



Title:	Hardware Integration Guide	Date: 26-Aug-2022
		Revision: 1.1

The purpose of this document is to provide accompanying detail to the included data flow diagram.

This document should be used as a guideline for integrating hardware devices with Kaltura Lecture Capture, utilizing:

- Scheduling integration with Kaltura calendar
- Uploading/publishing workflows for scheduled recordings, as well as ad-hoc recordings
- Sending device status updates to the Kaltura dashboard

1. Prerequisites:

- a. Kaltura account
- b. One of these options:
 - i. KMS (Kaltura MediaSpace) Portal
 - ii. KAF (Kaltura Application Framework)
 1. This is used for LMS (Learning Management System) Integration
- c. Enable the module: *[Recscheduling]*
 - i. This is critical in order to access the Kaltura calendar, schedule events with device, and upload the video after recording is finished.
 - ii. This must be enabled by Kaltura, reach out to your Kaltura rep for assistance.
- d. Enable the Module *[Classroomcapture]*
 - i. This is required in order to utilize the device status dashboard.
 - ii. This must be enabled by Kaltura, reach out to your Kaltura rep for assistance.
- e. Create App Token using the documentation provided in the link below, including the appropriate permissions according to planned usage.
 - i. [Kaltura Application Tokens](#)
 - ii. When creating the app token, include the following permission string:
 1. "BASE_USER_SESSION_PERMISSION,WIDGET_SESSION_PERMISSION,CONTENT_INGEST_BASE,CONTENT_INGEST_UPLOAD,CONTENT_MANAGE_BASE,cuePoint.MANAGE,CONTENT_MANAGE_SCHEDULE,CAPTURE_DEVICE_PERMISSION,CONTENT_INGEST_REFERENCE_MODIFY,LIVE_STREAM_ADD,disableentitlement"
 - iii. (OPTIONAL/RECOMMENDED): When creating the app token, instead of including the above permissions, the Kaltura administrator can create a role that encompasses the above permissions string (excluding the "disableentitlement" value)
 1. For creating a role, see the below method:
 - a. [userRole.add](#)
 2. Once a role is created, it can be used in the app token like so:
 - a. "sessionPrivileges": "setrole:123456789,disableentitlement"

- i. (Where 123456789 is the role ID)

2. Hardware Device Configuration

- a. The hardware device must be configured using:
 - i. PID (Partner ID)
 - ii. App Token
 - iii. App Token ID
- b. Include hash type when creating token and also when configuring the device.
 - i. SHA-256 is recommended
- c. Set up the device as a schedule resource in order to be able to schedule recordings:
 - i. [scheduleResource.add](#)
 - 1. Include parameter:
 - a. scheduleResource: [KalturaLocationScheduleResource]
 - 2. It is recommended to set [Name] and [Systemname] as the same value.
 - a. [Name] will be viewable in the interface, while [Systemname] will not.
 - 3. It is recommended to include [tags] for ease of organization
 - a. Example: model number of device, room of device, etc.
 - 4. This will return the Resource ID value "id"

3. Scheduling

- a. Retrieve the Event Schedule
 - i. [scheduleEvent.list](#)
 - 1. Include the Resource ID from the previous step.
 - ii. This will allow for synchronization of the Kaltura event calendar to the device calendar.
 - iii. Configure the interval for this retrieval (5 minutes is typical).
- b. (OPTIONAL)
 - If the device uses its own calendaring mechanism and you want to push local scheduled events to the Kaltura calendar, this can be used:
 - [scheduleEvent.add](#)
 - *Example: a user initiates an ad-hoc capture on the device and wants the event to display on the Kaltura calendar.*
- c. Review this resource while testing the above process for directions on creating, editing, and viewing Kaltura calendar events:
 - <https://knowledge.kaltura.com/help/scheduling-events---viewing-the-recording-schedule>

Additional information can be found here:

<https://developer.kaltura.com/api-docs/Integration-Scheduling-and-Hooks/recorded-and-live-event-scheduling.html>

4. Uploading

- a. The device should create the upload token:
 - i. [uploadToken.add](#)
- b. The device should upload the recording using the Upload Token ID:
 - i. [uploadToken.upload](#)

- c. Once the upload completes (via chunks), perform this step:
 - i. [baseEntry.addFromUploadedFile](#)
 - 1. Supply template entry ID from event list for this particular event.
 - a. *Note: If this was an ad-hoc recording, there will be no template entry. This means there is no metadata to inherit, and all metadata fields will have to be specified.*
 - 2. If separate recordings/channels (camera, etc) are to be related, the ID from the first entry should be set as the parent, in order to associate multiple videos (parentEntryID).
- d. **It is recommended to provide additional fields in your configuration that allow an admin to specific other options for uploaded media, such as:**
 - i. Categories – an organizational unit which allows an admin to easily filter and find all media that was uploaded by this device.
 - ii. Transcoding profiles – allows you to specify transcoding setting for content coming from the device.
 - iii. Tags – allows tagging media coming from this device to make searching/filtering easier.

5. Updating Device Status

- a. Beacon Intervals:
 - i. Every 30 seconds the device must send two beacons:
 - 1. Uploader: [uploaderMonitoringAgent]
 - 2. Monitor beacon: [monitoringAgentData]
 - ii. Every 120 seconds the device must send this beacon:
 - 1. Input Preview (Per input source)
 - a. [previewImage_primary]
 - b. [previewImage_secondary]
 - c. [previewImage_secondary1]
 - d. [previewImage_secondary2]
- b. The below method is used to send device status updates to the Kaltura dashboard for admins to monitor device status:
 - i. [beacon.add](#)
 - ii. See attached JSON files for examples:
 - 1. uploaderMonitoringAgent
 - 2. monitoringAgentData
 - 3. previewImage_primary

Appendix A: JSON examples

1. uploaderMonitoringAgent

```
{
  "id": "ddkflIABOobkooXP1o2o",
  "indexType": "scheduled_resource_beacon",
  "updatedAt": 1651752551,
  "relatedObjectType": "1",
  "eventType": "uploaderMonitoringAgent",
  "objectId": "3561633",
  "privateData":
  "{\\\"status\\\":\\\"online\\\",\\\"appVersion\\\":\\\"4.15.0h\\\",\\\"uploadingCount\\\":0,\\\"uploadQueue\\\":0}\",
  \"objectType\": \"KalturaBeacon\"
}
```

2. monitoringAgentData

```
{
  "id": "oH8hIIABBDh-2olbOUG4",
  "indexType": "scheduled_resource_beacon",
  "updatedAt": 1651752643,
  "relatedObjectType": "1",
  "eventType": "monitoringAgentData",
  "objectId": "3561633",
  "privateData":
  "{\\\"RecordingData\\\":{\\\"streamingInputObjects\\\":[],\\\"recordingTime\\\":\\\"\\\",\\\"recordingPhase\\\":\\\"idle\\\",
  \\\"ResourceDetails\\\":{\\\"activeSessions\\\":{\\\"secondary1\\\":true,\\\"primary\\\":true,\\\"secondary2\\\":true,\\\"secondary\\\":true},\\\"resourceName\\\":\\\"US-TEllis-
  VASE\\\",\\\"previewingSessions\\\":{\\\"secondary1\\\":true,\\\"primary\\\":true,\\\"secondary2\\\":true,\\\"secondary\\\":true},\\\"appVersion\\\":\\\"4.3.1\\\",\\\"resourceId\\\":3355713},\\\"Scheduling\\\":{\\\"NextScheduledEvent\\\":[]},\\\"
  Errors\\\":{\\\"APP_STATUS\\\":\\\"OK\\\",\\\"DEVICE_ERROR\\\":[]}}\",
  \"objectType\": \"KalturaBeacon\"
}
```

NOTE: This example payload assumes 4 input devices. For example, if only using two inputs, omit the “secondary1” and “secondary2” objects from “activeSessions” and “previewingSessions”

3. Input Image Preview

```
{
  "id": "fdb8cc89cea659f87966e96f019f65f6",
  "indexType": "scheduled_resource_beacon",
  "updatedAt": 1661459697,
  "relatedObjectType": "1",
  "eventType": "previewImage_primary",
  "objectId": "3561633",
  "privateData": "[]",
  "rawData":
```

"/9j//gAQTFG2YzU4LjU0LjEwMAD/2wBDAAGKCgsKCw0NDQ0NDRAPEBAQEBAQEBAQEBAQEBASEhIVFRUSEhIQEBISFBQVFRcXF
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SiYyg4Sea3AggXG03a6fod71r/n6XuahbPSsg6C4jCPrTdDjQwPULWP0P8Aedf8/SdzUL8p+6bUNre1GCwqouvU+930cp7
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+06jbIk9615P0P/i+8P6zR/g6le0+ED+Rmv8Aes/vGoXivRE1pt4f1uj/AAduVH3huVntttZt5t5s902kmsj25VZKpLqp
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NOTE:

- *rawData is a base64 encoded string for the preview image in the above sample*
- *Recommended resolution is 320x240*