

# SCORM Integration

Extension Key: typo3\_scorm

Language: en

Keywords: SCORM, eLearning

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- a GNU/GPL CMS/Framework available from [www.typo3.org](http://www.typo3.org)

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# Introduction

## What does it do?

- SCORM is a set of technical standards for e-learning software products. Specifically, SCORM governs how online learning content and Learning Management Systems (LMSs) communicate with each other.
- This extension integrates the SCORM Cloud Service with TYPO3.
- Admin can manages SCORM data from TYPO3 Backend. FE users can subscribe into SCORM Courses automatically.
- SCORM Integration consists of SCORM Manager as BE Module and SCORM Play as Frontend Plugin.

## Requirements

- TYPO3 version 6.2 or above
- Extbase / Fluid
- To use this extension you will need an account for SCORM Cloud (<http://scorm.com/scorm-solved/scorm-cloud-features/>) by Rustici Software. There is a test account free of charge to check out the Service along with this extension.

## Screenshots

SCORM Play Frontend Plugin as page content.

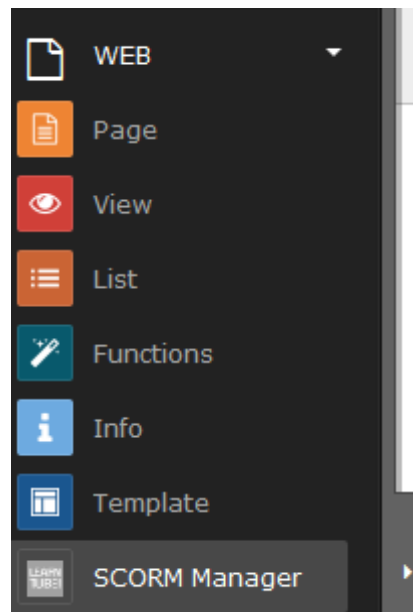
[Launch Test](#)

### Your Report

Completion	Satisfaction	Measure Status	Launch Time
incomplete	unknown	0	2015-08-21T10:39:35.000+0000

Picture 1: SCORM Course Play and History of User.

- Report shows about the Course details for the logged in user in a tabular format
- Here Launch Test link to launch Test for loggedin User.



Picture 2: SCORM Manager inside Web Module.

SCORM Course List
SCORM Course List
SCORM Course Upload
SCORM User List

Path: /Root/learntube\_scorm/ [PID: 7]

Go to Report Page for your App Id.

SCORM Cloud Title / Typo3 Course Title	Typo3 Course Id	SCORM Cloud Course Id	Registrations	Preview	Properties	Delete
Golf Explained - Minimum Run-time Calls / Golf Explained - Minimum Run-time Calls	1	558a5a7937e93	4	Preview	Edit Properties	Delete
Golf Explained - Simple Remediation / Golf Explained - Simple Remediation	2	55c4c6c7d55aa	3	Preview	Edit Properties	Delete
Golf Explained - Run-time Basic Calls / Golf Explained - Run-time Basic Calls	3	55ca44d8b6009	2	Preview	Edit Properties	Delete

Sync Typo3 Records with SCORM Cloud.

Picture 3: SCORM Manager Module.

- SCORM Manager Module consist of three basic functions these are
  - SCORM Course Listing
  - SCORM Course Upload
  - SCORM User Listing.
- This Above picture 3 is listing all available courses from SCORM Cloud Server .
- Link "Sync Typo3 Records with SCORM Cloud" synchronize courses from SCORM Cloud server to TYPO3 local database.
- Link "Go to Report Page for your App Id." redirect BE Admin to SCORM Cloud server inside TYPO3 iframe.

SCORM Course Upload

Select a .zip package :

Choose File

No file chosen

Submit

Picture 4: SCORM Manager Module to Upload Course to SCORM Cloud Server.

Upload SCORM Course object to SCORM Cloud Server with the help of SCORM Web Services API.

SCORM User List									
Path: /root/Intern/SCORM Play/ [pid:14]									
Typo3 Course Name	Registration Id	Username/ Learner Id	Typo3 User Name/ Learner Name	Completion	Success	Total Time	Score	History	Delete
Golf Explained - Minimum Run-time Calls	1340086953559	[REDACTED]	[REDACTED]	unknown	unknown	0	unknown	Launch	Delete
Golf Explained - Minimum Run-time Calls	2175555d6f6f24	[REDACTED]	[REDACTED]	Incomplete	unknown	25	unknown	Launch	Delete
Golf Explained - Simple Remediation Changed	2280855d6f6f84	[REDACTED]	[REDACTED]	Unknown	unknown	0	unknown	Launch	Delete

Picture 5: SCORM Manager Module to list down all subscribers from SCORM Cloud Server.

- Lising all SCORM Cloud Course subscribers.
- With the Delete button we can delete user from both SCORM Server as well as TYPO3 setup.
- Clicking on Launch link it'll display details of the corresponding user.
- For better data management and tracing, SCORM Integration set TYPO3 FE Users username as Learner Id of SCORM Cloud.

# Users manual
















Steps we need to follow to get this extension working:

1. Install via Extension Manager and set configuration variables. (Refer Picture no 9)
2. Include static template in root typoscript template. (Refer Picture no 7)
3. Go to Backend Module SCORM Manager and select SCORM Course Upload from right iframe.  
(Refer Picture no 2 and 4)
4. Now Upload SCORM Course to SCORM server and go to SCORM Course Listing ( Refer Picture no 3)
5. Click on "Sync Typo3 Records with SCORM Cloud" to make Cloud course available to Typo3 database – sysfolder.  
(Refer Picture no 6)
6. Insert SCORM Play plugin as page content and select the Course from the list to play in Frontend.  
(Refer Picture no 8)
7. Now Login into Typo3 frontend and visit page that has "SCORM Play" content . (Refer Picture no 1)
















SCORM Integration stores SCORM Cloud Course data and Users data into Typo3 sysfolder.

From these Scorm Course Record we can identify the Course related data like Cloud Id, Creation Time.

By Editing Scorm User record we can get the relation between SCORM Registrant and Typo3 Frontend User.

Scorm Course (3) >					
+ Course Name					
	Golf Explained - Minimum Run-time Calls				
	Golf Explained - Simple Remediation				
	Golf Explained - Run-time Basic Calls				

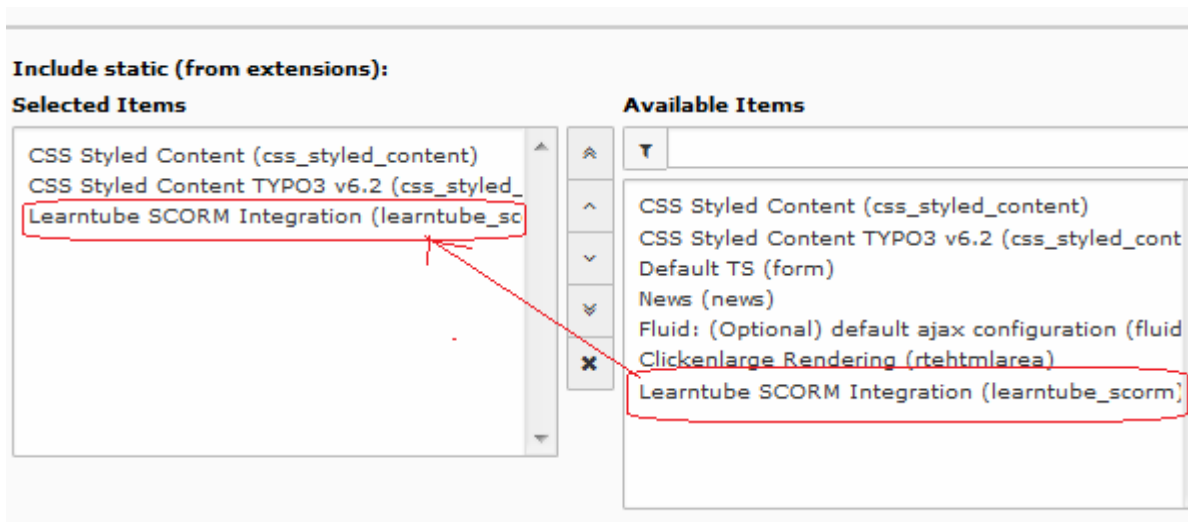
  

Scorm User (3) >					
+ T3user Id					
	[REDACTED]				
	[REDACTED]				
	[REDACTED]				

Picture 6: Listing of SCORM Courses and SCORM Users in Typo3 Backend storage folder.

# Administration

Admin must include the typoscript configuration as shown in the picture below.



Picture 7: SCORM Play Frontend Plugin configuration by including typoscript configuration in root typoscript from static extension templates.



*Creating a "SCORM Play" content-element:*

The screenshot shows the configuration interface for the SCORM Play Frontend Plugin. At the top, there are tabs for General, Plugin, Appearance, Access, Behaviour, and Categories. The 'Plugin' tab is selected. Below the tabs, the 'Selected Plugin' section shows 'SCORM Play' with a dropdown arrow. The 'Plugin Options' section contains several settings: 'General Settings' is a sub-section header. 'Select SCORM Cloud Course Object' is a dropdown menu with three options: 'Golf Explained - Simple Remediation Changed', 'Golf Explained - Minimum Run-time Calls', and 'Golf Explained - Simple Remediation Changed'. The 'Launch Test' label is set to 'Launch Test'. The 'Show Launch Link' checkbox is checked. The 'Show History' checkbox is also checked.

*Picture 8: SCORM Play Frontend Plugin configuration as Page Content.*

- Select the SCORM Course to play in Frontend
- Here Launch Link Test Label is set as "Launch Test".
- Checkbox Show Launch Link to set whether to display link to start test or not.
- Checkbox Show History to decide whether to display History of this Course by this use or not.

# Configuration

## Configure Extension learntube\_scorm

basic

**Enable features**

**SCORM Cloud Appid (P3Z8Y1W6XC)** [basic.scormcloudappid]

(string)

**SCORM Cloud Webservice URL ( http** [basic.scormcloudurl]

//cloud.scorm.com/EngineWebServices/ )

(string)

**Website Root URL ( http** [basic.wwwroot]

//localhost/scormcloud/ )

(string)

**SCORM Cloud Secret Key (AqNaLko0nJwP80jc1nTTXhDt2BUXOWraSpjqryjk)** [basic.scormcloudsecretkey]

(string)

**SCORM Cloud Manager Appid (N04PD6TRB2)** [basic.scormcloudappmanagerid]

(string)

**SCORM Cloud Local Package Label (LearntubeGmbh.LMS3.6.2)** [basic.scormcloudorigin]

(string)

**SCORM Cloud Manager Secret Key (XvDAjk1iE6xwtPyT6SNoKTRPB6M5NF8AKFyBgenS)** [basic.scormcloudmanagersecretkey]

(string)

**SCORM Cloud Record Storage PID** [basic.scormcloudstorage]

(integer)

Picture 9: SCORM Integration configuration through Extension Manager Global Conf.

- Need to set various SCORM related credentials.
- Application id field is to store the id of the SCORM Cloud Application.
- As SCORM Integration is based on webservices available from SCORM server we need to set the url here.
- Need to set the base path of this website.
- Cloud Secret Key, Manager Application Id and Manager Secret Key we should set from the SCORM Cloud server.
- SCORM Cloud record storage pid is the uid the Typo3 Storage type page to store SCORM related data.

## Known problems

- Didn't find any problem.
- Would be happy to solve if there's any existing bug found.

## To-Do list

- Need to Add feature like SCORM User Subscription from Backend by Admin.
- Improvement of Backend UI.
- Better debug information and handling.
- Supporting more SCORM Applications.
- Backend Module needs cleanup work.

## ChangeLog

- This is first version of SCORM Integration. So no changeLog for this time.

## Support

– For any further support please drop your queries at [typo3india@gmail.com](mailto:typo3india@gmail.com)