Overview

dmwebservices is a simple wrapper around the CONTENTdm Server API functions, with a few exceptions to improve error handling. A few additional API functions are handled by the utils controller on the CONTENTdm Website instead of by dmwebservices on the CONTENTdm Server.

dmwebservices provides an interface to the CONTENTdm Server API functions, in the form:


- Replace yourCONTENTdmURL with your institution’s CONTENTdm Website URL.
- function: One of the API functions listed below
- param1, param2, etc.: Function-specific parameters documented in the function references linked below
- format: Either "xml" to return the response as XML, or "json" to return JSON

For CONTENTdm sites hosted by OCLC, note the following:

1. The Website URL must use HTTPS:// rather than HTTP://
2. Do not use a port number (":81") with the Website URL.
3. Do not use the loopback interface ("localhost") in place of the WebsiteURL.

Application-level functions

wsAPIDescribe

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<thead>
<tr>
<th>SIGNATURE</th>
<th>RETURNS</th>
<th>EXAMPLE</th>
</tr>
</thead>
</table>
format

- Replace `yourCONTENTdmURL` with your institution's CONTENTdm Website URL.
- `format` is either xml or json

---

### Server-level functions

**dmGetCollectionList**

**dmGetCollectionList**

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</table>

- Replace `yourCONTENTdmURL` with your institution's CONTENTdm Website URL.
- `format` is either xml or json

**dmGetDublinCoreFieldInfo**

**dmGetDublinCoreFieldInfo**

<table>
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<tr>
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</table>

- Replace `yourCONTENTdmURL` with your institution's CONTENTdm Website URL.
- `format` is either xml or json
### dmGetLocale

**SIGNATURE**


**EXAMPLE**


- Replace `yourCONTENTdmURL` with your institution’s CONTENTdm Website URL.
- `format` is either xml or json

---

### dmGetStopWords

**SIGNATURE**


**RETURNS**

A list of the stop words listed in Stopwords.txt.

**EXAMPLE**


- Replace `yourCONTENTdmURL` with your institution’s CONTENTdm Website URL.
- `format` is either xml or json

Stopwords.txt is a global file for the server, so no collection alias is required.

---

### Collection-level functions
### dmGetCollectionArchivalInfo

**SIGNATURE**


- Replace *yourCONTENTdmURL* with your institution's CONTENTdm Website URL.
- *alias* is a collection alias
- *format* is either xml or json

**EXAMPLE**


### dmGetCollectionDisplayImageSettings

**SIGNATURE**


- Replace *yourCONTENTdmURL* with your institution's CONTENTdm Website URL.
- *alias* is a collection alias
- *format* is either xml or json

**EXAMPLE**

### dmGetCollectionFieldInfo

**SIGNATURE**


**EXAMPLE**

- Replace **yourCONTENTdmURL** with your institution's CONTENTdm Website URL.
- **alias** is a collection alias
- **format** is either xml or json

In JSON, Unicode characters in the field's name are converted to decimal Unicode entities. E.g., 题名 is converted to \u984c\u540d

# dmGetCollectionFieldVocabulary

## dmGetCollectionFieldVocabulary

<table>
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<tr>
<th>SIGNATURE</th>
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<th>EXAMPLE</th>
</tr>
</thead>
</table>
| http://yourCONTENTdmURL.com/digital/bl/dmwebservices/index.php?q=dmGetCollectionFieldVocabulary/ | example of the request URL | example of the request URL

- Replace `yourCONTENTdmURL` with your institution's CONTENTdm Website URL.
- **alias** is a collection alias
- **nickname** is the field nickname
- **forcedict** is either "0" or "1". Specifying "1" forces a return of the dictionary instead of the controlled vocabulary. By default, if a controlled vocabulary is returned, only those terms that actually appear in the field metadata in the collection are returned.
- **forcefullvoc** is either "0" or "1". Specifying "1" forces a return of the full controlled vocabulary.
- **format** is either xml or json

Returns an array of terms for the field specified by the given collection alias and field nickname.

**dmGetCollectionFullResVolumeInfo**

**SIGNATURE**


**EXAMPLE**


- Replace **yourCONTENTdmURL** with your institution’s CONTENTdm Website URL.
- **alias** is a collection alias
- **volume** is the volume name
- **format** is either xml or json

**dmGetCollectionImageSettings**

**SIGNATURE**


**EXAMPLE**


- Replace **yourCONTENTdmURL** with your institution’s CONTENTdm Website URL.
- **alias** is a collection alias
- **format** is either xml or json
### dmGetCollectionParameters

**SIGNATURE**

http://yourCONTENTdmURL.com/digital/bl/dmwebservices/index.php?
q=dmGetCollectionParameters/alias/format

**EXAMPLE**

http://yourCONTENTdmURL.com/digital/bl/dmwebservices/index.php?
q=dmGetCollectionParameters/ctimes/xml

- Replace **yourCONTENTdmURL** with your institution's CONTENTdm Website URL.
- **alias** is a collection alias
- **format** is either xml or json

### dmGetCollectionPDFInfo

**SIGNATURE**


**EXAMPLE**


- Replace **yourCONTENTdmURL** with your institution's CONTENTdm Website URL.
- **alias** is a collection alias
- **format** is either xml or json
dmGetCollectionWords

SIGNATURE

RETURNS
A list in the specified format of the indexed words for all fields or only those specified.

EXAMPLE

• Replace yourCONTENTdmURL with your institution’s CONTENTdm Website URL.
• alias is a collection alias
• fields is a !-delimited list of field nicknames listing the fields for which the words should be returned. Can also be "all" for all fields.
• format is either xml or json

Item-level functions

dmCheckStreamingUrl

SIGNATURE

RETURNS
This checks to see if an item type with no defined viewer is a streaming item as defined in stream.txt on the server.

EXAMPLE

returns:
{"s":true,"url":"http://www.myurl.com/1.ram"}
<table>
<thead>
<tr>
<th>SIGNATURE</th>
<th>RETURNS</th>
<th>EXAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>find property of <code>dmGetItemInfo</code></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• <em>extension</em> is the file extension</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• <em>format</em> is json</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**dmEADSearchTotals**

**dmEADSearchTotals**

<table>
<thead>
<tr>
<th>SIGNATURE</th>
<th>EXAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Replace <em>yourCONTENTdmURL</em> with your institution's CONTENTdm Website URL.</td>
<td></td>
</tr>
<tr>
<td>• <em>alias</em> is a collection alias</td>
<td><code>{&quot;pager&quot;:{&quot;start&quot;:1,&quot;maxrecs&quot;:10,&quot;total&quot;:10},&quot;records&quot;:[[&quot;6&quot;,39],[&quot;7&quot;,4]]</code></td>
</tr>
<tr>
<td>• <em>searchterm^mode</em> where searchterm is the term searched for, and mode is the type of search. mode can be &quot;any&quot;, &quot;all&quot;, or &quot;exact&quot;.</td>
<td></td>
</tr>
<tr>
<td>• <em>id</em> is the object ID</td>
<td></td>
</tr>
<tr>
<td>• <em>pagecount</em> is the number of pages in the compound object</td>
<td></td>
</tr>
<tr>
<td>• <em>document_type</em> is findingaid</td>
<td></td>
</tr>
<tr>
<td>• <em>find</em> is the file name from the find property of <code>dmGetItemInfo</code></td>
<td></td>
</tr>
<tr>
<td>• <em>format</em> is xml or json</td>
<td></td>
</tr>
</tbody>
</table>
# dmFullTextTotals

## SIGNATURE


## RETURNS

- Replace **yourCONTENTdmURL** with your institution’s CONTENTdm Website URL.
- **alias** is a collection alias
- **field^searchterm^mode** where field is the full text search field; searchterm is the term searched for; and mode is the type of search. mode can be "any", "all", or "exact".
- **return_field** is the field returned from the search. For this function, this is the same as the searched full text field
- **id** is the object ID
- **pagecount** is the number of pages in the compound object
- **document_type** is type of document ("compobj")
- **find** is the file name from the find property of dmGetItemInfo
- **format** is xml or json

## EXAMPLE

This returns the total number of page matches and the page IDs with the number of matches per page. The example search below finds matches on three of six pages, with one match on the page with ID 96.


Returns

```json
{"pager":{"start":0,"maxrecs":6,"total":3},"records":[]}
```

---

# dmGetCompoundObjectInfo

## dmGetCompoundObjectInfo

Returns the flat structure:

```xml
<?xml version="1.0"?>
```

---

https://help.oclc.org/Metadata_Services/CONTENTdm/Advanced_website_customization/API_Reference/CONTE...
**dmGetImageInfo**

**SIGNATURE**

http://yourCONTENTdmURL.com/digital/bl/
dmwebservices/index.php?
q=dmGetImageInfo/alias/pointer/format

**EXAMPLE**

http://yourCONTENTdmURL.com/digital/bl/
dmwebservices/index.php?
q=dmGetImageInfo/pgpl/525/xml

- **Replace** `yourCONTENTdmURL` with your institution's CONTENTdm Website URL.
- **alias** is a collection alias
- **pointer** is the pointer to the item whose image info you want to get
- **format** is either xml or json
dmGetItemInfo
<table>
<thead>
<tr>
<th>SIGNATURE</th>
<th>RETURNS</th>
<th>EXAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="http://yourCONTENTdmURL.com/digital/bl/dmwebservices/index.php?q=dmGetItemInfo/alias/pointer/format">http://yourCONTENTdmURL.com/digital/bl/dmwebservices/index.php?q=dmGetItemInfo/alias/pointer/format</a></td>
<td>This function returns the descriptive metadata and administrative metadata for an item. Elements in the descriptive metadata are determined by the collection's field configuration, and administrative metadata is added automatically by CONTENTdm. Empty fields are present in XML as empty elements and in JSON as empty arrays. If the item is not found, the function returns the following error message: -2Requested item not found</td>
<td><a href="http://yourCONTENTdmURL.com/digital/bl/dmwebservices/index.php?q=dmGetItemInfo/uw/31/json">http://yourCONTENTdmURL.com/digital/bl/dmwebservices/index.php?q=dmGetItemInfo/uw/31/json</a> returns:</td>
</tr>
<tr>
<td>• Replace yourCONTENTdmURL with your institution's CONTENTdm Website URL.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• alias is a collection alias</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• pointer is the pointer to the item for which you want metadata</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• format is either xml or json</td>
<td></td>
<td></td>
</tr>
<tr>
<td>This function also makes direct calls to dmItemHasOCRText and dmItemFileSize to eliminate the need for extra API calls.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The XML version of this record is:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

```
      "full": {},
    "fullrs": { |
          "full": { |
            "dmoclcno": { |
                  "dmrecord": "525",
                "cdmfilesize": "216777",
                "cdmfilesizeformatted": "0.21 MB",
                "cdmhasocr": "1"
            } |
        } |
      } |
```
### dmGetItemUrl

**SIGNATURE**


**REMARKS**

- Replace `yourCONTENTdmURL` with your institution's CONTENTdm Website URL.
- `alias` is a collection alias
- `find` is the file name from the find property of `dmGetItemInfo`
- `format` is json

This function retrieves the URL of a URL item.

**EXAMPLE**


returns:

{"URL":"http://www.myurl.com"}
dmGetRecent


- Replace yourCONTENTdmURL with your institution's CONTENTdm Website URL.
- alias is a collection alias
- num is the number of items to return
- fields is a !-delimited list of field nicknames listing the fields for which metadata should be returned. A maximum of five fields may be specified. A maximum of 100 bytes is returned for each field.
- mode is the type of query to execute to return either the most recent, the oldest, or a random set of items. 0=most recent (default), 1=oldest, 2=random
- imagesonly can be set to "1" or "0": 1=images only (default), 0=all items
- format can be xml or json

A list of records produced by the query, plus a total for the number of records returned.


returns:

```xml
< xml version="1.0" encoding="UTF-8">?>
< results>
< total>5 < records>
< record>
< collection> < pointer> < title> < date> < /record>
< record>
< collection> < pointer> < title> < date> < /record>
< record>
< collection> < pointer> < title> < ;date> < ;/record>
< record>
< collection> < pointer> < title> < date> < /record>
< record>
< collection> < pointer> < title> < date> < /record>
< /records>
< /results;>
```
**dmGetStreamingFile**

**SIGNATURE**


**REMARKS**

- Replace **yourCONTENTdmURL** with your institution's CONTENTdm Website URL.
- **alias** is a collection alias
- **find** is the file name from the find property of dmGetItemInfo
- **format** is either xml or json

**EXAMPLE**

This function will get the local file and deliver it as a streaming resource for playback or download.


---

https://help.oclc.org/Metadata_Services/CONTENTdm/Advanced_website_customization/API_Reference/CONTE...
### dmItemFileSize

**SIGNATURE**


**RETURNS**

- Replace **yourCONTENTdmURL** with your institution's CONTENTdm Website URL.
- **alias** is a collection alias.
- **pointer** is the id of the item for which to retrieve the size.
- **extension** is the file extension of the item.
- **sizeunit** is an integer to denote the units for the returned formatted string: 0 for bytes, 1 for KB, 2 for MB, 3 for GB.
- **format** can be xml or json or function.

When calling the method directly through the URL, xml or json should be used. When calling the method from another function within the API (as done in `dmGetItemInfo`), function should be used.

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<tr>
<th>SIGNATURE</th>
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<th>EXAMPLE</th>
<th>NOTE</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="http://yourCONTENTdmURL.com/digital/bl/dmwebservices/index.php?q=dmItemFileSize/alias/pointer/extension/sizeunit/format">http://yourCONTENTdmURL.com/digital/bl/dmwebservices/index.php?q=dmItemFileSize/alias/pointer/extension/sizeunit/format</a></td>
<td>An array with two items: the size in bytes (unformatted) and the formatted string based on the size unit passed in.</td>
<td><a href="http://yourCONTENTdmURL.com/digital/bl/dmwebservices/index.php?q=dmItemFileSize/mycollection/7/pdf/2/json">http://yourCONTENTdmURL.com/digital/bl/dmwebservices/index.php?q=dmItemFileSize/mycollection/7/pdf/2/json</a> returns:</td>
<td>This function is also called directly from <code>dmGetItemInfo</code> to remove the need for additional API calls.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Array[size] =&gt; 16831177 [formatted] =&gt; 16.05 MB</td>
<td></td>
</tr>
</tbody>
</table>

This function is also called directly from `dmGetItemInfo` to remove the need for additional API calls.
### dmlItemHasOCRText

<table>
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<tr>
<th>SIGNATURE</th>
<th>RETURNS</th>
<th>EXAMPLE</th>
<th>NOTE</th>
</tr>
</thead>
</table>
| http://yourCONTENTdmURL.com/digital/bl/dmwebservices/index.php?q=dmlItemHasOCRText/alias/pointer/format | • Replace `yourCONTENTdmURL` with your institution's CONTENTdm Website URL.  
• alias is a collection alias  
• pointer is the id of the item to check for OCR text  
• format can be xml or json or function. When calling the method directly through the URL, xml or json should be used. When calling the method from another function within the API (as done in `dmGetItemInfo`), function should be used. | An array with a single item, hasOCR, with a value of 1 (has OCR text) or 0 (no OCR text). | This function is also called directly from `dmGetItemInfo` to remove the need for additional API calls. |

```
http://yourCONTENTdmURL.com/digital/bl/dmwebservices/index.php?q=dmlItemHasOCRText/mycollection/7/json
```

returns:

```
Array([hasOCR] => 1)
```
dmQuery
<table>
<thead>
<tr>
<th>SIGNATURE</th>
<th>RETURNS</th>
</tr>
</thead>
<tbody>
<tr>
<td>• If <code>dmQuery</code> is used with multiple collections the query parameters must follow the Dublin Core mapping rules and use the names from the Dublin Core map field in <a href="https://help.oclc.org/Metadata_Services/CONTENTdm/Advanced_website_customization/API_Reference/CONTENTdm/">Field properties</a>.</td>
<td>• <strong>alias</strong> is a single collection alias, a !-delimited list of collection aliases, or &quot;all&quot; for all collections.</td>
</tr>
<tr>
<td>• <strong>searchstrings</strong> is a four-part, ^-delimited group in the order field^string^mode^operator.</td>
<td>▪ Multiple words in string need to be separated by &quot;+&quot;.</td>
</tr>
<tr>
<td>▪ Use &quot;CISOSEARCHALL&quot; for all fields; mode can be &quot;all&quot;, &quot;any&quot;, &quot;exact&quot;, or &quot;none&quot;; operator can be &quot;and&quot; or &quot;or&quot;.</td>
<td>▪ Up to six groups can be included, delimited by &quot;!&quot;.</td>
</tr>
<tr>
<td>▪ To browse a collection, specify a single alias and &quot;0&quot; as a searchstrings value. The operator for the last searchstring will be ignored.</td>
<td>▪ To browse a collection, specify a single alias and &quot;0&quot; as a searchstrings value. The operator for the last searchstring will be ignored.</td>
</tr>
<tr>
<td>• <strong>fields</strong> is a !-delimited list of field nicknames, listing the fields for which metadata should be returned.</td>
<td>▪ A maximum of five fields may be specified. A maximum of 100 bytes is returned for each field.</td>
</tr>
<tr>
<td>▪ A maximum of five fields may be specified. A maximum of 100 bytes is returned for each field.</td>
<td>• <strong>sortby</strong> is a !-delimited list of field nicknames, detailing how the result should be sorted, in field order.</td>
</tr>
<tr>
<td>• The field nicknames must appear in the field array. If the last element in the array is specified as &quot;reverse&quot;.</td>
<td>▪ The sort will be in reverse (descending) order. Use &quot;nosort&quot; to sort the query by relevance.</td>
</tr>
<tr>
<td>• <strong>maxrecs</strong> is the maximum number of records to return, from 1 to 1024.</td>
<td>▪ <strong>maxrecs</strong> is the maximum number of records to return, from 1 to 1024.</td>
</tr>
</tbody>
</table>
• **start** is the starting number of the first item returned in the result.

• **suppress** specifies whether to suppress compound object pages from the search. Use "1" to suppress or "0" to not suppress (i.e., include pages).

• **docptr** specifies the pointer value of a compound object to restrict the query just to the pages in that compound object. This requires that a single alias be specified. Use "0" if not specified.

• **suggest** specifies whether to return a spelling suggestion, if available for the searchstring's string. Use "1" to get suggestions or use "0" to not return a suggestion.

• **facets** is an optional !-delimited list of field nicknames to return as facets. Use "0" if not requesting facets.

• **showunpub** specifies whether to show or not show items from unpublished collections. Use "1" if requesting items from unpublished collections or "0" to hide items from unpublished collections.

• **denormalizeFacets** specifies whether to show capitalization and diacritics in facet fields that have shared Controlled Vocabulary. Use "1" if requesting capitalization and diacritics or "0" to turn off capitalization and diacritics.

• **format** is either "xml" or "json".
## dmQueryTotalRecs

### SIGNATURE


### RETURNS

The total number of records for each query.

### EXAMPLE

http://yourCONTENTdmURL.com/digital/bl/dmwebservices/index.php?q=dmQueryTotalRecs/mycollection|subject^word^all^and|subject|title|nosort~

• Replace yourCONTENTdmURL with your institution's CONTENTdm Website URL.

• queries are ~-delimited and the parts of each query are |-delimited. The parts of each query are: alias|searchstring|return_fields|sort. See dmQuery for more detailed information.

• format is xml

For each query in queries, this function executes a query with a maximum limit of one record returned. It then pulls total records of the query from the pager info in the returned data.
GetItemDmmodified

GetItemDmmodified

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<th>RETURNS</th>
<th>EXAMPLE</th>
</tr>
</thead>
</table>

- Replace `yourCONTENTdmURL` with your institution's CONTENTdm Website URL.
- `alias` is a collection alias
- `pointer` is the pointer of the item whose last-modified date you want
- `format` is json

This function is not part of the standard CONTENTdm API. It is a subset of dmGetItemInfo, designed for efficient realtime retrieval of an item's last-modified date, so a full request to dmGetItemInfo can be issued if necessary.

The value of the `dmmodified` element for the requested item. If item is not found, returns the following error message:

```
-2
Requested item not found
```

http://yourCONTENTdmURL.com/digital/bl/dmwebservices/index.php?q=GetItemDmmodified/uw/31/json returns:

```
{"0":"2009-09-22"}
```
**GetParent**

**SIGNATURE**

http://yourCONTENTdmURL.com/digital/bl/dmwebservices/index.php?
q=GetParent/alias:pointer/format

**RETURNS**

This function returns the pointer of the item that is the parent of the pointer in the URL signature. If no parent is found, this function returns "-1".

**EXAMPLE**

http://yourCONTENTdmURL.com/digital/bl/dmwebservices/index.php?
q=GetParent/ukr/83062/xml

returns:

<parent>83090</parent>

- Replace yourCONTENTdmURL with your institution's CONTENTdm Website URL.
- alias is a collection alias
- pointer is the pointer of the item whose parent you want to get
- format is either xml or json