

# **360Learning - Cornerstone** Integration setup and testing guide

This technical guide is part of our Technical Documentation.

Version 2.2

# Table of contents

1. Integration overview	<b>3</b>
HRIS integration includes:	3
LMS integration includes:	3
2. HRIS Integration	<b>4</b>
Export File format	4
Optional features	7
Adding Users to Groups in 360Learning	7
Setting up the hierarchy	7
How it will work	8
3. LMS Integration Administrator setup Cornerstone API setup Cornerstone Custom fields setup Parameters Cornerstone Material type setup Cornerstone Provider setup	9 9 14 15 18 20
4. 360Learning setup instructions	21
5. Your test instance	<b>21</b>
Important note	21
<ul> <li>6. Test scenarios</li> <li>6.1 Initial tests</li> <li>6.2 Creation of a session</li> <li>6.3 Learners advancement in a session</li> <li>6.4 Learners can launch a session from Cornerstone</li> <li>6.5 If you need help</li> </ul>	<b>22</b> 22 24 24 24 24 24
7. Deployment checks	<b>25</b>
7.1 Configuration checklist	25
7.2 Launch meeting	25

# 1. Integration overview

This integration is based on the CSOD data export via a TSV file delivered to the CSOD FTP server (Reporting 2.0) and the CSOD APIs for the LMS portion of the integration.

The scope of this integration is in two parts user management (what we call HRIS integration) and content synchronization (what we call LMS integration):

## HRIS integration includes:

- Creating, updating users that have an "Active" status
- Deleting users that have an "Inactive" status
- Assigning users their direct manager
- (Optional) Assigning users to "groups" in 360Learning based on the user metadata you can include in the file.
- (Optional) Filtering out users to ensure only relevant users are synchronized.

## LMS integration includes:

- All Program Sessions in 360Learning that have started will be exported as Materials in CSOD
- All users that are assigned to a Program Session in 360Learning will be assigned to the relevant Material in CSOD using Learning Assignment API
  - Time spent, score and progress are sent as Custom Fields on the user's Transcript in CSOD.
- Once a user finishes a Program Session (or the Program Session ends) an Express Class is created to mark that work as completed.

# 2. HRIS Integration

# **Export File format**

To use this feature, please start by creating a reporting in Reporting 2.0 on your Cornerstone OnDemand interface and create a New Report.

Quick Filters					
My Reports	Q Search All Reports				
	NAME 1	OWNER	LAST VIEWED 👻	REPORT LOCATION	ACTIONS
System Templates	🖺 csod_hris	WS Admin	06/17/2021	My Reports	🖻 🕼 🤊 🚥
Shared With Me					

#### Filters:

At a minimum please filter to only include users with "Active" and "InActive" status.

Filters

User - User Status	is one of	Active × InActive	× •	≢×
Click to add a filter o	r drag over a	a data field		

You can, of course, add more filters if you want to limit the number of users that will be synchronized into 360Learning.

#### **Properties:**

Please reproduce the following settings:



#### Table Columns:

Certain fields and field titles are mandatory to the accepted file. They are used in the mandatory part of the integration, as such they have a mandatory "Header" title that must be edited for each field by clicking on the setting for each field.

	Column Header Properties
	User Email
	Column Header label
	email
User - User Email 🚆 🗙	Apply Aggregation
[ user_email ]	Select 👻

- email This will be the user's email address in 360Learning
  - Please use the User User Email field
- uniqueuserId This will be stored in the user's externalId in 360Learning and used if the email changes in Cornerstone
- lastName User's last name.
- firstName User's first name.
- organization User's organization in 360Learning.
- title User's title in 360Learning
- language User's display language in 360Learning
- managerId used to determine which user should be assigned as manager based on its Cornerstone employee ID
- status Active/Inactive will allow to determine if the user needs to be created/updated or deleted.

Field in CSOD	Name	Field in 360Learning
User - User Email	email	Email*
User - User ID	uniqueuserld	externalId (not visible in the interface).*
User - Last Name	lastName	Last Name
User - First Name	firstName	First Name
User - Division	organization	Organization
User - Position	title	Job
User - Display Language	language	user's interface language
User - Manager - User ID	managerld	user's manager
User - User Status	status	user's status to be created/updated/deleted *

Fields that can be used for Groups or Filters are completely customizable and can be configured to your specific needs.

#### **FTP configuration**

Please provide your Solution Architect with the credentials (host, user, password, certificate) to the CSOD FTP server so that our system may start obtaining the files daily.

Please note that file import occurs once a day at around midnight GMT (00:00 GMT)

## **Optional features**

## Adding Users to Groups in 360Learning



## Setting up the hierarchy

With your Solution Architect, a workshop will be organized to determine the best group hierarchy to reflect your organization's structure. The main condition to be able to use this feature is that each level should be linked to a single User field in the file you provide.

Level I: user\_field A Level II: user\_field B Level III: user\_field C In the example we used:

Level I: location Level II: department

The main prerequisite is that each field must be a metadata obtainable when querying for the list of users when we do the provisioning. We recommend you use fields linked to the Organizational Units you may have set up in your platform.

## How it will work

The integration will only handle group memberships for groups that are part of this "tree", any manually created groups outside will remain 100% manually managed.

The integration will move users between lower level groups (departments in our example). Then upon creation/update we will place users as learners in their appropriate "bottom level" group (department in our example).

Using public/private group settings, you will then be able to control who appears where in the hierarchy.

If at any stage of user creation the group cannot be found, the user's metadata has no match, or any other issue, the user will be created in the group with which the integration is set.

If at any stage of user update the group cannot be found, the user's metadata has no match, or any other issue, the user will remain in the group(s) it already is.

# 3. LMS Integration

# Administrator setup

Create a specific administrator account in the Cornerstone platform. Set the language for this administrator as English.

## **Cornerstone API setup**

In order for the connector to properly work a number of Cornerstone APIs are called from 360Learning. Here is a complete list of these APIs, the event that would create a call, and the purpose of the calls:

## 1. services/api/oauth2/token

a. This is used to obtain the token for all future calls

## 2. services/api/LO/Create

- a. This is used to create a Material based on a newly created programSession in 360Learning
- b. This is called every time a new session **starts** in 360Learning. If you create a session that does not start immediately, it will only appear in CSOD once it starts.

## 3. services/api/Catalog/GlobalSearch.

- a. This is used to ensure that the users' CSOD ID is correct
- b. It is called every time a user is assigned to either an ongoing session or a new session that starts immediately.
- 4. services/x/lms-learning-assignment/v1/learning-assignment/stand ard
  - a. This is used to replicate the users being assigned to a programSession in 360Learning by assigning them to the corresponding Material in CSOD
  - b. It is called every time new assignments are done.

## 5. services/api/customField

- a. This is called to update the Last Activity, Progress, Score and Time Spent by users on a given session.
- b. This is called in "real-time" to provide accurate updates every time users interact with programSessions in 360Learning.

### 6. services/api/x/users/v2/employees

a. This is called during the users' assignment to a Material to match the users' CSOD ID with their cornerstone id.

## 7. /services/api/LOTranscript/TranscriptSearch

- a. This is called as a safety net to register users that have marked a session as completed by mistake. They would be reassigned afterwards
- b. It is called once a day per open session. We retrieve the transcripts in batches of 1000 (max parameter from CSOD).

### 8. /services/x/lms-express-class/v1/ExpressClass

a. This is called to send the completion status on a Material

You can find more details on these permissions in the <u>Cornerstone API documentation</u>.

The following operations must be done in the Cornerstone platform using the admin account created in the previous section.

1. In the **Admin/Tools** section, select the **EDGE** section.

Config	guration Tools
දිටු	CORE FUNCTIONS Manage cross-platform settings that are core to every day talent management.
	EDGE Discover, purchase, and configure integrations to extend your talent management platform to increase business agility.
	CONNECT Manage settings for social application that connects employees to knowledge, ideas, and resources, and unifies communication and collaboration across the organization.
5	LEARNING Configure settings to optimize all aspects of learning in your organization with customizable, targeted training.
	<b>PERFORMANCE MANAGEMENT</b> Configure performance assessment within your organization by managing settings for career and performance goals.
	<b>COMPENSATION MANAGEMENT</b> Use Compensation Management to configure compensation plans and adjust user's base, bonus, and equity compensation.
	SUCCESSION MANAGEMENT Manage settings to identify and proactively address workforce planning issues and opportunities, and map out succession scenarios for positions within your organization.

2. Select the **Integrations** section.



3. Select API Management in the left panel.



- 4. In the Manage OAuth 2.0 Applications
  - Register New Application

Edge   API Management					
Manage A	Pls Manage OAuth 2.0 Applications	Manage STS Keys			
<ul> <li>Setup In</li> </ul>	tructions				
		+ Register New Application			

#### 5. Enter

- the Application Name
- the User ID: must be the same as the admin you created
- Important, here is the list of required scopes based on the previous list of API calls:
  - globalsearch:read
  - employee:read
  - learningassignment:create
  - learningassignment:read
  - training:create
  - transcript:read
  - expressclass:create

≡	🗲 Edge   API Management	🛎 WS Admin
	Sack Register New Application	
	Setup Instructions	
	Application Name* 360Learning API User ID* wsadmin	
	Access Token Validity Period 3600	
		Register Application

- Register Application
- Copy the client secret

Settings API Events Be sure to copy the client secret. As a security best practice, it will be displayed only once. If you misplace need to regenerate it.	the client secret, you will	
	슈	
Client Secret	Continue	

### Your screen should look like this

Setup Instructions	
Client ID	
	2
Client Secret	
	Regenerate $\boldsymbol{\mathcal{Z}}$
Application Name * 360Learning API	
User ID * wsadmin	
Access Token Validity Period 3600	

- Copy the **Client ID**
- Click Save Settings

These Client ID and Client Secret will be used in the 360Learning setup chapter.

# Cornerstone Custom fields setup

In the Admin/Custom Field Administration section.

1. Go to the **Training** section.

#### Custom Field Administration @

	Training Custom Fields					
Compensation Development Plans Organizational Units Performance Reviews	Define the custom fields available for all training type fields and indicate for which learning object type the Name All Types			play order	of custom	n
ouccession Training	Fields	details page Define LO Ty	/pe and Order			
ng Request Frans			(24	Results)	1 2	> 3
saction	Title 🕐	Туре	Created By	Active	Options	
Record ndor						
	int Property in 1					

# 2. Click on the "+" button to create a new Custom Field

Create each Custom Field as below

		Name: Email Tag:						I _ 2	s)	
		Туре:		meric Field	-	\$				
		Available Languages:	All L	anguages			•			
		Active:								
FIELD DETAILS FOR EACH TRAINING	TYPE	Check/Unch	eck All						1	4
	1	Ø	Â	<u></u>		6	4	<b>é</b>	<b></b>	
Active Training Type								<b>V</b>		
Response Required										
Editable On Transcript By Admin										
Visible to End User on Transcript								<		
Editable on Transcript By End User										
AVAILABILITY										2
Select OU Criteria		\$								
All users in Corporation:		-								

## Parameters

• **Name**: The display name of the Field as it will appear in your reports.

You can set up a localization for each language by clicking on the globe button as below

	Name:	360 Progress in %	' 丿
	Email Tag:	360.PROGRESS	
	Type:	Numeric Field	
		Languages:	
	Translate	×	
	English (US): French (France):	360 Progress in %	
e bo lb			
ıb		Save Cancel	

- **Email Tag**: Important, use the exact syntax provided by this documentation. In this example: 360.PROGRESS
- **Type**: Select the right type for each field
- Available languages: Make sure that ALL languages are selected



- Active: check the box
- Other Options. Check options for Material as below

	<u> </u>	Ø	Â	<u></u>	6	4	2	Ë
Active Training Type								
Response Required								
Editable On Transcript By Admin								
Visible to End User on Transcript								
Editable on Transcript By End User								

- Availability
  - Select **All Users** then **Add**

AVAILABILITY	
Select OU Criteria	\$
All users in Corporation:	
Cancel Save	

### Save the Custom Field

3. Custom Fields to create.

Following the previous instructions, create the following mandatory Custom Fields:

Name: 360 Date of last activity (you can customize this display name) Email Tag: **360.LAST.ACTIVITY** Type: Date Field

Name: 360 Progress in % Email Tag: **360.PROGRESS** Type: Numeric Field

Name: 360 Score in % Email Tag: **360.SCORE** Type: Numeric Field

Name: 360 Time spent in seconds Email Tag: **360.TIME.SPENT** Type: Numeric Field

## **Cornerstone Material type setup**

You need to create the **360Learning** Material Type in Cornerstone.

#### 1. In the Admin/Tools section, select the LEARNING section



#### 2. Then Catalog Management

## Learning



Configure settings to optimize all aspects of learning in you

Catalog Management Manage all aspects of the training catalog including training, providers, subjects and evaluations.
E-Commerce 🖈 Manage transactions, and related preferences
Learning Assignment Tool 🖈

### 3. Then Materials





## 5. Then Add New Type

Add a new type with the mandatory name **360Learning** 

# Cornerstone Provider setup

In the **ILT/Vendors & Instructors** section.

## Vendors & Instructors @

The tools in this section will help you track details of your organization's ILT vendors and mai

Tiew Instructor Requests	
Search for Vendor Name:	
	Q Search
View active vendors only	
Add New Vendor	
Vendors	
VENDOR NAME	

#### Click on Add New Vendor.

## Edit Vendor

Vendor Details	
Vendor Name:	360Learning
Address #1:	
Address #2:	
City:	
State, Postal Code:	
Country:	
Contact Name:	
Phone:	
Fax:	
URL:	
E-mail:	
Description:	
Active:	
	Cancel Submit

In the Vendor Name field, type: 360Learning. Click the **Active** checkbox to activate 360Learning as a provider.

# 4. 360Learning setup instructions

Just send the following information to your 360Learning technical engineer:

- Cornerstone Client ID
- Cornerstone **Client Secret**
- Your platform **url**
- The administrator **username**

Your technical engineer will get back to you when you are ready to test the connector.

# 5. Your test instance

You will perform your tests on a test instance of your 360Learning platform. Your technical engineer will provide you with your test instance url.

Example:

- Your production platform url is: myacademy.360learning.com
- You test instance url will be something like: **myacademy.360mooc.com:14532**

This test instance is a snapshot of your production instance at the moment it was created. It lives separately from your production instance.

- Any modification done to your production instance is **not** reflected in the test instance
- Any modification done to your test instance is **not** reflected in the production instance

## Important note

The connector on the test instance does not behave exactly like the connector in the production environment:

- real time synchronisations are performed automatically
- but daily synchronisation scripts need to be run manually by 360Learning

You will see that you will still be able to test most features on the connector.

# 6. Test scenarios

# 6.1 Initial tests

When you receive your test instance url, the connector has already been setup and the data have been sent from 360Learning into Cornerstone.

You can check that:

• For all ongoing sessions in 360Learning, for all enrolled users to these sessions, you should see a corresponding Transcript in Cornerstone.

nscrip				
e transcript	to manage all active trainir	g.		
Active *	By Date Added -	All Types 🔻	Search for training	
AUTO		All 1990		
earch Resul	ts (154)			

• Learning statistics: Users progress and completion should appear in the Transcripts detail, for both "completed" and "registered" states.

Training Type: Provider: Version: Training Hours: Description:	360Learning 1.0
	Record Constants
Training Purpose:	Registered ✓ Mark Complete
Bilan à 6 ans: 360 Progress en %: 360 Date of last activity: 360 Score en %: 360 Time spent in seconds:	100 8/11/2018 82

### • Custom reports

You can build a custom report to see the data received in Cornerstone from 360Learning.

	Field Filters <sup>1</sup> User/OU Filters <sup>1</sup> Sort <sup>2</sup>	Summary Sharing Schedule Delivery Chart Publish
	Training Provider	✓ is equal to     ♦     360Learning
>	Latest Registration Number?	💌 is 🛟 True 🕲
>	* Type or drag a field here	<b>~</b>
>		*
>	φ <b>Refresh</b>	Maximum number of records 5000 Options - Actions
	User Full Name 360 Date of last activity	360 Time spent in second 360 Score en % 360 Progress en % Training Title

A typical filter setup for such a report could look like this

Please note the filter: "Latest registration Number? is True". This allows to see only the latest record for a given user / session couple.

# 6.2 Creation of a session

- Create a new session starting immediately in 360Learning. Enroll a few users.
- After a few minutes, you should see the corresponding transcripts in Cornerstone for these users.

**Important note**: If you create a session that starts in the future, this session will not be automatically synced in the test instance. It requires 360Learning to run manually the daily scripts. This is specific to the test instance.

## 6.3 Learners advancement in a session

• Play a session in your test instance for a user, you should see the progress stats be modified after a couple of minutes.

Status: Registered ✔ Mark Complete Training Purpose: Due Date: 12/31/2019 Bilan à 6 ans: No 360 Progress en %: 100 360 Date of last activity: 8/11/2018 360 Score en %: 82 360 Time spent in seconds: 2581

## 6.4 Learners can launch a session from Cornerstone

The sessions to which they are enrolled will appear in their transcripts and in the search. If a user launches the session, he is sent to 360Learning.

# 6.5 If you need help

Don't hesitate to contact your 360Learning Technical Engineer.

# 7. Deployment checks

# 7.1 Configuration checklist

- [Customer] Check that the CSOD Admin user has the required permissions in its scope
- [360Learning] Check that all the routes listed can be called using the provided credentials
- [360Learning] Check that all the users have their CSOD ID in the "Additional Information" field.
- □ [360Learning] Request temporary access to CSOD instance for rapid validation
  - □ Validate Materials Creation
  - □ Validate user Registration
  - □ Validate user stats synchronization
- [Customer] Validate functional perimeter and scenarios as described above

# 7.2 Launch meeting

During a short meeting with a customer ensure that all the above are set and validated to ensure complete alignment.