

# caGrid Development Monthly Technical Status Report – July 2011

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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 1<sup>st</sup> to July 31<sup>st</sup>. 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	<a href="#">CAGRID-107</a>	CAGRID-83 Unify use of Spring to version 2.5.6	Won't Fix	caGrid 1.6
Sub-Task	<a href="#">CAGRID-508</a>	CAGRID-540 Update Authentication Service to use/issue SHA-256 encrypted certificates	Fixed	
Sub-Task	<a href="#">CAGRID-509</a>	CAGRID-540 Update CDS to use/issue SHA-256 encrypted certificates	Fixed	
Sub-Task	<a href="#">CAGRID-511</a>	CAGRID-540 Create an announcement for upcoming SHA2 changes to the caGrid community	Fixed	
Sub-Task	<a href="#">CAGRID-544</a>	CAGRID-540 Decide on content of, write and send communicate to users regarding legacy use of SHA-1	Won't Fix	caGrid 1.5
Sub-Task	<a href="#">CAGRID-545</a>	CAGRID-540 Create and test SHA-256 patch for caGrid 1.3	Won't Fix	caGrid 1.5
Sub-Task	<a href="#">CAGRID-547</a>	CAGRID-540 Write patch documentation for caGrid 1.3	Won't Fix	caGrid 1.5
Sub-Task	<a href="#">CAGRID-549</a>	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	<a href="#">CAGRID-550</a>	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	<a href="#">CAGRID-603</a>	Update XML API used to parse SAML assertions in opensaml project	Fixed	Sprint 2011_06_20-2011_07_01

Sub-Task	<a href="#">CAGRID-618</a>	CAGRID-603 Need some unit tests in the openSAML project to verify this still works.	Fixed	caGrid 1.6
Bug	<a href="#">CAGRID-644</a>	Preferences/Target Grids makes gaards-ui freeze	Cannot Reproduce	caGrid 1.5, caGrid 1.6
Task	<a href="#">CAGRID-687</a>	Review failing SHA 2 integration tests	Fixed	caGrid 1.5
Task	<a href="#">CAGRID-694</a>	Update services with special deployments to work with Tomcat 6	Fixed	caGrid 1.6
Bug	<a href="#">CAGRID-703</a>	SDKQueryProcessors do not properly parse useHttpsUrl property	Fixed	caGrid 1.4, caGrid 1.5, caGrid 1.6
Improvement	<a href="#">CAGRID-711</a>	Get rid of endorsed jars	Fixed	caGrid 1.6
Bug	<a href="#">CAGRID-712</a>	SyncGTS .xsd files are created without proper header	Fixed	caGrid 1.4, caGrid 1.5, caGrid 1.6
Task	<a href="#">CAGRID-734</a>	Merge All Changes on the caGrid 1.4 branch into the SHA2 branch	Fixed	
Bug	<a href="#">CAGRID-736</a>	Identifiers system tests fail due to change in templating the na.properties file	Fixed	caGrid 1.6
Task	<a href="#">CAGRID-738</a>	Update project version of SHA2 branch	Fixed	
Sub-Task	<a href="#">CAGRID-739</a>	CAGRID-749 Upgrade Authentication Service to Introduce 1.5	Fixed	caGrid 1.5
Sub-Task	<a href="#">CAGRID-740</a>	CAGRID-749 Upgrade CDS to Introduce 1.5	Fixed	caGrid 1.5
Sub-Task	<a href="#">CAGRID-741</a>	CAGRID-749 Upgrade Dorian to Introduce 1.5	Fixed	caGrid 1.5
Sub-Task	<a href="#">CAGRID-742</a>	CAGRID-749 Upgrade FQP to Introduce 1.5	Fixed	caGrid 1.5
Sub-Task	<a href="#">CAGRID-743</a>	CAGRID-749 Upgrade GME to Introduce 1.5	Fixed	caGrid 1.5
Sub-Task	<a href="#">CAGRID-744</a>	CAGRID-749 Upgrade GridGrouper to Introduce 1.5	Fixed	caGrid 1.5
Sub-Task	<a href="#">CAGRID-745</a>	CAGRID-749 Upgrade GTS to Introduce 1.5	Fixed	caGrid 1.5
Sub-Task	<a href="#">CAGRID-746</a>	CAGRID-749 Upgrade MMS to Introduce 1.5	Fixed	caGrid 1.5
Sub-Task	<a href="#">CAGRID-747</a>	CAGRID-749 Transfer Introduce Extension needs an upgrader to 1.5	Fixed	caGrid 1.5
Sub-Task	<a href="#">CAGRID-748</a>	CAGRID-749 Upgrade NA grid service to Introduce 1.5	Fixed	caGrid 1.5
Sub-Task	<a href="#">CAGRID-756</a>	CAGRID-749 Upgrade SyncGTS Service to Introduce 1.5	Fixed	caGrid 1.5
Sub-Task	<a href="#">CAGRID-757</a>	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 1<sup>st</sup> to July 31<sup>st</sup>. 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	<a href="#">CAGRID-723</a>	Technical Project Plan	Open	
Sub-Task	<a href="#">CAGRID-724</a>	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	<a href="#">CAGRID-725</a>	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	<a href="#">CAGRID-726</a>	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	<a href="#">CAGRID-727</a>	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	<a href="#">CAGRID-728</a>	Technical Status Report	Open	
Sub-Task	<a href="#">CAGRID-729</a>	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	<a href="#">CAGRID-730</a>	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	<a href="#">CAGRID-731</a>	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	<a href="#">CAGRID-732</a>	CAGRID-728 Technical Status Report for October 2011	Open	Sprint 2011_09_26-2011_10_07, Sprint 2011_10_10-2011_10_21
Task	<a href="#">CAGRID-733</a>	Project Summary Report for 28XS097	Open	Sprint 2011_09_26-2011_10_07
Task	<a href="#">CAGRID-734</a>	Merge All Changes on the caGrid 1.4 branch into the SHA2 branch	Resolved	
Bug	<a href="#">CAGRID-735</a>	WEBSSO hides exceptions returned from Dorian	Open	caGrid 1.4
Bug	<a href="#">CAGRID-736</a>	Identifiers system tests fail due to change in templating the na.properties file	Closed	caGrid 1.6
Bug	<a href="#">CAGRID-737</a>	WEBSSO incorrectly configures Authentication and Dorian clients	Open	caGrid 1.4
Task	<a href="#">CAGRID-738</a>	Update project version of SHA2 branch	Resolved	

Sub-Task	<a href="#">CAGRID-739</a>	CAGRID-749 Upgrade Authentication Service to Introduce 1.5	Resolved	caGrid 1.5
Sub-Task	<a href="#">CAGRID-740</a>	CAGRID-749 Upgrade CDS to Introduce 1.5	Resolved	caGrid 1.5
Sub-Task	<a href="#">CAGRID-741</a>	CAGRID-749 Upgrade Dorian to Introduce 1.5	Resolved	caGrid 1.5
Sub-Task	<a href="#">CAGRID-742</a>	CAGRID-749 Upgrade FQP to Introduce 1.5	Resolved	caGrid 1.5
Sub-Task	<a href="#">CAGRID-743</a>	CAGRID-749 Upgrade GME to Introduce 1.5	Resolved	caGrid 1.5
Sub-Task	<a href="#">CAGRID-744</a>	CAGRID-749 Upgrade GridGrouper to Introduce 1.5	Resolved	caGrid 1.5
Sub-Task	<a href="#">CAGRID-745</a>	CAGRID-749 Upgrade GTS to Introduce 1.5	Resolved	caGrid 1.5
Sub-Task	<a href="#">CAGRID-746</a>	CAGRID-749 Upgrade MMS to Introduce 1.5	Resolved	caGrid 1.5
Sub-Task	<a href="#">CAGRID-747</a>	CAGRID-749 Transfer Introduce Extension needs an upgrader to 1.5	Resolved	caGrid 1.5
Sub-Task	<a href="#">CAGRID-748</a>	CAGRID-749 Upgrade NA grid service to Introduce 1.5	Resolved	caGrid 1.5
Task	<a href="#">CAGRID-749</a>	Upgrade Core Services with Introduce 1.5	Open	
New Feature	<a href="#">CAGRID-750</a>	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	<a href="#">CAGRID-751</a>	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	<a href="#">CAGRID-752</a>	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	<a href="#">CAGRID-753</a>	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	<a href="#">CAGRID-754</a>	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	<a href="#">CAGRID-755</a>	Merge caCORE SDK 4.4 data service style project into caGrid 1.5 and trunk	Open	caGrid 1.5, caGrid 1.6
Sub-Task	<a href="#">CAGRID-756</a>	CAGRID-749 Upgrade SyncGTS Service to Introduce 1.5	Resolved	caGrid 1.5
Sub-Task	<a href="#">CAGRID-757</a>	CAGRID-749 Upgrade TavernaWorkflow to Introduce 1.5	Resolved	caGrid 1.5
New Feature	<a href="#">CAGRID-758</a>	caGrid metadata extension 1.4 to 1.5 and 1.6 upgrader	In Progress	caGrid 1.5, caGrid 1.6
Sub-Task	<a href="#">CAGRID-759</a>	CAGRID-758 Remove metadata 1.2 to 1.5 upgrader	Closed	caGrid 1.5
New Feature	<a href="#">CAGRID-760</a>	Allow Dorian Administrator to manually add an IFS user	Open	caGrid 1.4

New Feature	<a href="#">CAGRID-761</a>	Add ability to specify that a Group can only allow members from a specific authentication Service	Open	caGrid 1.4
New Feature	<a href="#">CAGRID-762</a>	Add ability to completely remove a user from Grid Grouper	Open	caGrid 1.4
New Feature	<a href="#">CAGRID-763</a>	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](#)
  - 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](#)
  - 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](#)
  - Fixing build problems with spaces in the file system path
    - Simple workarounds exist
- [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.