Release Notes

caLIMSv2.c3i0 Milestone Release

cancer Laboratory Information Management System

Version 2.c3i0.0

April 2011

National Cancer Institute

Center for Biomedical Informatics and Information Technology (CBIIT)

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1. caLIMS Introduction and Background

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The caLIMS v2 project goal is to produce a Laboratory Information Management System (LIMS) that is interoperable within established caBIG® standards and guidelines and will track a complete laboratory workflow that uses materials from a specimen management service (*e.g.* caTissue) to generate experimental results for one of the caBIG® data management services (*e.g.* caArray). Core LIMS functions include the management of personnel, equipment, lab supplies and reagents, samples and containers, laboratory workflow and experimentally derived metadata and data. The caLIMS v2 will complete the caBIG® bench to bed model by bridging the gap between biospecimen repositories, data repositories and analysis tools. The application is designed to allow easy customization by users and to facilitate integration with laboratory equipment, analytical tools and data sources. More project information is available on the [caLIMS v2 wiki site](https://wiki.nci.nih.gov/x/2oMYAQ).

The caLIMSv2.c3i0 milestone release is an early release version of the planned caLIMS v2.0 beta release. This caLIMSv2.c3i0 contains much of the functionality related to the administration, customer service, inventory, and reports modules, including: set up of laboratories and users, locations and storage, equipment and software; customer requests, services, and accounts; containers, specimens, reagents, and supplies; and queries, searches, and reports. The goal of this release is to allow the interested community full access to the project results so far for their evaluation, feedback, and possible local customization.

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1. Features

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Features included in caLIMSv2.c3i0 milestone release:

* Administration Module
  + Manage Organizations/Laboratories, Persons/Contact Information/Roles, Collaborations
  + Manage Equipment/Software, StorageDevice/Locations/Storage Space, Naming Conventions
* Customer Service Module
  + Manage Customer Requests/Accounts/Billing Information
  + Manage Services/Service Items/Rates
* Inventory Module
  + Manage Containers/Layouts/Fill Patterns
  + Manage Specimens/Reagents/Lab Supplies
* Report Module
  + Manage Queries/Searches
  + Manage Reports/Report Designs

***Planned/Future Features:***

* *Workflow/Project Module* 
  + *Manage Project/Experiment/Procedure/Run*
  + *Manage Approvals*
  + *Manage Workflow*

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3. Known Issues

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caLIMSv2.c3i0 Known Issues

* Application-Wide Record Deletion – Cascading delete has not yet been implemented, so when using the UI to delete a record, it is necessary to delete dependent records first. For example, if you created a Customer Request and assigned a Service to it that contained Service Items, but later decided you did not need that Customer Request, you would need to delete the Service Items first, then the Service, and finally the Customer Request.
* Jasper Report Templates – The caLIMSv2.c3i0 download comes with 37 predefined Jasper Report *jrxml* templates, which can be used for generating reports against various entities in the system. These templates have been validated and work with the application as-is. If you modify these templates, or use your own, it is not guaranteed they will work with the caLIMSv2.c3i0 application.
* Specimen Transfer – When transferring a specimen from one container to another, the ‘Transfer’ button is active before the user selects a target. If the user clicks ‘Transfer’ before selecting a target, the specimen will not be transferred. There is no error message or warning, so the user may not notice that the specimen has not been transferred. To ensure accurate transfer of specimens, the target must be selected prior to clicking the transfer button.
* Document Upload – Two directories need to be made available to the application for pre-positioning and storing uploaded and downloaded files. See the caLIMS v2 installation instructions for more information on this issue. Empty documents or documents with a file size of 0 cannot be uploaded by the file upload utility.
* Support for Pooled/Composite Specimens - The caLIMSv2.c3i0 does not yet support specimens with more than one parent specimen, for example pooled specimens and composite specimens. Support for these types of specimens will be included in future versions.
* Quantity Values Captured but not Automatically Calculated – The caLIMSv2.c3i0 allows users to input quantity values for specimens and reagents, but the business logic for the automatic update calculations is not yet implemented. The updates can be done manually in this version.
* The Naming Convention and Word functions have a bug that prevents them from working in the latest version. See the caLIMS2 Tracker issues list for more details.
* Workflow Module not yet Implemented – The Workflow/Project module is still in development and is not functional in the caLIMSv2.c3i0. Work will continue on this module if additional funding becomes available. For more details and current information, please contact the project contacts on the [caLIMS v2 wiki site](https://wiki.nci.nih.gov/x/2oMYAQ).
* Viewing or Reporting Additional Issues – The caLIMSv2 project uses the NCI JIRA Tracker project to track project development and issues. One can log into the caLIMSv2 Tracker site to see lists of additional issues – bugs, improvements, and new features – that have already been identified and reported. Please feel free to add in your comments and suggestions to those already captured or to add in new ones (see information on how to get an account for the NCI Tracker below in the Bug Reports and Support).

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4. Bug Reports and Support

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Visit the caLIMS v2 Tracker (JIRA) Site to report an issue or provide comments:

* <https://tracker.nci.nih.gov/browse/CALIMS2>
* <https://tracker.nci.nih.gov/secure/CreateIssue.jspa?pid=10002&issuetype=8> to request an NCI JIRA account and permission to log issues into caLIMS2 Tracker (JIRA) project.

Visit the caLIMS v2 Project wiki for current information:

* <https://wiki.nci.nih.gov/x/2oMYAQ> - home page

In addition, questions and requests can be sent to the [NCI-LIMS-CONSORTIUM@list.nih.gov](mailto:NCI-LIMS-CONSORTIUM@list.nih.gov) .

You can subscribe by contacting Jenny Kelley: [kelleyj@mail.nih.gov](mailto:kelleyj@mail.nih.gov) .

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5. Documentation

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The caLIMS related design documentation links can be found on the Documentation page of the wiki: <https://wiki.nci.nih.gov/x/5AGy>

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6. NCI CBIIT Web Pages

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The NCI Center for Biomedical Informatics and Information Technology (CBIIT): <http://ncicb.nci.nih.gov/>

caLIMS v2 GForge site: <http://gforge.nci.nih.gov/projects/calims2/>

Common Security Module (CSM): <http://gforge.nci.nih.gov/projects/security/>