

## xAPI analytics guide

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 This article is designated for administrators.

### About

This guide explains what **xAPI** is and how it works with Kaltura.

xAPI (also called the *Experience API* or *Tin Can API*) is a learning technology standard that tracks how people interact with learning content, both online and offline. In Kaltura, xAPI helps capture activity such as video playback, engagement, and content actions, and sends that data to a Learning Record Store (LRS).

A **Learning Record Store (LRS)** is a system that receives and stores xAPI activity data. It lets you report on learning activity or export the data for use in other systems.

In Kaltura, xAPI captures activity from video playback, engagement, and content actions, and sends it to an LRS.

This guide is intended for Kaltura partners, customers, and community members who want to track learning activity and understand xAPI data from Kaltura.

### How xAPI works with Kaltura

Kaltura provides video tools for teaching, learning, and engagement, including lecture capture, video creation, and interactive video experiences.

When xAPI is enabled, Kaltura sends activity data from the legacy Video Portal, supported LMS integrations, and embedded players to an LRS. This data shows how learners interact with video content, such as when playback starts, how much of a video is watched, and whether viewing is completed.

Playback progress can be sent at fixed milestones or more frequently. This behavior is controlled by the [xAPI module](#) settings in the Configuration Management console.

The LRS stores this data and acts as the system of record for xAPI activity.

### xAPI events sent by Kaltura

Kaltura sends the following xAPI events to the LRS:



In Kaltura, an 'entry' is a single media item, such as a video or audio file, that is uploaded, recorded, or created in the platform.

Event	Description
playProgress	Video playback progress. Events are sent at fixed milestones (0, 25, 50, 75, 100%) or more frequently, based on the <a href="#">xAPI module</a> configuration.
play	User started or resumed the playback of an entry.
pause	User paused playback of a video.
seek	User intentionally seeks to a different time in the entry
playbackRateChange	User changes playback speed
categoryView	User opens a gallery or channel page.
login	User logs into the legacy Video Portal or an LMS.
entryLike	User likes a video.
entryComment	User comments on an Entry.
entryUpload	User uploads an Entry.
entryUnlisted	User marks an Entry as Unlisted.
entryPublish	User publishes an Entry.
entryCollaborator	User is made a co-editor of an Entry.
captureSpaceLaunch / kalturaCaptureLaunch	User launches the <a href="#">Kaltura Capture</a> product.

## Sample xAPI event data

The example below shows xAPI data sent for a **playProgress** event. Progress updates are sent throughout playback and reflect how much of the video the learner has watched at that point in time.

```
{
  "actor": {
    "objectType": "Agent",
    "name": "John User",
    "account": {
      "name": "johnuser",
      "homePage": "https://example.mediaspace.kaltura.com"
    }
  },
  "verb": {
    "id": "http://activitystrea.ms/schema/1.0/watch",
    "display": {
      "en": "watched"
    }
  },
  "result": {
    "extensions": {
      "https://w3id.org/xapi/cmi5/result/extensions/progress": 50
    }
  },
  "context": {
    "contextActivities": {
      "category": [
        {
          "objectType": "Activity",
          "id": "http://tincan-definitions.kaltura.com/products/mediaspace/1",
          "definition": {
            "type": "http://id.tincanapi.com/activitytype/source"
          }
        },
        {
          "objectType": "Activity",
          "id": "https://example.mediaspace.kaltura.com/default/channels/view/channelid/21212121",
          "definition": {
            "type": "http://id.tincanapi.com/activitytype/category",
            "name": {
              "en": "Marketing"
            }
          }
        }
      ]
    },
    "other": [
      {
        "objectType": "Activity",
        "id": "https://example.mediaspace.kaltura.com",
        "definition": {
          "type": "http://activitystrea.ms/schema/1.0/application",
          "name": {
            "en": "Kaltura MediaSpace"
          }
        }
      }
    ]
  }
}
```



