

## Installation

The Moodle API relies on an XMLRPC interface to communicate with a site's existing Moodle installation. **Note that the Moodle API is not compatible with Moodle versions previous to 2.2.**

**WARNING: If you have installed the previous (external module) version of the Artena Moodle interface you must uninstall this module via the GUI before installing the new (local plugin) version. Failure to do so will result in conflicts between the two and will require manual intervention at the Moodle database level to resolve.**

To enable this communication the following steps must be taken:

1. The provided package must be unpacked to your Moodle installation's root directory.
2. The Artena config.php now has a [moodle] with the following parameters:

Parameter	Value
moodle_url_scheme	"http" or "https", as appropriate to your Moodle installation
moodle_url_domain	The domain of your Moodle installation i.e. "moodle.mysite.ac.nz"
moodle_url_path	The subdirectory within your domain with a trailing "/", or "/" if none
moodle_key	The authorization key from moodle (see step 10 below)
moodle_username	The htauth username for your Moodle installation, if required. Leave commented out if not applicable.
moodle_password	The blowfish encrypted htauth password for your Moodle installation, if required. Leave commented out if not applicable.

3. The php.ini in your PHP installation must have the "allow\_url\_fopen" parameter set to "On" (default is "Off").
4. IIS Users: The copies of libeay32.dll and ssleay32.dll contained in /wap\_artena/wap/php (or your specific PHP installation) should be copied to the C:\WINDOWS\system32 directory on your web server. This may result in replacing the existing copies of the files.
5. Apache Users: The php.ini in your PHP installation must have the "extension=php\_openssl.dll" line uncommented.

## Configuration

Note: all actions listed in these instructions are found under the Site administration top level menu.

1. Click on the Notifications submenu. The previously made change to the Moodle version (see Installation) will cause Moodle to prompt the user to process a Moodle upgrade. Follow this process through to completion.
2. Create a Web Services role (Users->Permissions->Define roles) in Moodle. This role should have the following permissions:
  - a. moodle/user:create
  - b. moodle/user:delete
  - c. moodle/user:update
  - d. moodle/webservice:createtoken
  - e. moodle/course:create
  - f. enrol/manual:config
  - g. enrol/manual:enrol
  - h. enrol/manual:manage
  - i. enrol/manual:unenrol
  - j. moodle/course:delete
  - k. moodle/course:enrolconfig
  - l. moodle/course:enrolreview
  - m. moodle/course:managegroups
  - n. moodle/course:markcomplete (?)
  - o. moodle/course:update
  - p. moodle/course:view
  - q. moodle/course:viewhiddencourses
  - r. moodle/course:visibility
  - s. moodle/role:assign
  - t. moodle/user:viewdetails (?)
  - u. webservice/xmlrpc:use
3. Create a user in Moodle (Users->Accounts->Add a new user) to act as the Artena web service account. This should not be an actual person and in fact does not have to exist in your Active Directory. This user should have "Force password change" unticked.
4. Assign the aforementioned web services role (Users->Permissions->Assign system roles) to the web service account user.
5. Set Networking = On in the Advanced Features menu. A new Networking menu item will appear.

6. Add the IP address of your Artena installation (Networking->XML-RPC hosts) to the list of accepted hosts. The instructions on this page will guide you through the formatting.
7. Enable web services (Advanced features) by ticking the "Enable web services" check box and clicking "Save changes".
8. Enable the XML-RPC protocol (Plugins->Web services->Manage protocols).
9. Add a token (Plugins->Web services->Manage tokens) for your web services user. This token value must be assigned to the key parameter in your Artena config.php.

## Configurable Parameters

- EFWKS: Number of weeks to wait after an enrolment completion before unenrolling a user from a course in Moodle (-1 for open ended)
- ENROL: Contract status (E\*) at which to initiate Moodle account creation and enrolment
- AUTH\_TYPE: Student account authorisation type (LDAP,MANUAL)
- COURSE\_VISIBLE: Indication of whether to create courses as visible (Y/N)
- NOTIFY\_EMAIL: Email to notify on Moodle-related events
- EW\_ACTION: DELETE or SUSPEND moodle enrolment on student withdrawal
- CRS\_OVRWT: Overwrite name fields on course update (Y/N)
- DOMAIN: Domain to use for invalid/missing student emails
- CRS\_LINK: Link courses with same name/shortname (Y/N)
- PREENROL\_WKS: Number of weeks to before the course start to allow access (-1 for immediate)