caArray – Release 2.3.1

Summary Test Report

# Test Overview

## Executive Summary

This test report summarizes the system and regression testing efforts for caArray version 2.3.1 Release and following tasks were completed.

* A total of 124 test cases were written and/or modified to test caArray version 2.3.1 application against the functional requirements.
* QA Team executed 85 test cases on the QA tier, all of which passed successfully; 56 test cases on the local tier, all of which passed successfully; and 75 test cases on the Staging tier, all of which passed successfully.
* The number of test cases executed is lower than the number of test cases in total for the following reasons:
  + Every test case was not performed on every tier. For example, the nine installation tests were performed only locally.
  + Some of the test cases' verifications were covered by other tests, such as installation tests and regression tests.
* 23 test cases were not included in the iteration plans, but rather were added mid-iteration and so were not captured in the Google doc until well after the fact. This issue will be corrected with the next release. The items are 24963, 25680, 25687, 25696, 25714, 25899, 26017, 26032, 26105, 26156, 16596, 26280, 26327, 26036, 26375, 16271, 20294, 20299, 21413, 22772, 23834, 23967, and 25031. They can be identified in the Google doc because they lack the "Test Description/Purpose" filed.
* Verified 9 Feature Requests for caArray 2.3.1. Their focus was around exporting the experiment to GEO and BDA upgrade.
* Verified 57 bugs identified in previous and current releases, and closed those items in GForge.

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| --- | --- | --- |
| **Priority** | **Count** | **GForge Ids** |
| 5 | 10 | 17972, 24147, 24426, 25031, 25453, 25474, 26033, 26036, 26327, 26375 |
| 4 | 23 | 20294, 20295, 20296, 20297, 20298, 24134, 24181, 24305, 24421, 24513, 24520, 24963, 25473, 25553, 25566, 25567, 25632, 25687, 25695, 25899, 26032, 26034, 26035 |
| 3 | 21 | 17171, 20299, 21413, 22772, 23219, 23834, 23967, 24207, 24223, 24373, 24957, 25024, 25193, 25468, 25524, 25557, 25696, 25714, 26055, 26105, 26280 |
| 2 | 3 | 16271, 16596, 26017 |
| 1 | 0 | N/A |

## Scope

This document is the Test Evaluation Summary for caArray Release 2.3.1. The project planned in 6 iterations and scheduled from September 28, 2009 to February 5, 2010. It compares the planned testing strategy and approach to the actual strategy and execution that QA Team used to validate the quality of this product prior to release.

The system and regression testing schedule for 6 iterations as follows:

|  |  |  |
| --- | --- | --- |
| **Iteration Number** | **Start Date** | **End Date** |
| Iteration 1 | 11/30/2009 | 12/11/2009 |
| Iteration 2 (BETA) | 12/14/2009 | 12/25/2009 |
| Iteration 3 (RC1) | 12/28/2009 | 01/08/2010 |
| Iteration 4 (RC2) | 01/11/2010 | 01/22/2010 |
| Iteration 5 (RC3) | 01/25/2010 | 02/05/2010 |
| Iteration 6 | 02/08/2010 | 02/19/2010 |

The focus of caArray version 2.3.1 as follows:

| **Iteration** | **GForge ID** | **Description** | **Status** |
| --- | --- | --- | --- |
| 1 | 20295 | GEO: Create upgrade script to store GEO accessions for popular array designs. Verification only | Closed |
| 1 | 20296 | GEO: Validate that experiment is suitable for GEO SOFT export. | Closed |
| 1 | 20297 | GEO: Translate Affymetrix single-channel CHP experiment into GEO SOFT. | Closed |
| 1 | 24134 | GEO: Fix problems with protocol types, platform accession and repetitive errors. Verification only | Closed |
| 1 | 24181 | GEO: Support pooling and splitting experimental designs | Closed |
| 1 | 20298 | GEO: UI to allow GEO-SOFT translation and download. Development only, option to be implemented to be decided | Closed |
| 1 | 24421 | Session Timeout Causes Unexpected Error Development only | Closed |
| 1 | 24520 | Inconsistent session time out duration Development only | Closed |
| 1 | 24513 | Fix duplicate Source names in Rembrandt experiment. | Closed |
| 1 | 23967 | CHP Files fail to validate when using Affy HuEx-1\_0-st-v2 Array Design Attempt solution by upgrading to new fusion jar; if unsuccessful, investigate alternatives | Open (Clarification Required) |
| 1 | 24439 | MAGE-TAB parser should validate that the node columns of an SDRF file are in the correct order | Open (To Be Assessed) |
| 2 | 20298 | GEO: UI to allow GEO-SOFT translation and download. | Closed |
| 2 | 23967 | CHP Files fail to validate when using Affy HuEx-1\_0-st-v2 Array Design (DEV, test, alternative approach) | Open (Clarification Required) |
| 2 | 23219 | Include summary of experiment permissions on My Experiment Workspace | Closed |
| 2 | 24207 | Two LDAP related installer properties should be renamed | Closed |
| 2 | 24223 | Use svntask instead of svnant for doing SVN manipulation in the build | Closed |
| 2 | 17972 | Allow deletion of already-imported but not parsed data files Verification Only | Closed |
| 2 | 24147 | Protocol applications for scan and normalization events are not properly created for MAGE-TAB import Verification Only | Closed |
| 2 | 24421 | Session Timeout Causes Unexpected Error Development only | Closed |
| 2 | 24520 | Inconsistent session time out duration Development only | Closed |
| 2 | 20803 | Implement Liquibase for database integration | Open (Moved to 2.4.0) |
| 3 | 23219 | Include summary of experiment permissions on My Experiment Workspace | Closed |
| 3 | 24207 | Two LDAP related installer properties should be renamed | Closed |
| 3 | 25193 | caArray GUI installer broken after BDA upgrade. | Closed |
| 3 | 25024 | Remove duplicate security configuration files | Closed |
| 3 | 25248 | Make Illumina CSV array design parsing less strict | Open (Moved to 2.4.0) |
| 4 | 25474 | Add More Files button non-functional | Closed |
| 4 | 25553 | Upgrade from 2.2.0 to 2.3.1 does not work - regression testing | Closed |
| 4 | 25468 | Cannot run ant dist without application.base.path being defined in master\_build/install.properties file | Closed |
| 4 | 25453 | Cannot register for account w/ LDAP | Closed |
| 4 | 25566 | gui installer cannot connect to database | Closed |
| 4 | 25567 | repeating error duing GUI install | Closed |
| 4 | 24957 | "Unexpected Error" when deleting imported-not-parsed files and IDF/SDRF simultaneously | Closed |
| 4 | 25524 | Missing Xerces jar from lib/grid in caarray\_client\_external\_v1\_0.zip | Closed |
| 4 | 25557 | Upgrade from 2.2.0 to 2.3.1 breaks | Closed |
| 5 | 26033 | Various GUI upgrade installer problems | Closed |
| 5 | 25899 | Linux Gui installer hits error while starting JBoss | Closed |
| 5 | 26034 | java.api.filestreaming.port not being read properly during GUI upgrade installer execution (Regression testing of installer included) | Closed |
| 5 | 25695 | install.properties file created and packaged for distribution needs to be cleaned up | Closed |
| 5 | 26035 | No visible ant output window in GUI upgrade installer | Closed |
| 5 | 26032 | Cannot login after upgrade until caArray JBoss is bounced | Closed |
| 5 | 26105 | Remove example code from client zips | Closed |
| 5 | 26055 | Unexpected Error when searching for collaborators to add to group | Closed |
| 5 | 26017 | Loading spinner never stops in Firefox when changing table page | Closed |
| 5 | 20297 | GEO: Translate Affymetrix single-channel CHP experiment into GEO SOFT | Closed |

# Summary of Results

## Testing Results

System and Regression testing was conducted to ensure caArray Release 2.3.1 complied with the documented GForge implementation items. The results of the testing of each GForge item documented in Google doc and available at <http://spreadsheets.google.com/ccc?key=0AsjRKTaeNjW-dElPUlRNZU1PT2ozSHJvelBGTDNEM1E&hl=en>

The QA Team developed and updated the test cases, which are available at L:\NCICB\QA\MatthewRT\iterations. In the near future these will be submitted to SVN, which will then be the main repository for the tests.

The remaining open GForge items were all addressed, whether they were moved to v.2.4.0, tabled, or superseded by another item.

## Risk Analysis

The QA team verified the functionality of the new implementations in caArray and assigned defects to this release. Viewing processing reports and matching actual results with the expected results specified in the test cases.

At the completion of the testing phases, QA team reviewed, and as required, created and updated the test cases.