



# MILESTONE REPORT

**Project Acronym:** OpenUp!  
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## Milestone 03 Sample data service mock-up for data quality services - zoology

**Revision:** Final

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**Authors:**

Tommi Koskinen (UH)  
Hanna Koivula (UH)  
Jörgen Palmgren (UH)

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Dissemination Level	
P	Public
C	Confidential, only for members of the consortium and the Commission Services



## REVISION HISTORY AND STATEMENT OF ORIGINALITY

### Revision History

Revision	Date	Author	Organisation	Description
1	2011-03-10	Hanna Koivula, Jörgen Palmgren, TMG-group	University of Helsinki	First Technology Management Group, Berlin. Preliminary outlining of data quality services, capable of processing zoological name lists.
2	2011-04-	Anton Güntsch	BGBM	Outline of the response defined an output format in XML
3	2011-05-12	Tommi Koskinen	University of Helsinki	Adoption on JSON as the format for both requests and responses. This aligned the API with the botanical data quality services
4	2011-06-13	Tommi Koskinen	University of Helsinki	A mockup of the service demonstrates the use of the API for zoological names.
5	2011-06-22	Tommi Koskinen	University of Helsinki	A mockup for demonstrating the use of the API for zoological concepts is put online

### Statement of Originality:

This deliverable contains original unpublished work except where clearly indicated otherwise. Acknowledgement of previously published material and of the work of others has been made through appropriate citation, quotation or both.

### Distribution

Recipient	Date	Version	Accepted YES/NO
Anton Güntsch	23.6.2011	5	YES
Work Package Leader (G. Malarky)	30.6.2011	5	YES
Project Coordination Team	30.6.2011	5	YES



## **API and mockup for the Zoological names quality service**

- The first version API followed the original proposal put forward by the coordinator of the Technology Management Group. This included accepting requests of name queries as URL parameters and producing output in XML. This simulation of the API used the eu-nomen.eu web site pages as data source. Pattern matching with regular expressions was used to obtain common names from for exact matches. The address for this version is :

<http://seitikka.fmnh.helsinki.fi/ns/common.php?names=canis%20lupus>

- An alternative API was put forward by the representatives of Kew. During a teleconference on the 12<sup>th</sup> of May, it was proposed to align both the botanical and zoological name services APIs along this interface. This new version of the interface uses JSON for both the request and response.

The following examples are best viewed using the JSONView plugin, which is available for the Firefox and Google Chrome browsers. Internet Explorer tends to offer the response for download and in this case the parameter &indent=true can be added to the request URL to get a structured text file for download.

The following example demonstrates multiple query mode with correct request parameters. Two data sources are used: a locally installed database of Catalogue of life and eu.nomen.eu web service via SOAP interface.

The first query string "cordulegaster dorsalis" returns a match from the Catalogue of life but not from eu-nomen.eu. The second query string "cygnus cygnus" returns a match from both sources.

[seitikka.fmnh.helsinki.fi/ns/?queries={\"q1\":{\"query\":\"cordulegaster dorsalis\"},\"q2\":{\"query\":\"cygnus cygnus\"}}](http://seitikka.fmnh.helsinki.fi/ns/?queries={\)

In the following example, both query strings "tribolium castaneum" and "branta leucopsis" return a match from both of the sources.

[seitikka.fmnh.helsinki.fi/ns/?queries={\"q1\":{\"query\":\"tribolium castaneum\"},\"q2\":{\"query\":\"branta leucopsis\"}}](http://seitikka.fmnh.helsinki.fi/ns/?queries={\)

The API includes a Metadata service: when the base URL with no parameters is called, a brief description of the service is returned:

<http://seitikka.fmnh.helsinki.fi/ns/>



A mockup demonstrating the use of the API for zoological concepts is available at:

<http://seitikka.fmh.helsinki.fi/ns/concept-check-mockup.html>