Protege 1.4 Scope Document

Protégé 1.4 Scope Document

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Document Information

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Client: NCI CBIIT
National Institutes of Heath
US Department of Health and Human Services

Sign off	Date	Role	CBIIT or Stakeholder Organization
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The **purpose of this document** is to collect, analyze, and define high-level needs and features of the National Cancer Institute Center for Biomedical Informatics and Information Technology (NCI CBIIT) Protégé Release 1.4. This document focuses on the functionalities proposed by the product stakeholders and target users in order to make it a better product. The use-case and supplementary specifications document will detail how the framework will fulfill these needs.

Vision and Needs

The **objective of this release** of Protégé 1.4 is to harden Protege so the project can go into an operation and maintenance mode of operation in lieu of actively developing new releases of the product containing new features. Protege 1.4 is planned to be the last major release of Protégé.

This release will be performed over five iterations:

Iteration B0 - will focus on merging the 1.3 branch with trunk and will not include the explanation server and explanation tabs.

Iteration B1 - will be a refactoring and hardening iteration focused on making improving and stabilizing the code base.

Iteration B2 - will focus on bugs that were discovered during QA of the 1.3 release and need to be resolved. Any critical 1.4 release bugs found at this point will be fixed as well.

Iteration B3 - will focus on highly desirable "Nice to Have" features.

Iteration B4 - will be dedicated to fixing defects found in 1.4 that are "must haves". Since 1.4 is currently planned to be the last major release, all critical fixes need to be resolved.

Current Solution

Protégé 1.3 is in production currently and a Protege 1.3.0.1 patch release is scheduled to be released before Protege 1.4 is released.

Iteration B0 (merge into trunk)

GForge number (hyperlinked)	Brief description of item	(Approved or Proposed)
—	Merge the 1.3 branch with trunk and create a 1.4 branch.	Approved

Iteration B1 (refactoring and hardening)

GForge number (hyperlinked)	Brief description of item	(Approved or Proposed)
5967	New concepts go to bottom of the sibling list, rather than alphabetical (C)	Approved
8851	Hardcoding of 'special' classes or properties in NCIEVSHistory and NCIConceptHistory plugins (C)	Approved
10811	Restriction change frozen out (C)	Approved
11018	catch client exception when server is down or being bounced (C)	Approved
11891	deleting classes can cause spurious values showing up in class browser (C)	Approved
13856	When client left open, log file grew to 4 GB (C)	Approved
16533	Unnecessary warning when leaving Copy or Edit pane (C)	Approved
18978	frame caching refactoring. (C)	Approved
18981	Switching subtabs in nciedittab is slow (C)	Approved
18988	Modifications to the reasoning server to support storage plug-ins (C)	Approved
18989	Add context information in reasoner client/server protocol to reject updates to unrelated ontologies (C)	Approved
18990	Reasoner URL as per-project preference (rather than per Protege Server) (C)	Approved
18995	Update C&P Custom Reasoner Plug-in to better integrate as a Protege Reasoner Plug-in (C)	Approved
18996	Update Reasoner Server the latest released version of Pellet 2 (C)	Approved
14480	Make NCIEdit subtabs configurable (E)	Approved
16120	Addition of a date tag to retired concepts and to merged concepts (E)	Approved
18663	Synchronization Errors for Domain Changes of Annotation Properties (CB)	Approved
18232	Language should be serialialized as xml:lang attribute (CH)	Approved

Iteration B2 (1.3 and 1.4 bug fixes)

GForge number (hyperlinked)	Brief description of item	(Approved or Proposed)
16191	Export of inferred Ontology - Tweaks to output file (A)	---
18611	insertion of Brackets in Preferred Name Display	Approved
18599	Language display (B)	Approved
18319	port EVS history plugin to support db inclusions (B)	Approved
3954	Merging two concepts with incoming roles should not result in duplicates (B)	Approved
15889	Merging two concepts with incoming properties should not result in duplicates (B)	Approved
15175	Invalid classification findings if premerge or pre-retire exists (B)	Approved
15381	Adding restrictions and the Advanced Query (B)	Approved
13613	Does not change status of workflow to Updated when manager edits a concept (B)	Approved
16140	Copy Tab allows save of class with duplicate restrictions (B)	Approved

16753	Retain slot delimiters in LQT export (B)	Approved
16926	:ROLE concrete - Prompt bug fix (B)	Approved
16928	Ampersands in property values affecting copy/clone function (B)	Approved
9101	Automated creation of $EVS_{HISTORY}$ and $CONCEPT_{HISTORY}$ tables on first use (B)	Approved
9298	Prompt - accept and reject icons in 'changed by' panel of 'table' view don't work (B)	Approved
11115	PROMPT- 'Table View' crashes after visting 'Show sources' window (B)	Approved
12358	PROMPT- Reject button in Tree view produces error message to the console (B)	Approved
14404	If character in slot matches delimiter then export misaligns values (B)	Approved
16873	History records created on classification in client--server mode (B)	Approved
16983	Duplicates Items displayed on the main menu. (B)	Approved
17450	Loss of Concepts form the Hierarchy (B)	Approved
17777	AQP sometimes returns an incomplete result set (B)	Approved
17926	Ontology imports cause data problems when loading the explanation server from a Protege database (B)	Approved
18163	Triple click on Change History causes UnsupportedOperationException (B)	Approved
18210	User can drag and drop a concept which has not been pre-merged into a merge pane. (B)	Approved
18497	RuntimeException when you click 'Edit form of type...' button on Edit tab (B)	Approved
18533	Changes Tab does not reflect items created in Batch Load. (B)	Approved
18588	Lucene query tab default setting will not search PATO (B)	Approved
18589	LQP view class buttons do not appear for class in PATO. (B)	Approved
18820	Package status not being updated in workflow. (B)	Approved
18929	A classifier run tags all concepts with protege:inferred properties. (B)	Approved
18930	PROMPT tab allows start of compare even when another compare is running. (B)	Approved

Iteration B3 (highly desirable nice to have features)

GForge number (hyperlinked)	Brief description of item	(Approved or Proposed)
18831	LQT needs label at bottom to identify protege instance (I)	---
18598	Changes Tab says No Action for property edits (H)	---
2950	String fillers on object properties - Stanford (H)	---
3945	Definition and Long Def property should only allow NCI as a source. (H)	---
7118	Restrict Delete action by date (H)	---
7520	Default $editor_{note}$ & designNote when pre-retiring (H)	---
7618	Start-up time of Protege is slow (H)	---
8918	Allows paste of Preferred Name but can not delete. (H)	---
8947	Modal dialog does not stay on top (H)	---
8989	Selection of Properties in Report Writer (H)	---
8990	Report Writer output format. (H)	---
13848	Allow search on null in AQP. (H)	---
14786	Focus jumps to new project after final row deleted. (H)	---
14805	Have batch load verify all STYs are correct when loading. (H)	---

15174	No copy option on right click menus for Split function. (H)	---
15493	Default Task Description of new Workflow assignment has typo. (H)	---
15664	Assumption of role groups. (H)	---
15752	In copy pane, modify restriction does not remember filler value. (H)	---
16163	Addition of Superclass in Copy/Split/PreMerge - allow 'defining' superclass. (H)	---
16620	Report writer feature request. (H)	---
16775	Simplify adding a role. (H)	---
16839	Each change needs to be associated with an editor. (H)	---
16887	Add definition field to window when cloning a class. (H)	---
17210	LQP/AQP - selection and output of superclasses. (H)	---
17212	LQP/AQP - search for concepts lacking a property. (H)	---
17213	Selection criteria for concepts to be exported via LQP/AQP export function. (H)	---
17214	Report writer - add export function currently in LQP/AQP. (H)	---
17760	Workflow improvements. (H)	---
18177	Incorrect display of LQT search criteria. (H)	---
18536	Batch Load of new concepts interferes with other editors creating concepts. (H)	---
18616	Save of $concept_{history}$ in NCI_{DB} format after Prompt should be altered or automated. (H)	---
18959	sort of inferred results panel. (H)	---
18982	gui refresh on switching apps back to protege. (H)	---
18997	Protege tab for reasoning server administration (including status information & kb reload). (H)	---
18999	Serialize state at explanation server shut-down so start-up can be incremental since previous run. (H)	---
19000	Reduce reasoning time for explanations which include domain or range axioms. (H)	---
2948	Domain and Range checks on property restrictions at edit time. (I)	---
3941	Duplicate Role Groups should not be allowed, even if roles are ordered differently. (I)	---
8302	Need automatic cursors in filler windows. (I)	---
8375	Display attributes in tree form on Copy tab. (I)	---
8590	Allow user to modify Superclasses in Copy tab (I)	---
8609	Retain frame sizes after switching tabs. (I)	---
8612	Display recently used classes in drop down of search. (I)	---
10987	Modify Name Superclass dialog should be eliminated. (I)	---
12337	Automated configuration of server project. (I)	---
12815	Track the last modeler who modified the assignment. (I)	---
12817	Creating new workflow assignments. (I)	---
12935	text is not trimmed. (I)	---
13951	Modal messages to other viewer. (I)	---
15003	NCIWorkflow - reorder columns (I)	---
16099	Complex property dialog layout goes crazy when a very long definition is entered. (I)	---
16100	Error message when $full_{syn}$ has a tab or new line is confusing. (I)	---
16121	Button to make a concept defined. (I)	---

16152	Display of NCIEditTab Build Version. (I)	---
16255	Disable the Merge tab when the user is not allowed to merge. (I)	---
16347	Colors of text in copy, split, retire, merge and workflow panes are too dull. (I)	---
17570	Confusing message to the user when you drag the retiring concept into surviving concepts pane.(I)	---
18116	LQT export of results is exporting entire path. (I)	---
18164	query in changes tab search box gives ""Please enter an expressioin"" error". (I)	---
18583	Hierarchy View too cluttered. (I)	---
18961	queries in change tab. (I)	---
18998	Load explanation server from the Protege KB using the OWL API converter in Protege 3.4. (I)	---

General Support Activities

This section describes in detail all the related activities which must be performed for this release but do not add functionality. These activities are included in the scope and project plan due to level of effort or relative importance to the overall success of delivery of the release.

GForge number (hyperlinked)	Brief description of general support activity	Iteration (Approved or Proposed)
—	Example, "Level 2 Support, integration of help and training to the user community."	—

Stakeholder Summary

Customer Name	Role	Interest/Need
NCI CBIIT EVS Content Editorial Team	EVS Content Management	Primary Users of Protege. Utilize Protege to edit EVS content

CBIIT Staff /Contractor Name	Role	Responsibilities
George Komatsoulis	NCI CBIIT	Oversees NCI CBIIT Application Infrastructure
Avinash Shanbhag	Director of CORE Engineering	Oversees NCICB caCORE Software Engineering
Frank Hartel	EVS Product Manager	Directs EVS Projects
Sherri de Coronado	Contract Project Officer	Management/technical resource from Bioinformatics vertica. Contract management, coordination, testing, documentation
Gilberto Fragoso	Government Lead	Technical resource from Bioinformatics vertical

Technical Environment

This product uses the following technical components which have been derived from the current NCICB Technology Stack.

Component	Description
Client Application	The Protege client is java based and provides a complete editing environment for Protege databases, call ontologies. It uses the same plugin architecture to support extensions, called Tabs. For example, the NCI Edit Tab, Workflow, Changes, and Prompt, are examples of plugin tabs. Java 1.5.x
Application Server	None
Database Server	MySQL
Operating System	Any that supports Java: Windows XP, Linux, OS X

Other	Portable ANSI-SQL compliant relational schemas

Product Dependencies

This release is dependent on the caCORE components or products documented in the CORE Product Dependency Matrix.

Provide additional explanation as applicable. For example, "The EVS vocabulary systems are used by the Java client to retrieve and validate concept information for naming and defining meanings."

Out of Scope Items

Items that are out of scope were evaluated as part of the initial scoping activities for this release, and subsequently not included in the final approved scope. These items are also documented in the cumulative backlog of requirements found on the product GForge site. They include out-of-scope functional requirements (enhancements or new features), bug fixes, non-functional requirements, and general support activities.

GForge number (hyperlinked)	Brief description of item moved from the in-scope section with brief explanation added of why it was not included in this release	Iteration during which the item was removed from in-scope
—	—	—

Document History

Item	Information
Document Version:	Click the Info tab. View the Recent Changes or click the link to view the page history.
Last Modified:	Refer to the first line displayed in the document window.
Project GForge site:	EVS Collaborative Terminology Dev Tools GForge project Docs archive, Files archive
Most current version:	Unless the display includes a notice that you are viewing a previous version, you are viewing the most current version of this Scope Document for the release indicated in the title.
Revision history:	Click the Info tab. In the Recent Changes area, click the link to view the page history.
Review history:	Click the Info tab. In the Recent Changes area, note the developer who made each change and the date and time. Refer to the Key People Directory for their roles. Click the link to view any page or to view the page history, and then click the link for a page. When the page opens, view the comments and changes made in that version.
Related documents:	Name and URL of each related document

Project Information

CBIIT Management	Role	Responsibilities
Frank Hartel	Product Manager	Oversees development of the product: features, functions, definition of stakeholders, priorities within the scope, timeframe for release
Avinash Shanbhag	Engineering Manager	Oversees NCICB caCORE software engineering practices, conducts design reviews, guides technical development
Denise Warzel	Product Line Manager	Oversees NCICB caCORE product line. Responsible for overall product integration, major and minor release cycles. Supports Product Manager.