



SCORM 1.2 and 2004 Compliant Package
Installation Guide

Introduction

For integration with your own Learning Management System (LMS), BPP Learning Media offers its eLearning modules packaged to comply with both the SCORM 1.2 and SCORM 2004 standards, which are supported by most modern LMS. This will allow the package structure to easily integrate with your own system and branding and the modules themselves will communicate information about students, such as scores, time spent studying and progress back to your LMS allowing students' studies to be monitored and assessed.

Technical Specifications

Server side

Any web server running a SCORM 1.2 compliant LMS (such as Moodle)

Or

Any web server running a SCORM 2004 compliant LMS (such as Blackboard)

Client side

The minimum specification for running our software is:

- Operating system: Windows XP or above
- Processor: 800 MHz
- Memory: 128 MB
- Hard disc space: 10 MB
- Screen resolution: 1024x768
- Screen colours: 32 bit (high colour)
- Browsers:
 - Either: Internet Explorer 7 or above
 - Or: Firefox 2 or above
- Javascript and Frames must both be enabled
- (Other browsers may run the software but are not officially supported)
- Flash Player 9 or above

Most modern computers should already meet most of these requirements.

SCORM server side installation and configuration

Under the licence agreement with BPP Learning Media, if this software is installed on an internet-accessible web server then access to that server must be limited to authorised users. For example, for an educational establishment, access via the internet must be limited to enrolled students.

Setting the MIME types

The following MIME types should be set on your server, although as they are all web standards they will probably already be in place:

Associated Extension	Content Type (MIME)
.css	text/css
.flv	video/x-flv
.gif	image/gif
.htm	text/html
.html	text/html
.jpeg	image/jpeg
.jpg	image/jpeg
.js	application/x-javascript
.png	image/png
.swf	application/x-shockwave-flash
.xml	text/xml

Import to the LMS

The installation disc will contain the eLearning packaged in several different configurations and divided into subfolders with the SCORM folder. The '1.2' folder contains the package in SCORM 1.2 compliant format (use this format if you are uncertain which standards your LMS supports) and the '2004' folder contains the SCORM 2004 compliant format. These two folders are then split into: a 'Complete' folder, a 'Modules' folder and depending on the product, possibly a 'Blocks' folder. The 'Complete' folder contains a single zip package containing all of the modules grouped in a single package meaning only one import is required (use this format initially if you are uncertain of which approach to take). The 'Modules' folder contains each module from the product packaged individually, while this approach requires each module to be imported into the system individually, a greater degree of access control to individual modules within the LMS is then available. If the product is sub-grouped into blocks, then these will also be available as separate zip packages in the 'Blocks' folder.

Once you have selected the desired zip or zips you can then proceed to import them into your LMS. Steps for this will vary between system to system so detailed instructions cannot be provided here, however installation guides for Blackboard and Moodle have also been included on the installation disc, for other systems please consult your LMS documentation. You should only need to point your LMS to the desired zip and it should perform most of the work for you, there shouldn't be any need to manually extract files from the zip package yourself.

Data tracking

If using the SCORM 1.2 compliant package, the following data will be returned to your LMS:

SCORM 1.2 data element	Data returned
cmi.core.lesson_status	The students progress through the module – not attempted / incomplete / completed
cmi.core.score.raw	The actual score achieved – returned as a percentage out of 100
cmi.core.score.min	The minimum score available
cmi.core.score.max	The maximum score available
cmi.core.session_time	How long the student spent studying in the most recent session
cmi.core.exit	How the student exited the module – suspend / normal
cmi.core.lesson_location	The section number that the student left at
cmi.suspend_data	Collated data used to store student's progress in detail by the module

If using the SCORM 2004 compliant package, the following data will be returned to your LMS:

SCORM 2004 data element	Data returned
cmi.completion_status	The students progress through the module – not attempted / incomplete / completed
cmi.progress_measure	Measures the student's progress through the module – returned as a percentage out of 1
cmi.score.raw	The actual score achieved
cmi.score.min	The minimum score available
cmi.score.max	The maximum score available
cmi.score.scaled	The student's score scaled as a percentage out of 1
cmi.session_time	How long the student spent studying in the most recent session
cmi.exit	How the student exited the module – suspend / normal
cmi.location	The section number that the student left at
cmi.suspend_data	Collated data used to store student's progress in detail by the module

If using the SCORM 2004 compliant package, the following data will also be returned for each interaction:

SCORM 2004 data element	Data returned
cmi.interactions.n.id	A unique identifier for the interaction
cmi.interactions.n.type	The type of interaction – choice / fill-in / numeric
cmi.interactions.n.timestamp	The time at which the student began the interaction
cmi.interactions.n.latency	The amount of time the student spent on the interaction
cmi.interactions.n.weighting	The score value of the interaction
cmi.interactions.n.learner_response	The answer(s) entered by the student
cmi.interactions.n.correct_responses.0.pattern	The correct answer(s)
cmi.interactions.n.result	The outcome of the student's attempt at the interaction – correct / incorrect / neutral

Some SCORM 1.2 compliant systems may also accept interaction feedback.

User Support

BPP Learning Media will provide complimentary support to any member of your organisation's IT or training departments (or anyone carrying out a related function).



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