



SemanticMining

NoE 507505

Semantic Interoperability and Data Mining in Biomedicine

Deliverable 25.2

Concept Systems for Laboratory Medicine

Delivery date: month 17

Report Version: 1

Report Preparation Date: 2005.06.18

Dissemination level: RE

Associated work package: WP25

Lead contractor:

LiU-C-NPU, prof Urban Forsum, Linköping University

Project funded by the European Community under the FP6 Programme "Integrating and Strengthening the European Research Area" (2002-2006)



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Administrative information

Lead contractor/partner for WP/Deliverable: LiU-C-NPU, Linköping University

Author list: prof Urban Forsum, PhD Daniel Karlsson

Summary

The work package is meant to provide a forum for researchers developing connectivity between biobanks, analytical laboratory medicine and the electronic health record. The first phase of the project focused on ways of interaction between the C-NPU and LOINC in meeting communication and laboratory needs for systematic and metrological correct nomenclature in describing and communicating properties in laboratory medicine. In the second phase, reported now, a systematic exploration of means of communicating properties of a qualitative nature and an ontology for representing properties including “dedicated kind-of-property” has been formulated and put to use in working out a heavily revised draft European standard (CEN pEN 1614) for terminology and categories to be used in representation of examinations in European laboratory medicine standards. In parallel the draft standard has been introduced by the Swedish ISO representative to ISO as a possible ISO standard.



1 Overview

1.1 Objectives

<i>Objectives</i>	<i>Progress towards achieving objectives</i>
The work package is meant to provide a forum for researchers developing connectivity between biobanks, analytical laboratory medicine and the electronic health record.	1. Activities: to work out ways of interaction between the C-NPU and LOINC in meeting communication and laboratory needs for systematic and metrological correct nomenclature in describing and communicating properties in laboratory medicine. 2. Formulation of the draft CEN European standard pEN 1614.

1.2 Milestones

<i>Milestone</i>	<i>Planned date</i>	<i>Actual date</i>	<i>Comments</i>
Discussions with Ingvar Johansson during NoE net work summer school 2004 on immanent realism and ontological determinables	2004-06	2004-06	Key intellectual network interactions for fundamental concepts to be used in the execution of the work done in WP25.
Formulation of the revised draft European standard CEN pENV 1614	2005-03-10	2005-04-07	See appended manuscript

1.3 Project meetings

<i>Meeting</i>	<i>Planned date</i>	<i>Actual date</i>	<i>Comments</i>
Regular, monthly project meetings, Linköping University			Continuously scheduled
Meeting on Terminology in Laboratory Medicine at the Regenstrief Institute University of Indiana. Attending: Daniel Karlsson, Urban Forsum, Clem McDonald, Gill Hill and Stan Huff.	September 2004	2004-11-22- 2004-11-26	Purpose: to discuss and work out ways of interaction between the C-NPU and LOINC in meeting communication and



			laboratory needs for systematic and metrological correct nomenclature in describing and communication properties in laboratory medicine.
Meeting with René Dybkaer Copenhagen Denmark 2005-02-02. Attended by Urban Forsum and Daniel Karlsson		2005-02-02	Purpose: to discuss and work out ways of representing the concept “dedicated kind-of-property” in the European standard CEN EN1614
C-NPU committee meeting in Leiden the Netherlands 2005-03-06. Attended by Urban Forsum and Daniel Karlsson-.		2005-03-06	Presentation of the draft CEN standard EN 1614 to the C-NPU
CEN/TC251 WG2 Berlin Germany Attended by Daniel Karlsson		2005-05-12	Presentation of the draft CEN standard EN 1614 to CEN/TC251 WG2

1.4 Deviations from Plan

<i>Causes and Description</i>	<i>Corrective actions</i>

2 Main Results

See appended documents:

Forsum U, Hallander HO, Kallner A, Karlsson D, Impact of qualitative analysis in laboratory medicine. TrAC-Trends in Analytical Chemistry, 2005, 24: 546 -555.

Forsum U, Karlsson D, Terminology, categories and representation of examinations in laboratory medicine. Clin. Chem. Lab. Med. 2005;43:344-345.

European Prestandard, Health care informatics (ENV 1614)
Structure for representation of dedicated kinds of property in laboratory medicine
Draft, working group Urban Forsum and Daniel Karlsson, 2005-04-07