

Integration

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Web Service Access Control Exception

If you are creating or using a web service in Moodle and see the following message:

```
{
  "exception": "webservice_access_exception",
  "errorcode": "accessexception",
  "message": "Access control exception"
}
```

It can be a bit hard to troubleshoot. Generally there is a 4th item with debugging info, but this will only appear if you have the correct Moodle debugging level set:

Site administration > Development > Debugging

At minimum you'll need to set [debug level](#) to `NORMAL`: Show errors, warnings and notices. That is, it won't appear if you have it set to `NONE` or `MINIMAL`.

Once you do that you should get that 4th parameter:

```
{
  "exception": "webservice_access_exception",
  "errorcode": "accessexception",
  "message": "Access control exception",    "debuginfo": "You are not allowed to use the {$a}
protocol (missing capability: webservice/rest:use)"
}
```

In this example, the user that is associated with the web service token didn't have the capability `webservice/rest:use` in their system role. Adding the capability to the role fixed the issue.

WSDL for a SOAP based Web Service

When you enable SOAP based web services through Moodle:

Site administration > Plugins > Web Services > Overview

(follow the wizard)

You can access the WSDL for the SOAP based service by passing the flag `&wsdl=1` in your URL e.g.

```
https://{yourmoodle.com}/webservice/soap/server.php?wsdl=1&wstoken=tokenifrequired
```

Undefined Property

\$webserviceprotocols

When this error occurs there is no result from the web service. In the PHP error log the following appears:

```
Undefined property: stdClass::$webserviceprotocols
```

Check your web service protocols and ensure that the appropriate protocol is enabled.

Site administration > Plugins > Web services > Manage protocols.

Web Service Course or Activity not Accessible

If you are using a web service function like `enrol_manual_enrol_users` to enrol users into a course, you may come across the following exception:

```
{
  "exception": "require_login_exception",
  "errorcode": "requireloginerror",
  "message": "Course or activity not accessible."
}
```

This can happen even if you have put the user in a role with the `enrol/manual:enrol` capability.

Generally it means the user needs to also have access at the course context, i.e. to have a role in the course that allows them to enrol other users. This might be set per course in the Course Participants area, or it might be assigned at a system or course category context.

Web Service Responses in JSON Format

To get web service responses in JSON format (e.g. with the REST protocol), you can pass the query parameter `moodlewsrestformat=json`. The default convention with Moodle is return web service responses in XML format.

E.g. you might a URL that looks like this (broken into segments for clarity):

```
https://yourmoodle.com/webservice/rest/server.php?wstoken=<token>  
&wsfunction=core_webservice_get_site_info  
&moodlewsrestformat=json
```

This one is calling the `core_webservice_get_site_info` function with a token, and specifying that the output format needs to be JSON.