CONTENTdm Server API Functions - dmwebservices

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

wsAPIDescribe

<table>
<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

<table>
<thead>
<tr>
<th>SIGNATURE</th>
<th>EXAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Replace yourCONTENTdmURL with your institution's CONTENTdm Website URL.</td>
<td></td>
</tr>
<tr>
<td>• format is either xml or json</td>
<td></td>
</tr>
</tbody>
</table>

#### dmGetDublinCoreFieldInfo

dmGetDublinCoreFieldInfo

<table>
<thead>
<tr>
<th>SIGNATURE</th>
<th>EXAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Replace yourCONTENTdmURL with your institution's CONTENTdm Website URL.</td>
<td></td>
</tr>
<tr>
<td>• format is either xml or json</td>
<td></td>
</tr>
</tbody>
</table>
### dmGetLocale

**SIGNATURE**


**EXAMPLE**


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

### dmGetStopWords

**SIGNATURE**


**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**

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

**EXAMPLE**

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

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

---

### dmGetCollectionDisplayImageSettings

**SIGNATURE**

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

**EXAMPLE**

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

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

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

- 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

**SIGNATURE**

http://yourCONTENTdmURL.com/
digital/bl/dmwebservices/
index.php?q=dmGetCollectionFieldVocabulary/
alias/nickname/forcedict/
forcefullvoc/format

**RETURNS**

- 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

**EXAMPLE**

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

http://yourCONTENTdmURL.com/
digital/bl/dmwebservices/
index.php?q=dmGetCollectionFieldVocabulary/ctimes/subjelc/0/1/xml
### dmGetCollectionFullResVolumeInfo

#### SIGNATURE


- 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

#### EXAMPLE


### dmGetCollectionImageSettings

#### SIGNATURE


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

#### EXAMPLE

## 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:

```json
{"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 dmGetItemInfo</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• extension is the file extension</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• format is json</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### dmEADSearchTotals

**dmEADSearchTotals**

**SIGNATURE**

```
http://yourCONTENTdmURL.com/digital/bl/
dmwebservices/index.php?q=dmEADSearchTotals/
alias/searchterm^mode/id/pagecount/document_type/
find/format
```

**EXAMPLE**

```
http://yourCONTENTdmURL.com/digital/bl/
dmwebservices/index.php?q=dmEADSearchTotals/
mycollection/bridge^any/8/2/findingaid/9.cpd/json
```

returns:

```
{"pager":{"start":1,"maxrecs":10,"total":10},"records":[["6",39],["7",4]]}
```
**dmFullTextTotals**

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

- 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

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
```

```
{"pager":{"start":0,"maxrecs":6,"total":3},"records":[[96,1],[98,5],[99,4]]}
```

**dmGetCompoundObjectInfo**

<table>
<thead>
<tr>
<th>dmGetCompoundObjectInfo</th>
<th></th>
</tr>
</thead>
</table>

Returns the flat structure:

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

**SIGNATURE**

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

**EXAMPLE**

```plaintext
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
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:</td>
<td></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></td>
<td></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></td>
<td></td>
<td>{</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&quot;title&quot;: &quot;Prince George Citizen, Wednesday, May 17th 1916&quot;, &quot;date&quot;: &quot;1916-05-17;&quot;, &quot;rights&quot;: &quot;Public domain&quot;, &quot;format&quot;: &quot;Text&quot;, &quot;type&quot;: &quot;Image(\text{jpeg})&quot;, &quot;language&quot;: &quot;eng&quot;, &quot;full&quot;: {</td>
</tr>
<tr>
<td></td>
<td></td>
<td>}, &quot;fullrs&quot;: {</td>
</tr>
<tr>
<td></td>
<td></td>
<td>}, &quot;find&quot;: &quot;526.cpd&quot;, &quot;dmaccess&quot;: {</td>
</tr>
<tr>
<td></td>
<td></td>
<td>}, &quot;dmimage&quot;: {</td>
</tr>
<tr>
<td></td>
<td></td>
<td>}, &quot;dmcreated&quot;: &quot;2009-09-22&quot;, &quot;dmmodified&quot;: &quot;2009-09-22&quot;, &quot;dmoclno&quot;: {</td>
</tr>
<tr>
<td></td>
<td></td>
<td>}, &quot;dmrecord&quot;: &quot;525&quot;, &quot;cdmfilesize&quot;: &quot;216777&quot;, &quot;cdmfilesizeformatted&quot;: &quot;0.21 MB&quot;, &quot;cdmhasocr&quot;: &quot;1&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>}</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The XML version of this record is:</td>
</tr>
</tbody>
</table>
### dmGetItemUrl

**SIGNATURE**


**RETCURNS**

This function retrieves the URL of a URL item.

**EXAMPLE**


returns:

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

- 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
dmGetRecent

dmGetRecent

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

- 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.
### dmGetStreamingFile

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

- 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
### dmItemFileSize

<table>
<thead>
<tr>
<th>SIGNATURE</th>
<th>RETURNS</th>
<th>EXAMPLE</th>
<th>NOTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Replace yourCONTENTdmURL with your institution's CONTENTdm Website URL.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• alias is a collection alias</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• pointer is the id of the item for which to retrieve the size</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• extension is the file extension of the item</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• 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</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></td>
<td>This function is also called directly from dmGetItemInfo to remove the need for additional API calls.</td>
</tr>
<tr>
<td>• 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.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

http://yourCONTENTdmURL.com/digital/bl/dmwebservices/index.php?q=dmItemFileSize/mycollection/7/pdf/2/json returns:

Array[size] => 16831177 [formatted] => 16.05 MB
### dmItemHasOCRText

<table>
<thead>
<tr>
<th>SIGNATURE</th>
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<th>EXAMPLE</th>
<th>NOTE</th>
</tr>
</thead>
</table>
| http://yourCONTENTdmURL.com/digital/bl/dmwebservices/index.php?q=dmItemHasOCRText/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=dmItemHasOCRText/mycollection/7/json returns:

```
Array([hasOCR] => 1)
```
SIGNATURE

http://yourCONTENTdmURL.com/digital/bl/
dmwebservice/index.php?q=dmQuery/alias/
searchstrings/fields/sortby/
maxrecs/start/suppress/docptr/suggest/facets/
showunpub/denormalizeFacets/format

- Replace yourCONTENTdmURL with your institution's CONTENTdm Website URL.
- If dmQuery 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 Field properties.
- alias is a single collection alias, a !-delimited list of collection aliases, or "all" for all collections.
- searchstrings is a four-part, ^-delimited group in the order field^string^mode^operator.
  - Use "CISOSEARCHALL" for all fields; mode can be "all", "any", "exact", or "none"; operator can be "and" or "or".
  - Multiple words in string need to be separated by "+".
  - Up to six groups can be included, delimited by "!".
  - To browse a collection, specify a single alias and "0" as a searchstrings value. The operator for the last searchstring will be ignored.
- 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.
- sortby is a !-delimited list of field nicknames, detailing how the result should be sorted, in field order.
  - The field nicknames must appear in the field array. If the last element in the array is specified as "reverse".
    - The sort will be in reverse (descending) order. Use "nosort" to sort the query by relevance.
- maxrecs is the maximum number of records to return, from 1 to 1024.

This function returns a list of records produced by the query, plus a pager that contains values for start, maxrecs, and total.

If facets is included, this function returns a list of facets on the indicated field(s).

If suggest is "1", the suggested spelling is returned.

If showunpub is "1", records from unpublished collections will be included.

If denormalizeFacets is "1", and facets is not "0", but instead a !-delimited list of field nicknames, then the requested facet fields will be shown with capitalization and diacritics.
• **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~
```

- **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

- Replace `yourCONTENTdmURL` with your institution's CONTENTdm Website URL.

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

**SIGNATURE**


**RETURNS**

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

**EXAMPLE**


returns:

{"0":"2009-09-22"}

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.

- 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
# GetParent

The **GetParent** function is used to retrieve the pointer of the parent item of a given item in CONTENTdm. The signature of this function is as follows:

<table>
<thead>
<tr>
<th>SIGNATURE</th>
<th>RETURNS</th>
<th>EXAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>http://yourCONTENTdmURL.com/digital/bl/dmwebservices/index.php?q=GetParent/alias/pointer/format</code></td>
<td>This function returns the pointer of the item that is the parent of the <code>pointer</code> in the URL signature. If no parent is found, this function returns &quot;-1&quot;.</td>
<td><code>http://yourCONTENTdmURL.com/digital/bl/dmwebservices/index.php?q=GetParent/ukr/83062/xml</code> returns: <code>&lt;parent&gt;83090&lt;/parent&gt;</code></td>
</tr>
</tbody>
</table>

- 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.

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[https://help.oclc.org/Metadata_Services/CONTENTdm/Advanced_website_customization/API_Reference/CONTENTdm.html](https://help.oclc.org/Metadata_Services/CONTENTdm/Advanced_website_customization/API_Reference/CONTENTdm.html)