

# Learning Records Store (LRS/LMS) Integration

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Looking to set up activities like surveys and quizzes that send data to your LMS or LRS? Using our Learning Management System/Learning Record Store Integration you can push survey and quiz activity to any LMS/LRS that uses Tin Can API (aka xAPI). Here is a list of Tin Can API adopters <http://tincanapi.com/adopters/>.

Note: This list is not exhaustive, please check with your LMS to see if they support xAPI.

## What activity data can I send to my LMS/LRS?

- Start and finish of a survey/quiz
- Start and finish of each page in a survey/quiz
- Answered questions

If you have a Quiz Score Action set up in your survey the following additional data will be pushed to your LRS:

- Additional data for all scored questions (i.e. Correct/Wrong for Pass/Fail quizzes)
- Score for Tally and Pass/Fail Quiz Score Actions
- Passed/Failed indicator for a Pass/Fail Quiz

## Integration Setup

The Alchemer LMS/LRS Integration works with an LMS/LRS that uses Tin Can API (aka xAPI). Here is a list of Tin Can API adopters: <http://tincanapi.com/adopters/>.

You'll need the following from your LMS/LRS to link it to with Alchemer.

- Endpoint URL
- API Key/User
- API Secret/Password

With this information, log into Alchemer and go to **Integrations > Data Connectors > 3rd Party Integrations**. Click the **Configure** button next to the LMS/LRS Integration. Note: Only account administrators users will have access to this area of account settings.

Enter a **Label** for your integration. This will probably be your LMS/LRS product name, e.g. Grassblade, Watershed, etc. Then enter your **Endpoint URL**, **API Key/User**, **API Secret/Password**

### LMS/LRS Integration

Integration Label

xAPI Endpoint and Credentials

xAPI Version

Endpoint URL

API Key/User

API Secret/Password

[Test Connection](#)

[View documentation on LMS/LRS integration setup and best practices](#)

### Failed Connection

If Alchemer is not able to connect with your LMS/LRS, you will see the following message on the Integrations page:

[Test Connection](#)

Your connection was not successful.  
Bad access credentials or method.

[View documentation on LMS/LRS integration setup and best practices](#)

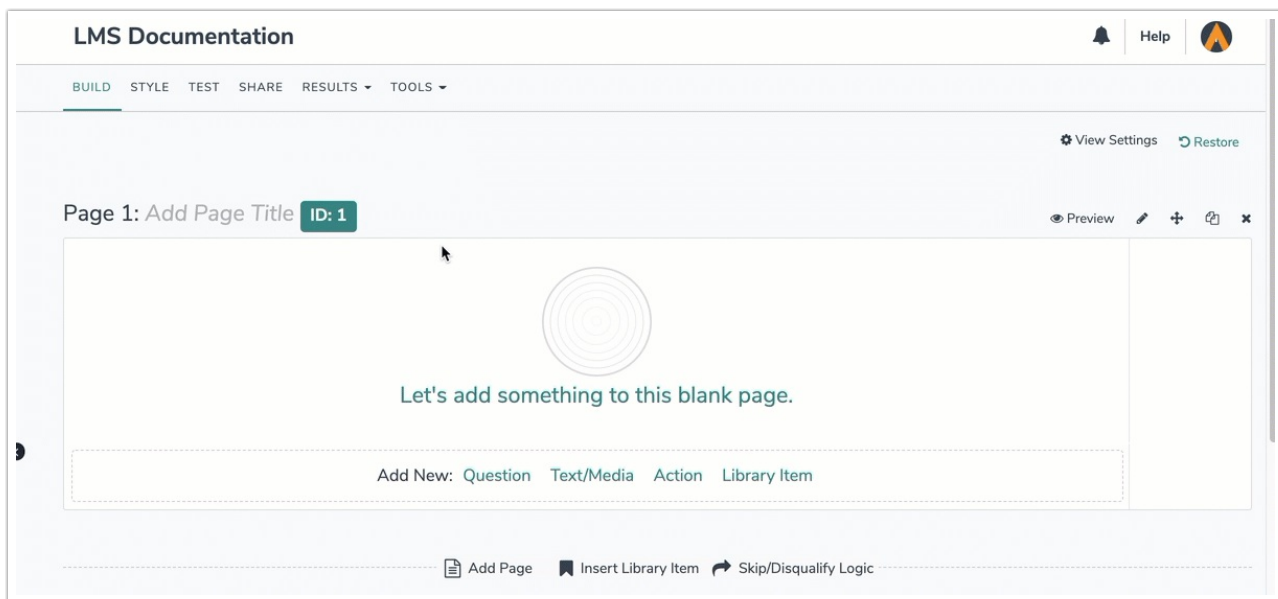
If you bump into this message, please double-check your Endpoint URL, API Key/User, and API Secret/Password fields.

## Set Up Your LMS/LRS Integration to Push Activity Data From Your Survey

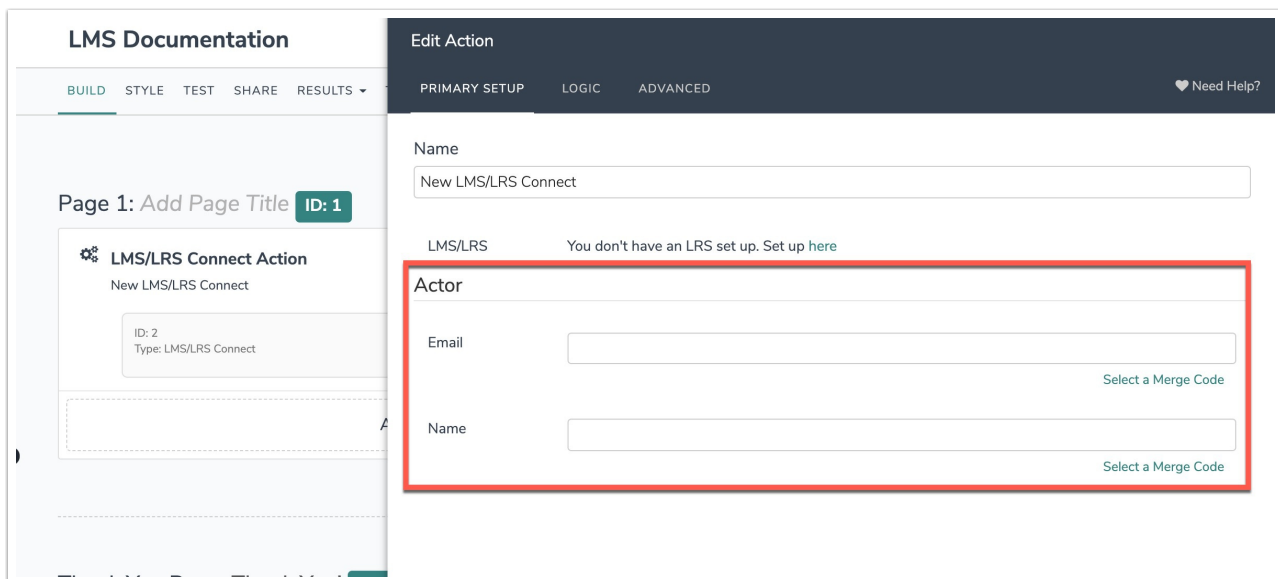
The LMS/LRS can be added to any page of your survey. However, there are a couple of things to consider before adding your LMS/LRS Action.

1. Your LMS/LRS integration needs to find your actor fields (you need to add these actor fields to your survey before adding the LMS/LRS Action).
2. The survey start information is sent when the respondent reaches the page with the LMS/LRS action. If this survey start data is important to you, you'll need to place this on the first page of the survey.

To add the LMS/LRS Connect Action, click to Add New Action:



Click **Save Action and Edit** and proceed to the **Primary Setup** screen. Next, select the LMS/LRS that you have connected to your account and map the Actor fields to the questions in your survey where the actor data is collected.



**Save Action** to complete the setup process. Now, as respondents take your survey, information will be sent to your LMS/LRS.

## Advanced Setup

The advanced setup is typically used to allow for longitudinal or otherwise grouped reporting in your LMS/LRS. Let's understand the defaults of what is show on the Advanced tab first. You can customize the Activity IDs, Parent IDs, and Grouping ID.

In the case of a Alchemer survey, the **Activity ID** for the Survey is the survey's URL.

For the **Page**, the survey URL becomes the **Parent ID**, and the activity is the survey URL plus an identifier for the page.

Finally, for every given **Question** in the survey, the **Activity ID** is the survey URL plus an identifier for the question. The **Parent ID** for each **Question** is the survey URL plus an identifier for the page, and finally, the **Grouping ID** is the survey URL.

**Edit Action**

PRIMARY SETUP LOGIC **ADVANCED** [Need Help?](#)

### Override xAPI Statement IDs

You may use the merge codes `[[PageID]]` and `[[QuestionID]]`. [Learn more](#)  
Caution: do not change these values if you are currently collecting data.

**Survey - Used when starting and completing a survey**

Activity ID

**Page - Used when starting and completing a page**

Parent ID   
Activity ID

**Question - Used when answering a question or a quiz score**

Grouping ID   
Parent ID   
Activity ID

You can customize these IDs as you wish for reporting purposes in your LMS/LRS. Other than the requirement that all IDs are specified as URLs, each of these IDs can be changed for your reporting purposes.

A very common use case for adjusting these might be a pretest and a posttest. Using these fields, you can use a single survey to collect your pretest and posttest responses and customize how it reports in your LMS/LRS.

For example, let's imagine we have a skills assessment survey that is used to administer a pretest taken at 30 days and a posttest taken again at 90 days.

To change the reporting such that the pretest data can be separated from the posttest data, we will change the **Survey Activity ID**, the **Page Parent ID**, and the **Question Group ID** to something that indicates that this is a pretest assessment. We'll also change the remaining IDs (**Page Activity ID**, **Question Parent ID**, and **Question Activity ID**) can just show that this corresponds to the general assessment activity.

We would then add a second LMS/LRS action replacing the word "pre" with "post" throughout.

We recommend that you are familiar with Tin Can API statements before making changes to the

PRIMARY SETUP LOGIC **ADVANCED** [NEED HELP?](#)

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Parent ID

Activity ID

#### Question - Used when answering a question or a quiz score

Grouping ID

Parent ID

Activity ID

[Never Mind](#) [Save Action](#)

## What Will I See on the Individual Response Page?

When viewing individual response data, the LMS/LRS Connect Action will be presented as follows (each event that has been sent to your LMS/LRS will be available with a timestamp):

The screenshot shows a survey results interface. At the top, there are tabs for STYLE, TEST, SHARE, RESULTS, and TOOLS. Below the tabs, it says "Responses: 7" and "Items - 6 / Partial - 1 / Disqualified - 0 / Quarantined - 0 / 4 New". A table lists responses with columns for ID, Status, and Date Submitted. Response #7 is highlighted in green. To the right, a modal window titled "Response #7" is open, showing tabs for DATA, DETAILS, ACTION LOG, and DATA QUALITY. An orange arrow points to the "DATA" tab, which contains a list of events for "3. Push Info".

ID	Status	Date Submitted
7	New	Apr 18, 2016 4:15 PM
6	New	Apr 18, 2016 4:14 PM
5	New	Apr 18, 2016 10:33 AM
4	New	Apr 18, 2016 9:11 AM

**Response #7 Data:**

- 3. Push Info
  - 2016-04-18 18:14:54: start sent!
  - 2016-04-18 18:14:55: answer sent!
  - 2016-04-18 18:14:55: page\_complete sent!
  - 2016-04-18 18:14:56: page\_start sent!
  - 2016-04-18 18:15:02: answer sent!
  - 2016-04-18 18:15:02: page\_complete sent!
  - 2016-04-18 18:15:02: page\_start sent!
  - 2016-04-18 18:15:03: score sent!
  - 2016-04-18 18:15:05: answer sent!
  - 2016-04-18 18:15:05: page\_complete sent!
  - 2016-04-18 18:15:05: complete sent!

## Considerations

If your survey respondents navigate back through your survey, duplicate information will be passed into your LMS/LRS. We recommend using the **LMS/LRS Connect Action** in conjunction with the **Forward-Only Survey** setting.

## Limitations

The following questions are not supported via the LMS/LRS Integration:

- Textbox Grid
- Dropdown Menu Grid
- Max Diff
- Conjoint (Choice Based)
- Custom Table
- Continuous Sum
- Signature
- Slider List
- Textbox List
- File Upload
- Cascading Dropdown Menu
- Drag and Drop Ranking
- Ranking Grid

The LMS/LRS Action is **NOT** compatible with **Terminal Pages** or the **Thank You Page** in Alchemer.

Related Articles