

Integration package for 3rd party systems in L²P 2013

System/Application Registration with CiL and IT Center

External systems which are developed from RWTH affiliated institutions have the opportunity to be seamlessly integrated into the new L²P via an iFrame solution.

Before you can start developing your app for RWTH Aachen University you have to register as a developer. We need the following information to register you as a developer:

- Contact information including name and email address.
- Relationship with RWTH Aachen.
- Working title of your application.
- Short description of your app (Couple of sentences is enough).

Please send your information to CiL at info@cil.rwth-aachen.de and we will supply you with all additional information needed.

After registering with us, CiL will contact the IT Center and as a result you will receive an app key and integration package starter's information about authentication. This key is used to identify your app when communicating to the different information services at RWTH Aachen. The app key is only intended for your app and it should not be passed to anyone else. Place the app key at a safe place and handle it with special care e.g. do not upload it to publicly visible source code repositories. Also please use your app key only for one app. If you are developing multiple apps we will gladly issue multiple app keys to you.

The starter package includes technical documentation with practical tips how to implement OAuth authentication. This documentation provides an overview of the technical infrastructure, the authentication procedure, and communication between the different applications and services. There exists sample code with tutorials (Android/Java, Windows/Visual Studio, more on the way). They are provided in section 5, and they will be provided again in the process.

L²P 2013 External API Update

The L²P 2013 External API will be updated to recognize the external application, and therefore serve an authentication token. If additional info is needed from L²P, it can be provided with the token. Section 4 provides detailed information how to get additional information with the L²P token.

Integration in L²P 2013

Requirements:

- The system is a web application/web site that runs on HTTPS. L²P 2013 runs on HTTPS, and embedding HTTP content in HTTPS is not recommended.
- The system should follow the Course room/Learning room paradigm. This means, the users inside a course room (Professors, teaching assistants, tutors, and students), should be the only ones who have access to this dedicated space on the third party system. If there are exceptions to this concept due to the nature of the system itself, they have to be mentioned, discussed, and approved.

- The system should have a parsing mechanism that will interpret and understand the contents of the ticket.
 - Understand who is the user (the access token provides information to identify the user)
 - The course room from where this comes from
 - The role of the user that tries to log in
- Then, the third party system should log in the user automatically (the person using L²P will seamlessly use the third party system as well.)
- Handle specific cases:
 - When a new user is added to the course room in L²P
 - Create user in the third party system as well
 - When a user is deleted from the L²P course room
 - Depends on the third party system the user should also be removed
- Provide a URL that will be embedded into an iFrame (over https)
- Provide a suitable entry (both in English and German) and direction in which group of the left navigation the application/system belongs. The choices are: Organization, Information, Learning Materials, Assessment, Collaboration, and Other.
- (Optional) Modify the user interface of the third party system so it fits better with the L²P color scheme and RWTH Corporate design.

Provided by CiL:

- Fast integration.
 - Your system as-is is added to a demo course room in L²P to provide quick overview and get the look and feel of the integrated system.
- Administration Tools
 - After Single Sign On is implemented with the access_token, an administration tool will be provided to the user. This way, the person responsible for this third party system can integrate the system in every course room by his choice
- Support and guidance
 - Step-by-step explanation and guidance about L²P, integration, web services, documentation

[Data Privacy Office Registration and Guidance](#)

When the third party system is integrated in L²P, you are officially a service provider, and students will use your system and may require support. At the same time you are handling sensitive and personal data. Therefore, you must register your system with the Data Privacy Office of RWTH Aachen University. We will provide you a registration form, and submit it for you for processing and review with the data privacy officer.

As mentioned in section 2, additional information can be provided with the token. This special case (additional information) will be discussed with DSB (Data Privacy Officer of RWTH Aachen). Additional information will be provided, when there are no objections from DSB, CiL, and IT Center.

If this requested information is concerning personal and sensitive information (Matriculation number, address, field of study, gender, etc.), it will not be provided. In order to get access to this information, a special process with the Data Privacy Officer has to be started. If necessary, we can also provide support and guidance for this scenario.

Resources

[OAuth Documentation](#)

[L²P 2013 API Documentation](#)

[L²P 2013 External API](#)