



BookData Online Web Service

Developer's Guide – REST Interface

Overview

A new REST-based Web service is available for the Nielsen Book bibliographic database. This service enables your system to query our online bibliographic database and returns requested information in a range of formats. This document is a guide to integrating our Web services into your applications and provides details of the object and programming model of our Web service. Separate documentation *BookData Online Web Service Fields CSV.doc*; *BookData Online Web Service Fields ONIX.doc* and *BookData Online Web Service Fields XML.doc* (supplied zipped file called *BookData Online Web Service Field Format Definitions inc Sample Records.zip*) provide further details on the respective format field specifications.

NB: The *BookData Online Web Service Customer Form.doc* must be completed and returned to Nielsen Book in order for this service to be set up and activated with your required database content and coverage.

Getting Started

When you are set up to access the service you will be allocated a Client ID and Password which you will need to include in all search requests which you submit to our service. We may additionally require you to inform us of the IP address of the server or servers you will be using to make the requests.

Technical Support

For queries concerning the performance or functionality of the service, please contact your local Nielsen Book Help Desk in the first instance:

UK & International: help.book@nielsen.com
Australia: support@nielsenbookdata.com.au
New Zealand: support@nielsenbookdata.co.nz

Tel: +44 (0)1483 712260
Tel: 1800 683 522
Tel: 0800 447 029

Coverage and Content

The data set you have access to will be agreed with you as part of the process to set you up to access the service. The key criteria to determine are:

- Database Coverage. For instance Global Coverage or UK-available titles only.
- Database Content. For instance: full descriptive information including short and long descriptions, tables of contents and jacket images, or brief bibliographic details only. A field listing is available to help with this selection.

The price of the service will depend on the data set and level of content you require access to, the level of usage you make of the service, and the purposes for which you are licensing the data.

Permitted Use

If you subscribe to our standard BookData Online product, and have no other agreement in place with us, then the purposes for which you are permitted to use the BookData Online Web Service are governed by the BookData Online terms and conditions, available on request or via www.nielsenbookdataonline.com. Otherwise the usage you are permitted to make of the service will be governed by a Nielsen Book data licence and contract.

Access and searching

You access the system via a specially formed URL containing your credentials and the details of your search criteria. The base URL for the prototype test system is as follows:

<http://ws.nielsenbookdataonline.com/BDOLRest/RESTwebServices/BDOLrequest?clientId=XXXX&password=YYYY>

Your search request is formed by adding your search criteria and search options as additional parameters to this base URL. The following are the set of options

Mandatory Parameters

Parameter	Possible Values	Description
&from=	any number (starting from 0)	Determines which results within the complete set are returned from this request.
&to=	any number (starting from 1)	We strongly recommend you set a reasonably low limit – 20 or 50 say.

&indexType=	0	Main Book Database	
	1	Organisations	
	2	Large Images	
	3	Medium Images	
	4	Small Images	
&format=	1	ONIX 2.1	NB value 7 is recommended for use in this interface
	5	MARC21 UTF-8	
	6	UKMARC	
	7	XML	
	8	CSV	
	15	MARC21 ANSEL	
&resultView=	0	Short	
	1	Medium	
	2	Long	

Optional Parameters

¤cy=	GBP	Determines which field to use if you are searching by price
	EUR	
	AUD	
	NZD	
	ZAR	
	USD	
&marketSegment=	UK	Used when searching by Supplier Availability. If not specified, all markets are searched.
	AU	
	NZ	
	SA	
	US	
&requestId=		Your own ID, which is returned in the result.

&territory=	INT International UK AU NZ SA US EU	Tailored versions of some descriptive fields exist for particular regions. This parameter determines which are used for this request. The default if not specified is INT.
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Search Parameters

&fieldn=	See table of Search Fields	The field to search. <i>Where n is a sequential number starting from 0</i>
&valuen=		The value to search for
&logicn=	0 This value must be present (AND) 1 This value is optional (OR) 2 This value must not be present (NOT)	Optional – defaults to 0

Sort Parameters (see examples in Appendices)

&sortFieldn=	See table of Sort Fields	The field to sort on. <i>Where n is a sequential number starting from 0</i>
&sortOrdern=	1 Ascending Order 2 Descending Order	Optional – defaults to 1

Search Fields

0	KEYWORDS	1	ISBN / EAN (includes replacement ISBN)
2	TITLE	3	CONTRIBUTOR
4	PUBLISHER	5	AUTHOR-TITLE 4-4 CODE
6	BIC SUBJECT	7	BIC KEYWORD
8	BIC QUALIFIER	9	DEWEY
10	LCSH	11	LC CLASS

12	NC SUBJECT	13	EDITION
14	EDITION TYPE	15	LANGUAGE
16	TRANSLATED	17	NAME AS SUBJECT
18	PRIZES	19	SERIES
20	BINDING / FORMAT	21	READERSHIP
21	READERSHIP	22	WHOLESALE
23	PUBLISHING STATUS	24	SUPPLIER AVAILABILITY
25	PUBLICATION DATE	26	PRICE
27	NEW DAYS	28	DISTRIBUTORS
29	COUNTRY OF PUBLICATION	30	ISBN Only (excludes replacement ISBN)

Sort Fields

0	ISBN13	1	MAIN TITLE
2	MAIN CONTRIBUTOR	3	IMPRINT
4	PUBLICATION DATE	5	FORMAT
6	PRICE	7	AVAILABILITY
8	PUBLISHER	9	SERIES TITLE
10	DEWEY	11	BIC SUBJECT
12	COUNTRY OF PUBLICATION	13	PUBLISHING STATUS

Search Results

clientId	String	No	1	1	The Client ID (user name which was sent by you)
Format	String	No	1	1	Format of output. This is the code of the format. 1 : ONIX 21 5 : MARC 21 – UTF8 6 : UKMARC 7 : XML 8 : CSV 15 : MARC21 – MARC8
hitsFrom	Integer	No	1	1	The first record count (as specified by client). NB <i>Exclusive</i> .
hitsTo	Integer	No	1	1	The last record count (as specified by client, or the last record number in the record set found if lower). NB <i>Inclusive</i> .

requested	String	No	1	1	The ID of the request (which was sent by the client)
Result	Result	Yes	0	1	The Result object which contains the data (described below) This will be blank if the resultCode (defined below) is not "00"
resultCode	String	No	1	1	The code of the result. This can be <div style="margin-left: 40px;"> "00" : COMPLETED "01" : SERVICE_UNAVAILABLE "02" : INVALID_LOGON "03" : SERVER_ERROR "08" : PRODUCT_FORMAT_NOT_AS_REQUESTED "50" : LIMITS_EXCEEDED </div>
totalHits	Integer	No	1	1	The total number of records returned for your search criteria

	For CSV and MARC formats (Formats 5, 6, 8, 15) and for Images (Index Types 2, 3, 4) the returned data fields are BASE64 encoded as specified below.				
Result	String	Yes	1	1	A BASE64 Encoded string which needs to be decoded to get the actual result.
	For ONIX and XML formats (Formats 1, 7) the returned data fields are presented unencoded in a CDATA section.				
Result	String	Yes	1	1	An XML CDATA Section containing the unencoded results fields

Searching Tips

The values in the Binding / Format search field are coded as follows:

Hardback	H
Paperback	P
Other book	BK
Audiobook	AUD

Map	MAP
Audio-visual	AV
CD	CD
DVD	DVD
Video	VID
Mixed-media pack	MIX
e-Book	EB
Network / Internet resource	NET
Digital / Multimedia	MM
Point of sale material	POS
Stationery / misc. printed material	ST
Transparencies / microform	TR
Other merchandise	OTH

The values in the Readership search field are coded as follows. Some examples of wildcard usage to group related codes are also included.

General	G
Tertiary & Higher Education	U*
---A / AS level	UA
---Further / Higher Education	UF
Technical / vocational	XV
Undergraduate	UU
Postgraduate	UP
Professional, Research & Scholarly	P
Open University set text	XO
Children / Juvenile	J*
---Preschool (0-5)	JN
---Children's (6-12)	JC
Teenage / Young Adult	Y
Educational: Primary / Secondary	E*
---Primary	EJ
---Secondary	ES
Student Text	XT
Teacher Text	XS
Revision / study guides	XR

Exams / tests / exercises	XX
ELT general	L*
---ELT beginner	LB
---ELT intermediate	LI
---ELT advanced	LA
---English as a second language	LS

PUBLISHING STATUS

ONIX Publishing Status Codes (ONIX Code List 64) are used for searching and in results:

CODE	DESCRIPTION	NOTES
00	Unspecified	Status is not specified (as distinct from unknown): the default if the <PublishingStatus> element is not sent. Also to be used in applications where the element is considered mandatory, but the sender of the ONIX message chooses not to pass on status information.
01	Cancelled	The product was announced, and subsequently abandoned; the <PublicationDate> element must not be sent.
02	Forthcoming	Not yet published, must be accompanied by expected date in <PublicationDate>.
03	Postponed indefinitely	The product was announced, and subsequently postponed with no expected publication date; the <PublicationDate> element must not be sent.
04	Active	The product was published, and is still active in the sense that the publisher will accept orders for it, though it may or may not be immediately available, for which see <SupplyDetail>.
05	No longer our product	Ownership of the product has been transferred to another publisher (with details of acquiring publisher if possible in PR.19).
06	Out of stock indefinitely	The product was active, but is now inactive in the sense that (a) the publisher will not accept orders for it, though stock may still be available elsewhere in the supply chain, and (b) there are no current plans to bring it back into stock. Code 06 does not specifically imply that returns are or are not still accepted.
07	Out of print	The product was active, but is now permanently inactive in the sense that (a) the publisher will not accept orders for it, though stock may still be available elsewhere in the supply chain, and (b) the product will not be made available again under the same ISBN. Code 07 normally implies that the publisher will not accept returns beyond a specified date.
08	Inactive	The product was active, but is now permanently or indefinitely inactive in the sense that the publisher will not accept orders for it, though stock may still be available elsewhere in the supply chain. Code 08 covers both of codes 06 and 07, and may be used where the distinction between those values is either unnecessary or meaningless.

09	Unknown	The sender of the ONIX record does not know the current publishing status.
10	Remaindered	The product is no longer available from the current publisher, under the current ISBN, at the current price. It may be available to be traded through another channel. A Publishing Status code 10 'Remaindered' usually but not always means that the publisher has decided to sell off excess inventory of the book. Copies of books that are remaindered are often made available in the supply chain at a reduced price. However, such remainders are often sold under a product identifier that differs from the ISBN on the full-priced copy of the book. A Publishing Status code 10 'Remaindered' on a given product record may or may not be followed by a Publishing Status code 06 'Out of Stock Indefinitely' or 07 'Out of Print': the practise varies from one publisher to another. Some publishers may revert to a Publishing Status code 04 "Active" if a desired inventory level on the product in question has subsequently been reached. No change in rights should ever be inferred from this (or any other) Publishing Status code value.

SUPPLIER AVAILABILITY

ONIX Product Availability Codes (ONIX Code List 65) are used for searching and in results:

01	Cancelled	Cancelled: product was announced, and subsequently abandoned
10	Not yet available	Not yet available (requires <ExpectedShipDate>, except in exceptional circumstances where no date is known)
11	Awaiting stock	Not yet available, but will be a stock item when available (requires <ExpectedShipDate>, except in exceptional circumstances where no date is known). Used particularly for imports which have been published in the country of origin but have not yet arrived in the importing country.
12	Not yet available, will be POD	Not yet available, to be published as print-on-demand only. May apply either to a POD successor to an existing conventional edition, when the successor will be published under a different ISBN (normally because different trade terms apply); or to a title that is being published as a POD original.
20	Available	Available from us (form of availability unspecified)
21	In stock	Available from us as a stock item
22	To order	Available from us as a non-stock item, by special order
23	Manufactured on demand	Available from us by manufacture on demand
30	Temporarily unavailable	Temporarily unavailable: temporarily unavailable from us (reason unspecified) (requires <ExpectedShipDate>, except in exceptional circumstances where no date is known)
31	Out of stock	Stock item, temporarily out of stock (requires <ExpectedShipDate>, except in exceptional circumstances where no date is known)
32	Reprinting	Temporarily unavailable, reprinting (requires <ExpectedShipDate>, except in exceptional circumstances

		where no date is known)
33	Awaiting reissue	Temporarily unavailable, awaiting reissue (requires the <Reissue> composite, and <ExpectedShipDate>, except in exceptional circumstances where no date is known)
40	Not available	Not available from us (reason unspecified; if the reason is rights-related, it should be specified in PR.21)
41	Replaced by new product	This product is unavailable, but a successor product or edition is or will be available from us (identify successor in <RelatedProduct>)
42	Other format available	This product is unavailable, but the same content is or will be available from us in an alternative format (identify other format product in <RelatedProduct>)
43	No longer supplied by us	Identify new supplier in <NewSupplier> if possible
44	Apply direct	Not available to trade, apply direct to publisher
45	Not sold separately	Must be bought as part of a set (identify set in <RelatedProduct>)
46	Withdrawn from sale	May be for legal reasons or to avoid giving offence
47	Remaindered	Remaindered
48	Out of print, replaced by POD	Out of print, but a print-on-demand edition is or will be available under a different ISBN. Use only when the POD successor has a different ISBN, normally because different trade terms apply.
99	Uncertain	Apply to customer service

WHOLESALEERS

The following short codes are used for wholesalers whose stock is flagged in the book database.

Bertrams THE	BERT
Gardners	GARD
Baker & Taylor	BTB
Ingram	ING
Argosy	ARGOSY
Easons	EASON
BookSpeed	BKSPD
Computer Bookshops	CBL

PUBLICATION DATE

The format for this field is YYYYMMDD. Use Wildcard or Range Searching to find titles in a specific month or year. NB Where the precise date is not known, but the month and year are, the date field will contain a value of 00 for day eg 20080100.

SEARCH LOGIC

Wildcard Searches

Wildcard searching allows you to widen a search on a textual or name field by including a truncation symbol (* or ?) in your search term. The * symbol is used to match any number of characters and the ? symbol is used to match a single character.

Examples of truncation:

Searching for variants of words, for example BEACH* to find Beachball, Beachams, etc

Searching for words with different spellings, for example COL*R for colour and color.

Searching for titles with ISBN prefix, for example 07139*

Searching for a word where a single character may vary, for example WOM?N to find woman and women; fertili?er to find fertiliser and fertilizer.

Single Word searches

Finding single word titles can be difficult, especially if the title is also a common word. Put the pipe symbol (|) round your search term and the single word will be found.

For example, |boy| will find the title "Boy" but not "101 Things for a Boy to Make".

You can also use it to find an exact match of more than one word, for example |The War of the Worlds| will return titles where the title is only The War of the Worlds and exclude titles with other words in the title.

Phrase Searches

Sometimes you'll only want results that include a phrase. In this case, simply put quotation marks around your search terms.

For example a title search for "Nuclear fuel" will include titles where these words are adjacent to each other eg. "The International Nuclear Fuel Market" but not "Nuclear Energy and its Fuel Cycle".

To find the exact match of a phrase or word put the pipe symbol (|) around your search terms, for example
|The War of the Worlds| will return titles where the title is only The War of the Worlds and exclude titles with any other words in the title.

AND OR NOT Searches

Operators are used to link search terms or fields. Depending on the operators used and the contents of the database, the number of search hits will be broadened or narrowed. AND OR NOT must be entered in CAPITALS.

The AND operator is used to narrow a search by including specific terms. For example, ABANDONED AND ABACUS would include all records where the search field contains both the word ABANDONED and the word ABACUS.

The OR operator is used to broaden a search by including any terms. For example, ABACUS OR ABANDONED would include all records where the search field contains either the word ABACUS or the word ABANDONED or both words.

The NOT operator is used to narrow a search by excluding specific terms. For example, ABANDONED NOT ABACUS would include all records where the search field contains the word ABANDONED but not the word ABACUS.

You cannot enter NOT as the first term in any search field.

If you enter two or more terms in a search field just separated by a space, eg FOOD BOOK, the system will treat them as though they are joined with AND operators, so will look for records which have both words in that field. However, for some fields using AND would not make sense so we have used OR for example ISBN, BIC codes, bindings, readership selections, status and wholesaler availability.

Search Term Nesting

Using brackets you may nest search terms to ensure that they are evaluated in the order you require. For example the search GREEN OR RED AND BLACK will first locate the records with GREEN or RED and then select those that contain BLACK. Whereas the search GREEN OR (RED AND BLACK) locate the records that contain both RED and BLACK and also include any records containing GREEN.

You may have more than one set of brackets in a search. For example (GREEN AND BLUE) OR (RED AND BLACK) You may nest sets of brackets. For example (GREEN AND (BLUE OR RED OR BLACK)) NOT YELLOW.

Range Searches

Numerical values can be searched using the square brackets and the word TO. For example to find all titles which have been classified with Dewey codes beginning with 610 through to 612, enter in the Dewey search field:
[610 TO 612]

For text strings the curly brackets are used, for example to find all Authors with names between these alphabetic ranges enter in the Author/Contributor field:
{Adams TO Addler}

FIELD CONTENT

Separate documentation *BookData Online Web Service Fields CSV.doc*; *BookData Online Web Service Fields ONIX.doc* and *BookData Online Web Service Fields XML.doc* (supplied zipped file called *BookData Online Web Service Field Format Definitions inc Sample Records.zip*) provide further details on the respective format field specifications.

The document *BookData Online Web Service Developers Guide SOAP Interface.doc* provides full details of the SOAP Web Service interface from which this URL-based version is derived.