**Monthly Status Report for caCORE Product Line**

**For Month of October 2007**

**Key Accomplishments**

* **Current**

*caCORE Product Line*

*EVS*

* + caBIG Support
    - UML Model annotation:
* JHU ProteinDB v1 rv1
* caBIO v4.0 rv2
* NCIA v3 rv2
* BCR v2 rv1
* BCR v2 rv2
* CGOM v2.1 rv3
* general caDSR Support
* New Term creation
* Other general caDSR support, e.g. caCORE Users biweekly meeting
* Daily monitoring of Sentinel Report for New Object Classes: includes new term creation and recommendations to use existing concepts
* Vocabulary and UML Mentor for caRPLA project. Meetings have resumed. Updating UML model based on caArray 2.0 in progress.
* Technical liaison for RadLex Playbook project; attended Imaging F2F in Oct; attended teleconference project updates; new (final) radlex playbook.owl file expected in November. Project POP date was extended to Dec 20.
* Worked on caBIG Gold compatibility document for VCDE.
* Attended V/CDE meetings.
  + Vocabulary Develoment
* NCIt – General gene kind modeling, and review of NCI Cancer Bulletin and journals for new content.
* caNanoLab
  + Added the new concepts to TDE and Protégé
  + Updated the in-vivo model code list
  + Went over newest Washington University ontology with them
* Definitions for proteins, genes and wild type alleles for gene products that are transcription factors put these all into a single list with about 100 entries. Not yet entered into NCIt or BiomedGT.
* BiomedGT Content – Short term recommendations from OBO evaluation project that finished over the summer beginning to be implemented in BiomedGT to rework NCIt content towards publication of ver 1 of BiomedGT.
  + Report of pre-coordinated terms under Abnormal Epithelial\_Cell to help determine whether to drop some pre-coordinated content from BiomedGT.
  + Flagged concepts as common words, ontology nodes or navigation nodes in spreadsheet near completed and batch loaded to BiomedGT. Continued discussion on how/ when to use navigation nodes.
  + Wordnet selected as source for common word definitions – url links will be provided. (Online Medical Dictionary cannot be used because of attribution issues.)
  + BFO (Basic Formal Ontology) chosen for alignment upper levels of BiomedGT. First pass of reorganization under top BFO nodes completed (on paper). Experiment in progress in a sandbox using BFO nodes and removing navigation nodes to separate hierarchy with assignment of ontology concepts to the classification (Navigation) hierarchies using inference.
  + Parallel editing in NCIt continues until publication of ver 1
  + Ran Prompt sessions to identify remaining PROMPT workflow issues. (Being addressed in NCI Protégé 1.2 release.)
  + NCI Metathesaurus Content and Production
    - * NCI2007\_06D with several new sources including UCUM and a PDQ2007\_05 update is in production. (Base build is UMLS2007AD).
      * Metathesaurus 2007\_07C on QA server as of late Oct.
      * NCI2007\_08 real insertion completed tested and edited.
      * NCI2007\_09 real insertion is in progress.
      * CBO2007\_06 real insertion was completed, tested and edited.
      * MTH 2007 AA real insertion completed, tested, and still being edited as of late Oct.
  + Product Support
    - NCI Thesaurus version Sep 2007 (07.09d) is on Production DTSRPC server at ncidts.nci.nih.gov, port 6550 or <http://nciterms.nci.nih.gov> .History files are available on anonymous ftp server at <ftp://ftp1.nci.nih.gov/pub/cacore/EVS/>. Summary files are available on the intranet at <https://ncicbintra.nci.nih.gov/intra/caCORE/evs/Thesaurus_Summary/>
    - NCI Thesaurus version Sep 2007 (07.09d) is also still available on PreThesaurus . It is available through the caCORE at <http://cabio-qa.nci.nih.gov/cacore32/http/remoteService>; Available through the DTSRPC from ncidts-qa, port 6560. And through the web at both <http://nciterms-qa.nci.nih.gov/NCIBrowser> and <http://cabio-qa.nci.nih.gov/cacore32/Happy.jsp> .History files are available on the anonymous ftp server at <ftp://ftp1.nci.nih.gov/pub/cacore/EVS/> . Summary files are available on the intranet at <https://ncicbintra.nci.nih.gov/intra/caCORE/evs/Thesaurus_Summary/>
    - NCI Meta – The current version of the **NCI Metathesaurus,** based on the UMLS build [*UMLS Metathesaurus, 2006AD*](http://gforge.nci.nih.gov/docman/view.php/129/5384/vocabulary_changes.doc)**,**  covers up to **National Cancer Institute Thesaurus, 2007\_06D**.
    - GO Oct 2007, MedDRA 10.0 and Zebrafish Anatomy also on Production server.
    - SNOMED 2007.7.AA to DEV (in progress)
  + Project: Terminology Browser Applications
    - NCBO Bioportal Adaptation for NCI/caBIG: User acceptance testing scheduled to begin in October.
* [GF#9382] Cannot view Attributes in advanced search and incorrect number returned
  + Made changes to the following bean classes so the application would return correct counts.

o SearchStatusBean

o SearchCategoryResultsBean

o SearchResultsBean

o SearchStatisticsBean

o SearchCountBean

* + SearchSessionBeanImpl
* [GF9384] Searching SemanticNet Yields Unexpected Results - Modified SearchUtil in DLBAdapter to return proper search results.
* [GF#9396] Gives error when search for Attributes on certain ontologies - Ready for review by QA.
* Added a “Known Issues” page to document the known bugs and make easily accessible by users
* Continue to work with the Mayo team to resolve the NCI MetaThesaurus top node issue.
* Reviewed User Acceptance Tests for NCI Bioportal developed by the QA team
* Supported QA Deployments
* Prepared Staging Deployment Package (Builds, Tags, Documentation)
* Made the User Guide accessible via the side menu link
* Disabled the Online Help link until it’s make available by Tech Writer
* Updated the landing page to remove references to NCI Thesaurus and NC MetaThesaurus
* Reviewed User Guide and provided updates
* [GF#7878] Promote to Staging environment
* Provided support to the QA team to deploy the application to the Staging tier. (Note: Stage URL is <http://bioportal-stage.nci.nih.gov> <<http://bioportal-stage.nci.nih.gov/>> .)
* [GF#9384] Searching SemanticNet Yields Unexpected Results
  + Ongoing
* [GF#7761] Enable a visual representation of a selected ontology
  + Started to implement Mayo's methodology for retrieving top nodes from NCI MetaThesaurus
* Terminology Open Portal project – No work in October
  + Project: caCORE/EVS API
    - * LexGrid Vocabulary Services for caBIG – bug fixes;
      * Installed LexBIG ver 2.1.1 released by Mayo on 9/25/07 and tested methods for retrieving top nodes using MedDRA 10 data;
      * EVS/LexBIG API – Promote to QA, QA Testing, Bug fixes (See GForge).
* [GF#9458] In TreeTraversal test - getHasSubtype(codingScheme) throws exception
* Ready for review by QA.
* [GF#7878] Promote to Staging environment
* Ongoing.
* [GF#8579] Integration Testing
* Provided support to the caDSR team to resolve an error thrown by NCICurationServlet. It was caused by Curation Tool not being able to find the EVSAPI configuration file, application-config-client.xml. This file needs to be placed under the \webapp\WEB-INF\classes folder for the application to find it.
* Fixed a bug, ArrayStoreException, in the web service sample client program (TestClient.java).
* Fixed a bug in the EVSAPI Proxy class.
* Documentation
  1. Continued supported Tech Writer with Tech Guide
  2. Started Release Notes
* [GF#7878] Promote to Staging environment
* Resolved two deployment issues. The LexBIG registry.xml file

/local/content/evs/lexbig/resources/config/registry.xml must be copied from QA to Stage tier along with index folders and config.props configuration file. The registry.xml file must also contain correct URL (history urn) and name (dbName) of NCI Thesaurus history database. (Note: The URL for Stage is <http://evsapi-stage.nci.nih.gov/evsapi40>.)

* [GF#8579] Integration Testing
* Ongoing
* Project caCORE/ LexBig API
* Collaborated with Mayo to refine the methodology for retrieving top nodes from NCI MetaThesaurus.
  + Provided root nodes results to Mayo. These results were obtained by running *ListSubsumptionMetaBySource* as requested by Mayo.
* Reviewed Mayo’s *Prioritization of GForge items for March* (trackers.xls).
  + Project: Protégé OWL/NCI Edit Tab and BiomedGT Wiki
    - 1.2 Release code freeze planned for Nov 25. Bug fixes and enhancements continue (see GForge for 1.2 must have items). Scheduled to include classification services tab and first version of workflow subtab and Protégé Prompt bug fixes and enhancements.
* ***NCI Protégé GUI***
  + Met with SMW team to discuss design/requirements and workflow communication protocol.
  + Workflow development
  + Developed simple BatchOWLWrapper class to access the data layers in Edittab without the GUI.
  + rebuilt Eclipse environment and began adding classification builds to main build
  + Began major rework of OWLWrapper class
    - OWLWrapper will eventually be a compatibility layer enabling migration from Protege3 - 4
  + GForge#-7503 best practices
    - broke out SplitPanel from EditTab
    - broke out ClonePanel from EditTab
    - fixed PreMerge and MergePanel load problems
  + GForge#-7068 fixed bug in ClonePanel
* Created new Workflow Tab in EditTab
* Integrated classification services build into ncibuild
  + NCICodeGenerator project skeleton created and integrated code generator into build.
  + Integrated Workflow project into build, and continued workflow development.
  + Continued EditTab refactoring
  + Continued work on SMW/Protege protocol development for workflow.
    - External BiomedGT Wiki (<http://biomedgt.org> ) was established as a working wiki site until a version that works through the firewall is established. Still available as of end of Oct.
    - OBO Compliance Evaluation - NCI Semantic Media Wiki set up in May for purposes of containing the results of the OBO Compliance Evaluation continues to be available at <http://cbiovdev5039.nci.nih.gov/>
    - BiomedGT Wiki (as of oct 26)
      * Continued support of build process with minor extension to Ant script
      * Refined “story board” for layout of workflow
      * Added single-change items to baseline concept page
      * Protégé/Wiki interchange format finalized for alpha release.
      * Investigated performance issues and began work on resolution
      * Got Halo running and began work on Ajax wiki
      * Updated dev wiki
      * Review of existing wiki tooling that could be used in project, posted on Gforge.

*caDSR*

**Post caCORE 3.2 Iterations**

* + - Completed QA testing for Form Builder 3.2.0.3
    - Deployed SIW 3.2.1.1 to Production / Sandbox (10/15/2007)
    - Completed QA testing of UML Model loader 3.2.1.1
    - Deployed CDE Browser 3.2.0.2 to Production (10/17/2007)
      * Completed Oracle 10g evaluation on DEV
      * Created multiple Wiki pages documenting internal development processes
      * Completed Curation Tool 3.2.0.5 Scope
      * Reviewed the design for converting CSI’s to Administered Components
      * Completed code changes to improve performance of CDE Curation Tool login
      * Successfully completed Automated Deployment of the CDE Curation Tool on the QA and STAGE environment
      * Continued coding extended concept search in Freestyle

*caDSR Training*

* + - * Continued development of Course 2110: Silver Compatibility SOP
      * Continued development of Course 3110: Conducting a Silver Level Compatibility Review
      * Continue to revise caCORE Curriculum for versioning to 2.0
      * Updated presentation materials and presented content for 1070a-c
      * Updated caCORE training curriculum role slides with a new role: 3rd Party Compatibility Reviewer and uploaded to the DEV website
      * Updated the Getting Connected: Deploying to caGrid Visio diagrams (originally the caCORE SDK process diagrams)
      * Attended caCORE Training
      * Prepared and finalized all BIRN/caBIG meeting material; posted to the LMS
      * Created caBIG Welcome page tip sheet
      * Authored Lesson 5 of the Getting Connected with caBIG Articulate presentation
  + **Operations and Maintenance / Troubleshooting**
    - * Completed Bugs and Feature Requests

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| --- | --- | --- | --- | --- | --- | --- |
|  | **Tracker Items Closed During October 2007** | | | | | |
| Tracker Items | Admin Tool | Concepts Loaded | CDE Browser | UML Model Browser | caDSR Database | SIW / UML Loader |
| Bugs | 0 | N/A | 4 | 0 | 0 | 4 |
| Feature Requests | 0 | 88 | 3 | 0 | 0 | 5 |

* + **Other Work**
    - Global Model Exchange
      * Continued development on Iteration #1 (SIW 3.2.1.2) that focuses on SIW enhancements related to core GME functions: default tags, GME cleanup, etc.
    - Worked on high level design for software to synchronize the EVS and caDSR concepts data
    - Electronic Data Collection Instruments
      * Meetings suspended pending balloting of message by HL7
    - Metadata Quality Improvement
      * Worked on coding / unit testing on several basic components (e.g. Object Class, Data Element Concept, etc.). work suspended from 11/1/2007 – 11/25/2007 while developer is on vacation
    - Form Builder: Next Generation
      * Attended user and technical meetings; authored scope, approach, and requirement documents on the development wiki
    - CDE Browser / Form Builder Refactoring
      * Completed basic refactoring of server side code; user interface refactoring will be more complex
      * Worked on CDE Browser Performance issues using JProfiler to assess bottlenecks and develop plan for next increment improvements.
    - Migrate caDSR databases to Oracle10g
      * Worked with Systems to set up alternate development environment ("DSRDEV"); will test current applications in November
    - Rehosting caDSR production environment
      * Met with hosting contractor to define technical architecture and related support requirements to enable production caDSR environment to be relocated to a dedicated hosting environment

*caAdapter*

* caAdapter 4.0 release
  + Migrated the caAdapter project web site and updated caAdapter web pages on the various NCI CBIIT sites
  + Addressed several miscellaneous items for caAdapter 4.0 release including:
    - Verified that caAdapter can read and parse an ArgoUML file
    - Addressed and closed several defects recorded in GForge’s tracker
    - Worked with the system group to update the Tool Landing Page
    - Made minor updates to various caAdapter documents
  + Continued caAdapter 4.0 QA system testing
  + Reviewed the candidate release including the software and the documentation
* UCUM SDK (Unified Code for Unit of Measures)
  + Conducted the requirements session with the domain expert
  + Updated the Use Case document to reflect the requirements gathered from the domain expert
  + This effort will be placed on hold due to the drop in the level of resources available to the team
* Global Model Exchange (GME)
  + Worked on analysis and research of the new caAdapter module to support the GME project
  + Met with the GME team to get understanding of the caAdapter new GME module requirements
  + Updated the requirements to include the new information gathered to-date

*CSM/CLM*

* QA, Stage and Production deployment and promotion.

The CSM team provided the QA, Stage and Production deployment package for deploying on QA, Stage and Production tier respectively. The team worked with Systems and other teams to update the download site, push to production by updating Zope site and GForge site. The CSM team is currently working with Systems team to get CIT AppScan clearance for CSM UPT.

* CSM 4.0 Documentation - Complete

The Team has started developing the documentation for all the changes in CSM 4.0. It will work with the documentation team to finalize on these documents. CSM Team will also work with SDK Team to provide documentation on how to enable security features for an SDK

* Biopharm CFR 21 / Part 11 Review Complete

CSM Team had sent the final documents to Biopharm and has received a Statement of Compliance.

* Support for other Teams – Ongoing

The CSM team provided support by solving various tickets which were received by Application Support. CSM Team also provided post production support for CSM and CLM v3.2

*caCORE SDK /APIs*

* + Email support – Provided email support to customer queries
  + caBIO API Support – Provided performance tuning support for caCORE SDK 4.0. caBIO database had performance problems in the Location table. The performance was improved by removing unnecessary sub-select from the query. Performance related to getting associated object was improved by using explicit left joins in the queries.
  + caDSR API Support – Provided training to the caDSR team to understand SDK 4.0 system and how to use it. Also providing suggestion to the caDSR team on how to improve performance of the API using the lesson learned from other systems.
  + EVS API Support – Provided support to the EVS API team to identify the pitfalls in the packaging of EVS API as well as provided support for integrating EVS API with caDSR tools for testing.
  + QA Support – Provided support to the QA vertical to test the defects
  + Defect Fixes – Performed defect fixes in the SDK primarily related to the performance. Additional defects were
  + Pfizer presentation – Presented the caCORE SDK tool and its features to Pfizer for usage in their internal environment
  + Release preparation – Prepared release package for SDK 4.0. In addition to that, ZOPE website and the download site content was prepared and communicated with the appropriate teams so that they can be made available at the time of the release.
  + Documentation – Completed the migration guide for users to upgrade from SDK 3.x to SDK 4.0. This document has been added to the SDK 4.0 release documentation

caCORE Perl API

* none

**Planned**

*caCORE Product Line*

*EVS*

BiomedGT Content

* + - Classification of batch loaded content.
    - Batch load nutrition terminology update from NCIt into the wiki
    - Continue sandbox experiment application of BFO and with separate Navigation hierarchy and population of the hierarchy based on inference from the ontology modeling.

Project: caCORE/EVS API –

* + - Execution of EVS/LexBIG task plan

Project: Terminology Portal Applications –

* + - Continue user acceptance testing for NCBO Bioportal (NCI version)
    - Bug Fixes (see GForge)

Project: NCI Protégé Software and BiomedGT wiki implementation

* + - Continue to execute 1.2 Release bug fixes and enhancements (code freeze Nov 21), including early version of workflow and integration of classification services, and PROMPT bug fixes.
    - Implement a copy of BiomedGT wiki through the firewall.
    - Finish early version of forms sufficient for prototyping with collaborators for alpha release end of year.
    - Additional enhancements to existing extensions.
    - Check the MySQL collation and character settings on the Dev system.  Investigate the possibility of converting them all to UTF-8.
    - Get all updates deployed to BiomedGT.org and the QA system.
    - Update wiki content to reflect latest version of NCIt
    - Improve display of proposal changes on main page; improve autocomplete function

*caDSR*

* + - * **Post caCORE 3.2 Iterations** 
        + Deploy Form Builder 3.2.0.3 to Production
        + Deploy SIW/UML Loader 3.2.1.2 to Production
        + Plan for subsequent iterations
  + Coordinate automated deployment of the CDE Curation Tool to Production
  + Create list of product enhancements based on VCDE/Architecture requirements
  + Create scope document for Curation Tool v3.2.0.5
  + Coordinate caDSR database upgrade to Oracle 10g on QA, Stage and Production
  + Review Sentinel Tool code changes with OmniComm for adoption into mainstream code base.
  + Coordinate v4.0 caCORE candidates, schedule and resources with caCORE team.
  + Complete the database credentialing work; conduct unit tests and deploy to DEV
  + Begin coding changes to CDE Curation Tool Value Domain UI to optimize visual space and reduce scrolling.
  + Conduct design reviews for caDSR tools
  + Perform impact analysis on final changes to VM to replace SHORT\_MEANING with VM\_IDSEQ
  + Continue to track user feedback and report bugs in GForge for all tools
  + Design an automated deployment script for the Freestyle Search API
  + Continued coding extended concept search for the Freestyle Search API
  + Identify additional candidate UI refresh/performance issues in the Curation Tool, design improvements and begin coding changes

*caDSR Training*

* + Complete Course 2110: Silver Compatibility SOP
  + Complete Course 3110: Conducting a Silver Level Compatibility Review
  + Complete revisions to caCORE Curriculum for versioning to 2.0 (12/31/2007)
  + Review the Confluence Wiki features and functionality
  + Review caCORE Training website content
  + Create new role of Project Manager for the caCORE Curriculum; develop course to support Project Managers to support their decision making process for making an application, data set or service caBIG Compatible.
  + Identify caCORE training content that is applicable to the caBIG Bundle adoption community; create a new role and recommended curriculum to support this.
    - * **Other**
        + Deploy GME iteration 1 (SIW 3.2.1.2) to Production; re-engage other caCORE teams in the GME development process
        + Monitor eDCI message development
        + Continue work on refactoring CDE Browser / Form Builder software.
        + Draft initial scope and approach plan for Form Builder next generation

*caAdapter*

* None reported

*CSM/CLM*

* CSM/CLM 3.2 Next Release Scope Planning

After completion of Iteration 3 (Instance Level Security), the team will revisit requirements for the next Release. Detailed plan would be prepared for this iteration which would include the most high priority requirements. They will be discussed with the NCICB Management.

* Post Release Support

The CSM Team will provide Post Release Support to the CSM, CLM and CSM SDK release.

*caCORE SDK/API*

* Release caCORE SDK 4.0
* Communicate new release to the community
* Provide support to users in using caCORE SDK 4.0

**Outreach and Communications**

* **Current**

*caCORE Product Line*

*caDSR*

* + Participated in caCORE Team meetings
  + Participated in caDSR User Meetings
  + Participated in NCICB Change Management Meetings
  + Participated in caCORE Content Meeting
  + Attended meetings for Automated Build & Deployment
  + Attended meeting with caBIG VCDE/Architecture Workspace representative
  + Participated in management and technical discussions regarding the caDSR Tools current and future development

*caDSR Training*

* + Participated in Context Administrator’s Meetings
  + Participated in VCDE Workspace Meetings
  + Participated in Documentation and Training Workspace Meetings
  + Participated in LMS Change Management telecon
  + Continued to meet weekly with caBIG Project Manager
  + Continued to deliver online web-based training sessions
  + Participated in weekly training status meetings
  + Participated in BIRN conference meetings
  + Participated in bi-weekly caBIG Documentation and Training WS calls
  + Participated in bi-weekly caBIG VCDE WS calls
  + Participated in CBIIT Compatibility and other training discussions
  + Attend and support BIRN / caBIG Technical Assistance Workshop in DC, Oct 18, 2007

*caAdapter*

* Participated in the caCORE user and developer meetings
* Met with the domain expert to collect additional UCUM SDK requirements
* Conducted a demo of caAdapter 4.0 for a group of users from Merck
* Met with the GME team on the caAdapter new GME model requirements
* **Planned**

*caCORE Product Line*

*EVS*

* + Prepare for AMIA meeting in November (presentations).

*caDSR*

* caCORE Software User Meetings
* caDSR Content Developers Meetings
* Form Builder meetings
* eDCI Meetings
  + - * Participate in weekly training status meetings
      * Participate in BIRN conference meetings
      * Participate in bi-weekly caBIG Documentation and Training WS calls
      * Participate in bi-weekly caBIG VCDE WS calls
      * Participate in CBIIT Compatibility and other training discussions
      * Participate in CTME F2F Federated Data Query and Dynamic Extensions discussion
      * Conduct/Participate in Next Generation Forms discussion
  + Continue to track user feedback and report bugs in GForge for all tools (ongoing)
  + Continue to provide support in resolution of caDSR user questions (ongoing)

*caDSR Training*

* + Continue to deliver online web-based training sessions as needed
  + Continue to participate in weekly training status meetings

*caAdapter*

* + - Continued participation in the caCORE user and developer meetings
    - Continued participation in the GEM meetings

**Issues and Recommended Solutions**

*caCORE Product Line*

*caDSR*

* + - Contractor time away from the project:
* Christophe Ludet has Grand Jury duty every Thursday through the end of November
* Prerna Aggarwal will take an extended vacation from November 1st through November 25th

Solution: Project plans adjusted accordingly; additional project resources expected 12 November

* + - Off-site hosting: concerns about unknown impact of hosting caCORE services in different location than the databases. It means that the connection from the server hosting cacore32 services would access at least one or more of the 3.2 databases (caDSR, EVS, caBIO) over a VPN connection instead of a LAN/cohosted. Currently have asked that the 3,.2 services be cohosted with caDSR the services are used to support UML Model Browser and other caCORE tools with User Interfaces….but this may cause too much of a hit when accessing EVS concepts in Curation Tool.

Solution: set up the environment and test/benchmark with current production to see what the impact is. Options include moving Curation Tool to EVS 4.0 sooner than later.

* + - Move to 10g is taking longer and more effort on Development Team than anticipated

Solution: 2-3 trouble tickets reported to Oracle and fixes being applied on Dev

**Conferences and New Items**

*caCORE Product Line*

* + Attend CTMS F2F Meeting