade MMS to Introduce 1.5 | Resolved | caGrid 1.5 |
| Sub-Task | [CAGRID-747](https://tracker.nci.nih.gov/browse/CAGRID-747) | CAGRID-749 Transfer Introduce Extension needs an upgrader to 1.5 | Resolved | caGrid 1.5 |
| Sub-Task | [CAGRID-748](https://tracker.nci.nih.gov/browse/CAGRID-748) | CAGRID-749 Upgrade NA grid service to Introduce 1.5 | Resolved | caGrid 1.5 |
| Task | [CAGRID-749](https://tracker.nci.nih.gov/browse/CAGRID-749) | Upgrade Core Services with Introduce 1.5 | Open |  |
| New Feature | [CAGRID-750](https://tracker.nci.nih.gov/browse/CAGRID-750) | Upgraders for SDK 4.0 data services from 1.3 and 1.4 to 1.5 | Closed | caGrid 1.3, caGrid 1.4, caGrid 1.5 |
| New Feature | [CAGRID-751](https://tracker.nci.nih.gov/browse/CAGRID-751) | Upgraders for SDK 4.1 data services from 1.3 and 1.4 to 1.5 | Closed | caGrid 1.3, caGrid 1.4, caGrid 1.5 |
| New Feature | [CAGRID-752](https://tracker.nci.nih.gov/browse/CAGRID-752) | Upgraders for SDK 4.2 data services from 1.3 and 1.4 to 1.5 | On Hold | caGrid 1.3, caGrid 1.4, caGrid 1.5, caGrid 1.6 |
| New Feature | [CAGRID-753](https://tracker.nci.nih.gov/browse/CAGRID-753) | Upgraders for SDK 4.3 data services from 1.3 and 1.4 to 1.5 | Open | caGrid 1.3, 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 | Open | caGrid 1.3, caGrid 1.4, caGrid 1.5, caGrid 1.6 |
| New Feature | [CAGRID-755](https://tracker.nci.nih.gov/browse/CAGRID-755) | Merge caCORE SDK 4.4 data service style project into caGrid 1.5 and trunk | Open | caGrid 1.5, caGrid 1.6 |
| Sub-Task | [CAGRID-756](https://tracker.nci.nih.gov/browse/CAGRID-756) | CAGRID-749 Upgrade SyncGTS Service to Introduce 1.5 | Resolved | caGrid 1.5 |
| Sub-Task | [CAGRID-757](https://tracker.nci.nih.gov/browse/CAGRID-757) | CAGRID-749 Upgrade TavernaWorkflow to Introduce 1.5 | Resolved | caGrid 1.5 |
| New Feature | [CAGRID-758](https://tracker.nci.nih.gov/browse/CAGRID-758) | caGrid metadata extension 1.4 to 1.5 and 1.6 upgrader | In Progress | caGrid 1.5, caGrid 1.6 |
| Sub-Task | [CAGRID-759](https://tracker.nci.nih.gov/browse/CAGRID-759) | CAGRID-758 Remove metadata 1.2 to 1.5 upgrader | Closed | caGrid 1.5 |
| New Feature | [CAGRID-760](https://tracker.nci.nih.gov/browse/CAGRID-760) | Allow Dorian Administrator to manually add an IFS user | Open | caGrid 1.4 |
| New Feature | [CAGRID-761](https://tracker.nci.nih.gov/browse/CAGRID-761) | Add ability to specify that a Group can only allow members from a specific authentication Service | Open | caGrid 1.4 |
| New Feature | [CAGRID-762](https://tracker.nci.nih.gov/browse/CAGRID-762) | Add ability to completely remove a user from Grid Grouper | Open | caGrid 1.4 |
| New Feature | [CAGRID-763](https://tracker.nci.nih.gov/browse/CAGRID-763) | xmiToDomainModel generates invalid domain model when primitive types are used in XMI | Open | caGrid 1.4 |

# Releases of the caGrid Software

No releases of the software were made during the reporting period.

# Presentations, Documentation Updates, Community Communication

The caGrid development team continues to closely support and work with the caGrid Knowledge Center. In the course of this involvement, several unique use cases and issues were identified while working with representatives from a major pharmaceutical company. Of general interest and applicability to the wider caGrid user community was the implementation of significant performance improvements for users of caGrid data services and their associated client side tools for iterating results, which for some cases led to a roughly order-of-magnitude performance improvement. The changes to support this improvement have been incorporated into the main codebase, and are available as a drop-in jar replacement from our continuous integration dashboard, as well as ready for inclusion in the next release of caGrid.

# 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-110](https://tracker.nci.nih.gov/browse/CAGRID-110)
  + Moving the integration tests to the containers specified by the NCI tech stack; specifically migrating to Tomcat 6
    - Most tests have been moved without issue, however one or two remain which require further investigation
* [CAGRID-540](https://tracker.nci.nih.gov/browse/CAGRID-540)
  + The overarching SHA 2 implementation task
    - Most items for this development are complete, however some testing and integration work needs to be done.
* [CAGRID-161](https://tracker.nci.nih.gov/browse/CAGRID-161)
  + Fixing build problems with spaces in the file system path
    - Simple workarounds exist
* [CAGRID-646](https://tracker.nci.nih.gov/browse/CAGRID-646)
  + Federated Query Processor scalability and performance improvements
    - Based on the community project created by UAB

# Critical Risks or External Dependencies

* Since the caGrid development project has been de-scoped and scaled down, there is a strong possibility that the release of a version of caGrid which supports SHA 2 will not be available until after the end of this calendar year. Currently, caGrid is operating under an exemption from the NIST mandate to move all federal systems to SHA 2 cryptography, but this exemption runs out at the end of the calendar year.
  + Another exemption will need to be implemented in lieu of a complete SHA 2 support release.
* 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.