

# eScience Central – SWORD 2.0 Endpoint

## Introduction

An eScience Central (eSC) SWORD 2.0 endpoint is deployed at <http://esc-serv.ncl.ac.uk/sword2> (the sword2 module can be deployed into any up to date eSC instance).

## Authentication

All requests required BASIC authentication consisting of your eSC username (generally your e-mail address) and password. As of yet external authentication mechanisms (e.g. Shibboleth) are not compatible with the SWORD module.

## eScience Central Folders

Using the eSC website you can browse your home folder and see what files and folders belong to you. These are what are available to you through the SWORD endpoint.

To deal with compatibility with existing files and folders, any eSC folder can be represented as a SWORD service document, collection and container.

## Service Documents

The default service document is accessible at the following URL:

<http://esc-serv.ncl.ac.uk/sword2/service/>

You will be presented with a service document tailored to the user you authenticate as. There will be 1 workspace with 1 or more collections in it. The 1<sup>st</sup> collection is always your eSC user's home folder and subsequent collections are the folders contained within your eSC home folder.

Each collection in the above service document has its own service document accessible at:

<http://esc-serv.ncl.ac.uk/sword2/service/folderID>

Where **folderID** is the eSC ID of any eSC folder (that your eSC user has permission to access). The service document will have 1 workspace with 1 or more collections inside it, the 1<sup>st</sup> collection will always be the eSC folder being referred to by the URL (i.e. the eSC folder whose ID is **folderID**) and subsequent collections are folders contained within the identified eSC folder.

This allows service documents to represent arbitrarily nested folders under eSC and be explored in a manner in line with Restful principles.

## Collections

Collections are accessible under the following URL scheme:

<http://esc-serv.ncl.ac.uk/sword2/collection/folderID>

GET requests to this URL will result in the generation of an ATOM feed document detailing 1 or more **containers** within the collection. The 1<sup>st</sup> container will always be the folder itself (i.e. the eSC folder identified by **folderID**), each subsequent container will be the folders contained within the collection folder.

POST requests to the above URL function exactly as described in the SWORD 2.0 specification documents.

## Containers

Containers are accessible under the following URL scheme:

<http://esc-serv.ncl.ac.uk/sword2/container/folderID>

GET requests to this URL will result in the generation of a deposit receipt representing the current contents of the identified folder. The deposit receipt will describe two URLs detailing how to retrieve:

1. The contents of the folder in a ZIP file
2. The contents of the folder AND associated SWORD metadata in a ZIP file.

Each file contained within the container (i.e. all **files** contained within the eSC folder identified by **folderID**) will be listed as a *derived resource* of the container.

POST, PUT and DELETE requests to the above URL function exactly as described in the SWORD 2.0 specification documents.

## Media

The following media URLs exist for any valid eSC **folderID**:

1. <http://esc-serv.ncl.ac.uk/sword2/media/folderID>
2. <http://esc-serv.ncl.ac.uk/sword2/media/folderID!/package.zip>

The first URL retrieves the contents of the container (i.e. all files within the eSC folder) packaged into a single ZIP file. The second URL retrieves the contents of the container AND an XML file containing the SWORD metadata for this container (i.e. a deposit receipt) packaged into a single ZIP file.

For each file contained within the eSC folder identified by **folderID**, the individual file's contents can be retrieved at the following URL:

[http://esc-serv.ncl.ac.uk/sword2/media/\*\*folderID\*\*/\*\*fileName\*\*](http://esc-serv.ncl.ac.uk/sword2/media/<b>folderID</b>/<b>fileName</b>)

Where **fileName** is the name of any valid file that exists within the eSC folder identified by **folderID**.

PUT, POST and DELETE requests to any valid media URL function exactly as described in the SWORD 2.0 specification documents.

### **Statements**

Statements describing the current state of a deposit are not available yet. When they are implemented they will be accessible at:

[http://esc-serv.ncl.ac.uk/sword2/statement/\*\*folderID\*\*](http://esc-serv.ncl.ac.uk/sword2/statement/<b>folderID</b>)

All content types for statements will be available through this URL using content negotiation, defaulting to the ATOM feed response type.