

My Docs Online Secure File Delivery REST API Reference

See the *Developer's Getting Started Guide* for an introduction to My Docs Online Secure File Delivery and how to use it programmatically.

Processing flow description

An Authentication request is sent to the MDO API server to verify the client credentials and determine if the client is allowed to use the API. Following successful authentication the client uploads one or more files to be included in the Secure File Delivery (the "share"). Finally the share is completed and the results are returned to be processed by the calling program (e.g. displayed to a user, stored for future use, logged, etc).

An optional use of authentication processing is "Get Folder URL" processing

REST Authentication Get Folder URL processing

Generate the authentication string by doing the following:

- Generate a Date and Time string
- Generate an MD5 hash of the password and convert it to a lower case hex string.
- Generate a lower case form of the My Docs Online Login ID.
- Generate a string by concatenating the strings using the following format:
lower case id + "++" + Password hash hex string + "++" + Date-Time string
- Generate an MD5 hash of the resulting string and convert it to a lower case hex string.
- Create AUTH string by concatenating the user id + "," + MD5 hash

Send an authentication request to the MDO API Server:

The Folder Path is a slash delimited list of folders. i.e. Acme/test folder/destination folder

```
GET /MdoApi/MdoApi.ashx HTTP/1.1
Host: www3.mydocsonline.com
x-mdo-auth: userid,Auth Hex String
x-mdo-date: Date-Time string
x-mdo-folderpath: Folder Path
x-mdo-request: AUTHFOLDERURL
```

The response will be an XML document:

```
<mdoapiresponse>
  <errcode>Three digit error code</errcode>
  <errmsg>Error information</errmsg>
```

```
<result>fail or ok</result>
<url>Mydocs Online logged into Folder url</url>
</mdoapiresponse>
```

REST Authentication processing in preparation for file sharing

Generate the authentication string by doing the following:

- Generate a Date and Time string
- Generate an MD5 hash of the password and convert it to a lower case hex string.
- Generate a lower case form of the My Docs Online Login ID.
- Generate a string by concatenating the strings using the following format:
lower case id + "++" + Password hash hex string + "++" + Date-Time string
- Generate an MD5 hash of the resulting string and convert it to a lower case hex string.
- Create AUTH string by concatenating the user id + "," + MD5 hash

Send an authentication request to the MDO API Server:

```
GET /MdoApi/MdoApi.ashx HTTP/1.1
Host: www3.mydocsonline.com
x-mdo-auth: userid,Auth Hex String
x-mdo-date: Date-Time string
x-mdo-request: AUTH
```

The response will be an XML document:

```
<mdoapiresponse>
  <errcode>Three digit error code</errcode>
  <errmsg>Error information</errmsg>
  <result>fail or ok</result>
  <corr>Session correlation if ok</corr>
</mdoapiresponse>
```

Hint: Save the session correlation for future requests (e.g. Delivery Cancellation Request or Delivery Details Request)

REST Authentication Example

Use this example to check your implementation. Use the example user ID, password, and date to verify the MD5 your code generates. *There is no Testapi ID on MyDocsOnline, it is used here for testing authentication MD5 generation. Once your MD5's match the example, use your*

actual account ID and password.

Assume MyDocsOnline user ID is "Testapi" and the password is "TestApiPassword".

Generate a date and time string. This can be any date/time format. For this example "Friday, June 27, 2014 1:30:56 PM"

Generate MD5 hash of password. "TestApiPassword" ="649d8797b2963b52ef8944f4701fd427"

Lowercase the login Id "Testapi" = "testapi"

Generate a string by concatenating the strings using the following format:

lower case id + "++" + Password hash hex string + "++" + Date-Time string

=

"testapi++649d8797b2963b52ef8944f4701fd427++Friday, June 27, 2014 1:30:56 PM"

Generate an MD5 hash of the resulting string and convert it to a lower case hex string.

"testapi++649d8797b2963b52ef8944f4701fd427++Friday, June 27, 2014 1:30:56 PM"

=

"8fc5afba09e2feabd3aef71bc4f7abbf"

Format the request

GET /MdoApi/MdoApi.ashx HTTP/1.1

Host: www3.mydocsonline.com

x-mdo-auth: testapi,8fc5afba09e2feabd3aef71bc4f7abbf

x-mdo-date: Friday, June 27, 2014 1:30:56 PM

x-mdo-folderpath: TestApi/Use This Folder

x-mdo-request: AUTHFOLDERURL

REST File Upload processing

Upload uses standard POST upload processing, with four extra headers. One file may be uploaded at a time. Multiple files may be included in a single Share by performing the upload process for each file to be included in the Share, followed by Share Complete processing.

Send an upload request to the MDO API Server:

x-mdo-corr: specifies the session correlation returned from the authentication request

x-mdo-folder: specifies the folder name. The **folder must exist and be in the My Docs Online account root.**

x-mdo-filename: The file name to be associated with the uploaded file
x-mdo-request: SHAREPUT The request for processing

Example Request:

```
POST /MdoApi/MdoApi.ashx HTTP/1.1
Host: www3.mydocsonline.com
x-mdo-corr: +358lztKv3qdevQD3Cc2tmwyh4y/gdk3tiHE
x-mdo-folder: the-folder-name
x-mdo-filename: the-file-name.ext
x-mdo-request: SHAREPUT
Content-Length: 26893
Content-Type: multipart/form-data; boundary=-----8d0b8b745d014eb
Expect: 100-continue
-----8d0b8b745d014eb
Content-Disposition: form-data; name="file"; filename="the file name.ext"
Content-Type: application/octet-stream
DATA
-----8d0b8b745d014eb--
```

The response will be an XML document:

```
<mdoapiresponse>
  <errcode>Three digit error code</errcode>
  <errmsg>Error information</errmsg>
  <result>fail or ok</result>
  <docinfo>Document correlation for uploaded file if ok</docinfo>
</mdoapiresponse>
```

REST Share Complete processing

To complete the Share an XML document is uploaded containing information about the Share.

A <doccorr> entry is required for each file.

All other tags are optional:

- If <pw> is included the password/PIN option is enforced, if it is omitted or empty the recipient will not be challenged to enter a password or PIN.
- If <downloadlimit> is omitted or empty the My Docs Online account default is used. If included the value overrides the account default.
- If <expiredays> is omitted or empty the My Docs Online account default is used. If included the value overrides the account default.

- <comment> is optional. *The comment is not seen by the recipient.* It is included in the returned results of a Share Details request, and also in the “details” query in the My Docs Online account when accessed via the web client.

The XML document format:

```
<sharecomplete version="1.0.1">
  <comment>Optional comment associated with share</comment>
  <pw>Optional password or PIN associated with the Share</pw>
  <downloadlimit>Optional limit, the number of times the file can be downloaded</downloadlimit>
  <expiredays>Optional, the number of days the share is available</expiredays>
  <doclist>List of document correlation from File Upload processing (one for each file uploaded)
    <doccorr> document correlation</doccorr>
  </doclist>
</sharecomplete>
```

Sample Request:

```
POST /MdoApi/MdoApi.ashx HTTP/1.1
Host: www3.mydocsonline.com
x-mdo-corr: +358lztKv3qdevQD3Cc2tmwyh4y/gdk3tiHE
x-mdo-request: SHARECOMPLETE
Content-Length: 250
Content-Type: application/xml
<sharecomplete version="1.0.1"><comment>Here is a
comment</comment><pw>abcde</pw><downloadlimit>5</downloadlimit><expiredays>10</ex
piredays><doclist><doccorr>=235F89VUm2ecwvW1p9aS9Dv/JQM7Anekelqwjt21sg+R/s</doc
corr></doclist></sharecomplete>
```

The response will be an XML document:

```
<mdoapiresponse>
  <errcode>Three digit error code</errcode>
  <errmsg>Error information</errmsg>
  <result>fail or ok</result>
  <url>Share URL if ok</url>
  <shareid>Share Identifier if ok</shareid>
</mdoapiresponse>
```

Example:

```
<mdoapiresponse>
  <errcode>000</errcode>
```

```
<errmsg></errmsg>
<result>ok</result>
<url>https://www3.mydocsonline.com/SecureShare.aspx?xzef12l7cds006</url>
<shareid>eag9495asdklklklkwer</shareid>
</mdoapiresponse>
```

The URL you provide to the recipient of the Secure File Delivery. The shareid may be used later by your program for Share Cancel or Share Details processing.

REST Share Cancel processing

To cancel a Share a REST Get request is sent.

x-mdo-corr: specifies the session correlation returned from the authentication request
x-mdo-shareid: value returned in the shareid of the SHARECOMPLETE response.
x-mdo-request: SHARECANCEL

The response is an mdoapiresponse. The result will be ok or fail.

Example Request:

```
GET /MdoApi/MdoApi.ashx HTTP/1.1
Host: www3.mydocsonline.com
x-mdo-corr: +358lztKv3qdevQD3Cc2tmwyh4y/gdk3tiHE
x-mdo-shareid: eag9495asdklklklkwer
x-mdo-request: SHARECANCEL
```

Example Response:

```
<mdoapiresponse>
  <errcode>000</errcode>
  <errmsg></errmsg>
  <result>ok</result>
</mdoapiresponse>
```

REST Share Details processing

To obtain details about the Share a REST Get request is sent.

x-mdo-corr: specifies the session correlation returned from the authentication request
x-mdo-shareid: value returned in the shareid of the SHARECOMPLETE response.

x-mdo-request: SHAREDETAILS

Example Request:

```
GET /MdoApi/MdoApi.ashx HTTP/1.1
Host: www3.mydocsonline.com
x-mdo-corr: +358lztKv3qdevQD3Cc2tmwyh4y/gdk3tiHE
x-mdo-shareid: eag9495asdklklkjwer
x-mdo-request: SHAREDETAILS
```

The response is <mdoapiresponse>. <result> will be ok or fail.
Date and time values are in the form YYYY-MM-DD HH:MM:SS and are Eastern US times.

The Response will contain a list of share entries for each file shared, including:

- **filename** - the name of the file
- **filesize** - the size of the file in bytes
- **sharetime** - the date and time the file was shared
- **expiretime** - the date and time the share expires
- **firstdownload** - date and time the file was first downloaded
- **latestdownload** - date and time of the latest download
- **comment** - comment associated with give
- **downloadlimit** - the number of times a file can be downloaded
- **downloadcount** - the number of times the file has been downloaded
- **sendercanceled** - Sender canceled the share (1=TRUE, 0=FALSE)
- **expired** - the share is expired (1=TRUE, 0=FALSE)
- **maxdownload** - Max download limit reached (1=TRUE, 0=FALSE)
- **finished** - Share is no longer available to the recipient (1=TRUE, 0=FALSE)

Example Response:

```
<mdoapiresponse>
  <errcode>000</errcode>
  <errmsg></errmsg>
  <result>ok</result>
  <sharedetails>
    <shareentry>
      <filename>picture1.jpg</filename>
      <filesize>26699</filesize>
      <sharetime>2013-12-04 10:11:11</sharetime>
      <expiretime>2013-12-14 10:11:11</expiretime>
      <firstdownload></firstdownload>
      <latestdownload></latestdownload>
      <comment>Here is a commment for you</comment>
```

```
<downloadlimit>5</downloadlimit>
<downloadcount>0</downloadcount>
<sendercanceled>0</sendercanceled>
<expired>0</expired>
<maxdownload>0</maxdownload>
<finished>0</finished>
</shareentry>
<shareentry>
  <filename>picture2.jpg</filename>
  <filesize>26699</filesize>
  <sharetime>2013-12-04 10:11:11</sharetime>
  <expiretime>2013-12-14 10:11:11</expiretime>
  <firstdownload></firstdownload>
  <latestdownload></latestdownload>
  <comment>Here is a commment for you</comment>
  <downloadlimit>5</downloadlimit>
  <downloadcount>0</downloadcount>
  <sendercanceled>0</sendercanceled>
  <expired>0</expired>
  <maxdownload>0</maxdownload>
  <finished>0</finished>
</shareentry>
</sharedetails>
</mdoapiresponse>
```

Notes on example response:

- None of the files in example Share, at the time of the SHAREDETAILS request, had been downloaded yet, which is why <firstdownload> and <latestdownload> are empty and <downloadcount> is still "0"

Error Codes

000 no error

201 Internal Server Error

202 System/Database error

210 Upload Failed - Various messages in errmsg data

301 Missing parms - Required parameters are missing

302 Auth Info Invalid - Authentication Parameters are invalid

303 Invalid Folder

304 No Documents - Attempt to do SHARECOMPLETE without document list

305 Invalid Doc Correlation - Invalid data in document list

401 Processing error - Error message will vary

402 Auth failed user or password not valid

403 Session Expired - Session information has timed out

409 Account needs attention - Unable to log in to account

410 Account cannot use API

510 No longer valid - Share correlation cannot be resolved

Contact My Docs Online

Support is available by phone or email.

<http://www.mydocsonline.com/contact.html>