



Indexing for Life

Deliverable D3.1

New services of the CoL (demonstrator report)

Work package 3

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One of the objectives for WP 3 is to operate the new Catalogue of Life services developed in this project both to serve the i4Life Virtual Research Community and the public users of our services, including the CoL Download Service, the CoL Cross-mapping Service, and the GSD-Piping Service.

Description of deliverable 3.1 New services of the CoL operational (Download, Cross-mapping & GSD-Piping). [month 24]

Introduction

The i4Life project has developed three new services: the CoL Download Service, the CoL Cross-mapping Service, and the GSD-Piping & Name Placement Service. The new services developed in this project are both to serve the i4Life Virtual Research Community and ultimately the public users of the Catalogue of Life.

- 1) The CoL Download Service is designed to serve the i4Life Global Partners and wide range of the CoL users who need to download whole CoL database or its taxonomic sectors.
- 2) The CoL Cross-mapping Service is designed to serve the i4Life Global Partners and other CoL users who need to compare taxonomic checklists and cross-map its backbone taxonomies. This service will be used to support user interfaces which show the relationships between taxonomies and allow users to switch between them.
- 3) The GSD-Piping & Name Placement Service is designed to harvest all species names from the Global Partners, check them against the CoL checklist, identify 'missing' names from the CoL and place them in GSD accounts for further taxonomic assessment.

Design, development, testing and usage of these services are shared between all partners in the project.

The WP 3 demonstrator report is based on deliverables D2.2 (Enhanced Cross-map Service Specification), D4.1 (Enhanced CoL Download Service), D11.1, D11.2, D11.3 (Cross-map Service & Interactive Tools) and D12.1 (CoL Placement Service). This demonstrator report contains URLs and passwords to access all 3 services online. Each service tool is accompanied by appropriate documentation available on-line as deliverable reports on the i4Life website at www.i4life.eu.

Access details are provided to the Commission in a separate document.

The CoL Download Service

The enhanced CoL Download Service has been designed by members of WP 2 with consultancy from WP 3 and implemented by WP 4. The service has been tested by WPs 2 and 3 in years 1 and 2. The production version has been deployed by the systems manager under WP 3 on the staging and production servers at the University of Reading. The service is open for i4Life partners at present following concern by the Species 2000 directors that IPR agreements with Global Species Database providers need updating.

The CoL Download Service is available at http://www.catalogueoflife.org/DCA_Export/ (password protected). User instructions are given on the front page of the service.

The screenshot shows a web browser window with the following content:

- Browser Title:** i4Life WP4 Enhanced Download Service of the Catalogue of Life: Darwin Core Archive Export - Mozilla Firefox
- Address Bar:** www.catalogueoflife.org/DCA_Export/
- Page Header:**
 - i4Life WP4 Download Service of the Catalogue of Life: Darwin Core Archive Export**
 - i4Life** logo
 - Version 1.2 [r187]
- Text:**

This page offers an interface on the application that exports data from the Species 2000 & ITIS Catalogue of Life: 25th October 2012 (2012-10-25) in the [Darwin Core Archive format](#). Data can also be exported using [a webservice](#). The resulting archives can be imported into custom MySQL, PostgreSQL, SQLite and MS SQL Server databases using these [import scripts](#).

The export can be narrowed down to a specific taxon by selecting it from the menus. E.g. if you want to limit your export to a specific order, you can select that order from the menu by typing its name or by clicking the Show all button. By default, the complete data is exported but you can further limit the export by selecting a different option. Hover over the buttons to see exactly what is exported for each option.

Download a Darwin Core Archive for the [complete Catalogue of Life](#) (100.8 MB) or [download a previous edition](#).
- Form:**
 - Top level group: [dropdown menu]
 - Phylum: [dropdown menu]
 - Class: [dropdown menu]
 - Order: [dropdown menu]
 - Superfamily: [dropdown menu]
 - Family: [dropdown menu]
 - Genus: [dropdown menu]
- Buttons:**
 - Classification only
 - Limited data
 - Complete data
 - Clear
 - Download
- Footer:** Apache/2.2.16

Catalogue of Life GSD-Piping Tools for the Taxon & Name Placement Service

The CoL Piping Tools have been designed and implemented by WP 12 employees in collaboration with WP2. The service has been tested and used for partitioning and placing name lists into GSD accounts for the i4Life pilot projects in year 2. A staging version of the piping tools has been deployed by the systems manager of WP 3 on the workbench server at the University of Reading. The service is open for i4Life data managers (supply side and process monitor) and GSDs (distribution side and process monitor).

The CoL Piping Tools Supply Side interface is available at <http://www.catalogueoflife.org/piping/> (password protected).

User instructions are given on the front page of the service. Note – name lists in the user accounts have been frozen and cannot be changed because they are in use by pilot projects.

i4Life Piping Tools Help

Login: *admin*

Help

- [Manually Uploading](#)
- [DwC-A Uploading](#)
- [BOLD Uploading](#)
- [X-map Uploading](#)
- [Uploaded Data](#)
- [Data Summary](#)
- [User List](#)
- [Change Password](#)
- [Piping Tools Settings](#)
- [Sign Out](#)

Introduction
This is the supply side Piping Tools interface. The menus of the tools interface are located on the left of the page. To select a menu, just click on them.

Manually Uploading
This page is for uploading cvs data file directly into taxa table. Use "Data Columns Setting" to select fields which match your taxa table for upload. The order of the field selected should be the same as your table. The "Default Setting" would preset the following fields: "Taxon ID, Genus, Specific epithet, Scientific name authorship, Intraspecific epithet, Verbatim taxon rank, Family, Order, Class, Phylum, Kingdom". Use the "Clear" button to clear all selected fields. Use the radio buttons to select source of the upload data: "File" for local file on your PC; "URL" for data which can be read on a remote server; "File on server" this option is for "admin" of the Piping Tools only. In the "Other Options" section, you can choose to ignore the first row of data for you upload as well as select different field delimited characters. The "Tag for this upload" is an optional input which will tag this particular upload with the given tag name, if no tag name is given, the program will generate a unique tag automatically which is comprised of year, month, data and the starting internal ID for the uploading records. After you have set all the correct options, you then press the "Upload" button to start the upload process. After the data been uploaded, you would be automatically re-directed to Uploaded Data page.

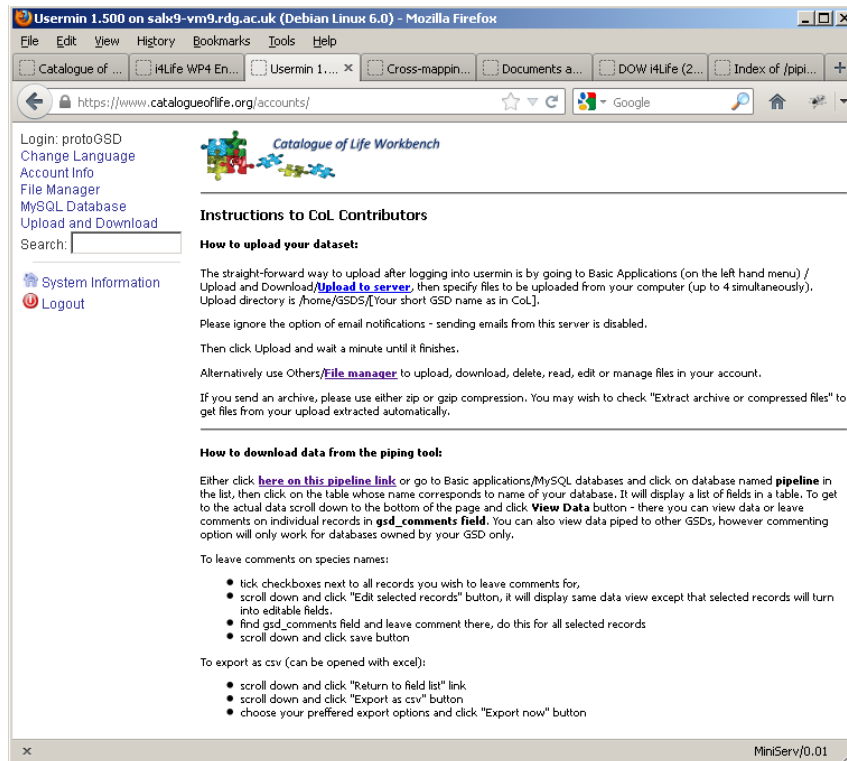
DwC-A Uploading (Admin Only)
This page has four buttons for uploading data directly from "CBOL, ENA, GBIF and IUCN" via DwC-A format. URLs and data format transformation information are already stored on the systems database. To upload data from any of the four data providers, only need to press the corresponding button. If the data file is big, e.g. has more than a few hundreds of thousand records, it might take sometime for the tools to process the data.

BOLD Uploading (Admin Only)

Apache/2.2.16

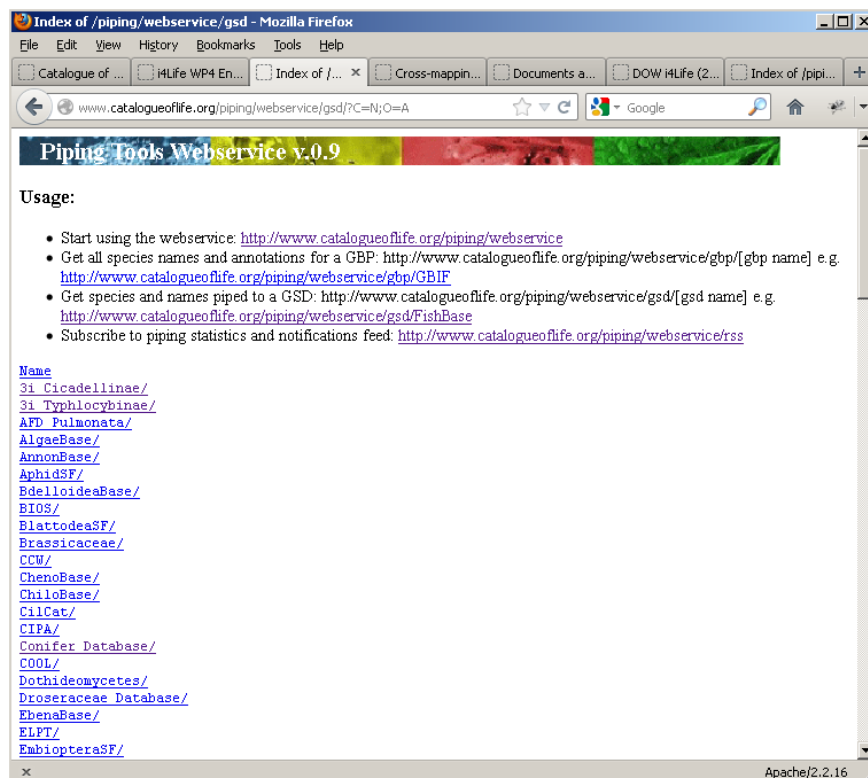
The CoL Piping Tools Distribution Side services are available at:

<https://www.catalogueoflife.org/accounts> (we use self signed SSL certificate for encryption purposes only).



The Distribution Side webservice with the Process Monitor is at

<http://www.catalogueoflife.org/piping/webservice/> (open access).



The CoL Cross-mapping Service

The CoL Cross-mapping Service has been designed by WP 11. The service has been tested by WPs 2, 3 and 4 and Global Partners in year 2. A staging version is deployed on the staging server at Cardiff University.

The CoL Cross-mapping Service is available at: http://litchi.cs.cf.ac.uk/crossmapping_4/ (password protected). User instructions are given on the front page of the service.

Cross-mapping Tools - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Catalogue of Life... i4Life WP4 Enhanc... Cross-mappin... x Documents and Li... DOW i4Life (2615... Index of /piping/...

litchi.cs.cf.ac.uk/crossmapping_4/runcomparison.php

i4Life **Select two checklists for comparison**

Login: *i4Life*

[Help](#)
[Home Page](#)
[Upload Checklist](#)
[Inspect Checklists](#)
[Compare Checklists](#)
[Browse Cross-mapping Results](#)
[Download Cross-mapping Results](#)
[Change Password](#)
[Sign Out](#)

NB: please only use letters, digits and underscore characters in the short name you input for the cross-map.

Please select the checklist (left):

Please type in a short name for your Cross-mapping result

Please provide the description for your Cross-mapping result

Please select the checklist (right):

Apache/2.2.14

Conclusions

The Download service is deployed on the production server in Reading. The Piping tools service and the Cross-map service are available on staging servers at Reading and Cardiff. After solidification of the software by WP4 (D4.2 in month 32) the Piping tools service and Cross-map services will be deployed on the production servers.