Ulrichsweb: Using the Ulrichsweb API

- **Product:** Ulrichs

How do I use the Ulrichsweb API?

Note

You must have a current Ulrichsweb API Terms of Use Non-Disclosure Agreement (NDA) on file with ProQuest. The 360 Services: XML APIs page identifies and describes the operation of APIs and our services. If you want to implement the Ulrichsweb API at your institution please use the **Ex Libris Support Portal (available from the More Sites drop-down menu above)** so that our Support Team can assist.

Ulrichsweb API

API Version 2.0

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Go to detailed documentation in Swagger: http://ulrichsweb.serialssolutions.com/api-ui.html

Go to this documentation in the Ex Libris Developer Network: http://developers.exlibrisgroup.com

Overview

The Ulrichsweb API has two versions. The API may be used to return results in (1) either XML or JSON/JSONP formats or (2) to search using the Search/Retrieval via URL (SRU) standard version 1.2 to provide diagnostic XML data that can be formatted as results in Dublin Core format. The purpose of this document is to outline both versions of the API, labeled *Ulrichsweb Search API* and *Ulrichsweb SRU Search API*, respectively.

Ulrichsweb Search API

The Ulrichsweb Search API is a simple, HTTP-based service that provides an interface for programmatic searching of the Ulrichsweb Global Serials Directory and will return results in raw XML or JSON/JSONP formats. The Ulrichsweb Search API can be utilized with four steps:

1. Obtain the unique Search Key
2. Formulate the URI Syntax
3. Submit the URI request to Ulrichsweb

4. Handle the results

Step 1: Obtain the Unique Search Key

A unique, 10-digit, API Key is required to utilize the Ulrichsweb Search API service. This Key is issued to authorized institutions by Ex Libris. The API Key can be used for all of the Search API requests. Your unique Key will be stored in your institution's Ulrichsweb Administration Console in the Client Center.

Step 2: Formulate the URI Syntax

The basic URI structure is as follows:

> http://ulrichsweb.serialssolutions.com/api/**<SEARCHAPI_KEY>**/search?**<SEARCH_QUERY>**

where **<SEARCHAPI_KEY>** is the unique, 10-digit Key for your institution, and **<SEARCH_QUERY>** is in the following form:

query=<*FIELD*>:<*TERM*>&**filterQuery**=<*FIELD*:<*TERM*>**&sortIndex**=<*FIELD*>**&sortOrder**=<*ORDER*>**&start**=<*NUM*>**&rows**=<

The first section of **<SEARCH_QUERY>** is required:

query=<*FIELD*>:<*TERM*>

- <*FIELD*> can be any of the search fields in List of Available Fields for Query and Output.
- <*TERM*> is the term (value or text) you are searching for in the <FIELD>.

The rest of **<SEARCH_QUERY>** is optional:

- **filterQuery**=<*FIELD*>:<*TERM*> -- The field to filter by. <*FIELD*> can be any of the filter fields in List of Available Fields for Query and Output.
- **sortIndex**=<*FIELD*> -- The field to sort by. <*FIELD*> can be any of the search fields in List of Available Fields for Query and Output.
- **sortOrder**=<*ORDER*> -- The order in which the sortIndex is sorted. <*ORDER*> can be "asc" or "desc" (ascending or descending).
- **start**=<*NUM*> -- The record number at the start of the result set (default: 0). <*NUM*> must be a positive integer.
- **rows**=<*NUM*> -- The number of records to be returned (default: 10, max: 50). <*NUM*> must be a an integer between 1 and 50.

Example URLs:

1. Get first 10 records where title contains "garden" and SearchAPIKey is: WYYIWQF9EF:

   > http://ulrichsweb.serialssolutions.com/api/WYYIWQF9EF/search?query=title:garden

2. Get next 10 records:

   > http://ulrichsweb.serialssolutions.com/api/WYYIWQF9EF/search?query=title:garden&start=10

3. Get first 50 records:

> http://ulrichsweb.serialssolutions.com/api/WYYIWQF9EF/search?query=title:garden&rows=50

4. Get first 10 records, sorted in descending order by title:

> http://ulrichsweb.serialssolutions.com/api/WYYIWQF9EF/search?query=title:garden&sortIndex=title&sortOrder=desc

5. Get first 10 records where title contains **populism** and results are filtered to refereed titles only:

> http://ulrichsweb.serialssolutions.com/api/WYYIWQF9EF/search?query=title:populism&filterQuery=refereed:true

Step 3: Submit the URI request to Ulrichsweb

Query requests are submitted via HTTP **GET** along with an acceptable HTTP Accept request-header field (accept=application/json or accept=application/xml).

HTTP **POST** is recommended for advanced searches where TERMS are combined (for example, Boolean searches).

Step 4: Handle the Results

Depending on the media type specified in the HTTP accept request-header, the response will either be in XML or JSON/JSONP. The JSONP data is wrapped in a callback function called UlrichsWebJSON.

The following are the results fields:

status - Success | Error
statusMessage- [in the case of an Error, this will contain a diagnostic message]
totalRecords - [the total number of Records found for the given query]
numberOfRecords - [the number of Records returned]
requestQuery - [the query]
requestFilterQuery - [the filter query]
results - [Ulrich's titles]
UlrichTitle - [Ulrich's Title data]

XML Result Example

```
<?xml version='1.0' encoding='utf-8'?>
<searchResults>
<status>Success</status>
<totalRecords>81</totalRecords>
<numberOfRecords>1</numberOfRecords>
<requestQuery>title:populism</requestQuery>
<requestFilterQuery>refereed:true</requestFilterQuery>
<requestRows>1</requestRows>
<results>
<UlrichTitle>
<id>765207</id>
<titleId>815590</titleId>
<title>Populism</title>
<issn>2588-8064</issn>
<publisher>
  <string>Brill</string>
```

```
</publisher>
<country>Netherlands</country>
<countryCode>NLD</countryCode>
<status>Forthcoming</status>
<toc>false</toc>
<refereed>true</refereed>
<availableOnline>false</availableOnline>
<openAccess>false</openAccess>
<reviewed>false</reviewed>
<historicTitle>false</historicTitle>
<frequency>Semi-annually</frequency>
<price>USD 240.00</price>
<subject>
   <string>POLITICAL SCIENCE</string>
</subject>
<keyFeatures>
   <string>RPR</string>
   <string>URL</string>
</keyFeatures>
<otherFeatures/>
<deweyNumbers>
   <string>320</string>
</deweyNumbers>
<languages>
   <string>English</string>
</languages>
<formats>
   <string>Print</string>
</formats>
<serialTypes>
   <string>Journal</string>
</serialTypes>
<contentTypes>
   <string>Academic / Scholarly</string>
</contentTypes>
<rss/>
</UlrichTitle>
</results>
</searchResults>
```


JSON/JSONP Examples


```
UlrichsWebJSON({"searchResults":{"status":"Success","totalRecords":762,"numberOfRecords":1,"requestQuery":"title:garden","
Garden","issn":"1754-
5897","refereed":false,"openAccess":false,"reviewed":false,"subject":[""],"languages":[""],"formats":[""],"serialTypes":[""],"content
```


```
<!DOCTYPE html>
<html>
<head>
 <script src="http://code.jquery.com/jquery-latest.js"></script>
</head>
```

```
<body>
 <script>
 $.ajax({
  dataType: 'jsonp',
  jsonp: 'callback',
 url: 'http://ulrichsweb.serialssolutions.com/api/json/SEARCHAPI_KEY/search?callback=?&query=title:garden',
 success: function (data) {
 alert(data.results[0].title);
 },
 });
 </script>
</body>
</html>
```

Ulrichsweb SRU Search API

The Ulrichsweb SRU Search API is a service that provides an interface for programmatic searching of the Ulrichsweb Global Serials Directory using the Search/Retrieval via URL (SRU) standard version 1.2, and provides diagnostic XML data and format results in the Dublin Core format outlined here.

The Ulrichsweb SRU Search API meets conformance to the SRU base profile. Users of this API should be familiar with SRU, CQL as well as the Dublin Core Metadata Element Set.

The Ulrichsweb SRU Search API can be utilized with four steps:

1. Obtain the unique Search Key.
2. Formulate the URI Syntax.
3. Submit the URI request to Ulrichsweb.
4. Handle the Dublin Core XML or Diagnostic XML results.
5. Handle the Dublin Core XML Response.

Step 1: Obtain the Unique Search Key

A unique, 10-digit, API Key is required to utilize the Ulrichsweb Search API service. This Key is issued to authorized institutions by Ex Libris. The API Key can be used for all of the Search API requests. Your unique Key will be stored in your institution s Ulrichsweb Administration Console in the Client Center.

Step 2: Formulate the URI Syntax

The basic URI structure is as follows:

> http://ulrichsweb.serialssolutions.com/sru/**<SEARCHAPI_KEY>/?<SEARCH_QUERY>**

where **<SEARCHAPI_KEY>** is the unique, 10-digit key obtained through the instructions above, and **<SEARCH_QUERY>** is either a searchRetrive request or an explain request.

- SearchRetrieve Operation
  The searchRetrieve operation is based on the standard defined here.

- Request Parameters
  The Ulrichsweb SRU Search API supports the all mandatory parameters as well as the optional startRecord and maximumRecords parameters. The other optional parameters are not currently supported.
- CQL
  Search queries must be formulated using the Contextual Query Language (CQL) specified here.
  The Ulrichsweb SRU Search API conforms to Level 1 of the CQL Base Profile.

- Explain Operation
  The Ulrichsweb SRU Search API supports the explain operation to meet conformance. The explain operation is specified here.

Example URLs

1. Get first 10 records where title contains "garden" and SearchAPIKey is: WYYIWQF9EF:

   > http://ulrichsweb.serialssolutions.com/sru/WYYIWQF9EF/?version=1.2&operation=searchRetrieve&query=garden&maximumRecords=10

2. Get next 10 records:

   > http://ulrichsweb.serialssolutions.com/SRU/WYYIWQF9EF/?version=1.2&operation=searchRetrieve&query=garden&maximumRecords=10&startRecord=11

3. Request an explain operation:

   > http:// ulrichsweb.serialssolutions.com/sru/WYYIWQF9EF

Step 3: Submit the URI Request

Query requests are submitted via HTTP GET.

Step 4: Handle the Diagnostic XML Response

Diagnostics are specified here.

Step 5: Handle the Dublin Core XML Response

Ulrichsweb SRU Search API returns the search response as Dublin Core XML packaged in an SRU XML response.

Link to SRU Records XML.

SRU Result Example

```
<?xml version='1.0' encoding='utf-8'?>
<searchRetrieveResponse xmlns="http://www.loc.gov/zing/srw/">
<version>1.2</version>
<numberOfRecords>844</numberOfRecords>
<records>
<record xmlns:dc="info:srw/schema/1/dc-v1.1">
<recordPacking>xml</recordPacking>
<recordPosition>1</recordPosition>
```

<recordData>
<dc:title>The Garden</dc:title>
</recordData>
</record>
<record xmlns:dc="info:srw/schema/1/dc-v1.1">
<recordPacking>xml</recordPacking>
<recordPosition>2</recordPosition>
<recordData>
<dc:title>The Garden</dc:title>
<dc:publisher>Royal Horticultural Society</dc:publisher>
<dc:subject>GARDENING AND HORTICULTURE</dc:subject>
<dc:language>English</dc:language>
<dc:format>Print</dc:format>
<dc:type>Magazine</dc:type>
</recordData>
</record>
<record xmlns:dc="info:srw/schema/1/dc-v1.1">
<recordPacking>xml</recordPacking>
<recordPosition>3</recordPosition>
<recordData>
<dc:title>Gardening</dc:title>
<dc:publisher>Scrambling Press</dc:publisher>
<dc:subject>GARDENING AND HORTICULTURE</dc:subject>
<dc:language>English</dc:language>
<dc:format>Print</dc:format>
</recordData>
</record>
<record xmlns:dc="info:srw/schema/1/dc-v1.1">
<recordPacking>xml</recordPacking>
<recordPosition>4</recordPosition>
<recordData>
<dc:title>Garden</dc:title>
<dc:publisher>Paradise Production</dc:publisher>
<dc:subject>CHILDREN AND YOUTH (FOR)</dc:subject>
<dc:language>English</dc:language>
<dc:format>Print</dc:format>
<dc:type>Magazine</dc:type>
</recordData>
</record>
<record xmlns:dc="info:srw/schema/1/dc-v1.1">
<recordPacking>xml</recordPacking>
<recordPosition>5</recordPosition>
<recordData>
<dc:title>The Gardener</dc:title>
<dc:publisher>Lonehill Trading Ltd.</dc:publisher>
<dc:subject>GARDENING AND HORTICULTURE</dc:subject>
<dc:language>English</dc:language>
<dc:format>Print</dc:format>
<dc:type>Magazine</dc:type>
</recordData>
</record>

```
</records>
<nextRecordPosition>6</nextRecordPosition>
</searchRetrieveResponse>
```

List of Available Fields for Query and Output

The following table describes the fields that are available for query, filter, and output. Where present for an individual title, the metadata elements noted below are returned in the Ulrichsweb API output. Every field is not present for each record in Ulrichsweb. Metadata elements shown in the table below are related to Ulrichsweb Search Results screen column headings, Search Results screen facets, Advanced Search limiters, and field labels from the Title Details view.

Selected elements are expressed as true/false values. Controlled vocabulary is used within specific fields and are noted in the table below.

XML or JSON/JSONP Output

Output	Description	Search_ Query <FIELD>	FilterQuery <FIELD>	FilterQuery <TERM>	Notes
id	System identifier for the individual serial (Do not confuse with titleId)				
country	Country of publication	country country_ description	country	ISO Country Code Text	e.g., DNK e.g., Denmark
description	Text describing what the serial is about				
subject	Ulrich's subject classification(s)	subject_ keyword			
formats	Controlled vocabulary term(s) denoting the Format edition(s) in which the serial is available.	format	format	Audio Braille CD-ROM Email LargeType LooseLeaf Microform Online Print Video	

Output	Description	Search_ Query <FIELD>	FilterQuery <FIELD>	FilterQuery <TERM>	Notes
status	Controlled vocabulary term denoting the Publication Status of the serial	status	status	A C R M S ANP AFP	Codes and their text equivalents: A = Active C = Ceased R = Researched / Unresolved M = Merged / Incorporated S = Suspended ANP = Announced Never Published AFP = Announced For Publication
title	The preferred title of the serial	title			Text
titleId	Unique Ulrich's identifier for the title of the serial (Do not confuse with id)	titleId			Numeric
alt_title	Variant titles by which the serial is known.	alt_title			Text Searches for Variant titles: Alternate Title, Parallel Language Title, MEDLINE Abbreviation, or Abbreviated Title
spell	Any title by which the serial is known.	spell			Text Searches for both Preferred and Variant titles
ISSN	International Standard Serial Number of the format edition	issn			Hyphenated, with check-digit NNNN-NNNN NNNN-NNNX
publisher	Name of commercial publisher of the serial	publisher			Text

Output	Description	Search_ Query <FIELD>	FilterQuery <FIELD>	FilterQuery <TERM>	Notes
startYear	Year of first publication				YYYY
frequency	Controlled vocabulary term denoting the Frequency of publication			Annual Biennial Bi-monthly Continuously Daily Fortnightly Irregular Monthly Other Quarterly Semi-annually Semi-monthly Triennial Weekly	
languages	Language(s) in which the text of the serial is available				Text
coden	Alphanumeric code independently assigned by the Chemical Abstracts Service that uniquely identifies a serial, mainly for use on scientific and technical serials	coden			e.g., SCIQDX
otherFeatures	Translatable codes representing additional feature(s) of the serial	other_ feature	other_ feature	ADI BIA BV BIB BRI CHI DRI	Codes and their text equivalents: ADI = Advertising included BIA = Back issues available BV = Base volumes BIB = Bibliographies included

Output	Description	Search_ Query <FIELD>	FilterQuery <FIELD>	FilterQuery <TERM>	Notes
				FRI FSI ILI ITA MAP MKT MRI PAT PRI RRI RPSA RVI SWRI STAT TRI TRL VRI WRI	BRI = Book reviews included CHI = Charts included DRI = Dance reviews included FRI = Film reviews included FSI = Free sample available ILI = Illustrations included ITA = Index to Articles MAP = Maps included MKT = Market prices MRI = Music reviews included PAT = Patents PRI = Theater/Play reviews included RRI = Recording reviews included RPSA = Reprint available RVI = Reviews included (any) SWRI = Software reviews included STAT = Statistics TRI = Television reviews included TRL = Trade literature VRI = Video reviews included WRI = Website reviews included
serialTypes	Controlled vocabulary term(s) denoting the type(s) of serial	serial_type	serial_type	Abstract/ Index Bulletin	

Output	Description	Search_ Query <FIELD>	FilterQuery <FIELD>	FilterQuery <TERM>	Notes
				Catalog Database Directory Handbook/ Manual Journal Magazine Monographic series Newsletter Newspaper Proceedings Report Yearbook	
deweyNumbers	Dewey Decimal Number(s) for the serial				
lcnumber	Library of Classification Number for the serial				
price	Publisher-reported list price for the serial				ISO Currency Code followed by publisher's list price for institutions
toc	Indication of whether the serial displays Tables of Contents in Ulrichsweb				true false
historicTitle	Indication of whether the title is a former title of the serial (i.e., not the current title)				true false
refereed	Indication of whether the serial is Refereed/peer-reviewed	refereed	refereed	true	true false

Output	Description	Search_ Query <FIELD>	FilterQuery <FIELD>	FilterQuery <TERM>	Notes
availableOnline	Indication of whether the serial is available in an online format				true false
openAccess	Indication of whether the serial is available via Open Access	open_ access	open_ access	true	true false
openAccessUrl	If serial is Open Access, the Open Access URL for the serial				
reviewed	Indication of whether the serial has a review in the Ulrich s record				true false
contentTypes	Controlled vocabulary term(s) denoting the primary target audience(s) of the serial	content_ type	content_ type	Academic/ Scholarly Bibliography Consumer Government Trade	
keyFeatures	Translatable codes representing key features Ulrich's notes for the serial	key_ feature	key_feature	RPR AVO AI EON OPA MLR TOC RSS URL JCR CCC	Codes and their text equivalents: RPR = Refereed/Peer-reviewed AVO = Available Online AI = Abstracted or Indexed EON = Electronic-only OPA = Open Access MLR = Magazines for Libraries review (has) TOC = Table of Contents (has) RSS = RSS Availability URL = Website URL JCR = Journal Citation Reports

Output	Description	Search_ Query <FIELD>	FilterQuery <FIELD>	FilterQuery <TERM>	Notes
					CCC = Copyright Clearance Center (CCC)
rss	Type, frequency, source, description and URL of RSS feed available for the serial				
rssTypeCode	Translatable code denoting the type of RSS feed				Codes and their text equivalents: AA = Article Alert FI = Forthcoming Issues LI = Latest issue LP = Latest Papers MI = Marketing Information OAA = Open Access Article RI = Recent issues TOC = Table of Contents
rssFrequencyCode	Translatable code denoting the frequency of the RSS feed				Codes and their text equivalents: AS = As available B = Bi-monthly BW = Bi-weekly D = Daily I = Irregularly M = Monthly Q = Quarterly W = Weekly Y = Yearly
rssSourceDescription	Name of the source of the RSS feed (e.g., Publisher)				
rssUrl	URL of the RSS feed				

Output	Description	Search_ Query <FIELD>	FilterQuery <FIELD>	FilterQuery <TERM>	Notes
corporateAuthors	Corporate author(s) for the given titleId	titleId			Returned in titleDetails reponse
mflReviews	Magazines for Libraries™ Review(s) for the given titleId	titleId			Returned in titleDetails response
publicationHistory	Publication history for the given titleId (*example: 1961-1968; New Series 1971-1977; New Series 1991 (vol.1, no.51)*	titleId			Returned in titleDetails response
relatedTitles	Identifier, ISSN, name, type, and type code of the Related Title(s) for the given titleId	titleId			Returned in titleDetails response Related Title Types: Alternative Media Edition Supplement Series Language Edition Translation Partial Translation International Edition Regional Edition Seasonal Edition Special Edition Abridged Edition Cumulative Edition Alternative Frequency Edition Issued With
titleHistoryDetails	Comments, country, sequence number, ISSN, and title of the Historic (former) Titles for a given titleId	titleId			Returned in titleDetails response
variantTitles	Abbreviated, alternate, MEDLINE, and parallel language titles for a given titleId	titleId			Returned in title Details response

Dublin Core (DC) XML Output

Field Name	Explanation of Field	Notes
dc:title	Title of the serial	
dc:publisher	Commercial publisher of the serial	
dc:subject	Ulrich s Subject classification(s)	
dc:language	Language(s) in which the text of the serial is available	
dc:format	Controlled vocabulary terms denoting the format editions in which the serial is available.	Audio Braille CD-ROM Email LargeType LooseLeaf Microform Online Print Video
dc:type	Controlled vocabulary term(s) denoting the type of serial	Abstract/Index Bulletin Catalog Database Directory Handbook/Manual Journal Magazine Monographic series Newsletter Newspaper Proceedings

Field Name	Explanation of Field	Notes
		Report Yearbook
dc:description	Text describing what the serial is about	

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