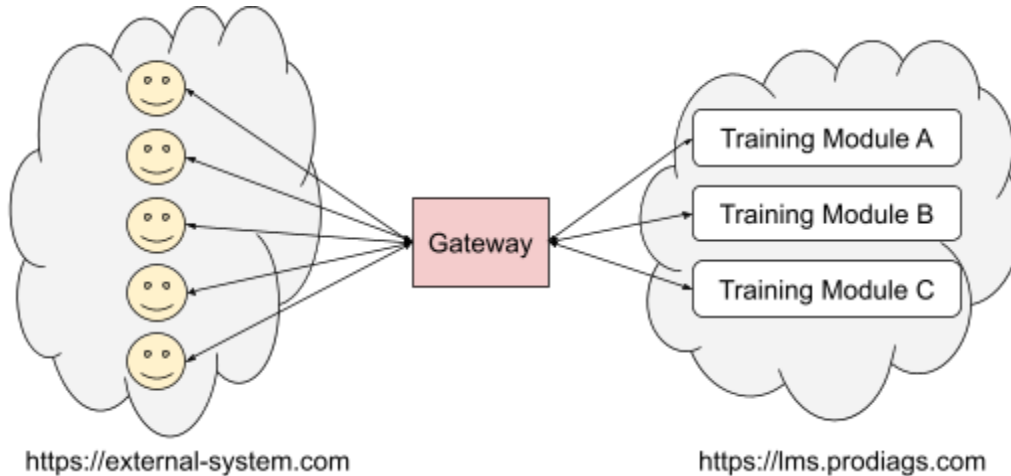


Prodiags Gateway - LTI 1.3



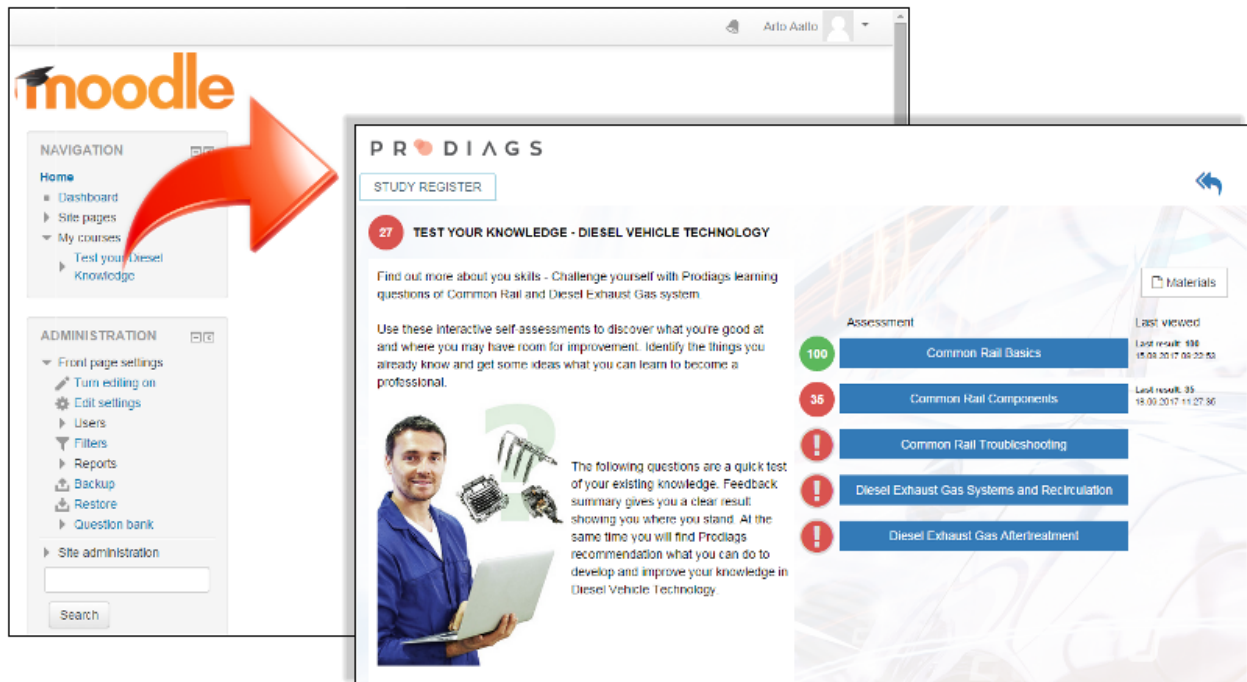
Prodiags Gateway is an extension based on the Learning Tools Interoperability (LTI) standard. It allows the student to access Prodiags Training Modules from an External System without login. The External System can be, for example, Moodle.

The Prodiags Gateway API is implemented customized in collaboration with the customer.

Requirements

- In an External System, users are identified by a personal email address.
- You have a Prodiags Training Environment and a Admin role.
- The External System what you use to user management is LTI 1.3 compatible.
- You have the necessary access to install the LTI Tool on your External System.

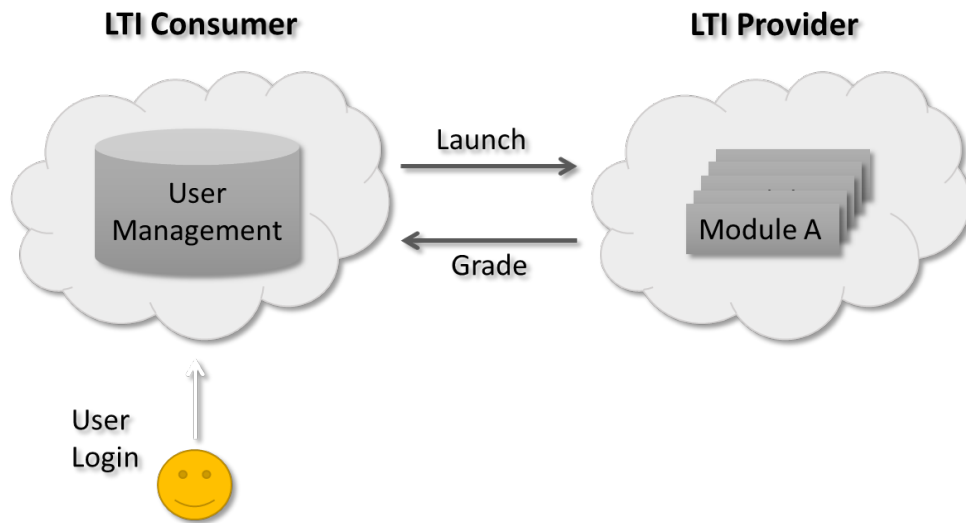
Principle



- When the user launch Prodiags module from the External System, The gateway opens the main view of the module. A separate login is not necessary.
- When the user close the use of the module, the total result of the module is sent to the External System.
- Each Prodiags Training Module is managed separately. Navigation between modules is disabled during Gateway use.
- Result data is also stored in the Prodiags Training Environment. This ensures that results are not lost if the user closes the browser before sending data to the external system. If this happens, the data will be synchronized next session.

Installation

The system used to manage users is called LTI Consumer and the system that distributes content is called LTI Provider. Prodiags LMS supports LTI use in both directions.



Options for configuring Prodiags LMS as an LTI provider

- LTI 1.3 Advantage
 - The newest and easiest configuration method
 - See Chapter: LTI 1.3 Advantage in Moodle
- LTI 1.3
 - Modern and widely supported
 - See Chapter: Prodiags Gateway LTI 1.3 - Manual Configuration
- LTI 1.0/1.1
 - Old fashioned and the development has been stopped

Typical configuration workflow

- STEP 1 - Pairing of LTI consumer and LTI provider
 - This is done in cooperation with system admins and Prodiags Support
 - Includes functional inspection by a special test module
- STEP 2 - Configuration of module-specific launchers
 - In LTI 1.3 versions, this is done through an easy graphical user interface.
 - In general, teacher access are sufficient to create LTI launchers.

LTI 1.3 Advantage in Moodle

Moodle 4.1 or later is recommended

Delivery

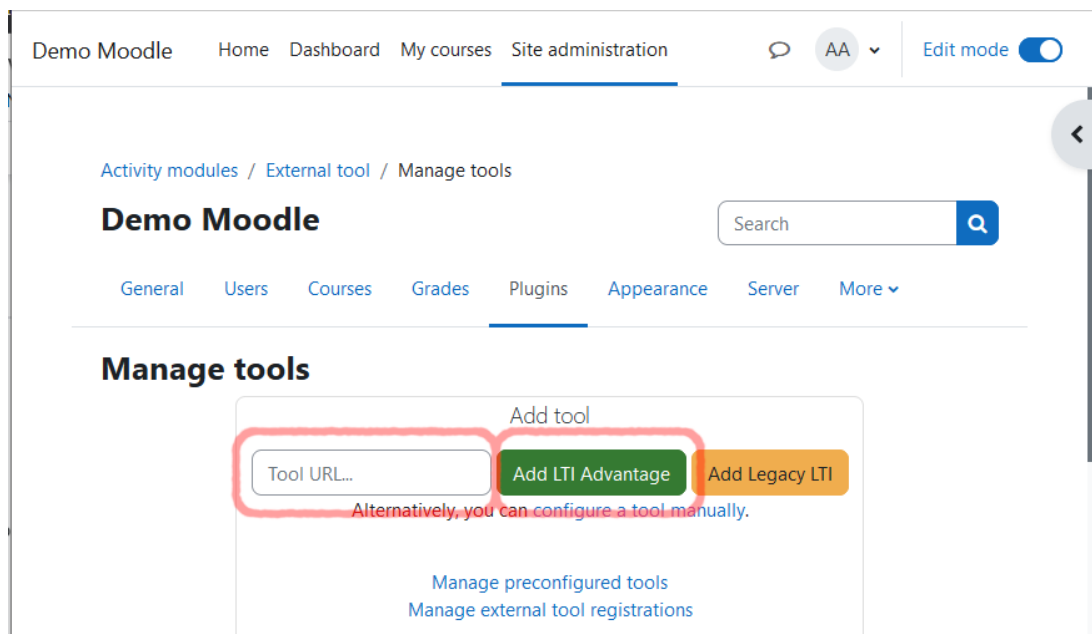
After ordering, Prodiags Support prepares your Prodiags LMS to function as an LTI Provider (delivery time 1 ... 2 working days).

We will send a confirmation to the contact when the installation to Moodle can start.

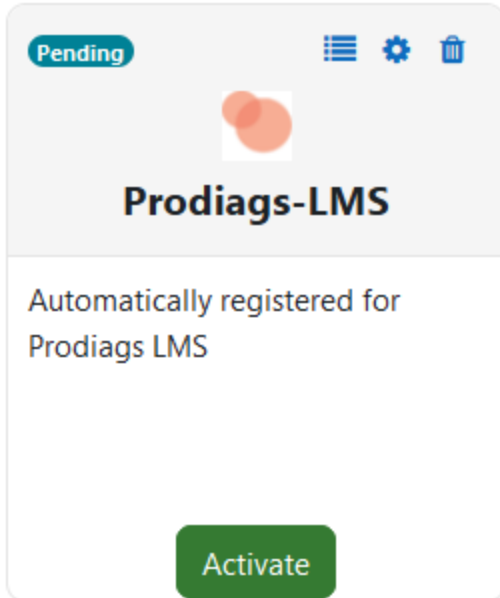
Prodiags Support will send you a URL that contains the LTI Consumer key that identifies your Prodiags Training Environment (like <https://lms.prodiags.eu/lti/config.php?xxxxxxxxxxx>).

External Tool Configuration (by Moodle Admin)

If you have several Prodiags environments in use, you must do this for each one separately.



Prodiags Support will send you a URL that contains the LTI Consumer key that identifies your Prodiags Training Environment (like <https://lms.prodiags.eu/lti/config.php?xxxxxxxxxxx>). Copy and paste this URL into the Tool URL box and click Add LTI Advantage.




Automatic registration names the tool as Prodiags-LMS by default. If you need to register several different Prodiags environments, rename the tools to avoid confusion.


If your system does not support the automatic configuration of LTI Tool, see chapter: Prodiags Gateway LTI 1.3 - Manual Configuration.

▼ **Privacy**


Share launcher's name with tool


 Always ⇅

Share launcher's email with tool

 Always ⇅

Accept grades from the tool

 As specified in Deep Linking definition or Delegate to teacher ⇅

Force SSL 

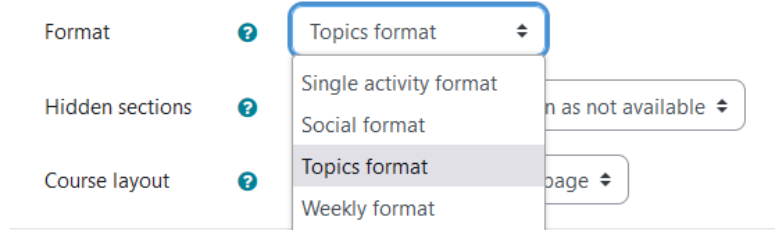
Check the privacy settings of the created tool. Prodiags reports and printable certificates require that the launcher's name and email are shared.

Finally, publish the External Tool to the Course Creators by clicking **Activate**.

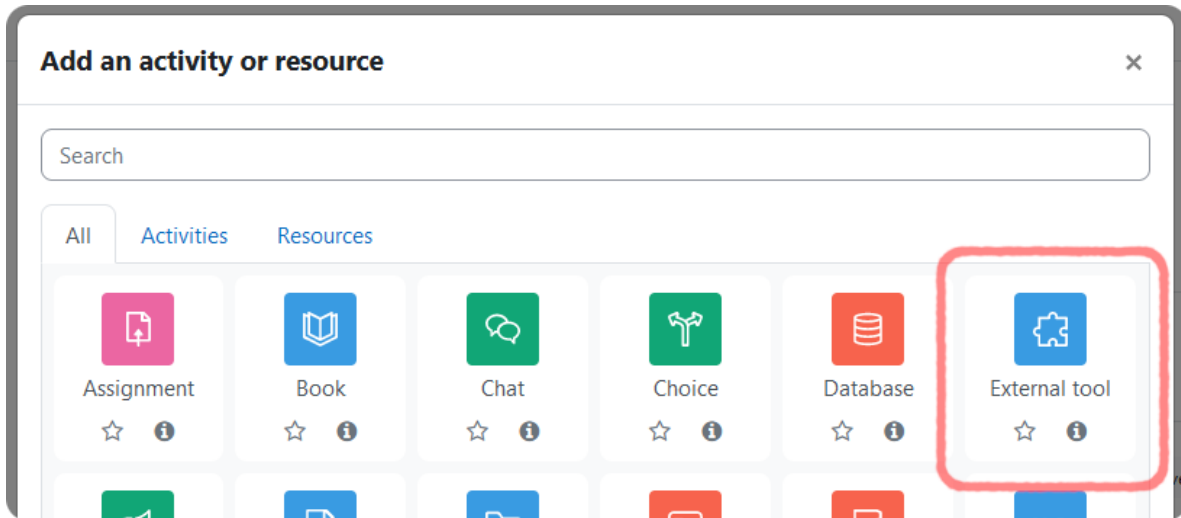
Setup - Course (by Moodle Course Creator)

Create new or edit a course and install the Prodiags Module in Moodle as an activity.

▼ Course format




You can use Single activity format or Topics format.




Select External tool as the type of activity.



✚ Adding a new External tool

▼ General

Activity name 

Show more...

Preconfigured tool 




Automatic, based on tool URL ▾ +  


Automatic, based on tool URL

Prodiags-LMS

Select Prodiags-LMS or the renamed External Tool configuration.

Show more...

Preconfigured tool  Prodiags-LMS ▾ +  

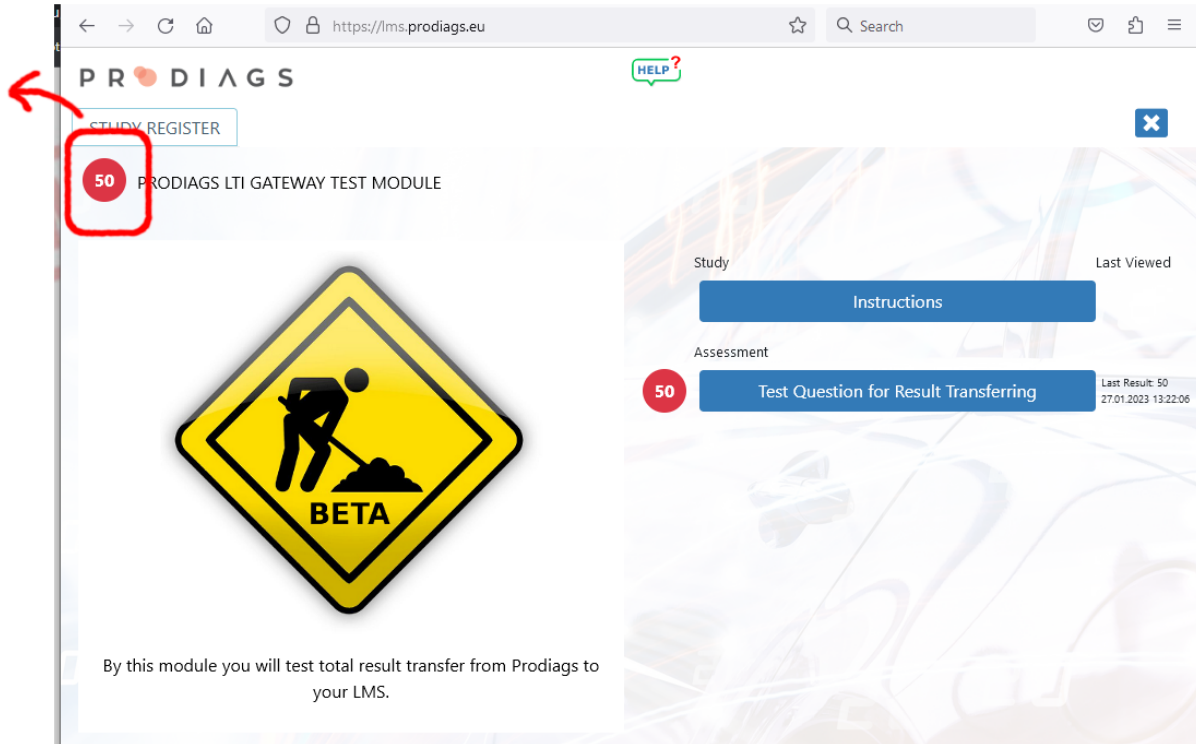
Select content 

Select content ×

Module title	Licences
<input type="radio"/> Hybrid & Electric Vehicle Technology	10
<input type="radio"/> Tyres, Rims and Tyre Work	1
<input type="radio"/> Prodiags LTI Gateway Test Module	
<input type="radio"/> Workshop Safety	8
<input type="radio"/> Automotive Electrical Troubleshooting Basics	15

Select the Prodiags Module from which you are making the activity.

Tip: A special free module is available for system testing and troubleshooting.



Prodiags sends the numerical value of the total result of the module via LTI every time the user returns to Moodle.

There are several different settings in Moodle that you can use to influence how the Prodiags Module is launched and graded. You can find more detailed information in the Moodle instructions.

A tip from experience:

When using the Single activity format, some Moodle versions have a bug that can cause a loop when a user returns from LTI activity. The problem can be avoided by forcing the LTI activity to open in a new window.

Prodiags Gateway LTI 1.3 - Manual Configuration

If the LTI Advanced configuration is not successful, a manual option can be used.
Create the LTI Tool with the following parameters.

LTI Version: LTI 1.3
 Tool URL: <https://lms.prodiags.eu/lti/>
 Public key type: Keyset URL
 Public keyset: <https://lms.prodiags.eu/lti/jwks.php>
 Initiate login URL: <https://lms.prodiags.eu/lti/login.php>
 Redirection URI: <https://lms.prodiags.eu/lti/launch.php>
 Tool configuration usage: Show as preconfigured tool when adding an external tool
 Default launch container: New window or Existing Window
 Supports Deep Linking: Selected
 Content Selection URL: <https://lms.prodiags.eu/lti/content.php>
 Icon URL: <https://lms.prodiags.eu/favicon-32x32.png>
 IMS LTI Names and Role Provisioning: Use this service to retrieve members' information as per privacy settings
 Share launcher's name with tool: Always
 Share launcher's email with tool: Always
 Accept grades from the tool: Always
 Force SSL: Selected

Send the following parameters of the generated LTI tool to Prodiags support.

Platform ID:
 Client ID:
 Deployment ID:
 Public keyset URL:
 Access token URL:
 Authentication request URL: