



Web Services Guide: Brainier Elan REST API V2



Revisions

Revision	Revision Date	Reason for Revision / Change Request	Revised By
1.0	3/23/2018	Originating V2 Version.	Dan Nedrud
1.1	5/7/2018	Added "Upload User Avatar" method.	Dan Nedrud
1.2	6/27/2018	Added "object_id" param to get all records method and pass back virtual meeting field in get schedules method.	Dan Nedrud
1.3	6/28/2018	Added more params to get all records method.	Dan Nedrud
1.4	8/2/2018	Added pagination parameters to a number of GET methods.	Dan Nedrud
1.5	8/2/2018	Reworked some of the authentication instructions for clarity. No changes to actual authentication protocol.	Dan Nedrud
1.6	8/9/2018	Added Get Assignments by User API method.	Dan Nedrud
1.7	12/12/2018	Added additional parameters to get multiple users/objects methods.	Ben Hansen
1.8	12/12/2018	Added methods for bookmarks and object authors.	Dan Nedrud
1.9	1/18/2019	Added method to unregister from a class.	Dan Nedrud
2.0	4/29/2019	Added file and comment upload functionality to record methods.	Dan Nedrud
2.1	11/19/2019	Added due_date to get assignments method.	Dan Nedrud
2.2	12/10/2019	Added "access" parameter to upload file method.	Dan Nedrud
2.3	4/2/2020	Formatting and Language.	Mike Begin

2.4	7/28/2020	Added methods to remove user/group/object from an assignment batch.	Dan Nedrud
2.5	8/13/2020	Added sample aux fields in Get Class Schedules Info return example.	Dan Nedrud
2.6	11/12/2020	Added expires_on arguments to Create User & Update User API methods. Added new API method for Get Learning Object Comments.	Ben Hansen
2.7	8/26/2021	Added Object Access API methods.	Dan Nedrud
2.8	9/16/2021	Added object_search_terms to get learning object methods.	Dan Nedrud
2.9	1/27/2022	Added new OAuth 2.0 Authorization option.	Ben Hansen
3.0	3/10/2022	Added additional fields to documentation that are being returned from record, user, and object GET methods	Dan Nedrud
3.1	11/7/2022	Added Role API methods.	Zak Nilsen
3.2	2/17/2023	Added group_code param to getGroups API method	Dan Nedrud
3.3	4/5/2023	Added logged_greater_than and logged_less_than params to Get User Object Records API method	Dan Nedrud

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Introduction

The Brainier LMS is an award-winning learning management system from Brainier that provides a high level of flexibility and customization. The Brainier LMS front end is powered by Brainier's proprietary Elan REST API and Elan Database Engine.

This document describes how to use the Elan REST API and is intended for developers who are familiar with software development and RESTful Web Services.

An up-to-date copy of this Elan REST API V2 documentation can always be downloaded here:

<https://www.brainier.com/support/ElanAPI2.zip>

Brainier's Elan REST API

With the Elan REST API add-on product, clients can leverage their Brainier LMS data for solving business application and integration needs. Your developers can create web services to programmatically push and pull data through the Brainier database in real-time, including: User data, Group data, Learning Object data, Assignment data, and Completion data. There is also support for performing basic tasks such as adding and updating Users and Groups in Brainier, and Completion records.

Brainier requires TLS 1.2 for all connections to the API.

The Elan REST API provides multiple methods for authenticating API requests. The methods provided are as follows:

HMAC: A secure and robust method of encryption that ensures your application is protected from unwanted access.

OAuth 2.0: An industry-standard protocol for authorization. OAuth 2.0 focuses on client developer simplicity while providing specific authorization flows for application integration.

DevCenter Web Portal

A web-based version of this documentation with additional full code examples for different programming languages is available at our Brainier DevCenter Portal here:

<https://devcenter.brainier.com> (Contact support@brainier.com for DevCenter credentials.)

NOTE: A technical walkthrough of constructing the specific authentication for each API call is here:

<https://devcenter.brainier.com/elan-api/authentication/> (You will also find FULL source code examples for working authentication in a couple different programming languages, to help get you started.)

Support

For developer support, email support@brainier.com. Please make sure to include the full details of the API call you're having trouble with, including your full Headers, the Endpoint you're trying to hit, and the Response.

Brainier recommends using a free **Postman** account (<https://www.postman.com/postman-account/>) to test your Elan REST API Authentication, and simply share your Postman workspace if you need support.

Overview

This document describes the methods of the service, parameters, and response examples.

The following information describes the service requirements.

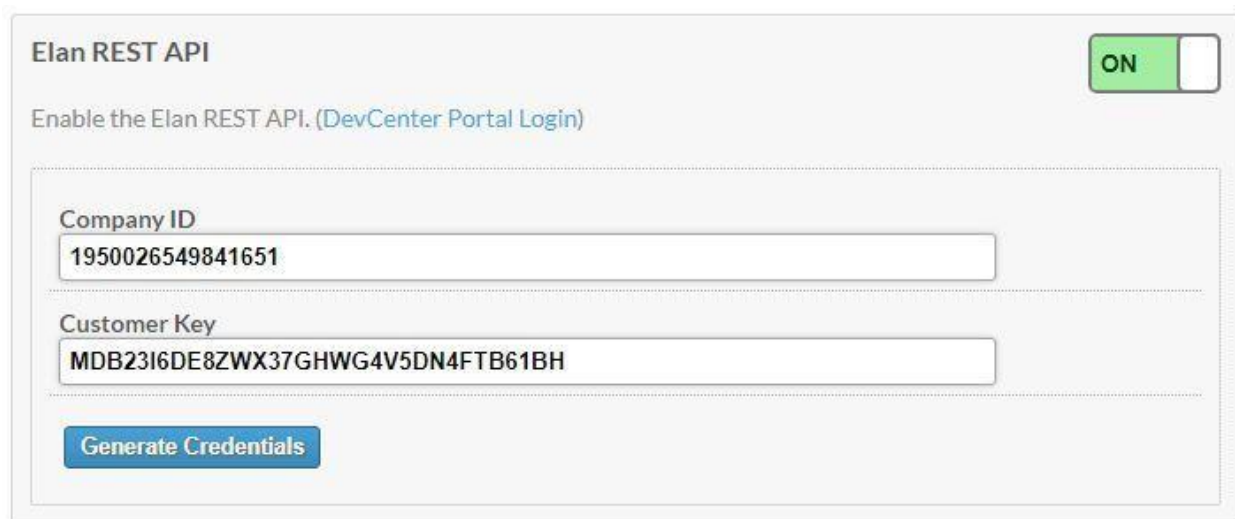
Service Specifications	
Protocol	Representational State Transfer (REST)
SSL Support	TLS 1.2 Required

Signup and Licensing	
Signup Requirements	Web Services Customer Key and Company ID
Account Required	Brainier LMS Web User or Brainier LMS Admin with API keys

Option 1 - HMAC Authentication:

PREREQUISITES

Before you begin, you will need to log in to your Brainier LMS site and obtain your API Credentials. Your Company ID and Customer Key are located under: Admin > Settings > Options > Integrations > "Elan REST API" and will be used to authenticate your API requests. The credentials can be generated or refreshed by pressing the "Generate Credentials" button. Below is an example:



Elan REST API ON

Enable the Elan REST API. ([DevCenter Portal Login](#))

Company ID
1950026549841651

Customer Key
MDB23I6DE8ZWX37GHWG4V5DN4FTB61BH

[Generate Credentials](#)

OVERVIEW

All calls made to the Brainier Elan REST API must include an authentication header to prevent unauthorized data access. This header contains information relating to where the call is coming from as well as an encrypted digest. The digest is constructed using the HMAC-SHA256 algorithm. A date header and client IP address header are also necessary to provide an additional layer of security.

Below is an example of a call made to the Brainier Elan REST API.

```
GET https://customer.brainier.com/rest/brainier/user/5 HTTP/1.1

Host: customer.brainier.com

Authentication: hmac johndoe:[MWM3MmM1YWM4YTJhYTRhNzM0NTVlNGJjNTczOW
UwM2EzMzgyNGQzYWlyOWI4MDAzZGZlMjh1YzmxOTRiOGYyYg==] 1950026549841651
```

Elan-Date: 1970-01-31 14:00:00

API-Client-IP: 123.45.678.90

(Replace customer.brainier.com with your Brainier LMS subdomain.)

See below for descriptions of these three required headers.

Header	Description
Authentication	This is the string that will be used to authenticate your API requests. See the next section for details on how to construct this string.
Elan-Date	This must be the current date and time in UTC that the call is being made. It must be in the "YYYY-MM-DD HH:mm:ss" format and UTC.
API-Client-IP	This contains the IP address of the end user who is making the call to the application integrating with Brainier. It allows us to determine where the API traffic originates.

BUILDING THE AUTHENTICATION HEADER

Authentication: <protocol> <username>:[<digest>] <companyId>

This is the format of the Authentication header. See below for descriptions of each variable.

Variable	Description
protocol	This specifies the authentication protocol, "hmac".
username	This is the Brainier LMS username of the person making the API call. It serves as a unique identifier that is used to determine the user's access rights.
digest	This alphanumeric string is the secure digest created via the HMAC-SHA256 algorithm. See the next section for details on how to create the digest.

Variable	Description
companyid	This is the "company id" and it identifies the company making the call. It is generated in the admin section of the Brainier LMS along with the "customer key".

CREATING THE SECURE DIGEST

To create the digest you must start by creating a string with the following format. See below for descriptions of each variable.

```
<method>+<path>+<datetime>+<username>
```

Variable	Description
method	This is the HTTP method being used for the API call, such as GET, PUT, or POST.
path	This is the REST path being used for the API call. Do not include any query parameters in this string, only path parameters. Make sure to not include a trailing slash at the end of the path.
datetime	The same UTC datetime value from the "Elan-Date" header (minus the spaces and dashes).
username	This is the Brainier LMS username of the person making the API call. It serves as a unique identifier that is used to determine the user's access rights.

Below is an example of how the string should look once all variables have been filled out:

```
GET+/rest/brainier/user/5+1970013114:00:00+johndoe
```

Once you have this string you must hash it via the HMAC-SHA256 algorithm using your API Customer Key, making sure the output is in uppercase hexadecimal format, then base64 encode the result.

```
base64encode(hmac("sha256", "customer key",  
"GET+/rest/brainier/user/5+1970013114:00:00+johndoe"))
```

Option 2 - OAuth 2.0 Authorization:

CREATE AN API CLIENT

In order to use OAuth 2.0 to authenticate with the Elan REST API, you must first create an API Client by logging in to your Brainier LMS site and navigating to: Admin > Settings > Options > Integrations > "Elan REST API" > and clicking on "Manage API Clients." From this screen, you can click on the Add button in the top right and fill out the following fields:

- Client Name – Enter a name for this API Client.
- Token Duration (minutes) – The amount of time in minutes an access token is valid for until it expires, and a new token must be obtained. The maximum value for this field is 1440 (24 hours).
- Scopes – The groups of API methods this client is allowed access to.

Once the above fields have been filled out, hit Save to finish. At this point your API Client has been created, and two new fields are shown

- Client ID – A unique identifier for this API Client.
- Client Secret – A secret value that when combined with the Client ID permits the issuance of access tokens. This value should be kept in a secure location and never exposed to front end code.

Edit Client

Client ID

5da6341d5a70357c8900487461ae0ced9860a830

Client Secret

ShowCopy

Client Name

Users / Groups - DEV

Token Duration (minutes)

60

Scopes

☐ Assignments

☐ Authors

☐ Bookmarks

☐ Forms

☒ Groups

☐ Learning Objects

☐ Tags

☐ User Object Records

☒ Users

Edit

GENERATING AN ACCESS TOKEN

You can generate an access token by submitting a POST request to the /oauth/token endpoint using the credentials associated with your API client. Credentials should be included in the body of the POST request.

USING AN ACCESS TOKEN

You can make requests to the Elan REST API by sending the `access_token` in the Authorization header. For example:

```
GET https://<subdomain>.brainier.com/rest/brainier/user/1
```

```
Authorization: Bearer <access_token>
```

```
API-Client-IP: 123.45.678.90
```

Elan REST API Methods:

- Request Headers
 - Content-Type: application/json
 - "Authentication": "protocol username:[digest] companyId"
 - See above for instructions on how to construct
 - "Elan-Date": "2016-03-28 14:59:24"
 - Datetime must be UTC
 - "API-Client-IP": "123.45.678.90"
- Response Headers
 - Content-Type: application/json
- Success Response HTTP Code

Header	Description
Authorization	This header is where the access token must be included. Its value must be of the form: Bearer <access_token>
API-Client-IP	This contains the IP address of the end user who is making the call to the application integrating with Brainier. It allows us to determine where the API traffic originates.

- 200
- Error Response HTTP Code
 - 200/400/403

Users

- **Get Single User Info:**

This returns a JSON object of all the user information for a given user_id.

- HTTP Method: GET
- Path: /rest/brainier/user/**user_id**?is_vendor_user_id=**is_vendor_user_id**
- Parameters:

user_id (path parameter)	Unique identifier of the user.	integer - Required
is_vendor_user_id (URL parameter)	Indicates whether the user id passed is the alternate "vendor" user id rather than the default Elan id.	boolean - Optional

- Success Response:

```
{
  MESSAGE: "",
  SUCCESS: true,
  DATA: {
    PHONE:"952-345-5555",
    JOB_TITLE:"Web Developer",
    USER_ID:1,
    VENDOR_USER_ID:7881,
    EMAIL:"dnedrud@brainier.com",
    LAST_NAME:"Nedrud",
    FIRST_NAME:"Dan",
    STATUS:"Active",
    ADDED_ON:"2015-07-30 11:00:50.240",
    GMT_OFFSET:-6,
    USERNAME:"dnedrud",
    MIDDLE_NAME:"",
    ADDED_BY:"",
    AUX_{SAMPLE_AUX_FIELD}:"sample_aux_field_value",
    AUX_{SAMPLE_AUX_FIELD_2}:"sample_aux_field_2_value",
    LANGUAGE_ID:1,
    EXPIRES_ON:"",
    FORCE_PASSWORD_CHANGE:1,
    TAX_PERCENT:7.9,
    CURRENCY:"USD",
    USER_AVATAR:"",
    PROFILE_VIEWS: 32,
    DATE_FORMAT: "MM/DD/YYYY",
```

```

    TIME_FORMAT: "12 Hour",
    PRIMARY_GROUP_ID : 1,
    PRIMARY_GROUP_NAME : "Top Level",
    ROLE_ID : 1,
    ROLE_NAME : "Superadmin"
  }
}

```

- **Get Multiple Users Info:**

This returns a JSON object of all the user information for users that meet filter criteria.

- HTTP Method: GET
- Path: /rest/brainier/user?
 added_on_greater_than=**added_on_greater_than**&added_on_less_than=**added_on_less_than**&group_id=**group_id**&is_vendor_group_id=**is_vendor_group_id**&primary_yn=**primary_yn**&role_id=**role_id**&gmt_offset=**gmt_offset**&status=**status**&username=**username**&sort_column=**sort_column**&sort_order=**sort_order**&start_row=**start_row**&end_row=**end_row**
- Parameters:

added_on_greater_than (URL parameter)	The users' added_on field must be greater than this timestamp. Value must be URL encoded so "2016-06-13 18:40:39" becomes "2016-06-13%2018%3A40%3A39".	datetime (yyyy-MM-dd HH:mm:ss) - Optional
added_on_less_than (URL parameter)	The users' added_on field must be less than this timestamp.	datetime (yyyy-MM-dd HH:mm:ss) - Optional
group_id (URL parameter)	Unique identifier of a group the user must be in.	integer - Optional
is_vendor_group_id (URL parameter)	Indicates whether the group id passed is the alternate "vendor" group id rather than the default Elan id.	boolean - Optional
primary_yn (URL parameter)	Indicates whether group_id indicates the user's primary group.	integer - Optional

role_id (URL parameter)	Unique identifier of a role the user must have as part of a group they're in.	integer - Optional
status (URL parameter)	Indicates status of user. Options: Active, Inactive	string - Optional
username (URL parameter)	Username used for user login. Must be a unique value.	string - Optional
sort_column (URL parameter)	Name of column that results will be sorted by. Most columns from example response below can be used here.	string - Optional
sort_order (URL parameter)	Order of sort column. Default order is ascending. Options: ASC, DESC	string - Optional
start_row (URL parameter)	Used for pagination. If defined, it limits results to rows greater than or equal to this number.	integer - Optional
end_row (URL parameter)	Used for pagination. If defined, it limits results to rows less than or equal to this number.	integer - Optional

- Success Response:

```
{
  MESSAGE: "",
  SUCCESS: true,
  DATA: [{
    PHONE:" 952-345-5555",
    JOB_TITLE:"Web Developer",
    USER_ID:1,
    VENDOR_USER_ID:7881,
    EMAIL:"dnedrud@brainier.com",
    LAST_NAME:"Nedrud",
    FIRST_NAME:"Dan",
    STATUS:"Active",
    ADDED_ON:"2015-07-30 11:00:50.240",
    GMT_OFFSET:-6,
    USERNAME:"dnedrud",
```

```

MIDDLE_NAME:"",
ADDED_BY:"",
AUX_{SAMPLE_AUX_FIELD}:"sample_aux_field_value",
AUX_{SAMPLE_AUX_FIELD_2}:"sample_aux_field_2_value",
LANGUAGE_ID:1,
EXPIRES_ON:"",
FORCE_PASSWORD_CHANGE:1,
TAX_PERCENT:7.9,
CURRENCY:"USD",
USER_AVATAR:"",
PROFILE_VIEWS: 32,
DATE_FORMAT: "MM/DD/YYYY",
TIME_FORMAT: "12 Hour",
PRIMARY_GROUP_ID : 1,
PRIMARY_GROUP_NAME : "Top Level",
ROLE_ID : 1,
ROLE_NAME : "Superadmin"
},
{
PHONE:"",
JOB_TITLE:"",
USER_ID:2,
VENDOR_USER_ID:7882,
EMAIL:"mbegin@brainier.com",
LAST_NAME:"Begin",
FIRST_NAME:"Mike",
STATUS:"Active",
ADDED_ON:"2000-12-04 11:00:50.240",
GMT_OFFSET:-6,
USERNAME:"mbegin",
MIDDLE_NAME:"",
ADDED_BY:"",
AUX_{SAMPLE_AUX_FIELD}:"sample_aux_field_value",
AUX_{SAMPLE_AUX_FIELD_2}:"sample_aux_field_2_value",
LANGUAGE_ID:1,
EXPIRES_ON:"",
FORCE_PASSWORD_CHANGE:0,
TAX_PERCENT:"",
CURRENCY:"",
USER_AVATAR:"",
PROFILE_VIEWS: 40,
DATE_FORMAT: "MM/DD/YYYY",
TIME_FORMAT: "12 Hour",
PRIMARY_GROUP_ID : 8723,

```

```

PRIMARY_GROUP_NAME : "Sales",
ROLE_ID : 4,
ROLE_NAME : "User"
},
...
}}

```

- **Update User Info:**

This updates a pre-existing user with new information provided.

(Note: If applicable, assignment changes may take up to an hour to propagate.)

- HTTP Method: PUT
- Path:
/rest/brainier/user/**user_id**?is_vendor_user_id=**is_vendor_user_id**&create_if_missing=**create_if_missing**
- Body: {"password":**"password"**,
"force_password_change":**"force_password_change"**,
"first_name":**"first_name"**,
"middle_name":**"middle_name"**,
"last_name":**"last_name"**,
"email":**"email"**,
"phone":**"phone"**,
"job_title":**"job_title"**,
"language_id":**"language_id"**,
"gmt_offset":**"gmt_offset"**,
"username":**"username"**,
"status":**"status"**,
"currency":**"currency"**,
"tax_percent":**"tax_percent"**,
"vendor_user_id":**"vendor_user_id"**,
"primary_group_id":**"primary_group_id"**,
"is_vendor_group_id":**"is_vendor_group_id"**,
"role_id":**"role_id"**,
"aux_{sample_aux_field}":**"sample_aux_field_value"**}
- Parameters:

user_id (Path Parameter)	Unique identifier of the user.	integer - Required
is_vendor_user_id (URL Parameter)	Indicates whether the user id passed is the alternate "vendor" user id rather than the default Elan id.	boolean - Optional
create_if_missing (URL Parameter)	If this value is passed in as "true" and no user is found with a matching user id, a	boolean - Optional

	new user will be created with the included parameters.	
password (JSON Parameter)	User password	string - Optional
force_password_change (JSON Parameter)	Indicated whether the user will be forced to reset their password on their next login.	bit - Optional
first_name (JSON Parameter)	First name of user. Limit of 100 characters.	string - Optional
middle_name (JSON Parameter)	Middle name of user. Limit of 100 characters.	string - Optional
last_name (JSON Parameter)	Last name of user. Limit of 100 characters.	string - Optional
email (JSON Parameter)	Email of user. Limit of 200 characters.	string - Optional
phone (JSON Parameter)	Phone number of user. Limit of 100 characters.	string - Optional
job_title (JSON Parameter)	Job title of user. Limit of 100 characters.	string - Optional
language_id (JSON Parameter)	Language id for user. Options: 1=English, 2=French, 3=French Canadian, 4=Spanish, 5=German, 5=Chinese, 7=Italian, 8=Portuguese, 9=Swedish, 10=English UK, 11=Chinese (Traditional), 12=Japanese, 13=Korean, 14=Arabic, 15=Vietnamese	integer - Optional
expires_on (JSON Parameter)	Expiration date for the user.	datetime (yyyy-MM-dd HH:mm:ss)
gmt_offset (JSON Parameter)	GMT offset for user i.e. -6 for Central Time and 2 for Athens, Bucharest, Istanbul	integer - Optional

username (JSON Parameter)	Username used for user login. Must be a unique value.	integer - Optional (required if creating user)
status (JSON Parameter)	Indicates status of user. Options: Active, Inactive	string - Optional
currency (JSON Parameter)	User's currency for ecommerce transactions. Options: USD, CAD	string - Optional
tax_percent (JSON Parameter)	User's tax rate for ecommerce transactions.	float - Optional
vendor_user_id (JSON Parameter)	An additional identity column for customer use. Can store any data string useful in identifying user. Limit of 100 characters.	string - Optional
primary_group_id (JSON Parameter)	Unique identifier of the user's primary group. Note: role_id must also be supplied when this parameter is passed.	integer - Optional (required if creating user)
is_vendor_group_id (JSON Parameter)	Indicates whether the group id passed is the alternate "vendor" group id rather than the default Elan id.	boolean - Optional
role_id (JSON Parameter)	Indicates the role the user will take within the specified group. Note: primary_group_id must also be supplied when this parameter is passed.	integer - Optional (required if creating user)
aux_{sample_aux_field} (JSON Parameter)	This key/value pair is defined by the user. The key is the name of a user aux field prepended with "aux_", while the value is the desired aux field value.	string - Optional

	As many key/value pairs may be included as necessary. They should both be URL encoded.	
--	--	--

- Success Response:

```
{
  SUCCESS: true,
  MESSAGE: "User information updated successfully",
  DATA: {
    "user_id":56
  }
}
```

- **Create User:**

This creates a new user with the information provided.

(Note: Any assignments user is eligible for may take up to an hour to propagate.)

- HTTP Method: POST
- Path: /rest/brainier/user
- Body: {"password":"**password**",
"force_password_change":"**force_password_change**",
"first_name":"**first_name**",
"middle_name":"**middle_name**",
"last_name":"**last_name**",
"email":"**email**",
"phone":"**phone**",
"job_title":"**job_title**",
"language_id":"**language_id**",
"gmt_offset":"**gmt_offset**",
"username":"**username**",
"status":"**status**",
"currency":"**currency**",
"tax_percent":"**tax_percent**",
"vendor_user_id":"**vendor_user_id**",
"primary_group_id":"**primary_group_id**",
"is_vendor_group_id":"**is_vendor_group_id**",
"role_id":"**role_id**",
"aux_{sample_aux_field}":"**sample_aux_field_value**"}
- Parameters:

password (JSON Parameter)	User password	string - Required
force_password_change (JSON Parameter)	Indicated whether the user will be forced to reset their password on their next login.	bit - Required

first_name (JSON Parameter)	First name of user. Limit of 100 characters.	string - Required
middle_name (JSON Parameter)	Middle name of user. Limit of 100 characters.	string - Optional
last_name (JSON Parameter)	Last name of user. Limit of 100 characters.	string - Required
email (JSON Parameter)	Email of user. Limit of 200 characters.	string - Optional
phone (JSON Parameter)	Phone number of user. Limit of 100 characters.	string - Optional
job_title (JSON Parameter)	Job title of user. Limit of 100 characters.	string - Optional
language_id (JSON Parameter)	Language id for user. Options: 1=English, 2=French, 3=French Canadian, 4=Spanish, 5=German, 5=Chinese, 7=Italian, 8=Portuguese, 9=Swedish, 10=English UK, 11=Chinese (Traditional), 12=Japanese, 13=Korean, 14=Arabic, 15=Vietnamese	integer - Required
gmt_offset (JSON Parameter)	GMT offset for user i.e. -6 for Central Time and 2 for Athens, Bucharest, Istanbul	integer - Optional
username (JSON Parameter)	Username used for user login. Must be a unique value.	string - Required
status (JSON Parameter)	Indicates status of user. Options: Active, Inactive	string - Required
currency (JSON Parameter)	User's currency for ecommerce transactions. Options: USD, CAD	string - Optional
tax_percent (JSON Parameter)	User's tax rate for ecommerce transactions.	float - Optional

vendor_user_id (JSON Parameter)	An additional identity column for customer use. Can store any data string useful in identifying user. Limit of 100 characters.	string - Optional
primary_group_id (JSON Parameter)	Unique identifier of the user's primary group.	integer - Required
is_vendor_group_id (JSON Parameter)	Indicates whether the group id passed is the alternate "vendor" group id rather than the default Elan id.	boolean - Optional
expires_on (JSON Parameter)	Expiration date for the user.	datetime (yyyy-MM-dd HH:mm:ss)
role_id (JSON Parameter)	Indicates the role the user will take within the specified group.	integer - Required
aux_{sample_aux_field} (JSON Parameter)	This key/value pair is defined by the user. The key is the name of a user aux field prepended with "aux_", while the value is the desired aux field value. As many key/value pairs may be included as necessary. They should both be URL encoded.	string - Optional

- Success Response:

```
{
  SUCCESS: true,
  MESSAGE: "User created successfully",
  DATA: {
    "user_id":56
  }
}
```

- **Upload User Avatar:**

This uploads an image file to be used as the avatar of a particular user in the system.

- HTTP Method: POST
- Path: /rest/file/avatar/**user_id**

- Body: *IMAGE BINARY DATA*
- Parameters:

user_id (Path Parameter)	Unique identifier of the user.	integer - Required
HTTP Request Body	Binary data of file being uploaded.	binary - Required

- Success Response:


```
{
    SUCCESS: true,
    MESSAGE: "Upload Successful",
    DATA:
    "https://cdn.brainier.com/012/avatars/5/237DFS7-47D7-B8D-F0A390529AEBBD23.png"
}
```

Groups

- **Get Single Group Info:**

This returns a JSON object of all the group information for a given group_id.

- HTTP Method: GET
- Path: /rest/brainier/group/**group_id**
- Parameters:

group_id (path parameter)	Unique identifier of the group.	integer - Required
is_vendor_group_id (URL parameter)	Indicates whether the group id passed is the alternate "vendor" group id rather than the default Elan id.	boolean - Optional

- Success Response:


```
{
    MESSAGE: "",
    SUCCESS: true,
    DATA: {
      GROUP_NAME:"Brainier Top Level Group",
      GROUP_ID:1,
      VENDOR_GROUP_ID:40,
      GROUP_TYPE_ID:1,
      GROUP_STATUS:"Active",
      CREATION_DATE:"2015-11-23 21:23:34.820",
      PARENT_GROUP_ID:"",
    }
  }
```

PARENT_ID_LIST: "", **Note: This is a comma separated list of ids i.e.**
"greatgrandparent_id, grandparent_id, parent_id"
 GROUP_CODE: "G1",
 GROUP_DESCRIPTION: "Top level group for the Brainier LMS."

}

}

- **Get Multiple Groups Info:**

This returns a JSON object of all the group information for groups that meet filter criteria.

- HTTP Method: GET
- Path:
 /rest/brainier/group?group_type_id=**group_type_id**&status=**status**&group_code=**group_code**&user_id=**user_id**&sort_column=**sort_column**&sort_order=**sort_order**&start_row=**start_row**&end_row=**end_row**
- Parameters:

group_type_id (URL parameter)	Identifies the type of group to return. Options: 1=Company, 2=Department, 3=Location Can also create a group type in Brainier and pass in the auto-generated group id.	integer - Optional
status (URL parameter)	Indicates status of group. Options: Active, Inactive	string - Optional
group_code (URL parameter)	Alternate identifier for a group.	string - Optional
user_id (URL parameter)	Unique identifier of a user. If passed will only return groups user is a part of.	integer - Optional
is_vendor_user_id (URL parameter)	Indicates whether the user id passed is the alternate "vendor" user id rather than the default Elan id.	boolean - Optional
sort_column (URL parameter)	Name of column that results will be sorted by. Most columns from example response below can be used here.	string - Optional

sort_order (URL parameter)	Order of sort column. Default order is ascending. Options: ASC, DESC	string - Optional
start_row (URL parameter)	Used for pagination. If defined, it limits results to rows greater than or equal to this number.	integer - Optional
end_row (URL parameter)	Used for pagination. If defined, it limits results to rows less than or equal to this number.	integer - Optional

- Success Response:

```
{
  MESSAGE: "",
  SUCCESS: true,
  DATA: [{
    GROUP_NAME:"Brainier Top Level Group",
    GROUP_ID:1,
    VENDOR_GROUP_ID:40,
    GROUP_TYPE_ID:1,
    GROUP_STATUS:"Active",
    CREATION_DATE:"2015-11-23 21:23:34.820",
    PARENT_GROUP_ID:"",
    PARENT_ID_LIST: "", Note: This is a comma separated list of ids i.e.
"greatgrandparent_id, grandparent_id, parent_id"
    GROUP_CODE: "G1",
    GROUP_DESCRIPTION: "Top level group for the Brainier LMS.",
    ROLE_ID: 1, Note: This field is only included when a user_id parameter is passed.
    ROLE_NAME: "SuperAdmin" Note: This field is only included when a user_id
parameter is passed.
  },
  {
    GROUP_NAME:"Human Resources",
    GROUP_ID:5,
    VENDOR_GROUP_ID:42,
    GROUP_TYPE_ID:1,
    GROUP_STATUS:"Active",
    CREATION_DATE:"2016-04-14 17:27:04.250",
    PARENT_GROUP_ID:2,
    PARENT_ID_LIST: "1,2",
    GROUP_CODE: "HR",
    GROUP_DESCRIPTION: "Group containing users in HR.",
```

ROLE_ID: 1, **Note: This field is only included when a user_id parameter is passed.**
 ROLE_NAME: "SuperAdmin" **Note: This field is only included when a user_id parameter is passed.**

```
    },  
    ...  
  }  
}
```

- **Update Group Info:**

This updates a pre-existing group with new information provided.

- HTTP Method: PUT
- Path:
/rest/brainier/group/**group_id**?is_vendor_group_id=**is_vendor_group_id**&create_if_missing=**create_if_missing**
- Body: {"group_code":"**group_code**",
"group_name":"**group_name**",
"group_type_id":"**group_type_id**",
"group_description":"**group_description**",
"group_status":"**group_status**",
"parent_group_id":"**parent_group_id**",
"is_vendor_parent_group_id":"**is_vendor_parent_group_id**",
"vendor_group_id":"**vendor_group_id**"}
- Parameters:

group_id (Path Parameter)	Unique identifier of the group.	integer - Required
is_vendor_group_id (URL Parameter)	Indicates whether the group id passed is the alternate "vendor" group id rather than the default Elan id.	boolean - Optional
create_if_missing (URL Parameter)	If this value is passed in as "true" and no group is found with a matching group id, a new group will be created with the included parameters.	boolean - Optional
group_code (JSON Parameter)	Alternate identifier for internal Brainier usage. Must be a unique value.	string - Optional
group_name (JSON Parameter)	Display name of group. Limit of 200 characters.	string - Optional

group_type_id (JSON Parameter)	Identifies the type of group to return. Options: 1=Company, 2=Department, 3=Location Can also create a group type in Brainier and pass in the auto-generated group id.	integer - Optional
group_description (JSON Parameter)	Optional description of group. Limit of 4000 characters.	string - Optional
group_status (JSON Parameter)	Indicates status of group. Options: Active, Inactive	string - Optional
vendor_group_id (JSON Parameter)	An additional identity column for customer use. Can store any data string useful in identifying group. Limit of 100 characters.	string - Optional
parent_group_id (JSON Parameter)	The group id of the current group's parent within the group tree structure. Only used when creating a new group.	string - Optional (required if creating group)
is_vendor_parent_group_id (JSON Parameter)	Indicates whether the parent group id passed is the alternate "vendor" group id rather than the default Elan id.	boolean - Optional

- Success Response:

```
{
  SUCCESS: true,
  MESSAGE: "Group information updated successfully",
  DATA: {
    "group_id":3
  }
}
```

- **Create Group:**

This creates a new group with the information provided.

- HTTP Method: POST

- Path: /rest/brainier/group
- Body: {"group_code":"group_code",
"group_name":"group_name",
"group_type_id":"group_type_id",
"group_description":"group_description",
"group_status":"group_status",
"parent_group_id":"parent_group_id",
"is_vendor_parent_group_id":"is_vendor_parent_group_id",
"vendor_group_id":"vendor_group_id"}
- Parameters:

group_code (JSON Parameter)	Alternate identifier for internal Brainier usage. Must be a unique value.	string - Required
group_name (JSON Parameter)	Display name of group. Limit of 200 characters.	string - Required
group_type_id (JSON Parameter)	Identifies the type of group to return. Options: 1=Company, 2=Department, 3=Location Can also create a group type in Brainier and pass in the auto-generated group id.	integer - Required
group_description (JSON Parameter)	Optional description of group. Limit of 4000 characters.	string - Optional
group_status (JSON Parameter)	Indicates status of group. Options: Active, Inactive	string - Required
vendor_group_id (JSON Parameter)	An additional identity column for customer use. Can store any data string useful in identifying group. Limit of 100 characters.	string - Optional
parent_group_id (JSON Parameter)	The group id of the current group's parent within the group tree structure. Only used when creating a new group.	integer - Required

is_vendor_parent_group_id (JSON Parameter)	Indicates whether the parent group id passed is the alternate "vendor" group id rather than the default Elan id.	boolean - Optional
---	--	---------------------------

- Success Response:


```
{
  SUCCESS: true,
  MESSAGE: "Group created successfully",
  DATA: {
    "group_id":4
  }
}
```

- **Add User to Group**

This adds a single user to the specified group within the context of a role.

(Note: If applicable, assignment changes may take up to an hour to propagate.)

- HTTP Method: POST
- Path: /rest/brainier/usergroup/**user_id**/**group_id**/**role_id**
- Parameters:

user_id (path parameter)	Unique identifier of the user.	integer - Required
group_id (path parameter)	Unique identifier of the group the user is being added to.	integer - Required
role_id (path parameter)	Indicates the role the user will take within the specified group.	integer - Required

- Success Response:


```
{
  SUCCESS: true,
  MESSAGE: "User successfully added to group."
  DATA: {
    "user_id":56
  }
}
```

- **Remove User from Group**

This removes a single user from a group.

(Note: If applicable, assignment changes may take up to an hour to propagate.)

- HTTP Method: DELETE
- Path: /rest/brainier/usergroup/**user_id**/**group_id**
- Parameters:

user_id (path parameter)	Unique identifier of the user.	integer - Required
group_id (path parameter)	Unique identifier of the group the user is being removed from.	integer - Required

- Success Response:


```
{
  SUCCESS: true,
  MESSAGE: "User successfully removed from group.",
  DATA: {
    "user_id":56
  }
}
```

Roles

- **Get Single Role Info:**

This returns a JSON object of all the role information for a given role_id.

- HTTP Method: GET
- Path: /rest/brainier/role/**role_id**
- Parameters:

role_id (path parameter)	Unique identifier of the role.	integer - Required
--------------------------	--------------------------------	---------------------------

- Success Response:


```
{
  MESSAGE: "",
  SUCCESS: true,
  DATA: {
    ACTIVE:1,
    ROLE_ID:2,
    OWNER_GROUP_ID:1,
    ROLE_NAME: "Administrator",
    ROLE_CODE: "ADM"
  }
}
```

- **Get Multiple Roles Info:**

This returns a JSON object of all the role information for roles that meet filter criteria.

- HTTP Method: GET
- Path: /rest/brainier/role?role_name=**role_name** &role_code=**role_code**
- Parameters:

role_name (URL parameter)	Name of the role as defined by customer	string - Optional
role_code (URL parameter)	Secondary unique identifier of role	string - Optional

- Success Response:

```
{
  MESSAGE: "",
  SUCCESS: true,
  DATA: [{
    ACTIVE:1,
    ROLE_ID:2,
    OWNER_GROUP_ID:1,
    ROLE_NAME: "Administrator",
    ROLE_CODE: "ADM"
  },
  {
    ACTIVE:1,
    ROLE_ID:3,
    OWNER_GROUP_ID:1,
    ROLE_NAME: "Manager",
    ROLE_CODE: "MANAGER"
  },
  ...
]}
```

Learning Objects

- **Get Learning Object Info**

This returns a JSON object of all the learning object information for a given object_id.

- HTTP Method: GET
- Path: /rest/brainier/object/**object_id**?parent_object_id=**parent_object_id**
- Parameters:

object_id (path parameter)	Unique identifier of the learning object.	integer - Required
parent_object_id (URL parameter)	If the object has a parent object, the id for its parent must be passed. If the object is nested more than once, then this parameter must be a pipe delimited list i.e. "greatgrandparent_id grandparent_id parent_id"	string - Optional

admin_objects (URL parameter)	If set to "true", checks user access through the administration side, rather than the front-end access check. Default is "false".	boolean - Optional
----------------------------------	---	------------------------------

○ Success Response:

```
{
  MESSAGE: "",
  SUCCESS: true,
  DATA: {
    OBJECT_TYPE_ID:21,
    OWNER_GROUP_ID:16,
    CREATOR_USER_ID:5,
    CREATION_TS:"2015-07-30 11:00:50.240",
    OBJECT_TYPE_NAME:"SCORM",
    FACULTY_ID:34,
    OBJECT_ID:4,
    OBJECT_NAME:"Sample SCORM Course",
    OBJECT_DESCR: "Sample description.",
    OBJECT_STATUS:"ACTIVE",
    OBJECT_REL_DATE:"2015-07-30 11:00:50.240",
    OBJECT_EXP_DATE:"2015-07-30 11:00:50.240",
    DURATION:"Six seconds",
    DURATION_SECS:6,
    AVG_RATING:3,
    TAGS:"corporate,March",
    OBJECT_SEARCH_TERMS:"March,SCORM",
    AUX_{SAMPLE_AUX_FIELD}:"sample_aux_field_value",
    AUX_{SAMPLE_AUX_FIELD_2}:"sample_aux_field_2_value",
    LINK_PATH:"https://www.wikipedia.com",
    PASSING_PERCENT:"",
    CHILD_ID_LIST:"76,234,4,55",
    VIDEO_STEPS:"2,4", Note: These are the identifiers of all the videos attached to a course. They are necessary for the launchvideo method.
    STEP_NO:"6", Note: Only included if a parent_object_id is passed in, in which case it indicates the position number for sorting.
    OBJECT_IMAGE:"https://cdn.brainier.com/012/objects/345/D5523E6F-FBD5-4636-D9916F54B2384980.png",
    PAGE_VIEWS:11,
    CERTIFICATE_TEMPLATE_ID: ""
  }
}
```

● **Get Multiple Learning Objects Info**

This returns a JSON object of all the learning object information for multiple learning objects based on the filters passed.

- HTTP Method: GET
- Path: /rest/brainier/object?
created_on_greater_than=created_on_greater_than&created_on_less_than=created_on_less_than&parent_object_id=parent_object_id&group_id=group_id&object_type_id=object_type_id&status=status&tags=tag1%2Ctag2%2Ctag3&aux_fields=%7B%22aux_key1%22%3A%22aux_value1%22%2C%22aux_key2%22%3A%22aux_value2%22%7D&sort_column=sort_column&sort_order=sort_order&start_row=start_row&end_row=end_row
- Parameters:

created_on_greater_than (URL Parameter)	The objects' creation_ts field must be greater than this timestamp. Value must be URL encoded so "2016-06-13 18:40:39" becomes "2016-06-13%2018%3A40%3A39".	datetime (yyyy-MM-dd HH:mm:ss) - Optional
created_on_less_than (URL Parameter)	The objects' creation_ts field must be less than this timestamp.	datetime (yyyy-MM-dd HH:mm:ss) - Optional
parent_object_id (URL parameter)	Limits the objects returned to only those with the specified parent(s). If the object is nested more than once, then this parameter must be a pipe delimited list i.e. "greatgrandparent_id grandparent_id parent_id"	string - Optional
group_id (URL parameter)	Unique identifier of the owner group.	integer - Optional
object_type_id (URL parameter)	Identified the type of learning object in Brainier. Options: 1=Course, 2=Class, 3=Link, 5=Survey, 6=Quiz, 8=Success Track, 9=Curriculum, 20=Document, 21=SCORM	integer - Optional
status (URL parameter)	Indicates status of learning object. Options: Active, Inactive	string - Optional

tags (URL parameter)	Comma delimited list of tags added to learning object by administrator. List must be URL encoded i.e. tag1,tag2,tag3 becomes tag1%2Ctag2%2Ctag3	string - Optional
aux_fields (URL parameter)	JSON object containing key/value pairs indicating object aux field name and object aux field value. Object must be URL encoded i.e. { "aux_key1": "aux_value1", "aux_key2": "aux_value2" } becomes %7B%22aux_key1%22%3A%22aux_value1%22%2C%22aux_key2%22%3A%22aux_value2%22%7D	string - Optional
sort_column (URL parameter)	Name of column that results will be sorted by. Most columns from example response below can be used here.	string - Optional
sort_order (URL parameter)	Order of sort column. Default order is ascending. Options: ASC, DESC	string - Optional
start_row (URL parameter)	Used for pagination. If defined, it limits results to rows greater than or equal to this number.	integer - Optional
end_row (URL parameter)	Used for pagination. If defined, it limits results to rows less than or equal to this number.	integer - Optional
admin_objects (URL parameter)	If set to "true", checks user access through the administration side, rather than the front-end access check. Default is "false".	boolean - Optional

○ Success Response:

```
{
  MESSAGE: "",
  SUCCESS: true,
  DATA: [{
    OBJECT_TYPE_ID:21,
    OWNER_GROUP_ID:16,
```

```

CREATOR_USER_ID:5,
CREATION_TS:"2015-07-30 11:00:50.240",
OBJECT_TYPE_NAME:"SCORM",
FACULTY_ID:34,
OBJECT_ID:4,
OBJECT_NAME:"Sample SCORM Course",
OBJECT_DESCR: "Sample description.",
OBJECT_STATUS:"ACTIVE",
OBJECT_REL_DATE:"2015-07-30 11:00:50.240",
OBJECT_EXP_DATE:"2015-07-30 11:00:50.240",
DURATION:"Six seconds",
DURATION_SECS:6,
AVG_RATING:3,
TAGS:"corporate,March",
OBJECT_SEARCH_TERMS:"March,SCORM",
AUX_{SAMPLE_AUX_FIELD}:"sample_aux_field_value",
AUX_{SAMPLE_AUX_FIELD_2}:"sample_aux_field_2_value",
LINK_PATH:"https://www.wikipedia.com",
PASSING_PERCENT:"",
CHILD_ID_LIST:"76,234,4,55",
VIDEO_STEPS:"2,4", Note: These are the identifiers of all the videos attached to
a course. They are necessary for the launchvideo method."
STEP_NO:"6", Note: Only included if a parent_object_id is passed in, in which
case it indicates the position number for sorting."
OBJECT_IMAGE:"https://cdn.brainier.com/012/objects/345/D5523E6F-FBD5-463
6-D9916F54B2384980.png",
PAGE_VIEWS:11,
CERTIFICATE_TEMPLATE_ID: ""
},
{
OBJECT_TYPE_ID:1,
OWNER_GROUP_ID:16,
CREATOR_USER_ID:5,
CREATION_TS:"2015-07-30 11:00:50.240",
OBJECT_TYPE_NAME:"Course",
FACULTY_ID:34,
OBJECT_ID:12,
OBJECT_NAME:"Sample Video Course",
OBJECT_DESCR: "Sample description.",
OBJECT_STATUS:"ACTIVE",
OBJECT_REL_DATE:"2015-07-30 11:00:50.240",
OBJECT_EXP_DATE:"2015-07-30 11:00:50.240",
DURATION:"Six seconds",
DURATION_SECS:6,

```

```

    AVG_RATING:4,
    TAGS:"corporate,March",
    OBJECT_SEARCH_TERMS:"March,SCORM",
    AUX_{SAMPLE_AUX_FIELD}:"sample_aux_field_value",
    AUX_{SAMPLE_AUX_FIELD_2}:"sample_aux_field_2_value",
    LINK_PATH:"https://www.wikipedia.com",
    PASSING_PERCENT:"",
    CHILD_ID_LIST:"76,234,4,55",
    VIDEO_STEPS:"",
    OBJECT_IMAGE:"",
    PAGE_VIEWS:458,
    CERTIFICATE_TEMPLATE_ID: 3
  },
  ...
]}

```

- **Get Class Schedules Info**

This returns a JSON object of all the information for schedules associated with a given class.

- HTTP Method: GET
- Path:
/rest/brainier/schedule/**object_id**?parent_object_id=**parent_object_id**&sort_column=**sort_c**
olumn&sort_order=**sort_order**&start_row=**start_row**&end_row=**end_row**
- Parameters:

object_id (path parameter)	Unique identifier of the learning object (must be a class).	integer - Required
parent_object_id (URL parameter)	If the class object has a parent object, the id for its parent must be passed. If the object is nested more than once, then this parameter must be a pipe delimited list i.e. "greatgrandparent_id grandparent_id parent_id"	string - Optional
sort_column (URL parameter)	Name of column that results will be sorted by. Most columns from example response below can be used here.	string - Optional
sort_order (URL parameter)	Order of sort column. Default order is ascending. Options: ASC, DESC	string - Optional
start_row (URL parameter)	Used for pagination. If defined, it limits results to rows greater than or equal to this number.	integer - Optional
end_row (URL parameter)	Used for pagination. If defined, it limits results to rows less than or equal to this number.	integer - Optional

- Success Response:

```

{
  MESSAGE: "",
  SUCCESS: true,
  DATA: [{
    "LOCATION": "Conference Room",
    "FACULTY": "John Smith",
    "OBJECT_ID": 715,
    "ACTIVE": 1,
    "GMT_OFFSET": -6,
    "ENTRY_NO": 1,
    "COMPLETION_CODE": "",
    "MAX_SEATS": "",
    "OBJECT_NAME": "Test Class",
    "END_TS": "2016-04-17 12:00:00.000",
    "ENTRY_DESCR": "",
    "START_TS": "2016-04-17 10:00:00.000",
    "VM_KEY": 1 Note: This indicates whether schedule is tied to a virtual meeting
(1=WebEx, 2=GoToWebinar, 3=GoToMeeting),
    "AUX_{SAMPLE_AUX_FIELD}": "sample_aux_field_value",
    "AUX_{SAMPLE_AUX_FIELD_2}": "sample_aux_field_2_value"
  },
  {
    "LOCATION": "",
    "FACULTY": "",
    "OBJECT_ID": 715,
    "ACTIVE": 1,
    "GMT_OFFSET": -6,
    "ENTRY_NO": 2,
    "COMPLETION_CODE": "abc123",
    "MAX_SEATS": "",
    "OBJECT_NAME": "Test Class",
    "END_TS": "2016-05-17 12:00:00.000",
    "ENTRY_DESCR": "",
    "START_TS": "2016-05-17 12:00:00.000",
    "VM_KEY": "",
    "AUX_{SAMPLE_AUX_FIELD}": "sample_aux_field_value",
    "AUX_{SAMPLE_AUX_FIELD_2}": "sample_aux_field_2_value"
  },
  ...
]}

```

- **Get Learning Object Comments**

This returns a JSON object of all the learning object comments for a given object_id.

- HTTP Method: GET
- Path: /rest/brainier/comment/object_id

- Parameters:

object_id (path parameter)	Unique identifier of the learning object (must be a class).	integer - Required
----------------------------	---	---------------------------

- Success Response:

```
{
  MESSAGE: "",
  SUCCESS: true,
  DATA: [{
    "AVATAR_FILENAME ": " https://cdn.brainier.com/018/avatars/5/sample.png",
    "COMMENT_RATING": 4
    "COMMENT_TEXT": " Great course!",
    "COMMENT_TS ": "2019-11-22 20:57:38.347",
    "USER_ID ": 5,
    "LAST_NAME": "Smith",
    "FIRST_NAME": "Mary",
    "MAX_SEATS": ""
  ]}
```

- **Get Object Access**

This returns a JSON object of the users and groups who have been granted access to this object.

- HTTP Method: GET
- Path: /rest/brainier/objectaccess/**object_id**?user_id=**user_id**&group_id=**group_id**
- Parameters:

object_id (path parameter)	Unique identifier of the learning object (must be a class).	integer - Required
user_id (URL parameter)	Limits the access results returned to only those with the specified user id.	integer
group_id (URL parameter)	Limits the access results returned to only those with the specified group id.	integer

- Success Response:

```
{
  MESSAGE: "",
  SUCCESS: true,
  DATA: {
    USERS : [
      {
        "FIRST_NAME": "John",
        "LAST_NAME": "Smith",
        "USER_ID": 1823
      },
    ],
  }
```

```

    {
      "FIRST_NAME": "Jane",
      "LAST_NAME": "Smith",
      "USER_ID": 849
    },
    GROUPS : [
      {
        "GROUP_NAME": "IT Support",
        "GROUP_ID": 178
      }
    ]
  }
}

```

- **Create Object Access**

Grants front-end access to an object for a user or an entire group. Must pass either a user id or group id, but not both.

- HTTP Method: POST
- Path: /rest/brainier/objectaccess/**object_id**?user_id=**user_id**&group_id=**group_id**
- Parameters:

object_id (path parameter)	Unique identifier of the learning object (must be a class).	integer - Required
user_id (URL parameter)	Unique identifier of a user.	integer
group_id (URL parameter)	Unique identifier of a group.	integer

- Success Response:


```

      {
        MESSAGE: "Access successfully added.",
        SUCCESS: true,
      }
      
```

- **Remove Object Access**

Removes front-end access to an object for a user or group that has already been granted access. Must pass either a user id or group id, but not both.

- HTTP Method: DELETE
- Path: /rest/brainier/objectaccess/**object_id**?user_id=**user_id**&group_id=**group_id**
- Parameters:

object_id (path parameter)	Unique identifier of the learning object (must be a class).	integer - Required
----------------------------	---	---------------------------

user_id (URL parameter)	Unique identifier of a user.	integer
group_id (URL parameter)	Unique identifier of a group.	integer

- Success Response:


```
{
    MESSAGE: "Access successfully removed.",
    SUCCESS: true,
  }
```

User Object Records

- **Get User Object Records**

This returns a JSON object of any started or completed records in the system.

- HTTP Method: GET
- Path:

/rest/brainier/record?started_greater_than=**started_greater_than**&started_less_than=**start**
ed_less_than&completed_greater_than=**completed_greater_than**&completed_less_than=**c**
ompleted_less_than&logged_greater_than=**logged_greater_than**&logged_less_than=**logge**
d_less_than&object_id=**object_id**&user_id=**user_id**&record_id=**record_id**&batch_id=**batch_**
id&parent_object_id=**parent_object_id**&parent_record_id=**parent_record_id**&status_list=**st**
atus_list&sort_column=**sort_column**&sort_order=**sort_order**&start_row=**start_row**&end_r
ow=end_row
- Parameters:

started_greater_than (URL parameter)	The records' start_ts field must be greater than this timestamp. Value must be URL encoded so "2016-06-13 18:40:39" becomes "2016-06-13%2018%3A40%3A39".	datetime (yyyy-MM-dd HH:mm:ss) - Optional
started_less_than (URL parameter)	The records' start_ts field must be less than this timestamp.	datetime (yyyy-MM-dd HH:mm:ss) - Optional
completed_greater_than (URL parameter)	The records' completed_ts field must be greater than this timestamp.	datetime (yyyy-MM-dd HH:mm:ss) - Optional

completed_less_than (URL parameter)	The records' completed_ts field must be less than this timestamp.	datetime (yyyy-MM-dd HH:mm:ss) - Optional
logged_greater_than (URL parameter)	The records' logged_ts field must be greater than this timestamp.	datetime (yyyy-MM-dd HH:mm:ss) - Optional
logged_less_than (URL parameter)	The records' logged_ts field must be less than this timestamp.	datetime (yyyy-MM-dd HH:mm:ss) - Optional
object_id (URL parameter)	Unique identifier of a learning object.	integer - Optional
user_id (URL parameter)	Unique identifier of the user.	integer - Optional
record_id (URL parameter)	Unique identifier of the user object record.	integer - Optional
batch_id (URL parameter)	Unique identifier of an assignment batch if object was started/completed within the context of a batch.	integer - Optional
parent_object_id (URL parameter)	Passing this in narrows down the results to those objects with this parent object.	integer - Optional
parent_record_id (URL parameter)	Passing this in narrows down the results to those records with this parent record.	integer - Optional
status_list (URL parameter)	Comma delimited list of statuses that the record results must possess. Options: Complete, Started, Passed, Failed, Registered, Waiting	string - Optional
sort_column (URL parameter)	Name of column that results will be sorted by. Most columns from	string - Optional

	example response below can be used here.	
sort_order (URL parameter)	Order of sort column. Default order is ascending. Options: ASC, DESC	string - Optional
start_row (URL parameter)	Used for pagination. If defined, it limits results to rows greater than or equal to this number.	integer - Optional
end_row (URL parameter)	Used for pagination. If defined, it limits results to rows less than or equal to this number.	integer - Optional

○ Success Response:

```
{
  MESSAGE: "",
  SUCCESS: true,
  DATA: [{
    RECORD_ID:3357,
    USER_ID:5,
    OBJECT_ID:1,
    OBJECT_NAME: "Example Course",
    PARENT_RECORD_ID:3355,
    ENTRY_NO:"",
    GRANDFATHER_ID:"",
    START_TS:"2015-07-30 11:00:50.240",
    COMPLETED_TS:"",
    LOGGED_TS:"",
    PASS_YN:"",
    STATUS:"Started",
    BATCH_ID:70,
    SCORE:"",
    VM_ATTENDEE_ID:"",
    TOTAL_SECS_TRACKED:"",
    VENDOR_AUX_FIELD:"",
    COMMENT_TEXT : "This is a sample comment.",
    USER_FILE :
    "https://customer.brainier.com/utility/dl-file.cfm?type=user-file&ufid=88",
    ASSESSMENT_ID: ""
  },
  {
    RECORD_ID:6835,
```

```

        USER_ID:5,
        OBJECT_ID:1,
        OBJECT_NAME: "Example Course",
        PARENT_RECORD_ID:"",
        ENTRY_NO:"",
        GRANDFATHER_ID:"",
        START_TS:"2016-04-07 11:00:50.240",
        COMPLETED_TS:"2016-04-14 11:00:50.240",
        LOGGED_TS:"2017-04-20 09:15:49.770",
        PASS_YN:"",
        STATUS:"Complete",
        BATCH_ID:216,
        SCORE:"",
        VM_ATTENDEE_ID:"",
        TOTAL_SECS_TRACKED:"",
        VENDOR_AUX_FIELD:"",
        ASSESSMENT_ID: "450"
    },
    ...
  ]}

```

- **Create User Object Record**

Creates a record for a user/object combination with a status such as "Complete" or "Failed".

- HTTP Method: POST
- Path: /rest/brainier/record
- Body: {"user_id":"**user_id**",
"object_id":"**object_id**",
"parent_object_id":"**parent_object_id**",
"entry_no":"**entry_no**",
"status":"**status**",
"batch_id":"**batch_id**",
"score":"**score**",
"comment_text":"**comment_text**",
"vendor_aux_field":"**vendor_aux_field**"}
- Parameters:

user_id (JSON Parameter)	Unique identifier of the user.	integer - Required
object_id (JSON Parameter)	Unique identifier of the learning object.	integer - Required
parent_object_id (JSON Parameter)	If the object has a parent object, the id for its parent must be passed.	string - Optional

	If the object is nested more than once, then this parameter must be a pipe delimited list i.e. "greatgrandparent_id grandparent_id parent_id"	
entry_no (JSON Parameter)	If object is a class, entry_no is the unique identifier of the class schedule, otherwise it is not passed.	integer - Optional
status (JSON Parameter)	Current completion status of user/object combination. Options: Complete, Started, Passed, Failed, Registered, Waiting	string - Required
batch_id (JSON Parameter)	Unique identifier of an assignment batch if object is being completed within the context of a batch.	integer - Optional
score (JSON Parameter)	Score user achieved when completing a learning object. This is generally only used for SCORM and quiz objects and usually ranges from 0-100.	float - Optional
vendor_aux_field (JSON Parameter)	Optional "vendor" field that can contain any auxiliary information.	string - Optional
comment_text (JSON Parameter)	Optional field that can contain any notes to associate with the record.	string - Optional

- Success Response:

```
{
  SUCCESS: true,
  MESSAGE:"User object record successfully created.",
  DATA: {
    "record_id":"156",
  }
}
```

- **Update User Object Record**

Update the status of a user object record i.e. moving it from "Started" to "Complete".

- HTTP Method: PUT
- Path: /rest/brainier/record/**record_id**
- Body: {"status":**"status"**,
"score":**"score"**,
"comment_text":**"comment_text"**,
"vendor_aux_field":**"vendor_aux_field"**}
- Parameters:

record_id (Path Parameter)	Unique identifier of a single user/object record.	integer - Required
----------------------------	---	---------------------------

status (JSON Parameter)	Current completion status of user/object combination. Options: Complete, Started, Passed, Failed, Registered, Waiting	string - Required
score (JSON Parameter)	Score user achieved when completing a learning object. This is generally only used for SCORM and quiz objects and usually ranges from 0-100.	float - Optional
vendor_aux_field (JSON Parameter)	Optional "vendor" field that can contain any auxiliary information.	string - Optional
comment_text (JSON Parameter)	Optional field that can contain any notes to associate with the record.	string - Optional

- Success Response:

```
{
  SUCCESS: true,
  MESSAGE: "User object record successfully updated.",
  DATA: {
    "record_id": "156",
  }
}
```

- **Unregister From Class**

Deletes a user object record, which “unregisters” a user from that class. Only works for records associated with class objects.

- HTTP Method: DELETE
- Path: /rest/brainier/record/**record_id**
- Parameters:

record_id (Path Parameter)	Unique identifier of a single user/object record.	integer - Required
----------------------------	---	---------------------------

- Success Response:

```
{
  SUCCESS: true,
  MESSAGE: "Record deletion successful."
}
```

- **Add File to Record**

Uploads a file and associates it with the user object record. The file content is sent in the body of a multipart/form-data request.

Here is what a sample request using Fetch would look like.

```
fetch(
  "https://customer.brainier.com/rest/brainier/record/file/156?filename=ABC.png",
  {
    "credentials": "include",
    "headers": {
      "accept": "application/json, text/plain, */*",
      "accept-language": "en-US,en;q=0.9,es;q=0.8",
      "Authentication": "hmac
johndoe:[MWM3MmM1YWM4YTJhYTRhNzM0NTVINGJjNTczOWUwM2EzMzgyNGQzYWlyOWI4M
DAzZGZlMjhlYzMxOTRiOGEyYg==] 1950026549841651",
      "Elan-Date": "1970-01-31 14:00:00",
      "API-Client-IP": "123.45.678.90",
      "content-type": "multipart/form-data;
boundary=----WebKitFormBoundary5kGNsK2uW0LSG2c0"
    },
    "referrer": "https://customer.brainier.com/",
    "referrerPolicy": "no-referrer-when-downgrade",
    "body": "-----WebKitFormBoundary5kGNsK2uW0LSG2c0\r\nContent-Disposition: form-data;
name=\"UPLOADED_FILE\"; filename=\"ABC.png\"\r\nContent-Type:
image/png\r\n\r\n\r\n-----WebKitFormBoundary5kGNsK2uW0LSG2c0--\r\n",
    "method": "POST",
    "mode": "cors"
  }
);
```

And here is some sample JavaScript code you might use to attach a file to a POST request. Note: This example does not contain the required headers.

```
var file = document.getElementById('fileInput').files[0];
var formData = new FormData();
formData.append('UPLOADED_FILE', file);
var xhr = new XMLHttpRequest();
xhr.open("POST",
'https://customer.brainier.com/rest/brainier/record/file/156?filename=ABC.png', true);
xhr.send(formData);
```

- HTTP Method: POST
- Path: /rest/brainier/record/**record_id**?filename=**filename**&access=**access**
- Parameters:

record_id (Path Parameter)	Unique identifier of a single user/object record.	integer - Required
----------------------------	---	---------------------------

Filename (URL Parameter)	Name of file e.g. "picture.png"	string - Required
UPLOADED_FILE (FORM Parameter)	Contents of an HTML file input.	file - Required
access	Determines who can access the file. Options: backend,private,public (default: backend)	string

- Success Response:

```
{
  SUCCESS: true,
  MESSAGE: "User object record successfully updated.",
  DATA : {
    record_id : "156"
  }
}
```

Forms (Quizzes and Surveys)

- **Get Form Questions and Answers**

Gets all questions and possible answers for a quiz or survey that matches the provided object id.

- HTTP Method: GET
- Path: /rest/brainier/form/**object_id**?parent_object_id=**parent_object_id**
- Parameters:

object_id (Path Parameter)	Unique value of the Brainier learning object.	integer - Required
parent_object_id (URL Parameter)	If the object has a parent object, the id for its parent must be passed. If the object is nested more than once, then this parameter must be a pipe delimited list i.e. "greatgrandparent_id grandparent_id parent_id"	string - Optional

- Success Response:

```
{
  SUCCESS: true,
  MESSAGE: "",
  DATA: [{
    QUES_NO:1,
    SORT_NO:2,
    IMAGE_URL:"",
  ]
}
```

```

    QUES_TYPE:"Radio",
    QUES_TEXT:" What color is the sky?",
    ANSWERS:[
      {
        ANS_NO:1,
        SORT_NO:2,
        CORRECT:0,
        ANSWER_TEXT:"Green.",
        RATIONALE:" This is wrong because..."
      },
      {
        ANS_NO:2,
        SORT_NO:1,
        CORRECT:1,
        ANSWER_TEXT:"Blue.",
        RATIONALE:" This is correct because..."
      },
      {
        ANS_NO:3,
        SORT_NO:3,
        CORRECT:0,
        ANSWER_TEXT:"All of the above.",
        RATIONALE:""
      }
    ]
  },
  {
    QUES_NO:2,
    SORT_NO:1,
    IMAGE_URL:"",
    QUES_TYPE:"Textarea",
    QUES_TEXT:" Please describe a perfect sunset.",
    ANSWERS:[]
  },
  ...
]}

```

- **Get Form Options**

Gets additional information pertaining only to quizzes and surveys that is set on the Brainier backend.

- HTTP Method: GET
- Path: /rest/brainier/formoptions/**object_id**?parent_object_id=**parent_object_id**
- Parameters:

object_id (Path Parameter)	Unique value of the Brainier learning object.	integer - Required
parent_object_id (URL Parameter)	If the object has a parent object, the id for its parent must be passed. If the object is nested more than once, then this parameter must be a pipe delimited list i.e. "greatgrandparent_id grandparent_id parent_id"	string - Optional

- Success Response:

```
{
  SUCCESS: true,
  MESSAGE: "",
  DATA: {
    "QUESTIONS_TO_SHOW": "",
    "RANDOMIZE_QUESTIONS": 0,
    "FINISH_TEXT": "Thank you",
    "PASSING_PERCENT": 70,
    "INTRO_TEXT": "Hello",
    "MAX_RETAKES": 3,
    "USER_CAN_REVIEW": 1
  }
}
```

- **Get User Form Answers**

Gets the answers provided by the indicated user for all the questions in the quiz or survey for a single user object record.

- HTTP Method: GET
- Path: /rest/brainier/formanswers/**object_id/user_id/record_id**
- Parameters:

object_id (Path Parameter)	Unique value of the Brainier learning object	integer - Required
user_id (Path Parameter)	Unique identifier of the user.	integer - Required
record_id (Path Parameter)	Unique identifier of a single user/object record.	integer - Required

- Success Response:

```
{
  SUCCESS: true,
  MESSAGE: "",
  DATA: [{
    RECORD_ID: 55,
```

```

      QUES_NO:1,
      USER_ANS_NO:2
    },
    {
      RECORD_ID:55,
      QUES_NO:2,
      USER_ANS_TEXT:" When the sun goes down."
    },
    ...
  ]}

```

- **Send Form Answers**

Accepts the answers provided by a particular user for all (or some of) the questions in a quiz or survey. Only one of the "user_ans" fields should contain a value depending on the expected answer format.

- HTTP Method: POST
- Path: /rest/brainier/formanswers/**record_id**
- Body: [{"ques_no":"**ques_no**",
"user_ans_no":"**user_ans_no**",
"user_ans_list":"**user_ans_list**",
"user_ans_text":"**user_ans_text**",
"user_ans_textarea":"**user_ans_textarea**"},
{"ques_no":"**ques_no**",
"user_ans_no":"**user_ans_no**",
"user_ans_list":"**user_ans_list**",
"user_ans_text":"**user_ans_text**",
"user_ans_textarea":"**user_ans_textarea**"},
...]
- Parameters:

record_id (PATH Parameter)	Unique identifier of a single user/object record.	integer - Required
ques_no (JSON Parameter)	Unique identifier of the question within the quiz or survey object.	integer - Required
user_ans_no (JSON Parameter)	Indicates which options the user selected when the question is of type "Radio" or "Select".	integer - Optional
user_ans_list (JSON Parameter)	Indicates which options the user selected when the question is of type	string - Optional

	"Checkbox". Limit of 50 characters.	
user_ans_text (JSON Parameter)	Indicates which options the user selected when the question is of type "Text". Limit of 1000 characters.	string - Optional
user_ans_textarea (JSON Parameter)	Indicates which options the user selected when the question is of type "Textarea". No character Limit.	string - Optional

- Success Response:


```
{
  SUCCESS: true,
  MESSAGE: "User form answers successfully submitted."
}
```

Assignments

- **Get Assignments**

Gets all assignment batches that the caller has access to.

- HTTP Method: GET
- Path:

/rest/brainier/batches?sort_column=**sort_column**&sort_order=**sort_order**&start_row=**start_row**&end_row=**end_row**
- Parameters:

sort_column (URL parameter)	Name of column that results will be sorted by. Most columns from example response below can be used here.	string - Optional
sort_order (URL parameter)	Order of sort column. Default order is ascending. Options: ASC, DESC	string - Optional
start_row (URL parameter)	Used for pagination. If defined, it limits results to rows greater than or equal to this number.	integer - Optional
end_row (URL parameter)	Used for pagination. If defined, it limits results to rows less than or equal to this number.	integer - Optional

- Success Response:


```
{
  MESSAGE: "",
  SUCCESS: true,
}
```

```

DATA: [{
  BATCH_ID:20,
  BATCH_NAME:"Temp Batch 20",
  BATCH_CREATION_DATE:"2015-07-30 11:00:50.240",
  ASSIGNED_BY:5,
  BATCH_STATUS:"Active",
  DAYS_DUE:31, Note: Only included if due date is a “dynamic” due date.
  DUE_DATE:"" Note: Only included if due date is a “static” due date.
},
{
  BATCH_ID:21,
  BATCH_NAME:"Temp Batch 21",
  BATCH_CREATION_DATE:"2015-07-31 11:00:50.240",
  ASSIGNED_BY:5,
  BATCH_STATUS:"Active",
  DAYS_DUE:"",
  DUE_DATE:"2015-08-15 00:00:00"
},
...
]}

```

- **Create Assignment**

Creates an empty assignment batch (can also be used to create a bookmark or recommendation).

- HTTP Method: POST
- Path: /rest/brainier/batches
- Body: {"name":"**name**",
"type":"**type**"}
- Parameters:

name (JSON Parameter)	Name of the assignment batch.	string - Optional
type (JSON Parameter)	Type of batch created. Default is "assignment" but type can be specified. Options: assignment, bookmark, recommendation	string - Optional

- Success Response:


```

{
  SUCCESS: true,
  DATA: {"BATCH_ID":1075}
}

```

- **Get Assigned Users**

Gets an array of all user ids that are part of an assignment either individually or through a group.

- HTTP METHOD: GET
- Path: /rest/brainier/batchusers/**batch_id**
- Parameters:

batch_id (path parameter)	Unique identifier of the assignment batch.	integer - Required
---------------------------	--	---------------------------

- Success Response:

```
{  
  MESSAGE: "",  
  SUCCESS: true,  
  DATA: [2,32,47,6]  
}
```

- **Create Assigned User**

Adds a user to an assignment batch (or recommendation or bookmark).

- HTTP METHOD: POST
- Path: /rest/brainier/batchusers/**batch_id/user_id**
- Parameters:

batch_id (path parameter)	Unique identifier of the assignment batch.	integer - Required
user_id (path parameter)	Unique identifier of the user.	integer - Required

- Success Response:

```
{  
  MESSAGE: "",  
  SUCCESS: true  
}
```

- **Remove Assigned User**

Removes a user from an assignment batch (or recommendation or bookmark).

- HTTP METHOD: DELETE
- Path: /rest/brainier/batchusers/**batch_id/user_id**
- Parameters:

batch_id (path parameter)	Unique identifier of the assignment batch.	integer - Required
user_id (path parameter)	Unique identifier of the user.	integer - Required

- Success Response:

```
{  
  MESSAGE: "",  
  SUCCESS: true  
}
```

}

- **Get Assigned Groups**

Gets an array of all group ids that are part of an assignment.

- HTTP METHOD: GET
- Path: /rest/brainier/batchgroups/**batch_id**
- Parameters:

batch_id (path parameter)	Unique identifier of the assignment batch.	integer - Required
---------------------------	--	---------------------------

- Success Response:

```
{  
  MESSAGE: "",  
  SUCCESS: true,  
  DATA: [2,32,47,6]  
}
```

- **Create Assigned Group**

Adds a group to an assignment batch (or recommendation or bookmark).

- HTTP METHOD: POST
- Path: /rest/brainier/batchgroups/**batch_id/group_id**
- Parameters:

batch_id (path parameter)	Unique identifier of the assignment batch.	integer - Required
group_id (path parameter)	Unique identifier of the group.	integer - Required

- Success Response:

```
{  
  MESSAGE: "",  
  SUCCESS: true  
}
```

- **Remove Assigned Group**

Removes a group from an assignment batch (or recommendation or bookmark).

- HTTP METHOD: DELETE
- Path: /rest/brainier/batchgroups/**batch_id/group_id**
- Parameters:

batch_id (path parameter)	Unique identifier of the assignment batch.	integer - Required
group_id (path parameter)	Unique identifier of the group.	integer - Required

- Success Response:

```
{
```

```

MESSAGE: "",
SUCCESS: true
}

```

- **Get Assigned Objects**

Gets an array of all learning object ids that are part of an assignment.

- HTTP METHOD: GET
- Path: /rest/brainier/batchobjects/**batch_id**
- Parameters:

batch_id (path parameter)	Unique identifier of the assignment batch.	integer - Required
---------------------------	--	---------------------------

- Success Response:

```

{
MESSAGE: "",
SUCCESS: true,
DATA: [2,32,47,6]
}

```

- **Create Assigned Object**

Adds a learning object to an assignment batch (or recommendation or bookmark).

- HTTP METHOD: POST
- Path: /rest/brainier/batchobjects/**batch_id/object_id**
- Parameters:

batch_id (path parameter)	Unique identifier of the assignment batch.	integer - Required
object_id (path parameter)	Unique identifier of the object.	integer - Required

- Success Response:

```

{
MESSAGE: "",
SUCCESS: true
}

```

- **Remove Assigned Object**

Removes a learning object from an assignment batch (or recommendation or bookmark).

- HTTP METHOD: DELETE
- Path: /rest/brainier/batchobjects/**batch_id/object_id**
- Parameters:

batch_id (path parameter)	Unique identifier of the assignment batch.	integer - Required
object_id (path parameter)	Unique identifier of the object.	integer - Required

- Success Response:

```
{
  MESSAGE: "",
  SUCCESS: true
}
```

- **Get Assignments by User**

Gets all assigned objects as well as information about the assignments for a particular user.

- HTTP METHOD: GET

- Path:

/rest/brainier/mytraining/assigned?user_id=**user_id**&object_id=**object_id**&batch_id=**batch_id**

- Parameters:

user_id (URL parameter)	Unique identifier of the user.	integer - Required
object_id (URL parameter)	Unique identifier of an object.	integer - Optional
batch_id (URL parameter)	Unique identifier of an assignment batch.	integer - Optional

- Success Response:

```
{
  MESSAGE: "",
  SUCCESS: true,
  DATA: [{
    "AUTHOR_USER_ID": "",
    "USER_ID": 21,
    "OBJECT_DESCR": "This course is an overview of compliance basics.",
    "BATCH_ID": 11771,
    "ASSIGNED_BY": 16,
    "STATUS": "Not Started",
    "OBJECT_ID": 224,
    "AUTHOR_FACULTY_ID": "",
    "RECORD_ID": "",
    "DUE_DATE": "",
    "ASSIGNED_BY_FIRST_NAME": "Dave",
    "OBJECT_TYPE_ID": 21,
    "OBJECT_TYPE_NAME": "SCORM",
    "OBJECT_ASSIGNED_TS": "2017-10-17 16:23:27.02",
    "AVATAR_FILENAME": "https://cdn.brainier.com/012/avatars/5/237DFS7-47D7-B8D-F0A390529AEBBD23.png",
    "ASSIGNED_BY_LAST_NAME": "Smith",
    "ASSIGNED_BY_FULL_NAME": "Dave Smith",
    "OBJECT_NAME": "Compliance - Episode 8",
```

```

"AUTHOR_FULL_NAME":"","
"DURATION":"60:00",
"BATCH_NAME":"TEMP BATCH: 09/28/17 08:47 PM",
"AVG_RATING": 5
},
...
}}

```

Launch Learning Objects

- **Open SCORM Course**

Returns the URL that will launch a SCORM course. Requires that a user object record be created beforehand. When the user completes the SCORM course the record will automatically be marked as "complete". However a call must STILL be made to the API to update the user object record to "complete" or other functionality will break.

- HTTP METHOD: GET
- Path: /rest/brainier/launchscorm/**object_id**/**record_id**
- Parameters:

object_id (path parameter)	Unique value of the Brainier learning object. Object must be of type "SCORM".	integer - Required
record_id (path parameter)	Unique identifier of the user object record that must be created before SCORM launch. Record should have a status of "Started".	integer - Required

- Success Response:

```

{
  MESSAGE: "",
  SUCCESS: true,
  DATA: {
    LAUNCH_URL:"https://customer.brainier.com/ElanEngine/defaultui/launch.jsp?r
egistration=2nFoC8zMDsLsUop-PwJB6AIS6kqQL3ez-xinflnHkfpjaizMqkQDpw&co
nfiguration=ZdRVE_Wd0fQ"
  }
}

```

- **Get Document**

Returns information about a document learning object in Brainier. The information includes the file name, the mime type of the file, and finally the binary code of the file (base64 encoded) so the file can be reconstructed on the client side.

- HTTP METHOD: GET

- Path: /rest/brainier/getdoc/**object_id**/**record_id**
- Parameters:

object_id (path parameter)	Unique value of the Brainier learning object. Object must be of type "Document".	integer - Required
record_id (path parameter)	Unique identifier of the user object record that must be created before the method is called.	integer - Required

- Success Response:

```
{
  MESSAGE: "",
  SUCCESS: true,
  DATA: {
    FILE_NAME: "sample.png",
    MIME_TYPE: "image/png",
    BINARY:
      "iVBORw0KGgoAAAANSUHEUgAAAlgAAAHYCAIAAAAEAXAH0AAAAB3RJTUUH2QIF
      AQEsnpzgAAAIABJREFUeJzsXXd8FMUXfzO7e3fpjRQloZdQpQjSFKVXlaagAllsIL+f
      oKgg2JCOoCgiKAoKFqRK772FEGoSOoQSSG93uba7M78/JjsuKUhJcuHnfT98wuWy
      O/tmdvd957157w2illlbrjhhtu/FuBXS2AG2644YYbbrgSbiJ0ww033HDjXw03Ebr
      hhhtuuPGvhpsl3XDDDTfc+FfDTYRuuOGGG278q+EmQjfccMMNN/7VcBOhG2644
      YYb/2q4idANN9xww41/NdxE6IYbbrjhr8abiJ0ww033HDjXw03EbrhhhtuuPGvhps
      l3XDDDTfc+FdDdLUAbvyLwCq8I4QKLfXOv0cl3UtTRbVzL62x0/OJIO/IfJco9JhSxj32
      uigh9acXdeS9HFOiuHsfy8JdcOP/D3d7qdxwoxjBFZyqqgghQRD0f1VVIRAiCALGGH
      REVWg7AIAQloSoqooxztCUpZQQQgnBgoAxxvsdEklopXenFoQQxvjBLC/rCBO1KDF
      4p4SiBdaPHjsy3wGEEElAsCC8l90qKqqnuALlZmNKrtcoRDu4ULsAEIi72O+LouiYBv
      R31n2MOhbZl/ey3XdcON+4SZCN0ocXGcRvAUaERpWlmVFAYQopSaTiSs1QkhRX
      MjVJYOe/xwOB/tSFEVJkvj3jHQLZZdHQpPqX0/GDfq/2mw2AEAlmUwm/WGUUsb
      cJdpHQgibJTzkVfht5azJu8lvK8bYaDQWesrDdsMNN9xE6EYpgCksVvWZgtu5c+e27
      dv3b958Mz0di6IkSbVr165fv37Dhg1btGhRrVo1uCsLckV58eLFqKioM2fOxJ09Gx8b
      y2zKkJCQqIWpTaoUWTVqm3btg2pWBEAFEXJZ0YwurVYLNOnTw8PDw8KCPJluaB
      WFUUXOzs7ISFh7NixAQEBnKtVHeyU06dPnz59WhRFk8kkSZKiKPwAZgDZ7Xar1dq
      qVavlyEhOMPwYPnQ2q3X/9u0JycmHDh5MvHXrypUrAGAYmWrVqhUeHt6iefPqF
      Su2bNeODRfjD/1IMmHMZvO6desQQqloKopiMBgMBgPTAxghpyzLsuxwONq2bV
      u5cuVdu3ZZLBZRFLkRyW5IYGBg27Zt78XLarPZrl+/npWVIZycDDrb12az2e32LI26B
      Ach66c4GOPrFy5s2LJlx759sWfOOOx2jHFQUFD9+vXr1avXqFGjtm3bMoHdLOhGs
      YG64UbJg6nR+JMn+/btyx48yWAlr1gxLCxM/zSGhISsXLmSEOJ0OrnTkvnEWCPsQ3
      x8/ODBg0NCQvQnVqhQoUKFCvrWKoeHjx8//lZilqVUURR2rr6p27dv+/n53ctrvcP
      mTd6L+4lsy5TShQsX3stVpk+fzk7hPSWEKlpCKTWbzYsXL27Splmeh41Go95OAgAP
      QejevfuOHTvY2LFz9b2mlN64ceMfJUElxcTEWCyW8PDwQg8QRXHK+PGUuqfTyZr
```

I94uDXf3MmTP+/v5FXSg2Npb5jVVVIWWZEDJr1qzK2n0MCgysUKGC3t4FgG7duti
sNv5UuOHGw8NNhG6UIJiqYgrxyM6dId7eAODp6TllypQzZ87k5uZmZmbu3LmzT5
8+TK0DwKuvvkoPZZpR3xT7VZblzz77jLOxyWT673//u2vDhpSUFivFkp2dvX///pITp
gR6eHC9Wb169XXr1lFKVU11Eg2U0kuXLi1durRnz54GgwFrYGt1VUNC3h09+peIS
6OioorS9fc4AikpKStWrFi2bNnixYuff..."

}

}

- **Open Course Video**

Returns information about a video that has been attached to a Brainier course object including URLs to the video in multiple formats. The return structure matches the format of LimeLight's API which is the software we use to host our videos.

- HTTP METHOD: GET
- Path: /rest/brainier/launchvideo/**object_id/step_no**?parent_object_id=**parent_object_id**
- Parameters:

object_id (path parameter)	Unique value of the Brainier learning object. Object must be of type "Course".	integer - Required
step_no (path parameter)	This is the unique identifier of the video attached to the course. It is returned when getting a course object in the "video_steps" field.	integer - Required
parent_object_id (URL parameter)	If the object has a parent object, the id for its parent must be passed. If the object is nested more than once, then this parameter must be a pipe delimited list i.e. "greatgrandparent_id grandparent_id parent_id"	string - Optional

- Success Response:

```
{
  MESSAGE: "",
  SUCCESS: true,
  DATA: {
    "MEDIA_INFO": {
      "thumbnails": [
        {
          "width": 120,
          "height": 90,
          "url":
            "https://img.delvenetworks.com/_7lDaBa/lRopqN/sample.jpeg"
        }
      ],
      "media_id": "a23a8kjsadf9853709d2de031e9",
      "description": null,
      "media_type": "Video",
    }
  }
}
```

```

"title": "1168-1",
"publish_date": 1343857365,
"duration_in_milliseconds": 253280,
"encodings": [
  {
    "width": 480,
    "height": 360,
    "file_url": null,
    "url": null,
    "container_type": "Mpegts",
    "size_in_bytes": 33116160,
    "master_playlist_url":
    "https://s2.cpl.delvenetworks.com/media/e235evb09d2de03d1
    e9/1168-1aba3c4dfce5e8982e6f71664d/ssd05.m3u8",
    "video_bitrate": 1200,
    "group": null,
    "video_codec": "H264",
    "audio_bitrate": 96,
    "audio_codec": "Aac",
    "primary_use": "HttpLiveStreaming"
  },
  {
    "width": 192,
    "height": 144,
    "file_url": null,
    "url":
    "rtsp://s2.cml.delvenetworks.com//1/media/fffb21e4816a24eb9
    bc5140d2cljb32db/951a29a8ddsdvfc42f5b50609/2268-1.3gp",
    "container_type": "ThreeGp",
    "size_in_bytes": 6644355,
    "master_playlist_url": null,
    "video_bitrate": 128,
    "group": null,
    "video_codec": "H263",
    "audio_bitrate": 64,
    "audio_codec": "Aac",
    "primary_use": "Mobile3gp"
  }
]
}
}

```

Tags

- **Get Tags**

Gets all system tags that the caller has access to or all tags associated with objects the user has access to.

- HTTP Method: GET

- Path:

/rest/brainier/tags?user_id=**user_id**&sort_column=**sort_column**&sort_order=**sort_order**&start_row=**start_row**&end_row=**end_row**

- Parameters:

user_id (URL Parameter)	If this argument is included the list of tags returned will only include those tags associated with learning objects the user has access to.	integer - Optional
sort_column (URL parameter)	Name of column that results will be sorted by. Most columns from example response below can be used here.	string - Optional
sort_order (URL parameter)	Order of sort column. Default order is ascending. Options: ASC, DESC	string - Optional
start_row (URL parameter)	Used for pagination. If defined, it limits results to rows greater than or equal to this number.	integer - Optional
end_row (URL parameter)	Used for pagination. If defined, it limits results to rows less than or equal to this number.	integer - Optional

- Success Response:

```
{
  MESSAGE: "",
  SUCCESS: true,
  DATA: [{
    "OWNER_GROUP_ID": 1,
    "TAG_ID": 2,
    "TAG_TYPE": "Subject",
    "TAG_NAME": "Business"
  },
  {
    "OWNER_GROUP_ID": 1,
    "TAG_ID": 3,
    "TAG_TYPE": "Subject",
    "TAG_NAME": "Business Strategy"
  },
  ...
]}
```

Bookmarks

- **Get Bookmarked Objects**

Gets all learning objects that the caller has created a bookmark for.

- HTTP Method: GET

- Path: /rest/brainier/bookmark

- Success Response:

```
{
  MESSAGE: "",
  SUCCESS: true,
  DATA: [{
    "AUTHOR_USER_ID":1371,
    "AVG_RATING": "",
    "OBJECT_TYPE_ID":20,
    "IS_EXTERN":0,
    "OBJECT_TYPE_NAME":"Document",
    "ICON_FILE_PATH":"https://cdn.brainier.com/_version/_img/icons/sample.png",
    "OBJECT_ASSIGNED_TS":"February, 01 2018 18:31:21",
    "URL": "",
    "AUTHOR_LAST_NAME":"Johnson",
    "OBJECT_ID":654,
    "AUTHOR_FIRST_NAME":"Andy ",
    "OBJECT_NAME":"Sample Document",
    "AUTHOR_FACULTY_ID": "",
    "AUTHOR_FULL_NAME":"Andy Johnson"},
    ...
  ]}
```

- **Create Bookmark**

This bookmarks an object for the user making the call.

- HTTP Method: POST

- Path: /rest/brainier/bookmark/**object_id**

- Parameters:

object_id (path Parameter)	Unique identifier of the object.	integer - Required
----------------------------	----------------------------------	--------------------

- Success Response:

```
{
  MESSAGE: "",
  SUCCESS: true,
  DATA: {}
}
```

- **Remove Bookmark**

This removes the bookmark for an object.

- HTTP Method: DELETE
- Path: /rest/brainier/bookmark/**object_id**
- Parameters:

object_id (path Parameter)	Unique identifier of the object.	integer - Required
----------------------------	----------------------------------	---------------------------

- Success Response:

```
{
  MESSAGE: "",
  SUCCESS: true,
  DATA: {}
}
```

Authors

- **Get Object Authors**

Gets all authors associated with a learning object.

- HTTP Method: GET
- Path: /rest/brainier/author/**object_id**
- Parameters:

object_id (path Parameter)	Unique identifier of the object.	integer - Required
----------------------------	----------------------------------	---------------------------

- Success Response:

```
{
  MESSAGE: "",
  SUCCESS: true,
  DATA: [{
    "BIOGRAPHY": "One of America's leading authorities on the development of human
    potential and personal effectiveness...",
    "AVG_RATING": 4,
    "OBJECT_TYPE_ID": 1,
    "WEB_SITE": "",
    "OBJECT_TYPE_NAME": "Course",
    "ORGANIZATION_NAME": "",
    "USER_ID": "",
    "EMAIL": "jsmith@example.com",
    "ICON_FILE_PATH": "https://cdn.brainier.com/_version/_img/icons/sample.png",
    "LAST_NAME": "Smith",
    "DISPLAY_TITLE": "Faculty",
    "FIRST_NAME": "John",
    "AVATAR_FILENAME": "",
    "OBJECT_ID": 1,
  ]
}
```

```

"OBJECT_NAME":"The Secrets of Success",
"AUTHOR_NO":1,
"FACULTY_ID":1,
"SORT_NO":1,
"DURATION":"00:24:01"},

```

```

...
}}

```

- **Get All Object Authors**

Gets all authors the caller has access to (as long as the author is associated with an object the caller has access to).

- HTTP Method: GET

- Path: /rest/brainier/author

- Success Response:

```

{
  MESSAGE: "",
  SUCCESS: true,
  DATA: [{
    "BIOGRAPHY":"One of America's leading authorities on the development of human
    potential and personal effectiveness...",
    "WEB_SITE": "",
    "ORGANIZATION_NAME": "",
    "FACULTY_ID": 1,
    "USER_ID": "",
    "AUTHOR_NAME": "John Smith",
    "EMAIL": "jsmith@example.com",
    "LAST_NAME": "Smith",
    "FIRST_NAME": "John"
  },
  {
    "BIOGRAPHY": "",
    "WEB_SITE": "https://www.example.com",
    "ORGANIZATION_NAME": "",
    "FACULTY_ID": "",
    "USER_ID": 5,
    "AUTHOR_NAME": "Mary Smith",
    "EMAIL": "",
    "LAST_NAME": "Smith",
    "FIRST_NAME": "Mary"
  },
  ...
}}

```

- **Get Objects By Author**

Gets all objects that have the specified user or faculty as an author.

- HTTP Method: GET

- Path: /rest/brainier/author/**author_id**?is_faculty=**is_faculty**
- Parameters:

author_id (path Parameter)	Unique identifier of the author. Either a user_id or faculty_id depending on the is_faculty parameter.	integer - Required
is_faculty (URL parameter)	Objects authors can be of two types - system user or faculty. If this argument is true the author_id is treated as a faculty_id. If false, it's treated as a user_id.	Boolean - Required

- Success Response:

```
{
  MESSAGE: "",
  SUCCESS: true,
  DATA: [{
    "BIOGRAPHY": "",
    "AVG_RATING": 4,
    "OBJECT_TYPE_ID": 20,
    "WEB_SITE": "",
    "OBJECT_TYPE_NAME": "Document",
    "ORGANIZATION_NAME": "",
    "USER_ID": 5,
    "EMAIL": "",
    "ICON_FILE_PATH": "https://cdn.brainier.com/_version/_img/icons/sample.png",
    "LAST_NAME": "Smith",
    "DISPLAY_TITLE": "User",
    "FIRST_NAME": "Mary",

    "AVATAR_FILENAME": "https://cdn.brainier.com/012/avatars/5/237DFS7-47D7-B8D-F0A390529AEBBD23.png",
    "OBJECT_ID": 2826,
    "OBJECT_NAME": "Brainier System Requirements",
    "AUTHOR_NO": 1,
    "FACULTY_ID": "",
    "SORT_NO": 1,
    "DURATION": ""},
    ...
  ]}
```