

## 1. Introduction

Plugin version: 1.0

Compatibility: From Moodle 2.7.2

The IntraLibrary Moodle Plugin set is designed to provide a quick and easy-to-use link between the Moodle e-learning platform and the IntraLibrary resource management system.

This is a bidirectional link which means users can access content of the IntraLibrary or upload their own resources through Moodle.

Since the owners of the Moodle instance and the owners of the intraLibrary may be the same or different there are a number of different ways the products can be linked - this depends on the settings for authentication method.

## 2. Preparation

### 2.1 Software Requirements:

There is no need to install any other software on the Moodle server in addition to those which Moodle originally requires.

### 2.2 IntraLibrary Settings

The plugin requires no special settings in IntraLibrary but it is recommended that intraLibrary's package navigation is switched off for collections to be used through Moodle:.

#### Package Navigation

Make sure the "*Show Package Navigation*" option is disabled on the properties page of the collections which will be searchable from the plugin, otherwise the inserted link will not reference to the resource directly.

### 2.3 Authentication Considerations

There are three different options for user authentication, each require different configuration in intraLibrary.

- **Open IntraLibrary**

This option does not require any user authentication, external search access must be set on all collections which are desired to be accessible from Moodle. Note also that collections protected by authentication tokens will not be included in searches even if they are set to be accessible for external searching.

This option would be ideal if the intraLibrary repository is not owned by the same organisation as the Moodle instance, for example if the intraLibrary is a national or international open service.

- **Open IntraLibrary with Authentication Token**

In addition to the settings of the “Open IntraLibrary” authentication method, an authentication token must be created and the collections which will be searchable must be assigned to that token.

To do this, navigate to “*Admin / Collections / Manage collection tokens*” menu. Any strings can be used as a token but it is strongly advised to use an MD5 string or other hashes.

This option would be ideal if the intraLibrary is owned by the organisation running Moodle or by a collaborating organisation (trusted to share authentication tokens) but the two systems do not share the same authentication system.

- **Single sign-on (SSO)**

The most powerful integration is possible when both intraLibrary and Moodle share the same authentication system.

It is essential to use/create an SSO .php class to use this method, an example implementation is included to the ARCHIVE/PACKAGE in the “resources” folder. To get more information about the implementation, see the “SSO Class” section below. This option offers the greatest control over the integration but requires that both systems share the same authentication service. This is the only option through which uploaded resources are owned by the Moodle user.

### 3. Installation and Configuration

Please note, the IntraLibrary Moodle Plugin consists of five sub-plugins which depend on each other. The installation must be done in the described order below in order to avoid any problems or runtime errors.

#### 3.1 Installation Path

Once all the configuration is done in the IntraLibrary, copy the content of the ARCHIVE/FOLDER to the *moodle root* folder. Having all the files copied to the proper place, log in to Moodle as the system administrator and navigate to the front page.

A notification should be displayed about the plugins copied to Moodle directory. If there is no error message, click continue to install the plugins to the database.

Go to the Repository Plugin Manager (*Site administration / Plugins / Repositories / Manage repositories*) and turn on the plugins strictly in the following sequence.

### 3.2 IntraLibrary Plugin (“*repository\_intralibrary*”)

This plugin is used to enable searching of intraLibrary from Moodle.

- **IntraLibrary URL:**

Address of the IntraLibrary installation that will be used with Moodle. (e.g. <http://www.intralibrary.com>)

- **IntraLibrary Admin Username:**

Username of the IntraLibrary administrator user (e.g. “intrallect”).

- **IntraLibrary Admin Password:**

Password of the IntraLibrary administrator user.

- **User authentication Method:**

Select the authentication method that you prepared IntraLibrary for.

At this point, it is advised to click on the **Save** button to fill the next fields with the dynamic content from IntraLibrary.

After clicking on the **Save** button, depending on the authentication method selected, one of these two fields might appear:

- **Authentication token** (*In case of “Open IntraLibrary with Authentication Token”*):  
Paste the token from intraLibrary (take care of whitespaces).
- **SSO User class** (*In case of “Shared Authentication”*):  
Absolute path of the SSO class.

- **Additional search CQL**

This function enable the administrator to add additional CQL (Contextual Query Language) string to the search query that is generated by the search form. It can be used for any kind for filtering. If you tick the box an additional text arena appears.

Please note, the additional query string is placed before the form generated query. This option is only likely to be used by advanced administrators who are very familiar with intraLibrary and CQL.

Examples:

```
NOT lom.general_keyword = "Getty-large"
```

```
lom.technical_format="image/*"
```

To get more information about the CQL language see [the CQL documentation pages](#). Query expressions are supported up to Level 1.

- **Enabled Collections:**

This list of the available collections is dynamically retrieved from IntraLibrary. At least one collection must be selected. This limits the collections that may be searched (not deposited to). To limit collections for deposit see Optional Deposit Points below.

**Note:**

- When shared authentication is used the searchable collections are determined on a user-by-user basis based on the access permissions set in intraLibrary for each user. The only effect of this setting in the Shared Authentication mode is that this sets the collections to be displayed in the drop-down menu in the search window for specific collections.
- This is the list of collections that the **IntraLibrary admin has access to**. If the authentication token mode is used, the list of collections assigned to the token may be different.

- **Log**

If logging is enabled, an absolute file path must be provided where the plugin can log to. The web server must have write permission to that file.

During the installation process, it is strongly advised to use logging in order to speed up any configuration problem fixing.

Apart from that log file, the plugins also log the general events (such as unauthorised access attempts, uploads, errors) to the Moodle log interface.

### 3.3 IntraLibrary Upload Plugin (*“repository\_intralibrary\_upload”*)

- **Default deposit point**

The default deposit point is the user group/workflow and collection in intraLibrary to which deposits will be made by default.

If Kaltura or Optional deposit points are to be used then check the appropriate boxes and click on Save which will open supplementary required fields.

- **Kaltura**

If your IntraLibrary installation has Kaltura and you wish to deposit to Kaltura via the Moodle plugin, this section must be completed with *Kaltura partner* information. These information can be found on Kaltura Admin pages. The information required is:

- Kaltura URL

- Kaltura partner ID
- Kaltura Admin Secret

- **Optional Deposit Points**

Optional deposit points can set up to two extra deposit points. These can be useful to deposit to non-default collections (e.g. collections not accessible by students) or to specific workflows (e.g. workflows to manage copyright clearance). The information required to configure these Optional deposit points is:

- Title: This should clearly define the purpose of the optional deposit point
- Hint: Text to expand on the purpose in case the title is insufficient
- Ask for additional description: Is there a need to gather additional information, such as the reason why this optional deposit point is being used. (Note that if this is set to Yes it will be necessary to click on Save to make the required additional field to appear.)
- Additional description prompt: The prompt to request additional information
- Deposit Group and Workflow: The group/workflow and collection to which this optional deposit will be made. Note that the shared authentication mode can devolve this decision to the SSO class code by selecting Determined by SSO User. In this case the code can use known properties of the user (e.g. their Faculty or Department or Role, to decide where to deposit the resource.

### 3.4 IMS Package Upload Plugin (*“repository\_intralibrary\_upload\_ims”*)

This part does not require any special configuration, it only needs to be enabled.

### 3.5 Filter Settings (*“filter\_intralibrary”*)

If there are (or expected to be) *Kaltura* resource in *IntraLibrary*, it is advised to turn on the *IntraLibrary Text Filter* which converts the *Kaltura* links into a *Kaltura* video player.

The filter can be enabled in “*Site administration / Plugins / Filters / Manage filters*” menu.

Apply it to the content only.

### 3.6 Block Plugin (*“block\_intralibrary”*)

The block plugin is a small helper element which provide instant access to an *IntraLibrary* upload form. It requires all *IntraLibrary* repository plugins to be installed and turned on.

It is advised to be placed on the Moodle front page in order to provide quick and easy access. To add it to the front page, turn on editing (*Front page settings / Turn editing on*) and find the “Add a block” block on the front page and select “File upload to *IntraLibrary*” from the drop-down list.

It shows up only for users who have the upload permission (see section 4.1) in any context on the current Moodle installation, it is hidden from all other users.

The title and body text of the Block can be edited but take care to ensure that the link in the body is retained to the appropriate upload page.

## 4. General Information

### 4.1 Upload Permission

Originally, not every user is granted the upload permission. The *Upload Plugin* is hidden from the users who do not have permission to add resources to Moodle. This permission is controlled by the “*mod/resource:addinstance*” privilege, thus the permission can be restricted or expanded to groups of users by altering this privilege in “*Site administration / Users / Permissions / Define roles*” menu.

### 4.2 Languages

Currently, only English is supported. Other language files might be provided by Intrallect Ltd. For more information, please contact us on the provided details in section 6.

### 4.3 Caching

IntraLibrary Moodle plugins use Moodle’s application cache. After IntraLibrary configuration changes that may affect the IntraLibrary Moodle Plugin, it is advised to clear the cache to avoid any disruption. To do so, navigate to *Site administration / Development / Purge all caches*.

## 5. SSO Class

If “Shared Authentication” is being used, a path to an “SSO Class” needs to be provided on the settings page. The SSO Class needs to be created specifically for the SSO system in use, and has the sole requirement of implementing the `repository_intralibrary_sso_user` interface (located in `./src/repository/intralibrary/helpers/sso_user.php`). Refer to the PHPDocs inside the interface class for further information.

## 6. Contact

For support and other enquires, contact Intrallect Ltd:

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