



# EON REALITY EON-XR PLATFORM

## LTI Integration Guide

**For EON-XR v9.4**

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## Overview

Learning Management Systems (LMSs), or sometimes called Virtual Learning Environments (VLEs) are common in many educational institutions. The LMS allows educators to create and deliver learning content, as well as manage and monitor student performance. Some common LMSs include [Moodle](#), [Canvas](#), [Brightspace](#), [Blackboard](#), etc.

LTI integration between EON-XR and your institution's LMS can help educators make use of the EON-XR platform easily. They will not have to use EON-XR in isolation. Instead, they can design courses that blend both learning materials within the LMS with lessons created in EON-XR.

By clicking on an LTI link within the LMS, a user (admin/teacher/student) can:

- Navigate to the EON-XR platform without logging in to EON-XR separately, or
- Navigate to specific lessons within the EON-XR platform (provided the LTI link to the direct lesson rather than the homepage of EON-XR).

This guide is meant for both LMS/EON-XR Admins and educators to set up the LTI integration. As there are many different LMSs in the market, the process **will not** be the same for each LMS. An example for Moodle LMS is shown in this guide.

*Please note that this guide is **not** meant to be comprehensive and cannot cover all LMSs. Your version of Moodle may also be different. Use the principles covered in this guide to help you in the integration process.*

There are two parts to the LTI integration:

1. LMS Admins first add EON-XR as an External Tool within the LMS site-wide (or at the sub-account level)
2. Educators then add the EON-XR external tool as a link within their courses, whether to link to the EON-XR homepage or to specific lessons

## Requirements

Admin access to EON-XR institution account

- For setting and accessing tool credentials

Admin/Faculty/Instructor (or equivalent) access to institution's Learning Management System (LMS)

- For adding external tool

## Supported LTI Standard

- LTI 1.1
- LTI 1.3

## Permission

You must allow EON-XR to obtain the following user information from your LMS:

- User's Email
  - *(if email is not provided then user accounts will be generated using [lms-userid]@[lms-domain]).*
- User's First and Last Name
- User's Roles

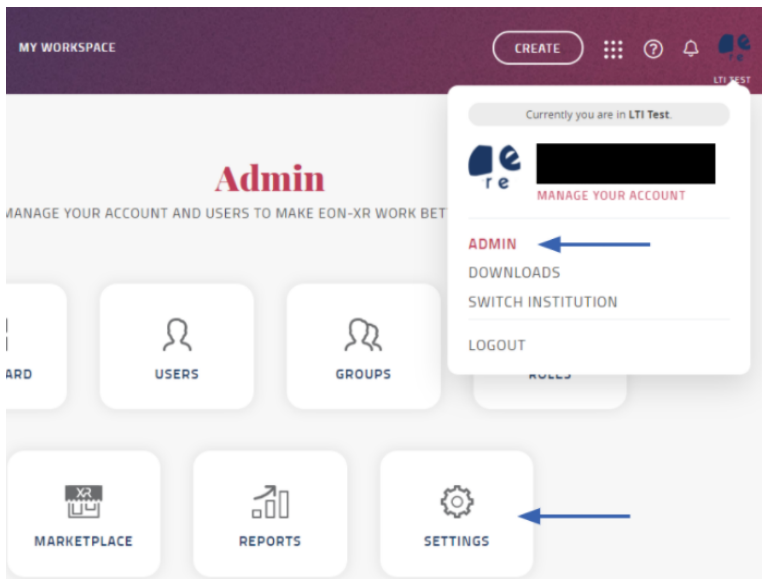
## EON-XR and LMS Admins

Your EON-XR and LMS Admins will be the ones to (1) generate the LTI credentials, and (2) add EON-XR as an External Tool in your LMS.

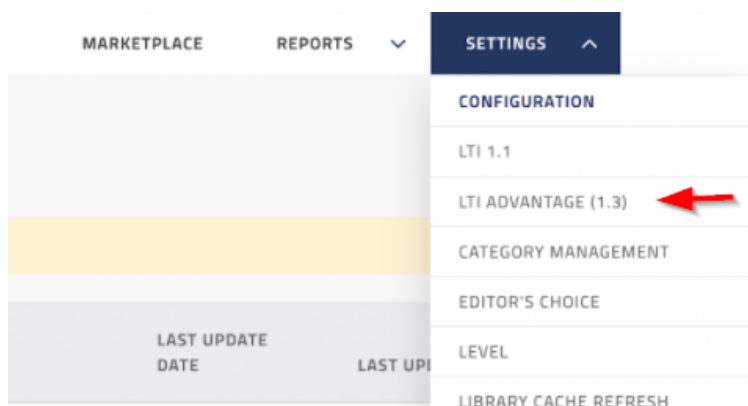
Clicking on an EON-XR external tool within your LMS will allow users to:

- If their email address is already enrolled in EON-XR, they will be logged in to EON-XR automatically without any change to their existing EON-XR role.
- If their email address **has not** been enrolled in EON-XR, EON-XR will create an account for the user using the email and name provided by your LMS. Their LMS role will also be used to map to an existing EON-XR role according to the Roles mapping in EON-XR (see instructions below).

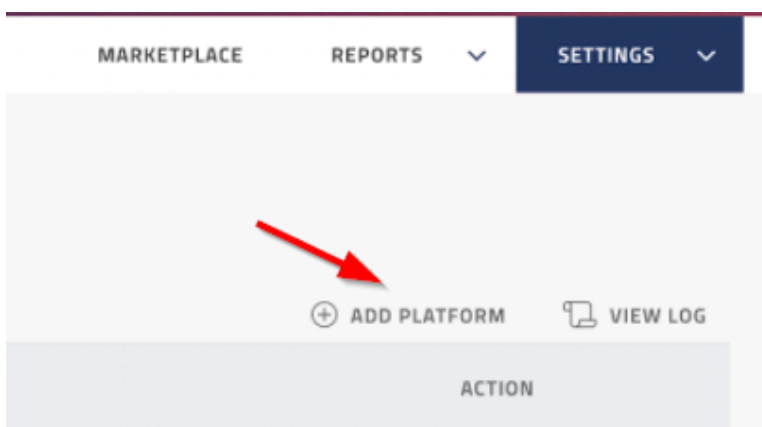
## ACCESSING LTI SETTINGS



1. In EON-XR, navigate to the Admin page. (If you do not have access to Admin rights you will not see this option)



2. Select Settings > LTI Advantage (1.3)



3. Click on "Add Platform", and type in the "Display name" (e.g. "Canvas").  
The rest of the information will be generated by the LMS in the next step below.

**TOOL SETTINGS**

Initiate Login URL

<https://core.eon-xr.com/LT113/Login>

Tool / Target / Redirect URI

<https://core.eon-xr.com/LT113/Launch>

Content Selection / Deep Link URL

<https://core.eon-xr.com/LT113/Launch>

JWK Keyset URL

<https://core.eon-xr.com/LT113/JWKS>

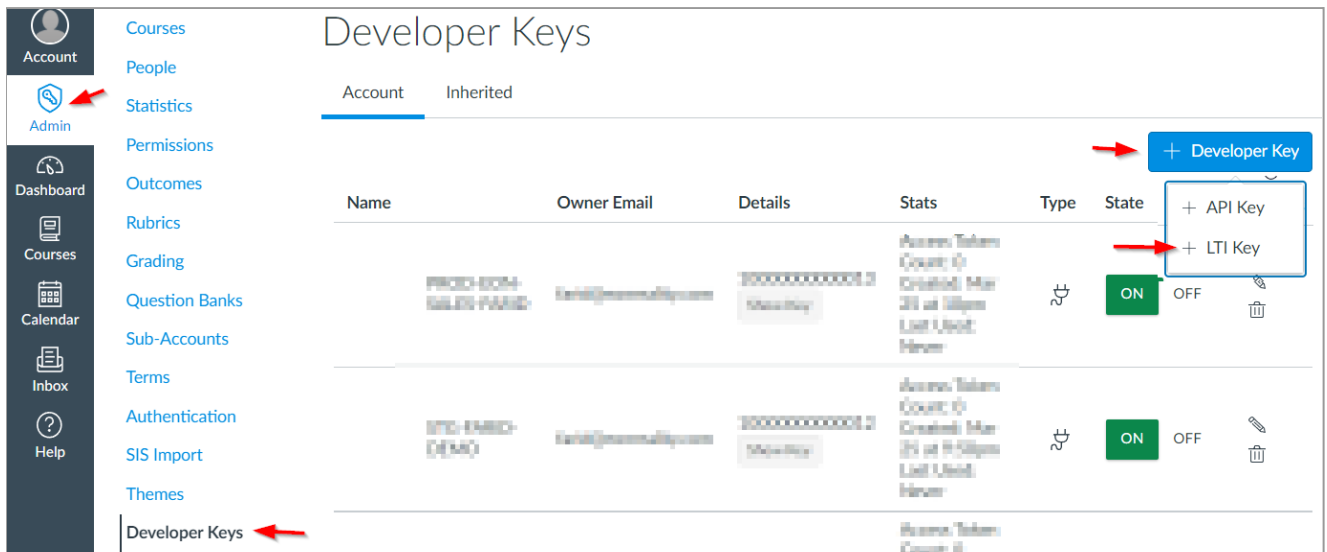
Client ID

4. Leave this page running, as you will need to copy this information on to your LMS in the next few steps.

Next, login to the LMS using an Admin account.

# CANVAS Integration

1. Navigate to Admin > Developer Keys > and add a new "LTI Key".



2. You will see the "configure" page, proceed to fill in the information from EON-XR LTI Advantage platform page. (Use the the table below as a guide to fill in this page)

Key Name:

Owner Email:

\* Redirect URIs:

Notes:

### Configure

Method  
Manual Entry

Required Values

\* Title

\* Description

\* Target Link URI

\* OpenID Connect Initiation Url

\* JWK Method  
Public JWK URL

Public JWK URL

Field name	Action
Key Name	Any name you like (e.g. EON-XR)
Owner Email	Your email address

Redirect URIs	Paste " <u>Tool / Target / Redirect URI</u> " (from EON-XR LTI settings page)
Notes	Optional can be empty
Title	Any name you like (e.g. EON-XR)
Description	Optional can be empty
Target Link URI	Paste " <u>Tool / Target / Redirect URI</u> " (from EON-XR LTI settings page)
OpenID Connect Initiation Url	Paste " <u>Initiate Login URL</u> " (from EON-XR LTI settings page)
JWK method	Paste " <u>Public JWK URL</u> " (from EON-XR LTI settings page)
Public JWK URL	Paste " <u>JWK Keyset URL</u> " (from EON-XR LTI settings page)

3. Click on "LTI Advantage Services" to expand it and enable the following item as shown in the image below:-

!

Services must be supported by the tool in order to work. Check with your Tool Vendor to ensure service capabilities.

✓

Can create and view assignment data in the gradebook associated with the tool.

✓

Can view assignment data in the gradebook associated with the tool.

✓

Can view submission data for assignments associated with the tool.

✓

Can create and update submission results for assignments associated with the tool.

✗

Can retrieve user data associated with the context the tool is installed in.

✓

Can update public jwk for LTI services.

✗

Can lookup Account information

✗

Can create subscription to data service data.







## Edit Platform

### PLATFORM SETTINGS

Display Name

core.eon.xr

Issuer

https://canvas.instructure.com

JWK Keyset URL

https://canvas.instructure.com/api/lti/security/jwks

Access Token URL

https://canvas.instructure.com/login/oauth2/token

Authorization URL

https://canvas.instructure.com/api/lti/authorize\_redirect

### TOOL SETTINGS

Initiate Login URL

https://core.eon-xr.com/LT113/Login

Tool / Target / Redirect URI

https://core.eon-xr.com/LT113/Launch

Content Selection / Deep Link URL

https://core.eon-xr.com/LT113/Launch

JWK Keyset URL

https://core.eon-xr.com/LT113/JWKS

Client ID

1001001001001001

SAVE

10. From the previous step, paste the "Client ID" (from the Developer Keys page.) Next fill in the following:-

Issuer:	<a href="https://canvas.instructure.com">https://canvas.instructure.com</a>
JWK set URL:	https://{your-canvas-domain}/api/lti/security/jwks
Access Token URL:	https://{your-canvas-domain}/login/oauth2/token
Authorization URL:	https://{your-canvas-domain}/api/lti/authorize_redirect

Then click on save.

## DEPLOYMENTS

DEPLOYMENTID

ACTION

input deploymentId here

+

11. Go to the 'Deployments' section and paste the 'DeploymentID'. Which was from the previous step (in canvas)

## ROLES

PLATFORM ROLE

EON-XR ROLE

ACTION

Instructor

Teacher

🗑️

Student

Student

🗑️

input role here

Teacher

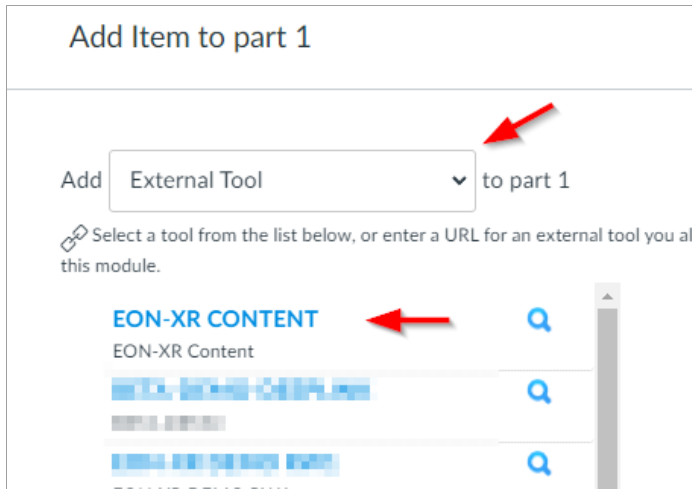
+

DELETE

DONE

12. You will need to map the canvas roles to EON-XR. See the image on the left for the recommended roles setup.

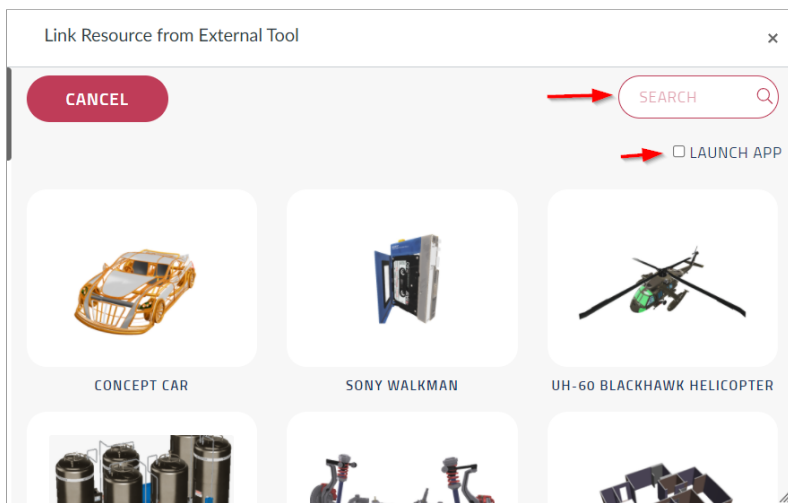
After finished adding, click on "Done"



13. To validate the LTI setup, in canvas, edit a course. Next click on 'Modules' > "Add item" and select 'External Tool'.

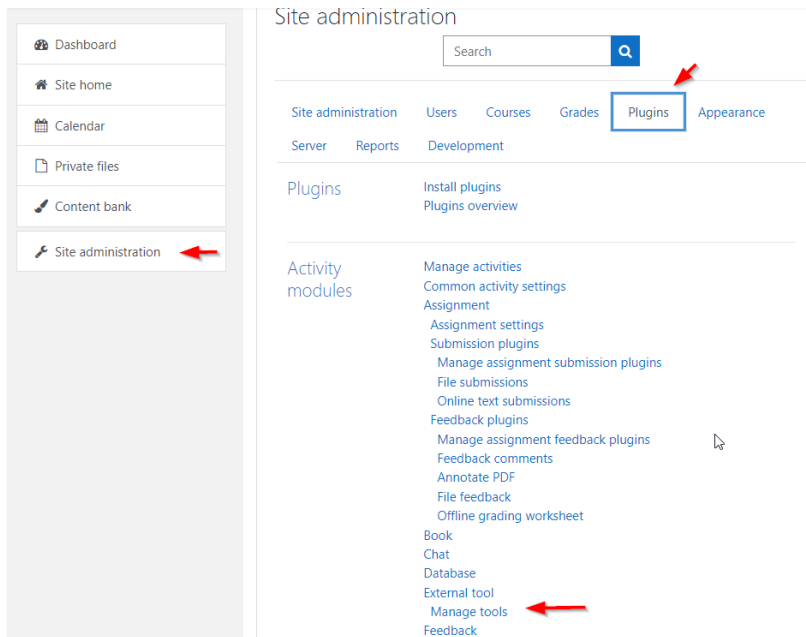
You will see a list of LTI tools, locate 'EON-XR Content' and click on it.

A pop up will show with the list of 3D or 360 Lesson from the Library



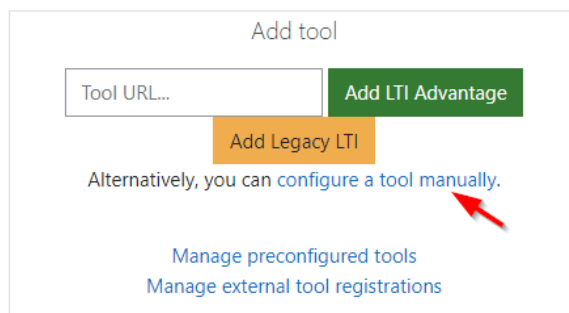
14. Click on any of the lessons to add it to your course, or you can use the "search" function to search for your unpublished lessons. If "Launch App" is checked, it will immediately launch the lesson without showing the lesson details page.

# MOODLE Integration



1. Navigate to Site Admin > Plugins > Activity modules > Manage tools

## Manage tools



2. Click on "configure a tool manually"

### ▼ Tool settings

► Expand all

Tool name ?

Tool URL ?

Tool description ?

LTI version ?

Public key type ?

Public keyset ?

Initiate login URL ?

Redirection URI(s) ?

Custom parameters ?

Tool configuration usage ?

3. You will see the “Tool settings” page, proceed to fill in the information from the “EON-XR LTI Advantage” platform page. (Use the table below as a guide to fill in this page)

Field name	Action
Tool name	Any name you like (recommended: “EON-XR Content”)
Tool URL	Paste “ <u>Tool / Target / Redirect URI</u> ” (from EON-XR LTI settings page)
Description	Optional can be empty
LTI Version	LTI 1.3
Public key type	Keyset URL
Public keyset	Paste “ <u>JWK Keyset URL</u> ” (from EON-XR LTI settings page)
Initiate login URL	Paste “ <u>Initiate Login URL</u> ” (from EON-XR LTI settings page)
Redirection URI(s)	Paste “ <u>Tool / Target / Redirect URI</u> ” (from EON-XR LTI settings page)
Tool configuration usage	“Show as preconfigured tool when adding an external tool” (Recommended)
Default launch container	New Window
Deep Linking	To check “ Supports Deep Linking (Content-Item Message)”
Content Selection URL	Paste “ <u>Content Selection / Deep Link URL</u> ” (from EON-XR LTI settings page)

## Services

IMS LTI Assignment and Grade Services ? Use this service for grade sync only ⌵

IMS LTI Names and Role Provisioning ? Do not use this service ⌵

Tool Settings ? Do not use this service ⌵

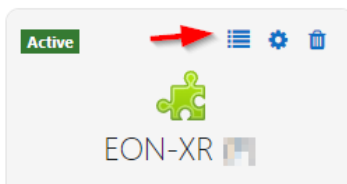
## Privacy

Share launcher's name with tool ? Always ⌵

Share launcher's email with tool ? Always ⌵

Accept grades from the tool ? Always

☐ Force SSL ?



### Tool configuration details

- **Platform ID:** https://eon-xr.com
- **Client ID:** Vjg...XyX
- **Deployment ID:** 16
- **Public keyset URL:** https://eon-xr.com/mod/lti/certs.php
- **Access token URL:** https://eon-xr.com/mod/lti/token.php
- **Authentication request URL:** https://eon-xr.com/mod/lti/auth.php

- Expand 'Services' section and set 'IMS LTI Assignment and Grade Services' to 'Use this service for grade sync only'. This will enable the grades sync from EON-XR to LMS.

- Set "share launcher's name and email" to "always", to allow users name and email to be sent to EON-XR.

*(If the email already exists on EON-XR that user will be logged in. If the email does not already exist, an account will be created with that email. If "always" is not selected, users' accounts will be generated using [moodle userid]@[moodle domain].)*

- Click on "Save changes"

- In the 'Manage Tools' page, look for the EON-XR Tool that has been added and click the "View Config" icon.

- Use the details here to update the LTI setting in EON-XR LTI page

Moodle	EON-XR
Platform ID	Issuer
Client ID	Client ID
Deployment ID	Deployment ID
Public keyset URL	JWK Keyset URL
Access token URL	Access Token URL
Authentication request URL	Authorization URL

**ROLES**

PLATFORM ROLE ?	EON-XR ROLE ?	ACTION
Instructor	Teacher	
Learner	Student	
input role here	Teacher	

**DELETE** **DONE**

9. You will need to map the canvas roles to EON-XR. See the image on the left for the recommended roles setup.

After finished adding, click on "Done"

▼ **General**

Activity name

Show more...

Preconfigured tool

Tool URL

10. To validate the LTI setup, edit a course, then click on "Add an activity" and select 'External Tool'.

11. Select 'EON-XR' under "Preconfigured tool" and click on "Select Content"

A pop up will show with the list of 3D or 360 Lesson from the Library

Link Resource from External Tool

**CANCEL**

**LAUNCH APP**

CONCEPT CAR

SONY WALKMAN

UH-60 BLACKHAWK HELICOPTER

12. Click on any of the lessons to add it to your course, or you can use the "search" function to search for your unpublished lessons. If "Launch App" is checked, it will immediately launch the lesson without showing the lesson details page.



## BLACKBOARD Integration

### ADD EXTERNAL TOOL WITH A CLIENT ID

1. In Blackboard, add a new tool with the client Id 10ee96d7-25f4-465d-a8b0-d93abbc632e6
2. In EON-XR > Admin > Settings > LTI Advantage (1.3) add a new platform with the following parameters. Refer to Setup for additional help accessing the EON-XR settings page.

Client Id	10ee96d7-25f4-465d-a8b0-d93abbc632e6
Issuer	https://blackboard.com
JWK Keyset URL	https://developer.blackboard.com/api/v1/management/applications/10ee96d7-25f4-465d-a8b0-d93abbc632e6/jwks.json
Access Token URL	https://developer.blackboard.com/api/v1/gateway/oauth2/jwttoken
Authorization URL	https://developer.blackboard.com/api/v1/gateway/oidcauth

3. Blackboard will generate a Deployment Id, you must add this to the EON-XR LTI Advantage (1.3) settings page.

### MANAGE PLACEMENTS

1. To use the tool within Blackboard, add placement and refer to the EON-XR LTI Advantage (1.3) settings page for target/redirect and deep link URL.
2. If you wish to enable content selection, create a placement that uses deep linking.