

Deliverable 5.4B

Data Category Usage Platform - documentation

Project reference number	e-Content-22236-LIRICS
Project acronym	LIRICS
Project full title	Linguistic Infrastructure for Interoperable Resource and Systems
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Document title	Data Category Usage Platform
Deliverable ID	D5.4.B
Document type	Report
Dissemination level	Public
Contractual date of delivery	M18
Actual date of delivery	30 June 2006
Status & version	Draft
Work package, task & deliverable responsible	WP5, USFD
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Additional contributor(s)	
Keywords	Data Category Usage Platform

Document evolution

version	date	version	date
0.1	25/01/06		
1.0	15/12/06		

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1 Introduction.

This document describes the how the open source tool LEXUS will be extended to allow users to find and re-use existing data categories and to offer a framework to define new ones.

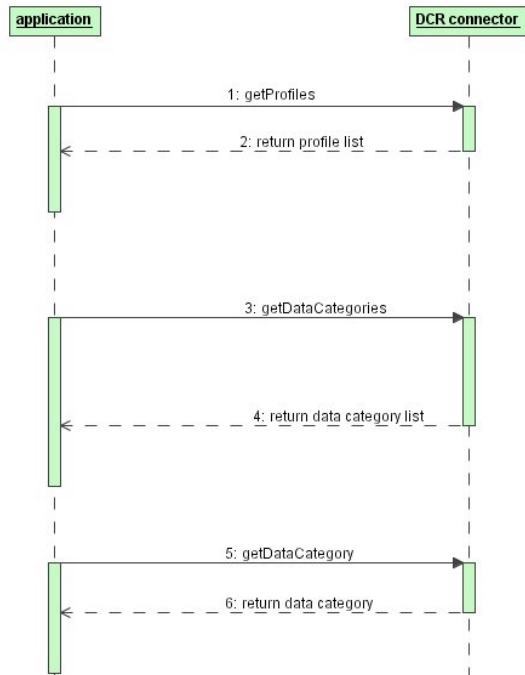
The software for connecting to the Data Category Server allowing users to search, browse and retrieve data categories of their interest is delivered as a standalone software package allowing other application developers to integrate this functionality into other applications. It shields the developer from the intricacies of communicating directly with the web based service provided by the Data Category Registry Server. Since this server implements a parameterized HTTP request based operation approach rather than a web service approach (WSDL and SOAP) transformation of the operation and parameters into the appropriate request needed to be shielded from the developers using a custom approach. In normal web service operation this is done by appropriate tools generating the necessary client code.

The software implements the full interface as defined in task 5.1 as set of Java classes describing the interface, its implementation and supporting classes.

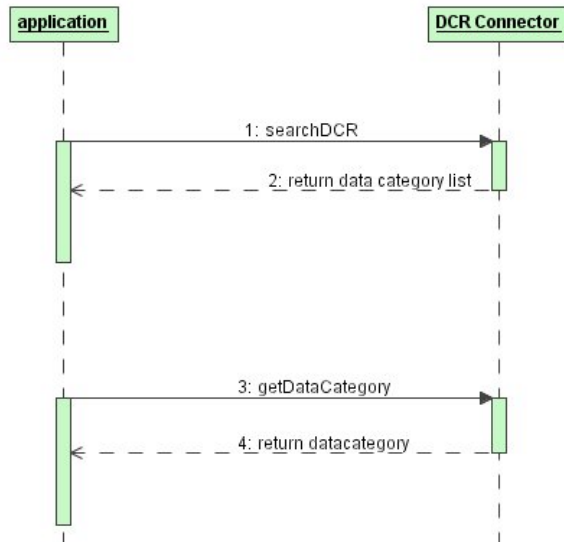
2 Use case summary.

The following use cases have been specified and implemented on the SYNTAX DCR server

- Browse catalogue(basic browsing)
 - Standard navigation over the DCR is done by selecting a profile of interest after which a list of data categories are retrieved from the DCR that are part of this profile. Optionally, a registration status may be specified to limit the number of data categories to be retrieved from a profile to only those with the specified registration status.



- Search catalogue
 - The DCR may be also searched by specifying the search terms and optional parameters such as profile to search or data category sections(title, description etc) to search. An overview of the interaction is shown below.



3 Implementing DCR access.

A user may browse the ISO 12620 DCR by selecting a profile. The data categories from the selected profile are displayed allowing users to either view the details of the data category or insert the data category specification directly into their LMF model.

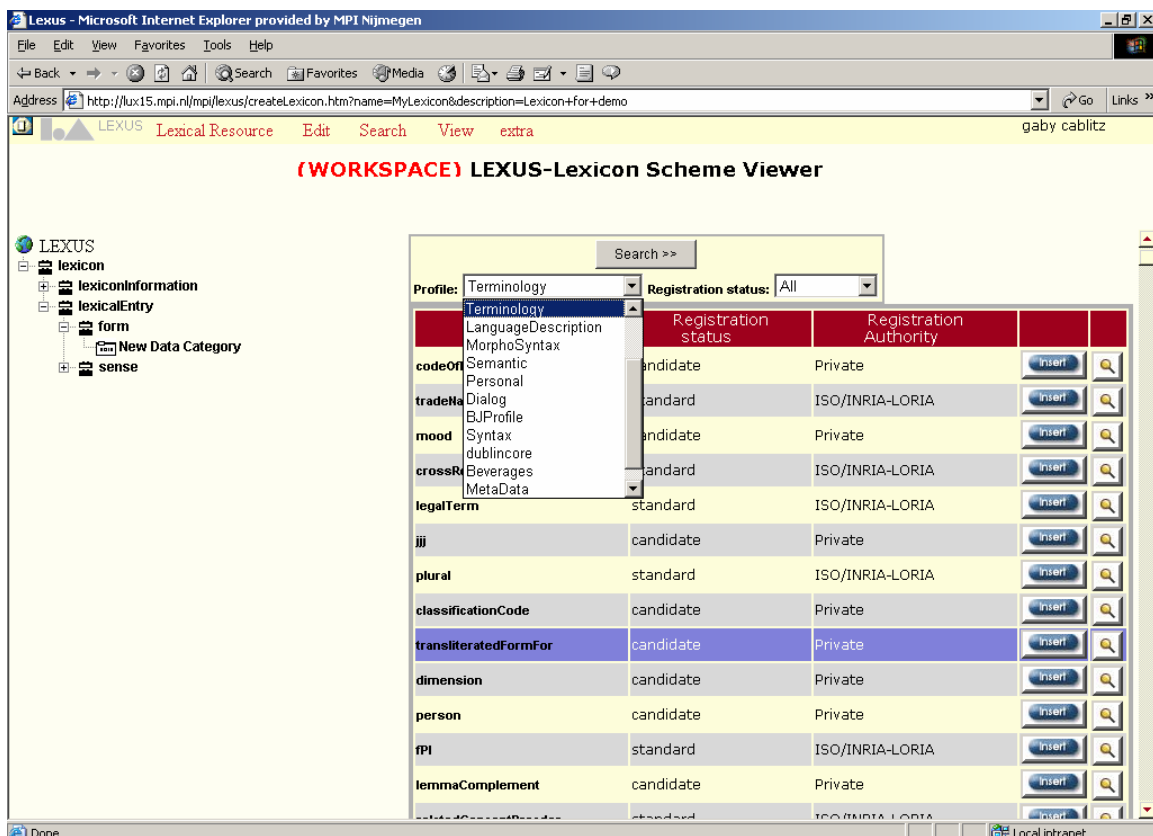


Figure 1: Profile browsing.

DataCategory details transliteratedFormFor - Microsoft Internet Explorer provided by MPI Nijmegen

Data category information

transliteratedFormFor (Terminology)

Administration Identification

Identifier: transliteratedFormFor
Version: 0.0.0
Registration authority: Private
Registration status: candidate
Administration status: Private
Origin: ?

Creation date: 2004-07-09
 12620-2:2003; 12620-3:2003

Last change date: 0000-00-00
 ?

Effective date: 2001-09-09

ExplanatoryComment

Description

Profile: Terminology

Definition	Source	Note
A linking element used to identify a relation between a transliterated form and its orthographic representation in its native script form.	ISO12620	

Explanation	Source	Note
The identification of a term relation between a transliterated form and its native script form enables a termbase designer to indicate in a machine-readable way which of several possible synonyms appearing in a terminological entry comprises a non-native representation of a term. There may be a number of different transliterated forms for the same term, in which case, this item can be repeated.	Mitre	

Figure 2: Datacategory details

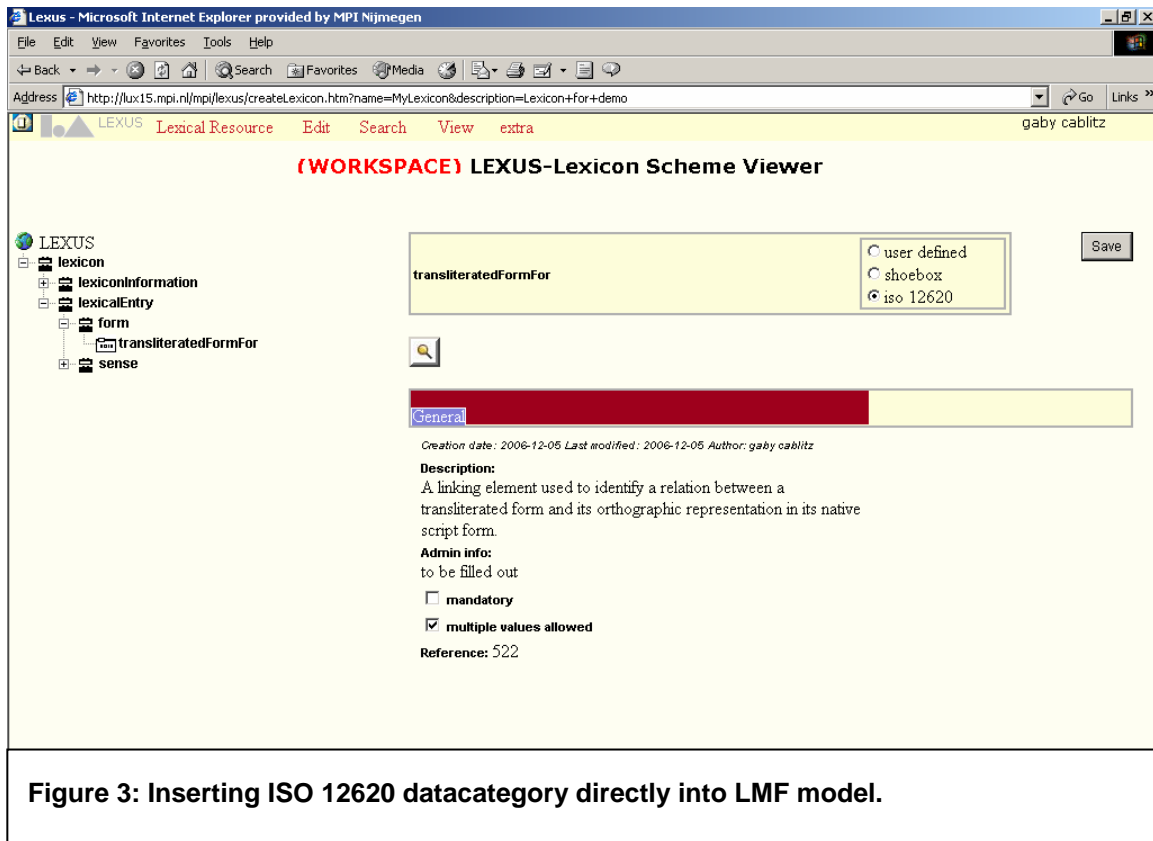


Figure 3: Inserting ISO 12620 datacategory directly into LMF model.

Another method of accessing data categories in the DCR is by searching the DCR for information matching the specified search criteria. Search across a number of fields is supported allowing the user vary the scope of the query. Details of the search result may be viewed or one of the results may be inserted directly into the LMF model.

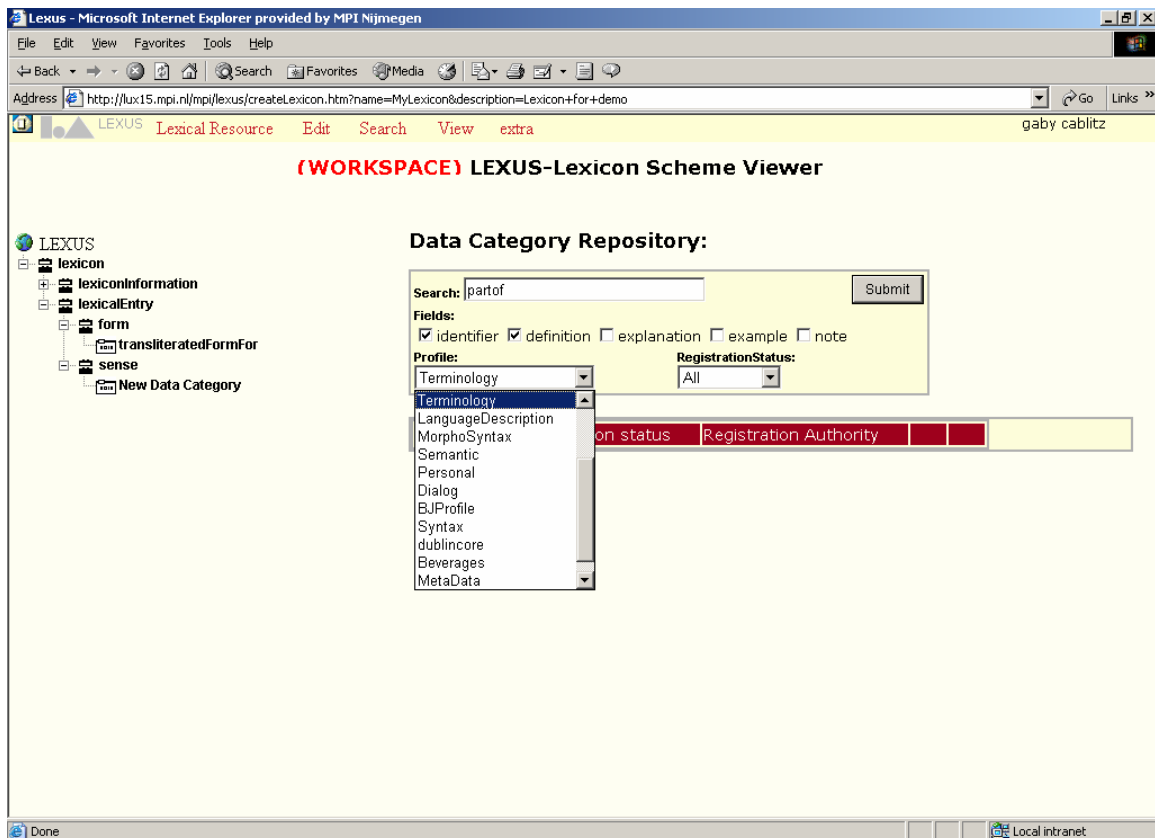


Figure 4: Specifying search criteria.

The LEXUS tool also allows users to define data categories directly. However, these may not be added to the ISO 12620 DCR directly since the ISO 12620 DCR does not support direct programmatic insertion of newly defined data categories into the DCR.

Lexus - Microsoft Internet Explorer provided by MPI Nijmegen

File Edit View Favorites Tools Help

Address http://lux15.mpi.nl/mpi/lexus/createLexicon.htm?name=MyLexicon&description=Lexicon+for+demo

LEXUS Lexical Resource Edit Search View extra gaby cablitz

(WORKSPACE) LEXUS-Lexicon Scheme Viewer

LEXUS

- lexicon
 - lexiconInformation
 - lexicalEntry
 - form
 - transliteratedFormFor
 - sense
 - New Data Category

Data Category Repository:

Search:

Fields: identifier definition explanation example note

Profile: RegistrationStatus:

Identifier	Registration status	Registration Authority		
partOfSpeech	candidate	Private	<input type="button" value="insert"/>	<input type="button" value=""/>

Figure 5: Displaying search results.