

# RRU Enrol Plugin

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## Overview

The Moodle platform supports an “enrolment” plugin framework to allow customers to manage enrolment needs specific to their organizations. This custom enrolment plugin has its own unique enrolment method will resolve existing and future enrolment manual enrolment conflicts.

The RRU plugin provides an RRU enrolment types to avoid conflict with previous enrolment types. Additionally, this plugin has been written to accept one or more sources. A source simply provides a list of users, a course, and a role associated to be managed by this plugin. The flexibility in this approach is the abstraction of source data source (which may be another database, a csv file, of a custom query on the moodle database it doesn’t matter, so long as it returns a value).

## Notable Behaviors

- New enrolment type is available under plugins/enrolment/manage enrolment to manage sources .
- **Multiple enrolment sources** (kind of plugins to this plugin) are stored in sources/folder . Each source returns a list of users with role and course.
- **MISCELLANEOUS Settings**

- a. Error notification email (Non-Moodle account)enrol\_rru | email

emma.irwin@gmail.com

Default: Empty

Send error notifications to this email address

- b. Log file location enrol\_rru | logpath

/var/web/moodledata-ws/enrol/rru



Default: /var/web/moodledata-ws/enrol/rru

- **Source-specific Settings (see screenshot below)**
  - a. Each enrolment source has an option to disable unenrol.
  - b. Each enrolment source may have it’s own specific settings

### approvers\_enrol\_rru\_source

**Disable Unenrol** ☐ Default: No  
enrol\_rru | *Checking this box, will disable unenrolment f*  
approvers\_enrol\_rru\_source\_  
disable\_onenrol

### instructors\_mm\_enrol\_rru\_source

**Disable Unenrol** ☒ Default: No  
enrol\_rru | *Checking this box, will disable unenrolment f*  
instructors\_mm\_enrol\_rru\_sou  
rce\_disable\_onenrol

### students\_enrol\_rru\_source

**Disable Unenrol** ☐ Default: No  
enrol\_rru | *Checking this box, will disable unenrolment f*  
students\_enrol\_rru\_source\_di  
sable\_onenrol

**Month enrolment range**  Default: 9  
enrol\_rru | monthsahead *The number of months into the future that we*

**Source DB user password**  Default: En  
enrol\_rru | dbserver *Enter the password for the database user acci*

**Database name**  Default: En  
enrol\_rru | db *The name of the database in which the studei*

**Database user name**  Default: En  
enrol\_rru | dbuser *The account name of the database user that i*

### Users

- User will see no UI changes.
- As a result of the Approvers source , approvers will automatically be enrolled in their courses, and unenrolled if a new approver is assigned.
- All instructors are enrolled in Mastering Moodle

## Administrators

- Administrators will have an additional option in enrolment plugins
- Course Administrators/Instructors will see a new enrolment method type: RRU Enrolments

## Installation

- Navigate to the enrol/ folder under the moodle root.
- Clone the repo and rename the install folder to rru:
  - a. `git clone https://github.com/royalroads/rru-enrol.git`
  - b. `mv rru-enrol rru`
- Run the upgrade
- Add any source-specific settings required (or wait until later and continue)
- Under administration->plugins->enrolment->manage enrolment enable the rru plugin
  - a. Update settings
- For the Mastering Moodle source to be successful you MUST add a course ID . Add MASTERING\_MOODLE as the course id.
- Enrolment is run from the command line (and is run by cron) `php /enrol/rru/cli/sync.php`

## Testing

### 1. Switching over from manual to rru

- Pick two students from the courses below, and observe the participant enrolment list (course->Users->Enrolled Users)
  - Mastering Moodle (230)
  - Course without Idnumber (id 40)
  - Default Course (id 3)
- Run `processstudentsaccounts.php` to update all manual accounts to type: rru
- Confirm in your chosen courses that
  - All students with manual enrolments, have switched to rru enrolment type
  - All approvers with manual enrolments have switched to rru enrolment type
  - All other roles with manual enrolments have STAYED as manual enrolments

### 2. Enrolling Users

Enrol users by running cron command `enrol/rru/cli/sync.php`

Enrolments & unenrolments are listed in the log file `rru_enrol.php` log file.

## Sources

- Students in their courses
  1. Create a course in Agresso
  1. Enrol 3 students in this course
  2. Take note of the course offering and service id
  3. Take note of the students pks
  4. Select a course that is not done yet and unenrol the student from the course in Agresso

5. After the sync script runs:
  - Login into Moodle and verify
  - 3 students have to be enrolled in the course in Moodle that was created earlier in Agresso
  - The student has to be unenrolled from the course in Moodle
  - This information also has to be reported in the enroll log file
- Approvers in the courses they are approvers-of
  1. Select a course in Agresso that is not finished
  2. Add a new approver for this course in Agresso
  3. Verify that there is an approver enroll in Moodle for this course, if not look for other course
  4. After the sync script runs:
    - Login into Moodle and verify
    - The old approver is unenrolled when the new approver is added
    - This information also has to be reported in the enroll log file
- All instructors into Mastering Moodle
  1. Ensure unenrol is disabled on the setting page (Moodle)
  2. Login into Moodle
  3. Manual enrol someone in as an instructor in a Moodle course (note: choose a user that has not been an instructor previously)
  4. After the sync script runs
    - Login into Moodle and verify
    - This user that was added as an instructor in the previous course is now a student in mastering Moodle
    - This information also has to be reported in the enroll log file

## Algorithms / Code Changes

1. /enrol/rru/cli/sync.php  
This file is being called from the cron to do the sync for all the sources.
2. /enrol/rru/db/access.php  
Creates the capabilities for the RRU enrolment plugin.
3. /enrol/rru/sources/approvers\_enrol\_rru\_source.php  
This class extends from enrol\_rru\_source. It returns an array of approvers with their corresponding courses and role id.
4. /enrol/rru/sources/instructors\_mm\_enrol\_rru\_source.php  
This class extends from enrol\_rru\_source. It returns an array of all the instructors in Moodle, the student role id and the mastering course code.
5. /enrol/rru/sources/students\_enrol\_rru\_source.php  
This class extends from enrol\_rru\_source. It returns an array of students with the corresponding course code and student role id.
6. /enrol/rru/lib.php

The class enrol\_rru\_plugin extends from enrol\_plugin. It contains RRU Enrol plugin specific functions.

### Database changes

7. New table: rru\_enrolments : stores all enrolments for rru plugin
8. mdl\_uvw\_rru\_enrolments : enrolment view

### Logic Changes

#### Settings

1. In config.php

```
$CFG->forced_plugin_settings = array('enrol_rru'=>array('dbpwd'=>'4Learn_User'));
```

#### Patch files

none