



© 2002-2012 Copyright Clearance Center, Inc.
All Rights Reserved.

Contents

1. Overview and Workflow

- 1.1 HTTP Header Authorization
- 1.2 Search Request
- 1.3 Quick Price Request

2. Search Request API Details

- 2.1 Purpose
- 2.2 Search Request Format
- 2.3 Search Results Format
- 2.4 Search Semantics
- 2.5 Error Conditions

3. Quick Price API Details

- 3.1 Purpose
- 3.2 Quick Price Request Format
- 3.3 Quick Price Results Format
- 3.4 Error Codes

4. Entire Book Calls

- 4.1 Purpose
- 4.2 Quick Price (Version 2) Request Format
- 4.3 Quick Price (Version 2) Results Format
- 4.4 Error Codes

Appendix A – Synonym List

Appendix B – Catalog Gateway WSDL File (DEMO environment)

Appendix C – XML Schema for Response Model

Appendix D – Sample of SearchWorks Response

Appendix E – Sample of Quick Price Response

Appendix F – Sample of CCC Error

Appendix G – Sample of HTTP Header Authorization

Appendix H – API Change Log

1. Overview

The purpose of this document is to provide the implementation details for an arrangement between your company and Copyright Clearance Center (CCC) whereby your company can use CCC's Permissions Gateway in order to service our mutual end-user customers. There also exists an agreement entitled Permissions Gateway Service Agreement which provides the legal terms for our business arrangement.

This document explains in detail the semantics of the function calls you can make using the Copyright Clearance Center Catalog Gateway API. It details:

- The functions provided by the Catalog Gateway.
- Descriptions and format of all request and response data.
- Sample code illustrating calls to these functions.
- Error Conditions that may arise and explanations of their cause.

CCC has established a development and testing environment known as DEMO where you should manage all initial development and testing of your Gateway implementation. Once the CCC team has reviewed your integration, you will be granted access to our production system.

Note: All partners begin developing in CCC's DEMO environment and must be approved by CCC before being promoted to production. There is an optional **mode** attribute for the root element of CCC Gateway responses, <ccc_response>. If this attribute is included in the returned XML and set to "DEMO", it indicates that the call was made to the CCC DEMO site. Your application must recognize the **mode** attribute, and if it is set to "DEMO", convey that this version is for development, demonstration and testing purposes only. In addition, while in Demo, the rightsholder terms and conditions will contain verbiage at the beginning indicating that these responses are for demonstration purposes only and that the user has not been granted permission to use the requested material.

WSDL for Demo:

<http://rightsconnectdem1.copyright.com/wsdl/CatalogGatewayImplService.wsdl>

Schema for Demo:

http://rightsconnectdem1.copyright.com/wsdl/CatalogGatewayImplService_schema1.xsd

WSDL for Prod:

<http://rightsconnect.copyright.com/wsdl/CatalogGatewayImplService.wsdl>

Schema for Prod:

http://rightsconnect.copyright.com/wsdl/CatalogGatewayImplService_schema1.xsd

Note: CCC strongly encourages you to cache a local copy of the production WSDL and develop your application in such a way as to make calls against your local copy, rather than directly using the URL listed above, which is CCC's published copy of the WSDL. This practice will help to greatly reduce the impact your network transactions will have on CCC's production servers. Please be aware that you will be responsible for

periodically refreshing your local copy of the WSDL with the latest version that CCC publishes. A once daily or once weekly refresh will be sufficient.

Permissions Gateway Workflow

The Permissions Gateway is designed in such a way that all requests for pricing and order placement require you to begin with a search. This is because CCC's database changes constantly, including work IDs, pricing, and rights grants. When creating your system, keep in mind that **you may not save work IDs returned by the gateway as they may change as well**. If you have a mechanism in your application to save items, we recommend that you save the standard number returned from a search in order to redo the search at a later date.

All transactions should be routed through the standard workflow of searching for the work to obtain the latest workID as follows:



Note: CCC's database changes constantly and, as a result, you may not use data from specific transactions for any other transaction (for example, by "assuming" that similar orders placed at different times will necessarily produce the same response). Please refer to the Permissions Gateway Service Agreement for additional terms of use.

Terms and Conditions Workflow Requirement

For all orders placed through the Permissions Gateway, standard CCC terms and conditions apply. These terms and conditions are on CCC's website and are accessed from the links in the chart below. The terms and conditions vary depending on the permission type your application is selecting.

Terms and Conditions link	Applicable Pay-Per-Use permission choice
Academic: Print Course Materials	<ul style="list-style-type: none">photocopy for academic coursepacks, classroom handouts
Academic: Electronic Course Materials	<ul style="list-style-type: none">use in electronic course materials
Interlibrary loan or document delivery	<ul style="list-style-type: none">Deliver via ILL or Document DeliveryPhotocopy for General Business and Academic use
Send in Email , post to intranet or post to Internet	<ul style="list-style-type: none">Display contentShare content electronically

It is required that you make the applicable set of CCC's standard terms and conditions available at all times to your customers or end users of the CCC permissions Gateway. Please use appropriate link identification and placement within your workflow to do so.

Special terms and conditions returned back from the Permissions Gateway need to be displayed in addition to these standard terms.

Please direct comments, questions and other feedback to mdoherty@copyright.com.

1.1 HTTP Header Authorization

The Permissions gateway uses an authorization scheme for each request submitted to the web service for both the DEMO and production environments. At account setup, each partner will be provided with a 20-character access key and a 44-character access secret. To be properly authorized, each request submitted through the Gateway will require a base64 encoding of this access key/password combination, separated by a colon (":") and prepended with the string "Basic " (including trailing space) sent in the "Authorization" attribute of the HTTP request header. See Appendix G – HTTP Header Authorization for examples of populating this attribute.

1.2 Search Request

This function provides the ability for the user to query CCC's catalog of titles and obtain bibliographic information about the title, as well as a unique identifier and the right associated with each title.

1.3 Quick Price Request

This function provides the ability for the user to obtain a price quote on copies of a work. Please note that the permission returned may be different than what was returned by the search. This will happen, for example, when the number of pages requested exceeds limits set by the owner of this work.

2. Search Request API Details

See Appendix D for an example of a searchWorks call and response.

Important note: As of October 2012, we have deprecated the original searchWorks() function in place of the improved searchWorksV2() function. The permissions gateway still supports the original searchWorks() function but the searchWorksV2 adds a new *idnoTypeCode* field to the result set so that users can identify the type of standard number returned for each item found. The *idnoTypeCode* field corresponds to the codes listed below in section 2.4.

2.1 Purpose

The searchWorksV2() function queries CCC's catalog and returns up to 100 works that match the query parameter information.

2.2 searchWorksV2 Request Format

The details of the interface to the *searchWorksV2* function are as follows. An example is also included in Appendix D:

searchWorksV2 Parameters:

productStr

Description:	CCC product abbreviation
Format:	String, 3 characters exactly
Content:	Valid values will be provided to you when you begin to develop for security purposes.
Required:	Yes

Stdnum

Description:	Standard number (ISSN/ISBN)
Format:	String, 20 characters max
Content:	Alphanumeric; no punctuation except hyphens
Required:	* <i>See Note 1 below</i>

Title

Description:	The title of a book, journal, newspaper, etc. The name of the newspaper should be used, not the name of the article (e.g., "Wall Street Journal," NOT "Stocks Soar on Economic News")
Format:	String, 255 characters max
Content:	Alphanumeric
Required:	* <i>See Note 1 below</i>

publisherName

Description:	The bibliographic publisher of the work.
Format:	String, 255 characters max
Content:	Alphanumeric
Required:	* <i>See Note 1 below</i>

*** Notes:**

1. Either *stdnum* or the combination of *title* and *publisherName* are used as search criteria. At least one of these fields must be provided. If *stdnum* is provided then *title* and *publisherName* are ignored.
2. All bibliographic data sent by CCC must be presented to the end-user. That is, the end-user must see *title*, *publisherName*, *stdnum*, *author*, *edition*, and *year*. This is necessary to ensure that the correct work is being used.
3. A maximum of 100 works will be returned, even if the search yields more hits. If there are more than 100 works matching the search criteria, then it should be refined to further limit the number of matches.

2.3 searchWorksV2 Results Format

The searchWorksV2 function will return a `ccc_response` object containing the catalog search results. The object will be mapped to a well formed XML conforming to the format specified in `RightsconnectResponse.xsd`. This XML schema file specifies the format of the possible elements returned by the CCC Gateway. An example XML file is also provided see Appendix D “Sample of SearchWorks Response”. There are two possible elements that will be returned as the body of the XML document, `ccc_search_results` and `ccc_error`. The `ccc_error` element will be detailed in section 2.6.

Details of the `ccc_search_results` element are as follows:

The `<ccc_response>` root element also has the following optional attribute:

`<mode>`

Description:	Optional attribute that indicates the instance the response is from. The important value to note is "DEMO" which indicates that this is NOT returned from CCC's production instance.
Format:	String
Content:	Only "PROD" or "DEMO" is allowed

The `ccc_search_ext_info_results` element contains the following elements: `<total_match_count>`, `<returned_match_count>` and up to 100 `<work>` elements (the number of work elements is specified by the value of `returned_match_count`).

Additionally, each work element contains a permission element which itself contains the following elements: **rightsHolder, year, right, terms_flag, and limit.**

`ccc_search_ext_info_results`

`<total_match_count>`

Description:	The number of works matching the search criteria
Format:	Numeric, 10 characters max
Content:	Any whole number ≥ 0

`<returned_match_count>`

Description:	The number of works (up to 100) matching the search criteria
Format:	Numeric, 3 characters max
Content:	Any whole number between 0 and 100

Work Elements

For each returned work, the following elements will be contained within it: **work_inst**, **stdnum**, **title**, **publisherName**, **author**, **edition**, **pubType**, **subtitle**, **idnoTypeCode**, **editor**, **itemUrl**, **volume**, **pagination**, **series**, **language**, and **countryOfPublication**.

<work_inst>

Description: The unique-to-CCC number which identifies a particular work in CCC's database

Format: Numeric, 15 characters max

<stdnum>

Description: issn/isbn

Format: Alphanumeric, 20 characters max

Content: No punctuation except hyphens

<title>

Description: The title of a book, journal, newspaper, etc.

Format: Alphanumeric, 255 characters max

<publisherName>

Description: The bibliographic publisher of the work.

Format: Alphanumeric, 255 characters max

<author>

Description: CCC shows only one author even if the work has multiple authors. CCC shows only one editor even if the work has multiple editors. Editor will only be shown if no author is shown.

Format: Alphanumeric, 255 characters max.

<edition>

Description: Edition

Format: Alphanumeric, 40 characters max

<subtitle>

Description: Additional descriptive information about the work that should be displayed under the title.

Format: Alphanumeric, 40 characters max

<pubType>

Description: Type of publication (e.g. Book, Newspaper, e-Journal etc.)The publication types are listed below

Format: Alphanumeric, 40 characters max

<idnoTypeCode>

Description: Code corresponding to the type of standard number we have for this record. The standard number for the work is contained in stdNum. Refer to the description of codes in section 2.4.

Format: Alphanumeric, 40 characters max

<editor>

Description: Editor of the work

Format: Alphanumeric, 40 characters max

<itemUrl>

Description: Url to the work

Format: Alphanumeric, 40 characters max

<volume>

Description: Volume of the work

Format: Alphanumeric, 40 characters max

<pagination>

Description: Pagination / total pages

Format: Alphanumeric, 40 characters max

<series>

Description: Series number

Format: Alphanumeric, 40 characters max

<language>

Description: Language

Format: Alphanumeric, 40 characters max

<countryOfPublication>

Description: Country of Publication

Format: Alphanumeric, 40 characters max

Permission elements

Permission elements describe the rights CCC has for the corresponding product string. The elements contained within permission include **rightsHolder**, **year**, **right** and **terms_flag**.

<rightsHolder>

Description: The rights holder of the work
Format: Alphanumeric, 255 characters max

<year>

Description: Bibliographic publication year
Format: It can be 1) a year range with a hyphen and 4-digit years, ie 1970-1980, or 2) a 4-digit year with optional hyphens in front or behind the year, ie 1970, 1970-, 1980, -1980. Note that -1980- is not a valid format.

<right>

Description: ** See Note 3 below for definitions of the return values*
Format: Alphabetic, 30 characters max
Content: 6 possible values: GRANTED, DENIED, CONTACT RIGHTSHOLDER DIRECTLY, PUBLIC DOMAIN. PERMISSION NOT REQUIRED, SPECIAL ORDER, CURRENTLY NOT AVAILABLE

<terms_flag>

Description: A flag that indicates if the rightsholder has set additional terms for the work
Format: "Y" or "N", 1 character max
** See Note 1 below on how to access Rightsholder terms*

* Notes:

1. To access **rightsholder-set terms**, the Quick Price function must be used. To see only the terms, the Number of pages and Number of copies fields must be populated with a zero [0].
2. When a title cannot be found in the CCC catalog (search results), a Manual Order can be placed using the Order Detail module. The title and publisherName are required for Manual Orders.
3. The Search and Quick Price functions use the following permission responses:

- **GRANTED** – Permission for the requested material is granted by the rightsholder.
- **DENIED** – Permission for the requested material is denied by the rightsholder.
- **CONTACT RIGHTSHOLDER DIRECTLY** – The rightsholder has requested that CCC refer customers directly to them for permission to re-use their material. The user should submit a permission request directly to the rightsholder.
- **PUBLIC DOMAIN. PERMISSION NOT REQUIRED** – The work is in public domain. You do not need to obtain permission for this material.
- **SPECIAL ORDER** – CCC will contact the rightsholder to determine whether permission is granted (or not) and applicable fees.
- **CURRENTLY NOT AVAILABLE** – Permission for the requested material is not available as CCC does not have a right from the rightsholder.

2.4 Search Semantics

There are two search methods to find a CCC work_inst:

Search by standard number (ISBN / ISSN)

Search by publication title and/or publisher name

Searching by standard number is the preferred method, since there is usually (but not always) a one-to-one match.

Possible standard numbers available to search by are as follow:

SERIESSN: International Standard Series Number (ISSN) applied to series of items, for example, a series of books. A book belonging to a particular series will have both an ISSN (identifying the series) and an ISBN (identifying the given monograph as such).

VALISBN10: International Standard Book Number, most commonly occurring identifier for books. Must be 10 characters in length (exclude count of hyphens if present). First 9 characters are digits, the 10th character may be alphanumeric. May only be zero or one Valid ISBN-10 per record.

VALISBN13: International Standard Book Number instituted in 2007 to get ahead of possibilities of a number shortage, which also made the numbers more European Article Number (EAN-13) compliant, now considered the official ISBN format. Must be 13 characters in length (exclude count of hyphens if present). First 12 characters are digits, the 13th character may be alphanumeric. May only be zero or one Valid ISBN-13 per record.

VALSICI: (Valid) Serial Item and Contribution Identifier (SICI), a NISO standard “providing in coded form an identifier for each item of a serial and each contribution contained in a serial.”

VALLCCN: (Valid) most recent Library of Congress Control Number (LCCN), assigned to records by the Library of Congress as a unique identifier of the record. This is different from the classification, which becomes the call number you see on the side of the book on the shelf.

VALCODEN: (Valid) CODEN (doesn't seem to be an acronym, it just is), an ASTM standard used to provide a unique identifier for serials, such as journals, or non-serials, such as dissertations. It is most commonly applied to STM market content materials, and is used as a citation system in bibliographic indexes (handy for scientific research). Value should be 6 characters. The first five characters are alpha, the 6th character is alphanumeric. multiple CODEN values are not allowed.

OCLCNUM: Control number used by OCLC, unique to OCLC's system.

MARCCONTROL: The control number used when a record originates in MARC format. It can be found in the MARC 001 tag.

PMID: PubMed ID (PMID), a unique identifier assigned to some (but not all) PubMed records, at the discretion of the publication editor.

PUBCAT: Publisher Catalog Number (PUBCAT), provided by publishers.

The search function ignores non alpha-numeric characters, i.e., \$^&

When searching by standard number, the entire number needs to be submitted. It is not sufficient to provide just the first numbers in the string. Hyphens are acceptable but not necessary. Searches are NOT case-sensitive. All of the following are acceptable:

080395252X
080395252x
08-03-95252X
08-03-95252x

When searching by publication title and/or publisher name:

1. Searches are NOT case-sensitive; that is "New York Times" and "NEW YORK TIMES" are treated identically.
2. Hyphens without spaces are ignored; that is, "McGraw-Hill" and "McGraw Hill" are treated identically.
3. Publisher names are inconsistently spelled and abbreviated (e.g., AMERICAN CHEMICAL SOCIETY and AM CHEM SOC).
4. The Catalog Gateway will return 100 works at most (sorted alphabetically by title). Therefore searching only by publisher name is often insufficient to narrow the results to fewer than 100.
5. Search results will include all works with the keyword or phrase anywhere in the title. For example, searching for the phrase "NEW YORK TIMES" will find not only the newspaper of that title but also all other works with that phrase in the title, such as:
 - BEHIND THE TIMES: INSIDE THE NEW NEW YORK TIMES

- CRAIG CLAIBORNE'S THE NEW YORK TIMES FOOD ENCYCLOPEDIA
 - HOT SEAT : THEATER CRITICISM FOR THE NEW YORK TIMES
 - NEW YORK TIMES COOK BOOK
6. Multiple words are treated as keywords separated by AND. That is, searching for BUSINESS WEEK is searching for the words BUSINESS and WEEK.
 7. Phrases should be enclosed in quotes, e.g., "BUSINESS WEEK"
 8. A hyphen separated by spaces is treated as a Boolean NOT.
For example, MCGRAW - HILL would find results that include MCGRAW and not HILL.
 9. The asterisk may be used as a wildcard at the end of a word only. (For example, Bosto* is a valid wildcard search, while Bo*ton is not.)
 10. There is no "stop list" of ignored keywords in the search function.
 11. A "synonym list" of having the same or nearly the same meaning as another word or other words in search function is included in Appendix A. The "Exact Title" flag should be Y only if the standard number (ISBN/ISSN) is not known and if the exact title is certain (e.g., the journals SCIENCE or NATURE).

2.5 Error Conditions

The following error conditions are possible from the catalog Gateway.

error_code	Possible Causes
CCC_001	<ul style="list-style-type: none"> • Database inaccessible • Application server inaccessible
CCC_002	<ul style="list-style-type: none"> • Database transaction failure • Unrecoverable application exception
CCC_100	<ul style="list-style-type: none"> • Missing required field(s) - <i>see Note 1</i> in section 2.2
CCC_101	<ul style="list-style-type: none"> • productStr provided is not valid • stdnum provided contains invalid characters
CCC_102	<ul style="list-style-type: none"> • Input field lengths exceeded limits <ul style="list-style-type: none"> ○ stdnum (>20) ○ title (>255) ○ publisher (>255)

3. Quick Price API Details

3.1 Purpose

The **quickPrice()** function allows the user to check the price and permission of a work by specifying a CCC Work Inst and the quantity of the copies. This function must be preceded by a call to `searchWorks()` to obtain the correct CCC WorkInst of the work for which you want to get pricing and permission information. This function only applies to works which have a right of Grant.

NOTE: Although this function is still supported, it has been deprecated by the newer [quickPriceV2 function](#) which supports entire book copying for academic use. If you use this API for academic pay-per-use permissions, you should use quickPriceV2 instead.

3.2 Quick Price Request Format

quickPrice(productStr, cccWorkInst, publicationYear, numCopies, numPages)

productStr

Description: CCC product abbreviation
Format: String, 3 characters exactly
Content: Values will be provided separately for security purposes.
Required: Yes

cccWorkInst

Description: Unique CCC number which identifies a particular work in CCC's database
Format: Long, 15 digits max
Required: Yes

publicationYear

Description: The publication year of the work
Format: String, 4 characters exactly
Content: Must be a number from 1000 to 3000.
Required: Yes

numCopies

Description: The number of copies for which permission is requested
Format: Integer, max value is 99999
Content: Positive values only

Required: Yes

numPages

Description: The number of original pages being photocopied

Format: Integer, max value is 99999

Content: Positive values only

Required: Yes

3.3 Quick Price Results Format

The **quickPrice** function will return a `ccc_response` object containing the catalog search results. The object will be mapped to a well formed XML conforming to the format specified in `rightsConnectResponse.xsd`. This XML schema file specifies the format of the possible elements returned by the CCC Gateway. An example XML file is also provided in Appendix E – Sample of Quick Price Response. There are two possible elements that will be returned inside of the `<ccc_response>` root element, `<ccc_price_permission>` and `<ccc_error>`. The `<ccc_error>` element will be detailed in section 3.4 below.

The `<ccc_response>` element contains a single `<ccc_price_permission>` which contains the following child elements/attribute:

<work_inst>

Description: Attribute to `<ccc_price_permission>` indicating the CCC Work Inst this quote is referring to

Format: Numeric, 15 digits max

<right>

Description: See above for definitions of the return values

Format: Alphabetic, 30 characters max

Content: The only current value is : GRANTED

<terms>

Description: Terms and conditions set by rightsholder

Format: Alphanumeric, 4000 characters max

Optional: Yes

<fee>

Description: Total quoted fee for the order of a granted work

Format: Numeric, integer or float, can be empty

Optional: Yes

<per_page_fee>

Description: Per page fee for the order of a granted work
Format: Numeric, integer or float
Optional: Yes

<flat_fee>

Description: Flat fee for the order of a granted work
Format: Numeric, integer or float
Optional: Yes

<chapter_article_fee>

Description: Chapter/article fee for the order of a granted work
Format: Numeric, integer or float
Optional: Yes

The <ccc_response> root element also has the following optional attribute:

<mode>

Description: Optional attribute that indicates the instance the response is from. The important value to note is "DEMO" which indicates that this is NOT returned from CCC's production instance.
Format: String

3.4 Error Codes

The following error conditions are possible from the **quickPrice** function of the Catalog Gateway.

error_code	Possible Causes
CCC_001	<ul style="list-style-type: none">Database inaccessibleApplication server inaccessible
CCC_002	<ul style="list-style-type: none">Database transaction failureUnrecoverable application exception

CCC_100	<ul style="list-style-type: none"> Missing required field(s), <ul style="list-style-type: none"> cccWorkInst publicationYear productId numCopies numPages
CCC_101	<ul style="list-style-type: none"> productStr provided is not valid cccWorkInst not positive integer or is > 15 digits publicationYear not valid 4-digit year numCopies not positive integer or is > 99999 numPages not positive integer or is > 99999
CCC_102	<ul style="list-style-type: none"> Input field lengths exceeded limits <ul style="list-style-type: none"> productStr not exact (3) character
CCC_207	<ul style="list-style-type: none"> Cannot find work with given cccWorkInst. Fees cannot be calculated. The work can be requested as a special order <u>or always make sure your application performs a new search to obtain the latest cccWorkInst.</u>
CCC_216	<ul style="list-style-type: none"> Fees cannot be calculated at this time
CCC_217	<ul style="list-style-type: none"> Request exceeds the number of pages/copies authorized by the rightsholder. The right can be either "Denied" or "Forward to Rightsholder" depending on the work.
CCC_218	<ul style="list-style-type: none"> Your request exceeds a system limit. Please reduce the quantity requested to obtain permission.

4. Entire Book Calls

You can request rights to photocopy and share, or scan and share, entire books. Entire book reuse rights are a cost-effective way to license works that may be out of print, not available electronically, or other reasons. Simply search for a book, choose your type of use, and select the “I want to reuse the entire book” option on the Price and Order page.

The functions in this section provide the ability for the user to obtain a price quote on copies of a work or copy of entire book. We have added a V2 to these function names to indicate that the methods include the entireBook parameter. For the most part, the functionality is the same as the previous functions. Please note that the permission returned may be different than what was returned by the search. This will happen, for

example, when the number of pages requested exceeds limits set by the owner of this work.

4.1 Purpose

The **quickPriceV2()** function allows the user to check the price and permission of a work by specifying a CCC Work Inst and the quantity of the copies **or simply use the entire book**. This function is typically executed after calling the **searchWorks()** function and obtaining the CCC Work Inst for which you want to get pricing and permission information. This function only applies to works which have a right of Grant.

4.2 Quick Price (Version 2) Request Format

quickPriceV2 (productStr, cccWorkInst, publicationYear, numCopies, numPages, entireBook)

productStr

Description:	CCC product abbreviation
Format:	String, 3 characters exactly
Content:	Values will be provided separately for security purposes.
Required:	Yes

cccWorkInst

Description:	Unique CCC number which identifies a particular work in CCC's database
Format:	Long, 15 digits max
Required:	Yes

publicationYear

Description:	The publication year of the work
Format:	String, 4 characters exactly
Content:	Must be a number from 1000 to 3000.
Required:	Yes

numCopies

Description:	The number of copies for which permission is requested
Format:	Integer, max value is 99999
Content:	Positive values only
Required:	Yes

numPages

Description: The number of original pages being photocopied
Format: Integer, max value is 99999
Content: Positive values only
Required: Yes

entireBook

Description: A text field either 'Y' or 'N'
Format: String, 1 character
Required: Yes ***See Note #1 below**

*** Notes:**

1. **If numPages is used, the entireBook must be set to 'N'. If entire book is set to 'Y', and numPages, fromPage, toPage are present, an error message will show as a conflict.**

4.3 Quick Price (Version 2) Results Format

The **quickPriceV2** function will return a ccc_response object containing the catalog search results. The object will be mapped to a well formed XML conforming to the format specified in rightsConnectResponse.xsd. This XML schema file specifies the format of the possible elements returned by the CCC Gateway. An example XML file is also provided: **quickPriceV2Return.xml**. There are two possible elements that will be returned inside of the <ccc_response> root element, <ccc_price_permission> and <ccc_error>. The <ccc_error> element will be detailed in section 3.4 below.

The <ccc_response> element contains a single <ccc_price_permission> which contains the following child elements/attribute:

<work_inst>

Description: Attribute to <ccc_price_permission> indicating the CCC Work Inst this quote is referring to
Format: Numeric, 15 digits max

<right>

Description: See above for definitions of the return values
Format: Alphabetic, 30 characters max
Content: The only current value is : GRANTED

<terms>

Description: Terms and conditions set by rightsholder
Format: Alphanumeric, 4000 characters max

Optional: Yes

<fee>

Description: Total quoted fee for the order of a granted work

Format: Numeric, integer or float, can be empty

Optional: Yes

<per_page_fee>

Description: Per page fee for the order of a granted work

Format: Numeric, integer or float

Optional: Yes

<flat_fee>

Description: Flat fee for the order of a granted work

Format: Numeric, integer or float

Optional: Yes

<chapter_article_fee>

Description: Chapter/article fee for the order of a granted work

Format: Numeric, integer or float

Optional: Yes

The **<ccc_response>** root element also has the following optional attribute:

<mode>

Description: Optional attribute that indicates the instance the response is from. The important value to note is "DEMO" which indicates that this is NOT returned from CCC's production instance.

Format: String

Content: Only "PROD" or "DEMO" is allowed

4.4 Error Codes

The following error conditions are possible from the **quickPrice** function of the Catalog Gateway.

error_code	Possible Causes
<i>CCC_001</i>	<ul style="list-style-type: none"> Database inaccessible Application server inaccessible
<i>CCC_002</i>	<ul style="list-style-type: none"> Database transaction failure Unrecoverable application exception
<i>CCC_100</i>	<ul style="list-style-type: none"> Missing required field(s), <ul style="list-style-type: none"> cccWorkInst publicationYear productId numCopies numPages
<i>CCC_101</i>	<ul style="list-style-type: none"> productStr provided is not valid cccWorkInst not positive integer or is > 15 digits publicationYear not valid 4-digit year numCopies not positive integer or is > 99999 numPages not positive integer or is > 99999 Invalid input value. User-provided input does not match a required format. Entire Book does not contain a valid (Y/N) value. Invalid input value. User-provided input does not match a required format. Entire book = 'Y' and numPages = ? are conflicted to each other and cannot be submitted at the same time.
<i>CCC_102</i>	<ul style="list-style-type: none"> Input field lengths exceeded limits <ul style="list-style-type: none"> productStr not exact (3) character
<i>CCC_207</i>	<ul style="list-style-type: none"> Cannot find work with given cccWorkInst. Fees cannot be calculated. The work can be requested as a special order.
<i>CCC_216</i>	<ul style="list-style-type: none"> Fees cannot be calculated at this time
<i>CCC_217</i>	<ul style="list-style-type: none"> Request exceeds the number of pages/copies authorized by the rightsholder. The right can be either "Denied" or "Forward to Rightsholder" depending on the work.

CCC_218

- Your request exceeds a system limit. Please reduce the quantity requested to obtain permission.

Appendix A – Synonym List

The following list details the available search synonyms. For example a search of “acad pediatrics” and “academy pediatrics” yield the same results:

academy,acad
acs,american chemical society
acsi, acta chimica slovenica
agricultural,agricl
agriculture,agric
ahdb, american health & drug benefits
American,America,Amer,Am
ASCD,Association for Supervision and Curriculum
Development
association,assoc,assn
ASTD,American Society for Training and Development
ASTM,American Society for Testing and Materials
Australia,Aust
Australian,Austn
bloomberg, bloomberg business week, bloomberg
businessweek
bna criminal law reporter, criminal law reporter
boards,bds
British,Brit
bureau,bur
business,bus
Canadian,Can
center,ctr
chemical,chem
college,coll
communication,commun
communications,communs
company,co
corporation,corp
council,coun
department,dept
development,dev
developmental,devl
division,div
dow jones, dow jones newswires
education,educ
educational,educ
electrical,elec
engineer,engr
engineering,engrg
engineers,engrs
english,engl

executive,exec
fast company, fast company magazine
federal,fed
federation,fedn
foundation,foun
general,gen
government,govt
hospital,hosp
IEEE,I E E E,Institute of Electrical and Electronics Engineers
incorporated,inc
industry,ind
information,info
institute,inst
institutional,instn
international,intl
jada, journal of the american dental association
JAMA,Journal of the American Medical Association
Japanese,Japns
journal of applied research, j appl ther res
journal,journ,jour
limited,ltl
management,mgmt,mgt
Massachusetts,Mass
medical,medicine,med
medscape, medscape news, medscape medical news
national,natl,nat
NEJM,New England Journal of Medicine
new orleans city business, new orleans citybusiness
organization,org
panama city news herald, news herald
photographers,photographer,photograph,photo
physics,phys
professional,profl
publication,publ,pub
publications,pubns
publisher,pub
publishers,pubs
publishing,pubg,pub
research,res
review,rev
saint,st
san francisco chronicle, sfchronicle, sfgate, sf chronicle
school,sch
science,sci,scientific
society,soc
studies,stud

SUNY, State University of New York, S U N Y
technical, tech, technology
university, univ
usatoday, usa today
wallstreet journal, wall street journal
westlaw, westlaw journal
wired, wired magazine

Appendix B – Catalog Gateway WSDL File

<http://rightsconnectdem1.copyright.com/wsdl/CatalogGatewayImplService.wsdl>

Appendix C – XML Schema for Response Model

Please note that responses will be returned with UTF-8 encoding

http://rightsconnectdem1.copyright.com/wsdl/CatalogGatewayImplService_schema1.xsd

Appendix D – Sample of SearchWorksV2 Call and Response

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:rig="http://rightsconnect.copyright.com">
  <soapenv:Header/>
  <soapenv:Body>
    <rig:searchWorksV2>
      <!--Optional:-->
      <!--Optional:-->
      <productStr>APS</productStr>
      <!--Optional:-->
      <!--Optional:-->
      <title>The Boston Globe</title>
      <!--Optional:-->
    </rig:searchWorksV2>
  </soapenv:Body>
</soapenv:Envelope>

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:searchWorksV2Response xmlns:ns2="http://rightsconnect.copyright.com">
      <ccc_response mode="DEV1" platform="rightsconnect">
        <ccc_search_ext_info_results>
          <total_match_count>1</total_match_count>
          <returned_match_count>1</returned_match_count>
          <work work_inst="122840823">
            <stdnum>07431791</stdnum>
            <title>Boston globe</title>
            <publisherName>GLOBE NEWSPAPER CO (MA)</publisherName>
            <author/>
            <edition/>
            <subtitle/>
            <pubType>Newspaper</pubType>
            <idnoTypeCode>VALISSN</idnoTypeCode>
            <editor/>
            <itemUrl>http://www.boston.com</itemUrl>
            <volume/>
            <pagination/>
            <series/>
            <language>English</language>
            <countryOfPublication>United States of America</countryOfPublication>
            <permission>
              <rightsHolder>GLOBE NEWSPAPER COMPANY - MA</rightsHolder>
              <year>1960</year>
              <right>GRANTED</right>
              <terms_flag>Y</terms_flag>
            </permission>
          </work>
        </ccc_search_ext_info_results>
      </ccc_response>
    </ns2:searchWorksV2Response>
  </S:Body>
</S:Envelope>
```


Appendix E – Sample of Quick Price Response

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:quickPriceResponse xmlns:ns2="http://rightsconnect.copyright.com">
      <ccc_response platform="rightsconnect" mode="LOCAL">
        <ccc_price_permission work_inst="3609110">
          <right>GRANTED</right>
          <terms>-- FOR DEMONSTRATION AND TESTING ONLY -- This application is currently directed at the
Copyright Clearance Center's testing and demonstration server. No rights are actually being granted or orders generated
by this software. -- Caution about "Only Globe Staff and Globe Correspondent materials may be used": Verification of
authorship is your responsibility. Please check the author of the article before using this material. Contact the Globe
directly for permission for articles authored by "Globe Correspondents", for photo use, or for editorials and articles by
Ellen Goodman, David Shribman, and Dan Wasserman - 617-929-2659.</terms>
          <fee>703.00</fee>
          <per_page_fee>2.00</per_page_fee>
        </ccc_price_permission>
      </ccc_response>
    </ns2:quickPriceResponse>
  </S:Body>
</S:Envelope>
```

Appendix F – Sample of CCCvError

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:searchWorksResponse xmlns:ns2="http://rightsconnect.copyright.com">
      <ccc_response platform="rightsconnect" mode="LOCAL">
        <ccc_error id="353974">
          <error_code>CCC_100</error_code>
          <error_level>1</error_level>
          <error_detail>A required parameter value was not supplied. A valid ISBN/ISSN, Title, or Publisher Name is
required.</error_detail>
        </ccc_error>
      </ccc_response>
    </ns2:searchWorksResponse>
  </S:Body>
</S:Envelope>
```

Appendix G – HTTP Header Authorization

Using Java:

```
// start: setting HTTP headers

String username = "SZBHIOT56YDCG8GKCB1";
String password = "+8fbIwB2h9f7QhBudlGSeFCB31dCa4rESjROw=";

byte[] credential = (username + ":" + password).getBytes();
String authorization = new
String(org.apache.commons.codec.binary.Base64.encodeBase64(credential));

Map requestContext = ((BindingProvider) port).getRequestContext();
Map<String, List<String>> httpHeaders = new HashMap<String, List<String>>();
httpHeaders.put("Authorization", Collections.singletonList("Basic " + authorization));
requestContext.put(MessageContext.HTTP_REQUEST_HEADERS, httpHeaders);
.
.
.
```

Using .NET:

```

HttpRequestMessageProperty httpRequest = new HttpRequestMessageProperty();
    OperationContext.Current.OutgoingMessageProperties.Add(HttpRequestMessageProperty.Name, httpRequest);
byte[] authbytes = Encoding.ASCII.GetBytes("SZBHIOT56YCDCG8GKCB1:8fbIwB2h9f7QhBudlGSeFCB31dCa4rESjROw=");
string base64 = Convert.ToBase64String(authbytes);
httpRequest.Headers.Add("Authorization", "Basic " + base64);

```

Appendix H – API Change Log

Version Date	Changes
2.7 Oct. 2012	<ul style="list-style-type: none"> Added new searchWorksV2 documentation.
2.6 April 2012	<ul style="list-style-type: none"> Added terms and conditions workflow requirements Updated synonym list with supported terms.

© 2002-2011 Copyright Clearance Center, Inc. All Rights Reserved.
Not for use or disclosure outside of Copyright Clearance Center without prior written authorization