

Open Elms API Calls v9

featuring Open Elms Creator and Open Elms LMS

User Guide

by e-Learning WMB Ltd

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1 About the OPEN ELMS API

The Open Elms API is a RESTful web service and uses token authenticate 3rd party applications. Before starting to use the Open ELMS API you will need to contact support@e-learningwmb.co.uk to obtain a key in order to access this service.

The API enables third party applications to control Open Elms features by communicating between the systems.

The API can be used for a variety of purposes such as the management of users (add/remove/delete), assigning user to learning resources and listing learning resources in the system.

2 Response Codes

Codes summary

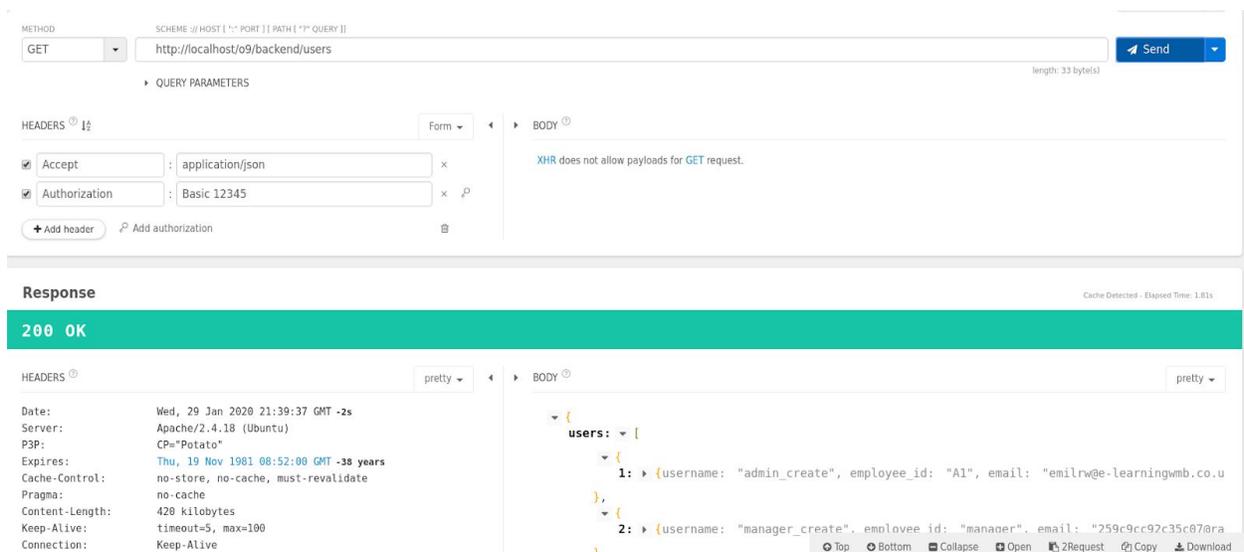
A summary of HTTP Response Codes returned by the Xero API is shown below.

HTTP Code	Summary	Description
200	OK	Successful API call.
400	Bad Request	A validation exception has occurred.
401	Unauthorized	Invalid authorization credentials.
404	Not Found	The resource you have specified cannot be found
412	Precondition Failed	One or more conditions given in the request header fields were invalid.
500	Internal Error	An unhandled error. Contact the Open Elms team if problems persist
501	Not Implemented	The method you have called has not been implemented (e.g. POST Organisation)
503	Rate Limit Exceeded	The API rate limit for your organisation/application pairing has been exceeded.

503	Not Available	API is currently unavailable – typically due to a scheduled outage – try again soon.
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3 Authentication

Access is controlled is token based. The value of the token is configured in Open LMS at System Setup/Defaults/Configuration/APITokenAccess. When calling the API, you need to pass the token value in an HTTP “Authorization” header - the value of the header should be “Basic #####”, where ##### is the value of the APITokenAccess configuration option (see screenshot below). A 403 (Forbidden) error will be thrown if authentication fails. Below is a screenshot of a REST API which is used to invoke the API.



An example of calling the API with a REST client. The value of the token ('12345') is given in the HTTP Authorization header.

4 REST Services

4.1. Users

4.1.1 List user accounts

URL `https://openlms.e-learningwmb.co.uk/{SITE_ID}/backend/users/{USER_ID}`

Method GET

Description Retrieves a list of user accounts. **{USER_ID}** is optional - if given, then only the details of the specified account are returned.

Return value A list of user accounts, including the following fields:

username	Username
employee_id	Employee ID
email	Email address
fname	First name
lname	Last name
country	Country record
city	City record
company	Company record
department	Department record
location	Location record
job	Job record
groups	A collection of group records
learning	A collection of learning resource records

4.1.2 Search user accounts

URL	<code>https://openelms.e-learningwmb.co.uk/{SITE_ID}/backend/users/?{FIELD_NAME1}={FIELD_VALUE1}&{FIELD_NAME2}={FIELD_VALUE2}..,</code>
Method	GET
Description	Retrieves a list of user accounts which match the given criteria. Currently, the following search fields are supported: fname, lname, username, usercode, email, company_id, department_id, country_id, city_id, location_id, group_id

4.1.3 Create new user accounts

URL	<code>https://openelms.e-learningwmb.co.uk/{SITE_ID}/backend/users/</code>
Method	POST
Description	Creates a new user account
Form Data	fname, lname, username, usercode, email, description
Return Value	User id

4.1.4 Update user accounts

URL	<code>https://openelms.e-learningwmb.co.uk/{SITE_ID}/backend/users/{USER_ID}</code>
Method	PUT
Description	Updates new user account
Form Data	fname, lname, username, usercode, email, country_id, city_id, department_id, location_id, company_id, description

4.2 Learning resources

4.2.1 List learning resources

URL	https://openelms.e-learningwmb.co.uk/{SITE_ID}/backend/learning/{LEARNING_ID}
Method	GET
Description	List available learning resources. {LEARNING_ID} is optional - if given, then only the details of the specified learning resource are returned. If the learning resource is a SCORM one, then its download link is also returned.
Return value	A list of learning resources, including learning id, name, learning type and an optional download link.

4.2.2 Download learning resources

URL	https://openelms.e-learningwmb.co.uk/{SITE_ID}/backend/learning/download/{LEARNING_ID}
Method	GET
Description	Downloads a SCORM learning resource. Not that this service only works for e-learning (i.e. SCORM) learning resources.
Return value	The SCORM files compressed in a single ZIP file.

4.3 Learning progress

4.3.1 Check learning progress

URL	https://openelms.e-learningwmb.co.uk/{SITE_ID}/backend/learning/{LEARNING_ID}/{USER_ID}
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Method	GET
Description	Returns the learning status of the given user for the given learning resource
Return value	JSON array containing the completion status ('not attempted', 'in progress' or 'completed') and numeric score (null if not completed) of the corresponding learning result

4.3.2 Update learning progress

URL	https://openelms.e-learningwmb.co.uk/{SITE_ID}/backend/learning/{LEARNING_ID}/{USER_ID}/{ACTION}/{SCORE}
Method	PUT
Description	Updates the learning status of the given user for the given course. There are two possible updates which are determined by the type of action. If action is 'start', then the learning resource is marked as 'in progress'. If the action is 'complete', then the resource is marked as 'complete'. The score is an optional numeric parameter, which is only used for 'complete'.