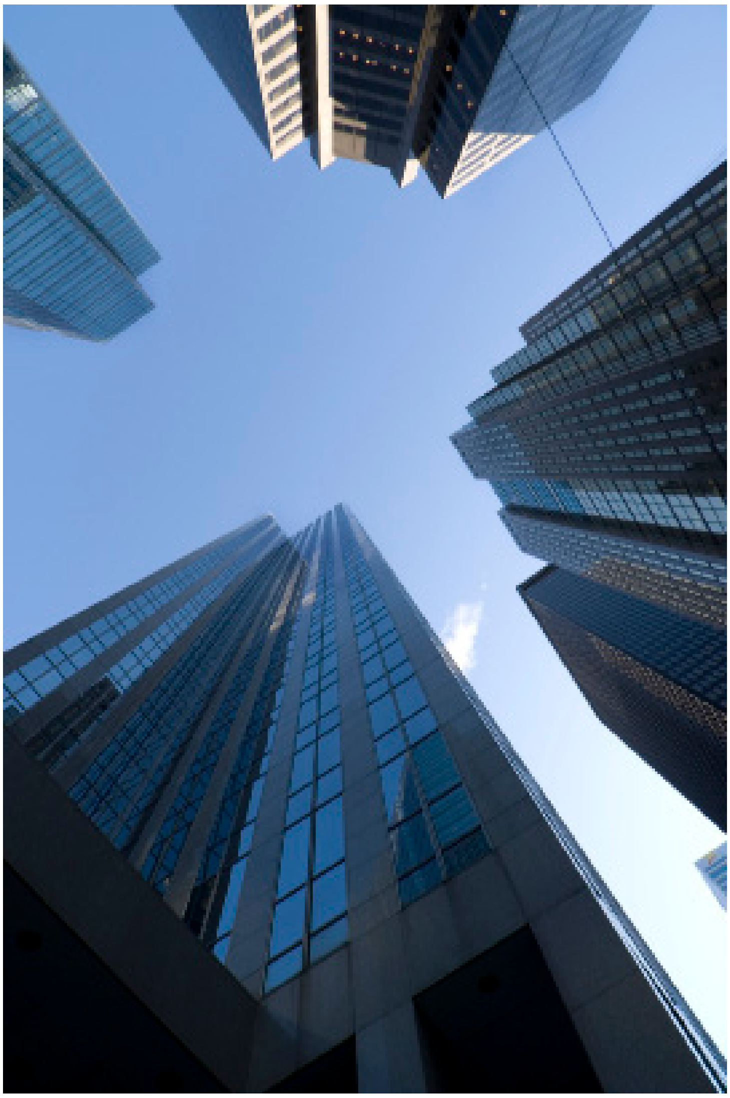


iThenticate API Guide

Version 2.0.7

Updated May 16, 2014

Contents

Introduction

This document is a technical reference specification for the iThenticate API. The API is based on the XML-RPC specification which may be referenced at http://xmlrpc.com. The xml examples shown in this document have added whitespace for readability.

To begin using the API you will need an account username and password to access the API. See your iThenticate account representative to obtain these credentials.

The url of the API resource is https://api.ithenticate.com/rpc (note that there is no trailing slash).

An example API client written in Perl is available as a guide and can be provided by your account representative.

A number of XML-RPC client libraries exist for various programming languages. These libraries typically provide a high-level interface for making XML-RPC requests. Some examples below will show the raw XML request and response "payload", but client libraries often allow you to work with your language's familiar data structures directly and not with the raw XML.

The XML examples shown in this document have added whitespace for readability.

API Constraints

API requests are throttled to 60 requests/second per account. A user's account can not have more than 1000 folders and 100 folder groups. All XML-RPC data must be UTF-8 encoded. All requests are made via the HTTP POST method. All connections to the iThenticate API server must be made via an SSL connection via https. Requests made over http will be returned a 302 redirect code, which some XML-RPC clients may not handle appropriately.

API Requests

Requests are sent in accordance with the XML-RPC specification (http://www.xmlrpc.com/). An XML-RPC "struct" element is used as the payload container for all iThenticate XML-RPC requests. This allows named parameters as input data. The order of the members within the struct element is not important.

Every API request must be encrypted via Secure Sockets Layer (SSL).

Every API request must include a session id (sid). The session id is obtained by an initial "login" API request that returns the session id in the XML-RPC response.

The iThenticate API will request validation but the user is encouraged to ensure that client side requests conform to the guidelines presented in the API. Requests which do not conform to the parameters and examples shown in this document cannot be guaranteed to return correct responses, nor can they be guaranteed to return errors or messages about what elements of the request were invalid. As with HTTP requests, request parameters that are not designated for a certain method will be ignored rather than an error being thrown. See each method description for the required request parameters.

An example login request is shown here (whitespace inserted for readability). The username and password are passed in a *struct* element.

```
<?xml version=”1.0” encoding=”UTF-8”?>
<methodCall>
   <methodName>login</methodName>
   <params>
      <param>
         <value>
            <struct>
               <member>
                  <name>password</name>
                  <value><string>api_test_user_123</string></value>
               </member>
               <member>
                  <name>username</name>
                  <value><string>api_test_user@test.api.ithenticate.com</string></value>
               </member>
            </struct>
         </value>
      </param>
   </params>
</methodCall>
```

API Responses

Responses are returned in accordance with the XML-RPC specification (http://www.xmlrpc.com/). An example successful login response is shown below. The session id used to authenticate subsequent requests is returned in the *sid* element.

All responses include a **api_status** value, which may have the following values. The values use coding scheme similar to the familiar HTTP status codes.

Note: the **api_status** is NOT the HTTP status for your request.

200 - successful response, repsonse may contain messages but not errors
401 - request failed to provide an authenticated session id (sid) for the resource
403 - access to the requested resource is not authorized
404 - requested resource was not found
500 - error in the request, response payload may contain errors or messages

The date and time format for any response data is dateTime.iso8601.

An example of a successful response from a login method request:

```
<struct>

    <member>
        <name>sid</name>
        <value><string>7c306332c88eab2842d83fe099585fceb2cd1e34</string></value>
    </member>
    <member>
        <name>api_status</name>
        <value><int>200</int></value>
    </member>

</struct>
```

Failed Responses

Responses can contain a list of one or more errors. These are strings describing the error condition. These are typically due to input data validation failures and thus associated with the specific input field.

See an example response from a failed login method call on the next page.

Below is an example of a response from a failed login method call where the password field was too short:

```
<struct>
   <member>
      <name>errors</name>
      <value>
         <struct>
            <member>
               <name>password</name>
               <value>
                  <array><data>
                     <value><string>Input must be at least 6 characters. You submitted 3</string></value>
                  </data></array>
               </value>
            </member>
         </struct>
      </value>
   </member>
   <member>
      <name>api_status</name>
      <value><int>500</int></value>
   </member>
</struct>
```

Note: These error messages may be localized based on the account’s language preferences.

Response Messages

Responses can also contain a list of one or more “messages”. These are typically informational such as “record updated”, but may also include error information about a failed request.

Below is an example response for a successful folder creation containing informational status message:

```
<struct>
   <member>
      <name>sid</name>
      <value><string>374cfed6020ff134e36263e8c070a47aba50a757</string></value>
   </member>
   <member>
      <name>messages</name>
      <value><array><data>
         <value><string>Folder Group Created</string></value>
      </data></array></value>
   </member>
   <member>
      <name>api_status</name>
      <value><int>200</int></value>
   </member>
   <member>
      <name>id</name>
      <value><int>109</int></value>
   </member>
</struct>
```

Error Processing

XML-RPC is an HTTP-based protocol, and thus any client applications must look at the HTTP status code before attempting to parse the XML response. iThenticate API requests return 200 HTTP status code unless there is a serious error that prevents processing of the request. For example, attempting to contact the API with an invalid XML-RPC endpoint URL will result in a HTTP status code 404. Malformed XML-RPC requests (e.g. invalid XML) will likely generate a 500 HTTP status code.

The iThenticate XML-RPC response will include an **api_status** element that indicates the success or failure of the API request. The **api_status** for normal successful methods will be 200. Although the **api_status** code is similar to canonical HTTP responses code, they should not be considered the same. Differences between values for api_status and standardized HTTP response codes in the HTTP may be subtle and the user should remember that HTTP status codes and **api_status** are separate entities and will almost always have different values for responses. Clients should check the HTTP response code before looking at the **api_status** value returned in the XML-RPC response.

An **api_status** code of 401 is returned for authorization failures. This can be due to invalid login credentials or a request coming from an IP address not authorized for API requests.

An **api_status** code of 403 indicates that the user does not have access to the requested resource.

An **api_status** code of 404 indicates that an object id in the response does not exist or is invalid.

An **api_status** code of 500 indicates that the request was invalid in some way. This would typically be if the data passed in the XML-RPC request did not meet the requirements of the method. For example, not providing required elements in the XML-RPC request or submitting incorrectly formatted data.

Additional information about an error can be obtained by inspecting two additional elements other than the **api_status** element.

As described above, the XML-RPC response may include a **messages** element. This element may provide an overall reason for the failure, for example “Failed to log in”, or a specific failure condition not covered by the errors field.

The distinction between the **errors** and the **messages** elements may not be entirely clear to the end user. In the case where the documentation is unclear, the user is advised to discern the exact behavior of each element from the response given by the API web service itself.

Example of a response that includes an error condition with a explanation in the **messages** element:

```
<?xml version=”1.0” encoding=”utf-8”?>
<methodResponse>
  <params>
    <param>
      <value>
        <struct>

          <member>
            <name>messages</name>
            <value>
              <array>
                <data>
                  <value>
                    <string>Sorry, failed to log in.</string>
                  </value>
                </data>
              </array>
            </value>
          </member>

          <member>
            <name>api_status</name>
            <value>
              <int>401</int>
            </value>
          </member>

        </struct>
      </value>
    </param>
  </params>
</methodResponse>
```

The message list may contain more than one message. For example, in this case more detail is provided about the error condition:

```
<?xml version=”1.0” encoding=”utf-8”?>
<methodResponse>
  <params>
    <param>
      <value>
        <struct>

          <member>
            <name>messages</name>
            <value>
              <array>
                <data>
                  <value>
                    <string>Access denied from 127.0.0.1</string>
                  </value>
                  <value>
                    <string>Sorry, failed to log in.</string>
                  </value>
                </data>
              </array>
            </value>
          </member>

          <member>
            <name>api_status</name>
            <value>
              <int>401</int>
            </value>
          </member>

        </struct>
      </value>
    </param>
  </params>
</methodResponse>
```

iThenticate API requests require one or more parameters. For example, logging in requires two parameters: a username and a password. The **errors** element, if included in the XML-RPC response, will provide details about errors with these parameters. The **errors** element is an XML-RPC struct element with the keys being the names of the parameters, and the values an XML-RPC list of one or more messages related to that parameter. The **messages** element may also contain details about errors encountered during the login process.

An example of the **login** method above shows an XML-RPC response where an invalid **password** parameter was submitted.

The following example shows an XML-RPC response that includes two **messages**, One begins with a generic message saying login did not succeed, and another message gives the reason for the failed login attempt.

```
<?xml version=”1.0” encoding=”utf-8”?>
<methodResponse>
  <params>
    <param>
      <value>
        <struct>

          <member>
            <name>messages</name>
            <value>
              <array>
                <data>
                  <value>
                    <string>Access denied from 127.0.0.1</string>
                  </value>
                  <value>
                    <string>Sorry, failed to log in.</string>
                  </value>
                </data>
              </array>
            </value>
          </member>

          <member>
            <name>status</name>
            <value>
              <int>401</int>
            </value>
          </member>

        </struct>
      </value>
    </param>
  </params>
</methodResponse>
```

Request and Response Parameter Tables

API Request Parameters

Element	XML-RPC DATA TYPE	DESCRIPTION	API METHODS
sid	string	Session Identifier, 40 characters (a-z, 0-9)	All except login
username	string	The username for the account, must be a valid email address	login
password	string	Account password, minimum 6 characters, no spaces, only word characters (alphanumerics and underscores), cannot be all numbers	login
name	string	Alphanumeric name for an entity, maximum length 4096 characters	group.add folder.add
folder_group	int	id of the folder group, user must own the folder group	folder.add group.folders
description	string	An alphanumeric description, maximum length 4096 characters	folder.add
id	int	An id of an existing folder group, folder, user, or document.	folder.get folder.trash user.drop document.get document.trash report.get group.get group.drop document_ remove_from_ index
exclude_quotes	boolean	Exclude quotes from the folder	folder.add report.get report.get_ document
exclude_biblio	boolean	Exclude bibliographies from the folder or report	folder.add folder.put report.get
exclude_phrases	boolean	Exclude phrases from the folder or report	folder.add folder.put report.get
exclude_small_ matches	boolean	Exclude small matches from the folder or report	folder.add folder.put report.get
exclude_abstract	boolean	Exclude the abstract section from the folder or report	folder.add folder.put

Element	XML-RPC DATA TYPE	DESCRIPTION	API METHODS
exclude_methods	boolean	Exclude the methods and materials section from the folder or report	folder.add folder.put
shared_with	array on integers	Ids of users the folder is to be shared with	folder.sharing
add_to_index	boolean	Adds the folder to the search index Required if the account has a private node	folder.add
first_name	string	First name for a user, maximum 4096 characters	user.add
last_name	string	Last name for a user, maximum 4096 characters	user.add
timezone	int	Numeric timezone ID, defaults to 126 ‘America/Los_Angeles’. See the appendix for available timezones	user.add
submit_to	int	1=> ’Generate Report Only’ 2=> ’to Document Repository Only’ (private storage node required) 3=> ‘to Document Repository & Generate Report’ (private storage node required)	document.add
uploads	array of arrays	An array of document data. Each array element contains an elements as follows: **title**, **author_first**, **author_last**, **filename**, **upload**	document.add
title	string	The title of the document, maximum 256 characters	document.add
author_first	string	The document author’s first name, maximum 200 characters	document.add
author_last	string	The document author’s last name, maximum 200 characters	document.add
upload	base64	The base64 encoded document content	document.add
callback_url	string	A url which will be fetched with the document id when the report is generated. For asynchronous uploading.	document.add
o	string	Order by parameter, accepts a folder, group, or user attribute to order the results by	folder.list group.list user.list
p	string	Specify which page of a pager results set to return	folder.list group.list user.list
r	string	Specify number of rows to return	folder.list group.list user.list
d	string	Reverse the sort order for a record list	folder.list group.list user.list

API Response Parameters

Element	XML-RPC DATA TYPE	DESCRIPTION	API METHODS
sid	string	Session identifier, 40 characters (a-z, 0-9)	login
api_status	int	200: Success 500: Application error 401: Authentication failure 403: Authorization failure 404: Does not exist or has been deleted	all
messages	array	List of one or more informational messages. These messages may or may not contain error conditions not listed in the **errors** field.	all
errors	struct	List of one or more error messages. These are typically due to input data validation failures and thus associated with the specific input field, but may general in nature and require inspection of the **messages** field.	all
response_timestamp	dateTime. iso8601	An iso8601 XMLRPC field in UTC (with a 'Z' appended), returned only for responses that have a 200 api_status code	all
id	int	Id of the newly created element	group.add folder.add document.add group.list group.folders user.add
groups	array	An array of **group** elements	group.list
group	struct	A struct of group element attributes **id**, **name**	all that return groups
folders	array	An array of **folder** elements	folder.list group.list
folder	struct	A struct of folder element attributes **id**, **name**	folder.get folder.list group.list

Element	XML-RPC DATA TYPE	DESCRIPTION	API METHODS
pager	struct	Contains the following members: **entries_per_page**, **total_entries**, **current_page**	folder.list group.list
entries_per_page	int	Number of entries per **pager** page	any that return a pager
total_entries	int	Total number of records returned by the **pager** element	any that return a pager
current_page	int	Current page of result set	any that return a pager
account	struct	Contains members describing the account status	account.get
users	array	An array of user elements	user.list
user	struct	A struct of user element attributes (**id**, **email**, **first_name**, **last_name**)	user.list user.get
report_url	string	A url to view the report which requires user authentication	report.get
view_only_url	string	A view only report url which expires in a set amount of time	report.get
view_only_expires	dateTime. iso8601	The expiration time in minutes from the **response_timestamp** field at which the **view_only_url** expires.	report.get
documents	array	An array of document structs. Each document struct has the following attributes: **id**, **is_pending**, **author_first**, **author_last**, **uploaded_time**, **processed_time**, **percent_match**, **title**, **parts**	document.get
parts	array	An array of document **part** (section) structs. Each document **part** (section) struct has the following attributes: **doc_id**, **score**, **words**, **folder**, **group**, **id**, **name**	document.get

Element	XML-RPC DATA TYPE	DESCRIPTION	API METHODS
doc_id	int	Document part (section) **id**	document.get
max_percent_match	int	The largest source match percentage for the document	document.get
score	int	Document part (section) score	document.get
words	int	Number of words in document part (section)	document.get
uploaded	array	An array of upload structs corresponding to uploads. Each upload struct has the following attributes: **id**, **mime_type**, **filename**, **folder**	document.add
mime_type	string	The MIME type determined for an uploaded document	any that return an **uploaded** struct
is_pending	int	The number of document sections/ parts remaining to be processed by the document processing system after a document is uploaded.	document.get
filename	string	The document filename	any that return an **uploaded** struct

API Method Reference

Login

The login method is used to authenticate a session. A session is initiated by supplying valid authentication credentials (**username** and **password**) to the login method and a session id (sid) is returned that must be included when making additional requests.

Method Name: login

Arguments: **username, password**

Returns**: sid, api_status, response_timestamp**

Errors: Returns errors on unsuccessful login attempts. The error handling is split between the errors field and the messages field. Some possible combinations are:

- If the password is too short, an error will be present in the **errors** element indicating the password was too short, and no informational message will exist in the messages element.

- If the username was not a valid email address, an **errors** element will be presented indicating that fact, and no informational message will exist.

- The existence of errors is usually accompanied by a status code of '500'.

Messages: Unsuccessful login attempts may also return error messages in this messages element. Some possible messages are as follow:

- If the username was of the correct form, but does not exist in the system, the generic message "Sorry, failed to log in." will be returned in the **messages** element. This error message (in the **messages** element, **NOT** the **errors** element) will also be returned if the username was valid and the password was incorrect (note that this will not be the case for an **INVALID** password, one that is too short or does not contain the characters needed for a valid password).

- If the API client has not been authorized to connect with the IP address it is using, the error message (in the **messages** element, NOT the **errors** element) will be "Access denied from 127.0.0.1", with the invalid IP address presented in the message (127.0.0.1 used as an example).

- Multiple messages may be presented, for situations where invalid username/password combinations are submitted, as well as invalid access attempts. However, both errors and messages will not be presented simultaneously (the API client MUST examine all possible combinations of messages and errors, except for messages and errors simultaneously, to determine if an error condition exists). However, as a convenience approach, checking for the existence of the **sid** element is usually sufficient to guarantee a successful login.

- The existence of (error) messages is usually accompanied by an **api_status** element value of '401'.

Example Request:

```
<?xml version="1.0" encoding="UTF-8"?>
<methodCall>
   <methodName>login</methodName>
   <params>
      <param><value><struct>
         <member>
            <name>password</name>
            <value><string>bar</string></value>
         </member>
         <member>
            <name>username</name>
            <value><string>foo@example.com</string></value>
         </member>
      </struct></value></param>
   </params>
</methodCall>
```

Example Response:

```
<struct>
   <member>
      <name>sid</name>
      <value><string>ce22ce7de1963cc838c29869eec81a46fec4d847</string></value>
   </member>
   <member>
      <name>api_status</name>
      <value><int>200</int></value>
   </member>
</struct>
```

Create Folder Group

Use this method to create a folder group.

Method Name: group.add

Arguments: **sid**, **name**

Returns: **sid, api_status, response_timestamp, id**

Errors: None

Messages: Message indicating successful folder creation

Example Request:

```
<?xml version=”1.0” encoding=”UTF-8”?>
<methodCall>
   <methodName>group.add</methodName>
   <params>
      <param><value><struct>
         <member>
            <name>sid</name>
            <value><string>7f5257b23706f66a3484df1078daaddf78f3a435</string></value>
         </member>
         <member>
            <name>name</name>
            <value><string>2627_test_group_314</string></value>
         </member>
      </struct></value></param>
   </params>
</methodCall>
```

Example Response:

```
<struct>
   <member>
      <name>sid</name>
      <value><string>7f5257b23706f66a3484df1078daaddf78f3a435</string></value>
   </member>
   <member>
      <name>messages</name>
      <value><array><data>
         <value><string>Folder Group Created</string></value>
      </data></array></value>
   </member>
   <member>
      <name>api_status</name>
      <value><int>200</int></value>
   </member>
   <member>
      <name>id</name>
      <value><int>119</int></value>
   </member>
</struct>
```

List Folder Groups

Use this method to list all folder groups owned by this user.

Method Name: group.list

Arguments: **sid**

Returns: **sid**, **api_status**, **response_timestamp, groups**

Errors: None

Messages: None

Example Request:

```
<?xml version=”1.0” encoding=”UTF-8”?>
<methodCall>
    <methodName>group.list</methodName>
    <params>
        <param><value><struct>
            <member>
                <name>sid</name>
                <value><string>52d868fce4a8f16db1c69a5918cc1affc4b61b19</string></value>
            </member>
        </struct></value></param>
    </params>
</methodCall>
```

Example Response:

```
<struct>
   <member>
      <name>sid</name>
      <value><string>52d868fce4a8f16db1c69a5918cc1affc4b61b19</string></value>
   </member>
   <member>
      <name>api_status</name>
      <value><int>200</int></value></member>
   <member>
      <name>groups</name>
      <value>
      <array>
         <data>
         <value>
            <struct>
               <member>
                  <name>name</name>
                  <value><string>13073_test_group_947</string></value>
               </member>
               <member>
                  <name>id</name>
                  <value><int>120</int></value>
               </member>
            </struct>
         </value>
         <value>
            <struct>
               <member>
                  <name>name</name>
                  <value><string>2531_test_group_633</string></value>
               </member>
               <member>
                  <name>id</name>
                  <value><int>116</int></value>
               </member>
            </struct>
         </value>
         </data>
      </array>
      </value>
   </member>
</struct>
```

List Folders

Use this method to list all folders owned by this user.

Method Name: folder.list

Arguments: **sid**

Returns: **sid, api_status**, **response_timestamp, folders**, **groups**, **pager**

Errors: None

Messages: None

Example Request:

```
<?xml version=”1.0” encoding=”UTF-8”?>
<methodCall>
    <methodName>folder.list</methodName>
    <params>
        <param><value><struct>
            <member>
                <name>sid</name>
                <value><string>f6ebaf325cfec9f69b5a68f3a77d9d0b57b29b96</string></value>
            </member>
        </struct></value></param>
    </params>
</methodCall>
```

Example Response:

```
<struct>
   <member>
      <name>sid</name>
      <value><string>f6ebaf325cfec9f69b5a68f3a77d9d0b57b29b96</string></value>
   </member>
   <member>
      <name>folders</name>
      <value><array><data>
         <value><struct>
            <member>
            <name>group</name>
            <value><struct>
               <member>
                  <name>name</name>
                  <value><string>2531_test_group_633</string></value>
               </member>
               <member>
                  <name>id</name>
                  <value><int>116</int></value>
               </member>
            </struct></value>
         </member>
            <member>
            <name>name</name>
            <value><string>2531_testfolder_438</string></value>
         </member>
         <member>
            <name>id</name>
            <value><int>259</int></value>
         </member>
        </struct></value>
      </data></array></value>
   </member>
   <member>
      <name>api_status</name>
      <value><int>200</int></value>
   </member>
   <member>
      <name>pager</name>
      <value><struct>
         <member>
            <name>total_entries</name>
            <value><int>1</int></value>
         </member>
         <member>
            <name>current_page</name>
            <value><int>1</int></value>
         </member>
         <member>
            <name>entries_per_page</name>
            <value><int>25</int></value>
         </member>
      </struct></value>
   </member>
</struct>
```

Create Folder

Use this method to create a new folder.

Method Name: folder.add

Arguments: **sid, name, folder_group, description, exclude_quotes, add_to_index, exclude_biblio, exclude_phrases, exclude_small_matches, exclude_abstracts, exclude_methods**

Returns: **sid, api_status, response_timestamp**

Errors: Returns an error message if an invalid folder group is specified

Message: Returns a message on folder creation success, no message on errors

Example Request:

```
<?xml version=”1.0” encoding=”UTF-8”?>
<methodCall>
    <methodName>folder.add</methodName>
    <params><param>
        <value><struct>
            <member>
                <name>sid</name>
                <value><string>f6ebaf325cfec9f69b5a68f3a77d9d0b57b29b96</string></value>
            </member>
            <member>
                <name>folder_group</name>
                <value><int>123</int></value>
            </member>
            <member>
               <name>name</name>
               <value><string>6016_testfolder_773</string></value>
            </member>
            <member>
               <name>description</name>
               <value><string>API client test folder</string></value>
            </member>
            <member>
               <name>exclude_quotes</name>
               <value><boolean>1</boolean></value>
            </member>
        </struct></value>
    </param></params>
</methodCall>
```

Example Response:

```
<struct>
    <member>
        <name>sid</name>
        <value><string>f6ebaf325cfec9f69b5a68f3a77d9d0b57b29b96</string></value>
    </member>
    <member>
        <name>messages</name>
        <value><array><data>
            <value><string>Folder created</string></value>
        </data></array></value>
    </member>
    <member>
        <name>api_status</name>
        <value><int>200</int></value>
    </member>
    <member>
        <name>id</name>
        <value><int>262</int></value>
</member>
</struct>
```

Adjust Folder Settings

Use this method to adjust a folder’s settings.

Method Name: folder.put

Arguments: **sid, id, name, description**, **exclude_quotes**, **add_to_index, exclude_biblio, exclude_phrases, exclude_small_matches, exclude_abstracts, exclude_methods**

Returns: **sid, api_status**, **response_timestamp**

Errors: Returns an error message if an invalid folder group is specified

Message: Returns a message on folder creation success, no message on errors

Example Request:

```
<?xml version=”1.0” encoding=”UTF-8”?>
<methodCall>
    <methodName>folder.put</methodName>
    <params><param>
        <value><struct>
            <member>
                <name>sid</name>
                <value><string>f6ebaf325cfec9f69b5a68f3a77d9d0b57b29b96</string></value>
            </member>
            <member>
                <name>id</name>
                <value><int>262</int></value>
            </member>
            <member>
               <name>name</name>
               <value><string>6016_testfolder_773</string></value>
            </member>
            <member>
               <name>description</name>
               <value><string>API client test folder</string></value>
            </member>
            <member>
               <name>exclude_quotes</name>
               <value><boolean>0</boolean></value>
            </member>
        </struct></value>
    </param></params>
</methodCall>
```

Example Response:

```
<struct>
    <member>
        <name>sid</name>
        <value><string>f6ebaf325cfec9f69b5a68f3a77d9d0b57b29b96</string></value>
    </member>
    <member>
        <name>messages</name>
        <value><array><data>
            <value><string>Folder created</string></value>
        </data></array></value>
    </member>
    <member>
        <name>api_status</name>
        <value><int>200</int></value>
    </member>
    <member>
        <name>id</name>
        <value><int>262</int></value>
</member>
</struct>
```

Share Folder

Set folder sharing.

Method Name: folder.sharing

Arguments: **sid, id, shared_with**

Returns: **sid, api_status***,* **response_timestamp**

Errors: Returns an error message if an errors occurs

Message: Returns a message on folder sharing success

Example Request:

```
<?xml version=”1.0” encoding=”UTF-8”?>
<methodCall>
   <methodName>folder.sharing</methodName>
   <params><param>
      <value><struct>
         <member>
            <name>sid</name>
            <value><string>f6ebaf325cfec9f69b5a68f3a77d9d0b57b29b96</string></value>
         </member>
         <member>
            <name>id</name>
            <value><int>262</int></value>
         </member>
         <member>
            <name>shared_with</name>
            <value><array><data>
               <int>262</int>
               <int>263</int>
            </data></array></value>
         </member>
      </struct></value>
   </param></params>
</methodCall>
```

Example Response:

```
<struct>
   <member>
        <name>sid</name>
        <value><string>f6ebaf325cfec9f69b5a68f3a77d9d0b57b29b96</string></value>
   </member>

   <member>
        <name>api_status</name>
        <value><int>200</int></value>
   </member>

   <member>
        <name>messages</name>
        <value><array><data>
                <value><string>Your sharing preferences have been updated</string></value>
        </data></array></value>
   </member>
</struct>
```

List Group Folders

Use this method to list the folders in a folder group.

Method Name: group.folders

Arguments: **sid***,* **id**

Returns: **sid, api_status, response_timestamp, groups, folders, pager**

Errors: Returns an error message if an invalid folder_group id is specified

Messages: None

Example Request:

```
<?xml version=”1.0” encoding=”UTF-8”?>
<methodCall>
    <methodName>group.folders</methodName>
    <params><param>
        <value><struct>
            <member>
                <name>sid</name>
                <value><string>f6ebaf325cfec9f69b5a68f3a77d9d0b57b29b96</string></value>
            </member>
            <member>
                <name>id</name>
                <value><int>123</int></value>
            </member>
        </struct></value>
    </param></params>
</methodCall>
```

Example Response:

```
<struct>
   <member>
      <name>sid</name>
      <value><string>f6ebaf325cfec9f69b5a68f3a77d9d0b57b29b96</string></value>
   </member>
   <member>
      <name>folders</name>
      <value><array><data>
         <value><struct>
            <member>
               <name>group</name>
               <value><struct>
                  <member>
                     <name>name</name>
                     <value><string>6016_test_group_169</string></value>
                  </member>
                  <member>
                     <name>id</name>
                     <value><int>123</int></value>
                  </member>
               </struct></value>
            </member>
            <member>
               <name>name</name>
               <value><string>6016_testfolder_773</string></value>
            </member>
            <member>
               <name>id</name>
               <value><int>262</int></value>
            </member>
         </struct></value>
      </data></array></value>
   </member>
   <member>
      <name>api_status</name>
      <value><int>200</int></value>
   </member>
   <member>
      <name>pager</name>
      <value><struct>
         <member>
            <name>total_entries</name>
            <value><int>1</int></value>
         </member>
         <member>
            <name>current_page</name>
            <value><int>1</int></value>
         </member>
         <member>
            <name>entries_per_page</name>
            <value><int>25</int></value>
         </member>
      </struct></value>
   </member>
</struct>
```

Get Folder

Use this method call to get a folder and it’s associated objects.

Method Name: folder.get

Arguments: **sid, id**

Returns: **sid**, **api_status**, **response_timestamp**, **folder**, **group**, **documents**, **pager**

Errors: Returns an error message if an invalid folder id is specified

Messages: None

Example Request:

```
<?xml version=”1.0” encoding=”UTF-8”?>
<methodCall>
   <methodName>folder.get</methodName>
   <params><param>
      <value><struct>
         <member>
            <name>sid</name>
            <value><string>f6ebaf325cfec9f69b5a68f3a77d9d0b57b29b96</string></value>
         </member>
         <member>
            <name>id</name>
            <value><int>262</int></value>
         </member>
      </struct></value>
   </param></params>
</methodCall>
```

Example Response:

```
<struct>
   <member>
      <name>sid</name>
      <value><string>f6ebaf325cfec9f69b5a68f3a77d9d0b57b29b96</string></value>
   </member>
   <member>
      <name>documents</name>
      <value><array><data></data></array></value>
   </member>
   <member>
      <name>api_status</name>
      <value><int>200</int></value>
   </member>
   <member>
      <name>pager</name>
      <value><struct>
         <member>
            <name>total_entries</name>
            <value><int>0</int></value>
         </member>
         <member>
            <name>current_page</name>
            <value><int>1</int></value>
         </member>
         <member>
            <name>entries_per_page</name>
            <value><int>25</int></value>
         </member>
      </struct></value>
   </member>
   <member>
      <name>folder</name>
      <value><struct><member>
            <name>group</name>
            <value><struct>
               <member>
                  <name>name</name>
                  <value><string>6016_test_group_169</string></value>
               </member>
               <member>
                  <name>id</name>
                  <value><int>123</int></value>
               </member>
            </struct></value>
         </member>
      <member>
         <name>name</name>
         <value><string>6016_testfolder_773</string></value>
      </member>
      <member>
         <name>id</name>
         <value><int>262</int></value>
      </member></struct></value>
   </member>
</struct>
```

Account Status

Use this method to get the current account status.

Method Name: account.get

Arguments: **sid**

Returns: **sid**, **api_status**, **response_timestamp, account**

Errors: None

Messages: None

Example Request:

```
<?xml version=”1.0” encoding=”UTF-8”?>
<methodCall>
    <methodName>account.get</methodName>
    <params><param>
        <value><struct>
            <member>
                <name>sid</name>
                <value><string>f6ebaf325cfec9f69b5a68f3a77d9d0b57b29b96</string></value>
            </member>
        </struct></value>
    </param></params>
</methodCall>
```

Example Response:

```
<struct>
   <member>
      <name>sid</name>
      <value><string>f6ebaf325cfec9f69b5a68f3a77d9d0b57b29b96</string></value>
   </member>
   <member>
      <name>account</name>
      <value><struct>
         <member>
            <name>words_per_Page</name>
            <value><int>1500</int></value>
         </member>
         <member>
            <name>report_limit</name>
            <value><int>10000</int></value>
         </member>
         <member>
            <name>report_count</name>
            <value><int>1534</int></value>
         </member>
         <member>
            <name>user_limit</name>
            <value><int>10000</int></value>
         </member>
         <member>
            <name>resubmission_limit</name>
            <value><int>10000</int></value>
         </member>
         <member>
            <name>resubmission_count</name>
            <value><int>1050</int></value>
         </member>
         <member>
            <name>valid_until</name>
            <value><string>2009-04-19T00:00:00</string></value>
         </member>
         <member>
            <name>user_count</name>
            <value><int>8</int></value>
         </member>
         <member>
            <name>unit_name</name>
            <value><string>Page</string></value>
         </member>
      </struct></value>
   </member>
   <member>
      <name>api_status</name>
      <value><int>200</int></value>
   </member>
</struct>
```

Add User

Use this method to add a user to the account. Only the administrator user is authorized to use this method.

Method Name: user.add

Arguments: **sid**, **email**, **first_name**, **last_name**,

Optional arguments: **timezone, report_group, can_submit_documents, share_folders, can_index_documents*, is_admin, password** (optional - if no password is specified users will receive an activation email with a temporary password)

***can_index_documents** is an option only for accounts that have a customer repository enabled for the account.

Returns: **sid**, **api_status**, **response_timestamp, id**

Errors: Returns an error message if invalid arguments are passed, detailing which arguments were invalid

Messages**:** Returns a message indicating the user was added. No messages will be present if errors occurred in the transaction

Example Request:

```
<?xml version=”1.0” encoding=”UTF-8”?>
<methodCall>
    <methodName>user.add</methodName>
    <params><param>
        <value><struct>
            <member>
                <name>sid</name>
                <value><string>f6ebaf325cfec9f69b5a68f3a77d9d0b57b29b96</string></value>
            </member>
            <member>
                <name>email</name>
                <value><string>joe@user.com</string></value>
            </member>
            <member>
                <name>password</name>
                <value><string>swizzlestick123</string></value>
            </member>
            <member>
                <name>timezone</name>
                <value><int>126</int></value>
            </member>
            <member>
                <name>last_name</name>
                <value><string>User</string></value>
            </member>
            <member>
                <name>first_name</name>
                <value><string>Joe</string></value>
            </member>
```

```
      </struct></value>
   </param></params>
</methodCall>
```

Example Response:

```
<struct>
   <member>
      <name>sid</name>
      <value><string>f6ebaf325cfec9f69b5a68f3a77d9d0b57b29b96</string></value>
   </member>
   <member>
      <name>messages</name>
      <value><array><data>
         <value><string>Joe User Created</string></value>
      </data></array></value>
   </member>
   <member>
      <name>api_status</name>
      <value><int>200</int></value>
   </member>
   <member>
      <name>id</name>
      <value><int>22</int></value>
   </member>
</struct>
```

List Users

This method lists users in the account. Only the administrator user is authorized to use this method.

Method Name: user.list

Arguments: **sid**

Returns: **sid**, **api_status**, **response_timestamp, users**

Errors: None

Message: None

Example Request:

```
<?xml version=”1.0” encoding=”UTF-8”?>
<methodCall>
    <methodName>user.list</methodName>
    <params><param>
        <value><struct>
            <member>
                <name>sid</name>
                <value><string>f6ebaf325cfec9f69b5a68f3a77d9d0b57b29b96</string></value>
            </member>
        </struct></value>
    </param></params>
</methodCall>
```

See the next page for an example response.

Example Response:

```
<struct>
   <member>
      <name>sid</name>
      <value><string>f6ebaf325cfec9f69b5a68f3a77d9d0b57b29b96</string></value>
   </member>
   <member>
      <name>api_status</name>
      <value><int>200</int></value>
   </member>
   <member>
      <name>users</name>
      <value><array><data>
         <value><struct>
            <member>
               <name>email</name>
               <value><string>api_test_user@test.api.ithenticate.com</string></value>
            </member>
            <member>
               <name>id</name>
               <value><int>17</int></value>
            </member>
            <member>
               <name>last_name</name>
               <value><string>User</string></value>
            </member>
            <member>
               <name>first_name</name>
               <value><string>API Test</string></value>
            </member>
         </struct></value>
         <value><struct>
            <member>
               <name>email</name>
               <value><string>joe@user.com</string></value>
            </member>
            <member>
               <name>id</name>
               <value><int>22</int></value>
            </member>
            <member>
               <name>last_name</name>
               <value><string>User</string></value>
            </member>

            <member>
               <name>first_name</name>
               <value><string>Joe</string></value>
            </member>
         </struct></value>
      </data></array></value>
   </member>
</struct>
```

Submit Document

This method is used to submit a document to a given folder for submission to the document processing system.

Method Name: document.add

Arguments: **sid**, **folder**, **submit_to**, **uploads**

Returns: **sid**, **api_status**, **response_timestamp**, **uploaded**

Errors: Returns an error message if invalid input arguments are passed

Messages: Returns messages indicating successful document submission. No messages will be present if errors occurred

Submission Requirements:

- File must be less than 20 MB
- The maximum document length is 400 pages.
- File Types allowed: MS Word, WordPerfect, PostScript, PDF, HTML, RTF, OpenOffice (ODT) and plain text.

See the next two pages for an example request and an example response.

Example Request:

```
<?xml version=”1.0” encoding=”UTF-8”?>
<methodCall>
  <methodName>document.add</methodName>
  <params><param>
    <value><struct>
      <member>
        <name>sid</name>
        <value><string>f6ebaf325cfec9f69b5a68f3a77d9d0b57b29b96</string></value>
      </member>
      <member>
        <name>uploads</name>
        <value><array><data>
          <value><struct>
            <member>
              <name>filename</name>
              <value><string>/tmp/CVxcXdk3lT.txt</string></value>
            </member>
            <member>
              <name>author_last</name>
              <value><string>Neuman</string></value>
            </member>
            <member>
              <name>upload</name>
              <value><base64>Zm9vIGJhciBiaXo=</base64></value>
            </member>
            <member>
              <name>title</name>
              <value><string>6016 ithenticate test doc 509</string></value>
            </member>
            <member>
              <name>author_first</name>
              <value><string>Alfred</string></value>
            </member>
          </struct></value>
        </data></array></value>
      </member>
      <member>
        <name>submit_to</name>
        <value><int>1</int></value>
      </member>
      <member>
        <name>folder</name>
        <value><int>262</int></value>
      </member>
    </struct></value>
  </param></params>
</methodCall>
```

Example Response:

```
<struct>
   <member>
      <name>sid</name>
      <value><string>5d58f1491c3355c6dfbdeccd76429a6c3a94cdc1</string></value>
   </member>
   <member>
      <name>messages</name>
      <value><array><data>
         <value><string>Uploaded 1 document successfully</string></value>
      </data></array></value>
   </member>
   <member>
      <name>uploaded</name>
      <value><array><data>
         <value><struct>
            <member>
               <name>filename</name>
               <value><string>/tmp/0dxBM2vB3i.txt</string></value>
            </member>
            <member>
               <name>id</name>
               <value><int>2161</int></value>
            </member>
            <member>
               <name>folder</name>
               <value><struct>
                  <member>
                     <name>name</name>
                     <value><string>7497_testfolder_199</string></value>
                  </member>
                  <member>
                     <name>id</name>
                     <value><int>265</int></value>
                  </member>
               </struct></value></member>
            <member>
               <name>mime_type</name>
               <value><string>text/plain</string></value>
            </member>
         </struct></value>
      </data></array></value>
   </member>
   <member>
      <name>api_status</name>
      <value><int>200</int></value>
   </member>
</struct>
```

Get Document Status

This method is used to retrieve status information regarding a document and all its parts.

Method Name: document.get

Arguments: **sid**, **id**

Returns: **sid**, **api_status**, **response_timestamp, id**, **pager**, **documents**, **folder**

Errors: Returns an error message if an invalid document id is passed

Message: None

Example Request:

```
<?xml version=”1.0” encoding=”UTF-8”?>
<methodCall>
   <methodName>document.get</methodName>
   <params><param>
      <value><struct>
         <member>
            <name>sid</name>
            <value><string>5d58f1491c3355c6dfbdeccd76429a6c3a94cdc1</string></value>
         </member>
         <member>
            <name>id</name>
            <value><int>2161</int></value>
         </member>
      </struct></value>
   </param></params>
</methodCall>
```

Example Response: This response contains match data from a document being processed

```
<struct>

   <member>
      <name>sid</name>
      <value><string>5d58f1491c3355c6dfbdeccd76429a6c3a94cdc1</string></value>
   </member>

   <member>
      <name>documents</name>
      <value><array><data><value><struct>

            <member>
               <name>uploaded_time</name>
               <value><dateTime.iso8601>2008-06-05T15:13:11</dateTime.iso8601></value>
            </member>
```

```
<member>
  <name>author_last</name>
  <value><string>Neuman</string></value>
</member>

<member>
  <name>is_pending</name>
  <value><int>1</int></value>
</member>

<member>
  <name>processed_time</name>
  <value><dateTime.iso8601>2008-06-05T15:30:02</dateTime.iso8601></value>
</member>

<member>
  <name>parts</name>
  <value><array><data>
    <value><struct>

      <member>
        <name>doc_id</name>
        <value><int>1210614</int></value>
      </member>


      <member>
        <name>score</name>
        <value><int>40</int></value>
      </member>

      <member>
        <name>max_percent_match</name>
        <value><int>10</int></value>
      </member>

      <member>
        <name>id</name>
        <value><int>1234465</int></value>
      </member>

      <member>
        <name>words</name>
        <value><int>15000</int></value>
      </member>

    </struct></value>
    <value><struct>

      <member>
        <name>doc_id</name>
        <value><int>1210614</int></value>
      </member>

      <member>
        <name>score</name>
        <value><int>100</int></value>
      </member>

      <member>
        <name>id</name>
        <value><int>1234466</int></value>
      </member>
```

```
                  <member>
                     <name>words</name>
                     <value><int>15000</int></value>
                  </member>

               </struct></value>
               <value><struct>

                  <member>
                     <name>doc_id</name>
                     <value><int>1210614</int></value>
                  </member>

                  <member>
                     <name>score</name>
                     <value><int>100</int></value>
                  </member>

                  <member>
                     <name>id</name>
                     <value><int>1234468</int></value>
                  </member>

                  <member>
                     <name>words</name>
                     <value><int>12150</int></value>
                  </member>

               </stuct></value>
            </data></array></value>
         </member>

         <member>
            <name>percent_match</name>
            <value><int>73</int></value>
         </member>


         <member>
            <name>title</name>
            <value><string>fasc0b</string></value>
         </member>

         <member>
            <name>id</name>
            <value><int>2161</int></value>
         </member>

         <member>
            <name>author_first</name>
            <value><string>Alfred</string></value>
         </member>

      </struct></value></data></array></value>
</member>


<member>
   <name>api_status</name>
   <value><int>200</int></value>
</member>

<member>
   <name>pager</name>
   <value><struct>
```

```
      <member>
        <name>total_entries</name>
        <value><int>1</int></value>
      </member>

      <member>
        <name>current_page</name>
        <value><int>1</int></value>
      </member>


      <member>
        <name>entries_per_page</name>
        <value><int>25</int></value>
      </member>

    </struct></value>
  </member>

  <member>
    <name>folder</name>
    <value><struct>

      <member>
        <name>group</name>
        <value><struct>

          <member>
            <name>name</name>
            <value><string>9133_test_group_858</string></value>
          </member>


          <member>
            <name>id</name>
            <value><int>1497</int></value>
          </member>
        </struct></value>
      </member>

      <member>
        <name>name</name>
        <value><string>9133_testfolder_858</string></value>
      </member>

      <member>
        <name>id</name>
        <value><int>46266</int></value>
      </member>

    </struct></value>
  </member>
</struct>
```

Get Similarity Report

This method returns a set of urls to report data for a document section.

Method: report.get

Arguments: **id** (document part/section id), **sid, exclude_biblio, exclude_quotes, exclude_small_matches**

Returns: **sid**, **api_status**, **response_timestamp**, **report_url, view_only_url, view_only_expires, exclude_quotes, exclude_biblio, exclude_small_matches**

Errors: Returns an error if an invalid document id is passed

Message: None

> **Note**: When retrieving the view_only_url for a report you may add a query parameter “report_type” to specify which report viewing mode to open the Similarity Report in. The available report types are: similarity, content, largest, and summary. Here is an example of the view_only url with the addition of a report_type query parameter:
> https://app.ithenticate.com/view_report/0E536A44-9C7F-11E1-B447-E7A05B115896?report_type=content
>
> If the report_type parameter is not used the Similarity Report will open in the default report viewing mode that was set for the account.

Example Request:

```
<?xml version=”1.0” encoding=”UTF-8”?>
<methodCall>
  <methodName>report.get</methodName>
  <params><param>
    <value><struct>
      <member>
        <name>sid</name>
        <value><string>5d58f1491c3355c6dfbdeccd76429a6c3a94cdc1</string></value>
      </member>
      <member>
        <name>id</name>
        <value><int>8896</int></value>
      </member>
      <member>
        <name>exclude_quotes</name>
        <value><boolean>1</boolean></value>
      </member>
      <member>
        <name>exclude_biblio</name>
        <value><boolean>1</boolean></value>
      </member>
      <member>
        <name>exclude_small_matches</name>
        <value><boolean>1</boolean></value>
```

```
            </member>
        </struct></value>
    </param></params>
</methodCall>
```

Example Response:

```
<struct>
    <member>
        <name>sid</name>
        <value><string>432d8b581da65ae89f9683803e750884d022c568</string></value>
    </member>
    <member>
        <name>status</name>
        <value><int>200</int></value>
    </member>
    <member>
        <name>view_only_expires</name>
        <value><dateTime.iso8601>2008-06-27T20:54:24Z</dateTime.iso8601></value>
    </member
    <member>
        <name>response_timestamp_</name>
        <value><dateTime.iso8601>2008-06-27T20:34:24Z</dateTime.iso8601></value>
    </member>
    <member>
        <name>report_url</name>
        <value><string>http://api.ithenticate.com/report/1233814/similarity</string></value>
    </member>
     <member>
        <name>api_status</name>
        <value><int>200</int></value>
    </member>
    <member>
        <name>view_only_url</name>
        <value><string>https://api.ithenticate.com/view_report/6DE5D6A2-4488-11DD</string></value>
     <member>
</struct>
```

Get Similarity Report for first Document Section

This method returns the “report_url” data for the first document section

Method: report.get_document

Arguments: **id** (document part/section id), **sid, exclude_biblio, exclude_quotes, exclude_small_matches**

Returns: **sid**, **api_status**, **response_timestamp**, **report_url, view_only_url, view_only_expires, exclude_quotes, exclude_biblio, exclude_small_matches**

Errors: Returns an error if an invalid document id is passed

Message: None

Example Request:

```
<?xml version=”1.0” encoding=”UTF-8”?>
<methodCall>
   <methodName>report.get_document</methodName>
   <params><param>
      <value><struct>
         <member>
            <name>sid</name>
            <value><string>5d58f1491c3355c6dfbdeccd76429a6c3a94cdc1</string></value>
         </member>

         <member>
            <name>id</name>
            <value><int>8896</int></value>
         </member>

         <member>
            <name>exclude_quotes</name>
            <value><boolean>1</boolean></value>
         </member>

         <member>
            <name>exclude_biblio</name>
            <value><boolean>1</boolean></value>
         </member>

         <member>
            <name>exclude_small_matches</name>
            <value><boolean>1</boolean></value>
         </member>

      </struct></value>
   </param></params>
</methodCall>
```

Example Response:

```
<struct>
   <member>
      <name>sid</name>
      <value><string>432d8b581da65ae89f9683803e750884d022c568</string></value>
   </member>

   <member>
      <name>status</name>
      <value><int>200</int></value>
   </member>

   <member>
      <name>view_only_expires</name>
      <value><dateTime.iso8601>2008-06-27T20:54:24Z</dateTime.iso8601></value>
   </member>

   <member>
      <name>response_timestamp</name>
      <value><dateTime.iso8601>2008-06-27T20:34:24Z</dateTime.iso8601></value>
   </member>

   <member>
      <name>report_url</name>
      <value><string>https://api.ithenticate.com/report/1233814/similarity</string></value>
   </member>

   <member>
      <name>api_status</name>
      <value><int>200</int></value>
   </member>

   <member>
      <name>view_only_url</name>
      <value><string>https://api.ithenticate.com/view_report/6DE5D6A2-4488-11DD</string></value>
   </member>
</struct>
```

Drop User

A method call to drop a user from the account. Only the administrator user is authorized to use this method.

Method Name: user.drop

Arguments: **sid, id**

Returns: **sid, api_status**, **response_timestamp**

Errors: Returns an error if an invalid user id was passed

Message: Returns a message indicating the user was deleted. No message will be returned if errors occurred

Example Request:

```
<?xml version="1.0" encoding="UTF-8"?>
<methodCall>
   <methodName>user.drop</methodName>
   <params><param>
      <value><struct>
         <member>
            <name>sid</name>
            <value><string>5d58f1491c3355c6dfbdeccd76429a6c3a94cdc1</string></value>
         </member>
         <member>
            <name>id</name>
            <value><int>23</int></value>
         </member>
      </struct></value>
   </param></params>
</methodCall>
```

Example Response:

```
<struct>
   <member>
      <name>sid</name>
      <value><string>5d58f1491c3355c6dfbdeccd76429a6c3a94cdc1</string></value>
   </member>
   <member>
      <name>messages</name>
      <value><array><data>
         <value><string>User Joe User Deleted</string></value>
      </data></array></value>
   </member>
   <member>
      <name>api_status</name>
      <value><int>200</int></value>
   </member>
</struct>
```

Trash a Document

This method moves a document to the trash folder.

Method: document.trash

Arguments: **sid, id**

Returns: **sid, api_status**, **response_timestamp**

Errors**:** Returns an error if an invalid document id was passed

Message: Returns a message indicating the document was trashed. No message will be present if errors occurred

Example Request:

```
<?xml version=”1.0” encoding=”UTF-8”?>
<methodCall>
   <methodName>document.trash</methodName>
   <params><param>
      <value><struct>
         <member>
            <name>sid</name>
            <value><string>5d58f1491c3355c6dfbdeccd76429a6c3a94cdc1</string></value>
         </member>
         <member>
            <name>id</name>
            <value><int>2161</int></value>
         </member>
      </struct></value>
   </param></params>
</methodCall>
```

Example Response:

```
<struct>
   <member>
      <name>sid</name>
      <value><string>5d58f1491c3355c6dfbdeccd76429a6c3a94cdc1</string></value>
   </member>
   <member>
      <name>messages</name>
      <value><array><data>
         <value><string>Document moved to trash</string></value>
      </data></array></value>
   </member>
   <member>
      <name>api_status</name>
      <value><int>200</int></value>
   </member>
</struct>
```

Trash a Folder

This method moves a folder to the trash folder group. The folder must be empty of documents.

Method: folder.trash

Arguments: **sid, id**

Returns: **sid, api_status**, **response_timestamp**

Errors: An error will be returned if the folder is not empty

Message: Returns a message indicating the group was deleted.

Example Request:

```
<?xml version="1.0" encoding="UTF-8"?>
<methodCall>
   <methodName>folder.trash</methodName>
   <params><param>
      <value><struct>
         <member>
            <name>sid</name>
            <value><string>5d58f1491c3355c6dfbdeccd76429a6c3a94cdc1</string></value>
         </member>
         <member>
            <name>id</name>
            <value><int>265</int></value>
         </member>
      </struct></value>
   </param></params>
</methodCall>
```

Example Response:

```
<struct>
   <member>
      <name>sid</name>
      <value><string>5d58f1491c3355c6dfbdeccd76429a6c3a94cdc1</string></value>
   </member>
   <member>
      <name>messages</name>
      <value><array><data>
         <value><string>Folder "7497_testfolder_199" Moved to Trash</string></value>
      </data></array></value>
   </member>
   <member>
      <name>api_status</name>
      <value><int>200</int></value>
   </member>
</struct>
```

Delete a Folder Group

This method deletes a folder group. The group must be empty of folders to be deleted.

Method: group.drop

Arguments: **sid, id**

Returns: **sid, api_status, response_timestamp**

Errors: An error will be returned if the folder is not empty

Message: Returns a message indicating the group was deleted

Example Request:

```
<?xml version=”1.0” encoding=”UTF-8”?>
<methodCall>
   <methodName>group.drop</methodName>
   <params><param>
      <value><struct>
         <member>
            <name>sid</name>
            <value><string>5d58f1491c3355c6dfbdeccd76429a6c3a94cdc1</string></value>
         </member>
         <member>
            <name>id</name>
            <value><int>126</int></value>
         </member>
      </struct></value>
   </param></params>
</methodCall>
```

Example Response:

```
<struct>
   <member>
      <name>sid</name>
      <value><string>5d58f1491c3355c6dfbdeccd76429a6c3a94cdc1</string></value>
   </member>
   <member>
      <name>messages</name>
      <value><array><data>
         <value><string>Group “7497_test_group_794” removed</string></value>
      </data></array></value>
   </member>
   <member>
      <name>api_status</name>
      <value><int>200</int></value>
   </member>
</struct>
```

Remove Documents from Private Node

This method removes document/s from the private node. This method only applies to accounts that have purchased the private node.

Method: document.remove_from_index

Arguments: **sid, id**

Returns: **sid, api_status**, **response_timestamp**

Errors**:** Returns an error if an invalid document id was passed

Message: Returns a message indicating the document was removed from the private node. No message will be present if errors occurred

Example Request:

```
<?xml version="1.0" encoding="UTF-8"?>
<methodCall>
   <methodName>document.remove_from_index</methodName>
   <params><param>
      <value><struct>
         <member>
            <name>sid</name>
            <value><string>5d58f1491c3355c6dfbdeccd76429a6c3a94cdc1</string></value>
         </member>
         <member>
            <name>id</name>
            <value><int>126</int></value>
         </member>
      </struct></value>
   </param></params>
</methodCall>
```

Example Response:

```
<struct>
   <member>
      <name>sid</name>
      <value><string>5d58f1491c3355c6dfbdeccd76429a6c3a94cdc1</string></value>
   </member>
   <member>
      <name>messages</name>
      <value><array><data>
         <value><string>Document queued for removal from your index</string></value>
      </data></array></value>
   </member>
   <member>
      <name>api_status</name>
      <value><int>200</int></value>
   </member>
</struct>
```

Appendixes

Appendix A - Timezones

ID	Timezone
1	Europe/Andorra
2	Asia/Dubai
3	Asia/Kabul
4	America/Antigua
5	America/Anguilla
6	Europe/Tirane
7	Asia/Yerevan
8	America/Curacao
9	Africa/Luanda
10	Antarctica/McMurdo
11	Antarctica/South_Pole
12	Antarctica/Rothera
13	Antarctica/Palmer
14	Antarctica/Mawson
15	Antarctica/Davis
16	Antarctica/Casey
17	Antarctica/Vostok
18	Antarctica/DumontDUrville
19	Antarctica/Syowa
20	America/Argentina/Buenos_Aires
21	America/Argentina/Cordoba
22	America/Argentina/Jujuy
23	America/Argentina/Tucuman
24	America/Argentina/Catamarca
25	America/Argentina/La_Rioja
26	America/Argentina/San_Juan
27	America/Argentina/Mendoza
28	America/Argentina/Rio_Gallegos
29	America/Argentina/Ushuaia
30	Pacific/Pago_Pago
31	Europe/Vienna
32	Australia/Lord_Howe
33	Australia/Hobart
34	Australia/Currie
35	Australia/Melbourne
36	Australia/Sydney
37	Australia/Broken_Hill
38	Australia/Brisbane
39	Australia/Lindeman
40	Australia/Adelaide
41	Australia/Darwin
42	Australia/Perth
43	Australia/Eucla
44	America/Aruba
45	Europe/Mariehamn
46	Asia/Baku
47	Europe/Sarajevo
48	America/Barbados
49	Asia/Dhaka
50	Europe/Brussels
51	Africa/Ouagadougou
52	Europe/Sofia
53	Asia/Bahrain
54	Africa/Bujumbura
55	Africa/Porto-Novo
56	America/St_Barthelemy
57	Atlantic/Bermuda
58	Asia/Brunei
59	America/La_Paz
60	America/Noronha
61	America/Belem
62	America/Fortaleza
63	America/Recife
64	America/Araguaina
65	America/Maceio
66	America/Bahia
67	America/Sao_Paulo
68	America/Campo_Grande
69	America/Cuiaba
70	America/Porto_Velho
71	America/Boa_Vista
72	America/Manaus
73	America/Eirunepe
74	America/Rio_Branco
75	America/Nassau
76	Asia/Thimphu
77	Africa/Gaborone
78	Europe/Minsk
79	America/Belize
80	America/St_Johns
81	America/Halifax
82	America/Glace_Bay
83	America/Moncton
84	America/Goose_Bay
85	America/Blanc-Sablon
86	America/Montreal
87	America/Toronto
88	America/Nipigon
89	America/Thunder_Bay
90	America/Iqaluit
91	America/Pangnirtung
92	America/Resolute
93	America/Atikokan
94	America/Rankin_Inlet
95	America/Winnipeg

96	America/Rainy_River
97	America/Regina
98	America/Swift_Current
99	America/Edmonton
100	America/Cambridge_Bay
101	America/Yellowknife
102	America/Inuvik
103	America/Dawson_Creek
104	America/Vancouver
105	America/Whitehorse
106	America/Dawson
107	Indian/Cocos
108	Africa/Kinshasa
109	Africa/Lubumbashi
110	Africa/Bangui
111	Africa/Brazzaville
112	Europe/Zurich
113	Africa/Abidjan
114	Pacific/Rarotonga
115	America/Santiago
116	Pacific/Easter
117	Africa/Douala
118	Asia/Shanghai
119	Asia/Harbin
120	Asia/Chongqing
121	Asia/Urumqi
122	Asia/Kashgar
123	America/Bogota
124	America/Costa_Rica
125	America/Havana
126	Atlantic/Cape_Verde
127	Indian/Christmas
128	Asia/Nicosia
129	Europe/Prague
130	Europe/Berlin
131	Africa/Djibouti
132	Europe/Copenhagen
133	America/Dominica
134	America/Santo_Domingo
135	Africa/Algiers
136	America/Guayaquil
137	Pacific/Galapagos
138	Europe/Tallinn
139	Africa/Cairo
140	Africa/El_Aaiun
141	Africa/Asmara
142	Europe/Madrid
143	Africa/Ceuta
144	Atlantic/Canary
145	Africa/Addis_Ababa
146	Europe/Helsinki
147	Pacific/Fiji
148	Atlantic/Stanley
149	Pacific/Truk
150	Pacific/Ponape
151	Pacific/Kosrae
152	Atlantic/Faroe
153	Europe/Paris
154	Africa/Libreville
155	Europe/London
156	America/Grenada
157	Asia/Tbilisi
158	America/Cayenne
159	Europe/Guernsey
160	Africa/Accra
161	Europe/Gibraltar
162	America/Godthab
163	America/Danmarkshavn
164	America/Scoresbysund
165	America/Thule
166	Africa/Banjul
167	Africa/Conakry
168	America/Guadeloupe
169	Africa/Malabo
170	Europe/Athens
171	Atlantic/South_Georgia
172	America/Guatemala
173	Pacific/Guam
174	Africa/Bissau
175	America/Guyana
176	Asia/Hong_Kong
177	America/Tegucigalpa
178	Europe/Zagreb
179	America/Port-au-Prince
180	Europe/Budapest
181	Asia/Jakarta
182	Asia/Pontianak
183	Asia/Makassar
184	Asia/Jayapura
185	Europe/Dublin
186	Asia/Jerusalem
187	Europe/Isle_of_Man
188	Asia/Calcutta
189	Indian/Chagos
190	Asia/Baghdad
191	Asia/Tehran
192	Atlantic/Reykjavik
193	Europe/Rome
194	Europe/Jersey
195	America/Jamaica
196	Asia/Amman
197	Asia/Tokyo

198	Africa/Nairobi
199	Asia/Bishkek
200	Asia/Phnom_Penh
201	Pacific/Tarawa
202	Pacific/Enderbury
203	Pacific/Kiritimati
204	Indian/Comoro
205	America/St_Kitts
206	Asia/Pyongyang
207	Asia/Seoul
208	Asia/Kuwait
209	America/Cayman
210	Asia/Almaty
211	Asia/Qyzylorda
212	Asia/Aqtobe
213	Asia/Aqtau
214	Asia/Oral
215	Asia/Vientiane
216	Asia/Beirut
217	America/St_Lucia
218	Europe/Vaduz
219	Asia/Colombo
220	Africa/Monrovia
221	Africa/Maseru
222	Europe/Vilnius
223	Europe/Luxembourg
224	Europe/Riga
225	Africa/Tripoli
226	Africa/Casablanca
227	Europe/Monaco
228	Europe/Chisinau
229	Europe/Podgorica
230	America/Marigot
231	Indian/Antananarivo
232	Pacific/Majuro
233	Pacific/Kwajalein
234	Europe/Skopje
235	Africa/Bamako
236	Asia/Rangoon
237	Asia/Ulaanbaatar
238	Asia/Hovd
239	Asia/Choibalsan
240	Asia/Macau
241	Pacific/Saipan
242	America/Martinique
243	Africa/Nouakchott
244	America/Montserrat
245	Europe/Malta
246	Indian/Mauritius
247	Indian/Maldives
248	Africa/Blantyre
249	America/Mexico_City
250	America/Cancun
251	America/Merida
252	America/Monterrey
253	America/Mazatlan
254	America/Chihuahua
255	America/Hermosillo
256	America/Tijuana
257	Asia/Kuala_Lumpur
258	Asia/Kuching
259	Africa/Maputo
260	Africa/Windhoek
261	Pacific/Noumea
262	Africa/Niamey
263	Pacific/Norfolk
264	Africa/Lagos
265	America/Managua
266	Europe/Amsterdam
267	Europe/Oslo
268	Asia/Katmandu
269	Pacific/Nauru
270	Pacific/Niue
271	Pacific/Auckland
272	Pacific/Chatham
273	Asia/Muscat
274	America/Panama
275	America/Lima
276	Pacific/Tahiti
277	Pacific/Marquesas
278	Pacific/Gambier
279	Pacific/Port_Moresby
280	Asia/Manila
281	Asia/Karachi
282	Europe/Warsaw
283	America/Miquelon
284	Pacific/Pitcairn
285	America/Puerto_Rico
286	Asia/Gaza
287	Europe/Lisbon
288	Atlantic/Madeira
289	Atlantic/Azores
290	Pacific/Palau
291	America/Asuncion
292	Asia/Qatar
293	Indian/Reunion
294	Europe/Bucharest
295	Europe/Belgrade
296	Europe/Kaliningrad
297	Europe/Moscow
298	Europe/Volgograd
299	Europe/Samara

300	Asia/Yekaterinburg
301	Asia/Omsk
302	Asia/Novosibirsk
303	Asia/Krasnoyarsk
304	Asia/Irkutsk
305	Asia/Yakutsk
306	Asia/Vladivostok
307	Asia/Sakhalin
308	Asia/Magadan
309	Asia/Kamchatka
310	Asia/Anadyr
311	Africa/Kigali
312	Asia/Riyadh
313	Pacific/Guadalcanal
314	Indian/Mahe
315	Africa/Khartoum
316	Europe/Stockholm
317	Asia/Singapore
318	Atlantic/St_Helena
319	Europe/Ljubljana
320	Arctic/Longyearbyen
321	Europe/Bratislava
322	Africa/Freetown
323	Europe/San_Marino
324	Africa/Dakar
325	Africa/Mogadishu
326	America/Paramaribo
327	Africa/Sao_Tome
328	America/El_Salvador
329	Asia/Damascus
330	Africa/Mbabane
331	America/Grand_Turk
332	Africa/Ndjamena
333	Indian/Kerguelen
334	Africa/Lome
335	Asia/Bangkok
336	Asia/Dushanbe
337	Pacific/Fakaofo
338	Asia/Dili
339	Asia/Ashgabat
340	Africa/Tunis
341	Pacific/Tongatapu
342	Europe/Istanbul
343	America/Port_of_Spain
344	Pacific/Funafuti
345	Asia/Taipei
346	Africa/Dar_es_Salaam
347	Europe/Kiev
348	Europe/Uzhgorod
349	Europe/Zaporozhye
350	Europe/Simferopol
351	Africa/Kampala
352	Pacific/Johnston
353	Pacific/Midway
354	Pacific/Wake
355	America/New_York
356	America/Detroit
357	America/Kentucky/Louisville
358	America/Kentucky/Monticello
359	America/Indiana/Indianapolis
360	America/Indiana/Vincennes
361	America/Indiana/Knox
362	America/Indiana/Winamac
363	America/Indiana/Marengo
364	America/Indiana/Vevay
365	America/Chicago
366	America/Indiana/Tell_City
367	America/Indiana/Petersburg
368	America/Menominee
369	America/North_Dakota/Center
370	America/North_Dakota/New_Salem
371	America/Denver
372	America/Boise
373	America/Shiprock
374	America/Phoenix
375	America/Los_Angeles
376	America/Anchorage
377	America/Juneau
378	America/Yakutat
379	America/Nome
380	America/Adak
381	Pacific/Honolulu
382	America/Montevideo
383	Asia/Samarkand
384	Asia/Tashkent
385	Europe/Vatican
386	America/St_Vincent
387	America/Caracas
388	America/Tortola
389	America/St_Thomas
390	Asia/Saigon
391	Pacific/Efate
392	Pacific/Wallis
393	Pacific/Apia
394	Asia/Aden
395	Indian/Mayotte
396	Africa/Johannesburg
397	Africa/Lusaka
398	Africa/Harare

Appendix B - PHP Development Notes

SSL

All connections to the iThenticate web service must be made using SSL. The recommended base module is IXR_Library.inc.php version 1.7.1 (beta). It provides an SSL client implementation in the IXR_ClientSSL constructor.

Curl Options

On some implementations, notably Windows running Apache with mod_php, curl calls may return false. The CURLOPT_CAINFO curl option must be set to the location of the curl certificate bundle file, example ‘C:\windows\system32\ca-bundle.crt’. It may be necessary to install a standalone curl package, as the php implementation does not always provide the certificate bundle.

It is not recommended to set the curl option CURLOPT_SSL_VERIFYPEER to 0. This disables peer SSL certificate verification, and makes your connection susceptible to interception via a man in the middle attack. Although many web resources give this as an example of how to overcome connection issues with PHP and curl, we strongly advise against disabling peer certificate verification.

Appendix C - Perl Development Notes

Perl Client Libraries

The perl module WebService::iThenticate can be found on the Comprehensive Perl Archive Network (CPAN).

http://search.cpan.org/dist/WebService-iThenticate

This library contains all the necessary examples and methods to develop in Perl using the iThenticate API.

Appendix D - Manual Changes

October 3, 2013

- Added new method (folder.put) for updating a folder's settings after folder creation

- Added new exclusion parameters (exclude_abstract and exclude_methods) for the folder.add, folder.put, and report.get methods

November 7, 2012

- Added new method (document.remove_from_index) for removing a document from the private node for an account

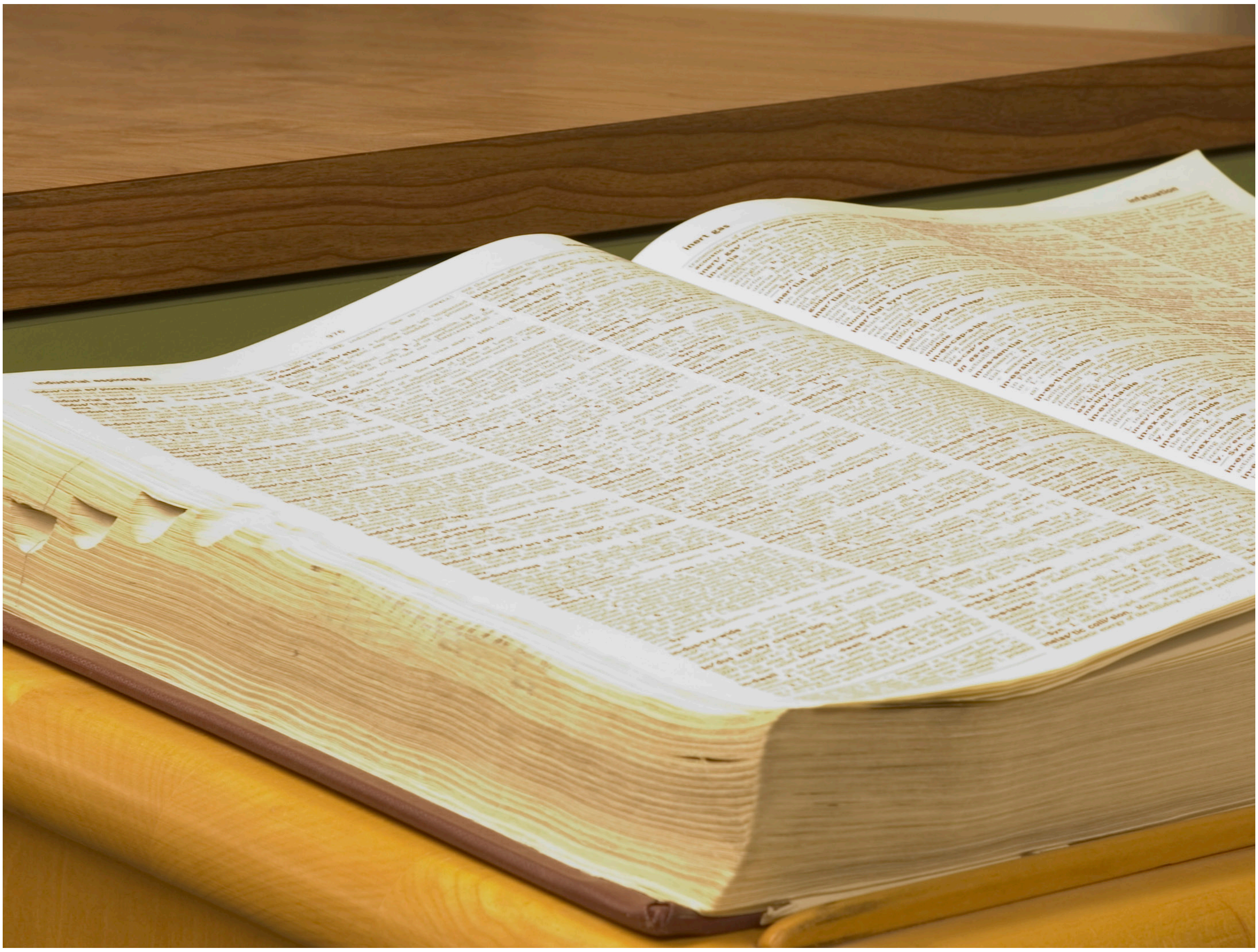
September 14, 2011

- Add exclude_biblio and exclude_small_matches to folder.add and report.get

- Add callback_url to document.add

- Add folder.sharing method

- Add report.get_document method



Glossary

Definitions

account - is a class name that represents the iThenticate account. This class name has the following read only attributes: *report_count*, *report_limit*, *resubmission_count*, *resubmission_limit*, *unit_name*, *user_name*, *user_count*, *user_limit*, *valid_until*, *words_per_page*

account administrator - an account administrator (referred to as the account admin) has access to the manage users tab on the iThenticate homepage

add - this function adds a new object. The available classes this function can be used with are: *group, folder, document, user*. An example API method name is folder.add

API method variables:

author_first - A string value representing the document author's first name

author_last - A string value representing the document author's last name

description - A string value representing the users comments about a folder

email - A string value representing the associated email address

exclude_quotes - A boolean value determining whether quoted material is excluded from Similarity Reports

filename - A string value representing an optional file source reference for the document

first_name - A string value representing the associated user first name

folder - An integer value representing the associated folder id

id - An integer value unique to the group, read only

last_name - A string value representing the associated user last name

name - A string value representing the name of the associated folder or group

report_count - Integer value representing the number of reports generated

report_limit - Integer value representing the allowed number of reports

resubmission_count - Integer value representing the number of current resubmissions

resubmission_limit - Integer value representing the number of allowed resubmissions

title - A string value representing the document title

unit_name - String value, set to Page

upload - A base64 encoded value containing the word content of the document

user_count - Integer value, number of registered users

user_limit - Integer value, number of allowed users

url - A string value representing the url where the report may be accessed

valid_until - Date Time value, expiration date for account

words_per_Page - Integer value, number of words per page

class - the general format for method invocation (excluding login) is of the form class.method. There are six available classes: *account, document, folder, group, report,* and *user*

document - this class name represents a document containing words. This class has the following attributes: *id, title, author_first, author_last, filename, upload, folder*

drop - is a function name that deletes an object. This function can be used with the *user* and *group* classes. An example API method name is user.drop

folder - this class name represents a folder, a container of documents. This class has the following attributes: *id, folder_group, name, description, exclude_quotes*

function - function names are added to a class using the period '.' operator to create a string which represents the API method name. The list of standard function names are the following: *add, drop, get, list,* and *trash*

group - this class represents a folder group, a container for folder. Groups have the following attributes: *id, name*

get - is a function name that gets an object. The available classes this method can be used with are: *group, folder, document, account, user, report.* An example API method name is folder.get

list - is a function name that returns a list of the objects for a specific user. The available classes this method can be used with are: *group, folder, and user*. An example API method name would look like this: group.list

method - each class may be combined with one of several standard method (function) names using the period '.' operator to create a string which represents the API method name. The general format for a method name is: *class.method*

report - represents an iThenticate Similarity Report. The report class name has the following read only attribute: *url*

trash - is a function name that moves an object to the trash. The available classes this function can be used with are: *document* and *folder*. An example API method name is document.trash

user - represents an iThenticate user. The user class name contains the following attributes: *id, email, first_name, last_name*