

Enabling the HIVE Integration for Kaltura Webcasting

Version 1.2: 18-Aug-19

Kaltura Business Headquarters

250 Park Avenue South, 10th Floor, New York, NY 10003

Tel.: +1 800 871 5224

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Preface

This preface contains the following topics:

- [About this Guide](#)
- [Audience](#)
- [Document Conventions](#)

About this Guide

This guide describes how to enable HIVE for Kaltura webcasting, including enabling and configuring the Livestreaming module and enabling HIVE when creating a webcast.



NOTE: For technical support, please contact [Kaltura Customer Care](#). Please contact your Customer Success Manager with all other inquiries.

Contact Us:

This document is maintained by Kaltura's Professional Services team. Please send comments or corrections to your Customer Success Manager. Ask her or him to forward it to the Professional Services team. We are committed to improving our documentation and your feedback is appreciated.

Audience

This guide is intended for MediaSpace Administrators and Webcast Administrators charged with enabling HIVE for Kaltura webcasting.

Document Conventions

Kaltura uses the following admonitions:

- Note
- Workflow



NOTE: Identifies important information that contains helpful suggestions.



Workflow: Provides workflow information.

1. Step 1
2. Step 2

Introduction

Kaltura and HIVE Streaming have developed an integration that allows Kaltura Webcasts to be streamed on HIVE-enabled networks. This integration requires the enablement and configuration of a Kaltura MediaSpace plugin. This plugin will allow Webcasts to be designated as "HIVE-enabled". This guide includes instructions on the following:

1. Enabling and configuring the Hivestreaming module in the Configuration Management section of MediaSpace, as a MediaSpace Administrator.
2. Enabling HIVE when creating and scheduling a webcast event in MediaSpace as a Webcast Administrator.
3. Troubleshooting tips and instructions.

Prerequisites

The MediaSpace Administrators should create a HIVE Customer organization in the HIVE portal and obtain the customerId of the organization.

Technical Requirements

The current version of Kaltura's integration with HIVE supports working with Java client and webRTC. When working with the Java client you should ensure that the HIVE client is installed across your organization, or on those computers where you will be testing HIVE.

You must have a valid HIVE account and your HIVE account manager will provide you with your customerID.

Technical Limitations

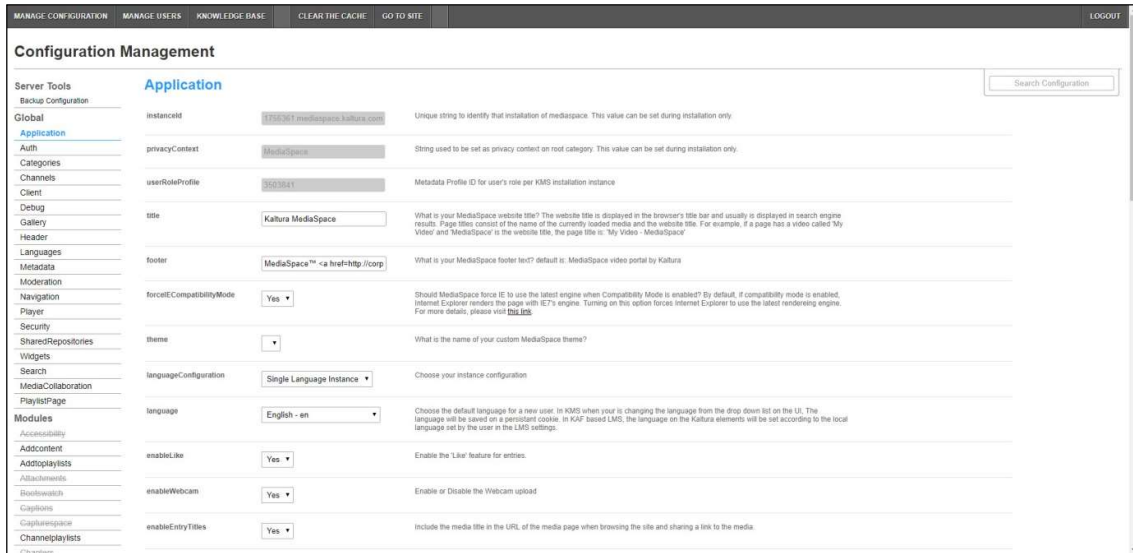
A technical limitation currently prevents the use of HIVE with Webcasts that have multiple audio streams. If you are using Kaltura Cloud Transcode and your transcoding profile includes multiple "Audio only" flavors for different language streams, disable these audio flavors.

<input checked="" type="checkbox"/>	HD/720 - WEB/MBL (...	43	mp4
<input type="checkbox"/>	Audio only - English	100	mp4
<input type="checkbox"/>	Audio only - Spanish	101	mp4
<input type="checkbox"/>	Audio only - French	102	mp4

Cloud Transcode flavor listing. If your Cloud Transcode has "Audio only" flavors, disable them for HIVE-enabled streaming.

Enable and Configure the Hivestreaming Module

1. Follow instructions in Section 1 of [Kaltura MediaSpace User Manual](#) to log into MediaSpace Admin (by going to your MediaSpace URL and adding **/admin** at the end).
2. Login using your Kaltura user ID and password.
3. Click **Sign In**. The Configuration Management Section of MediaSpace displays.



Configuration Management Section of MediaSpace – Logged In



NOTE: If this module is not in your MediaSpace application, please contact your Kaltura representative to enquire about adding it.

4. In the list of configurable items on the left of your screen, locate and click on Hivestreaming.



NOTE: The Hivestreaming item will be crossed out because it is disabled by default.

Enable and Configure the Hivestreaming Module

Configuration Management

Hivestreaming

Developer Tools

- Export configuration to a file
- Import configuration from a file
- Create uiConfs for Widgets
- Create Custom Metadata profiles

Global

- Application
- Auth
- Categories
- Channels
- Client
- Debug
- Gallery
- Header
- Languages
- Metadata
- Moderation
- Navigation
- Player
- Security
- SharedRepositories

Module Info

name	hivestreaming
description	Module for Hive P2P streaming integration
version	1.2.3

enabled Enable the Hivestreaming module.

partnerId Set to the Hive Partner ID for your account. Contact your Kaltura account manager to obtain this value.

customerId Set to your Hive Customer ID. This value is available in the Hive Admin Tool, or you may contact your Kaltura account manager to obtain this value.

techOrder Comma-separated names of Hive techs. If empty, the default stack will be used.

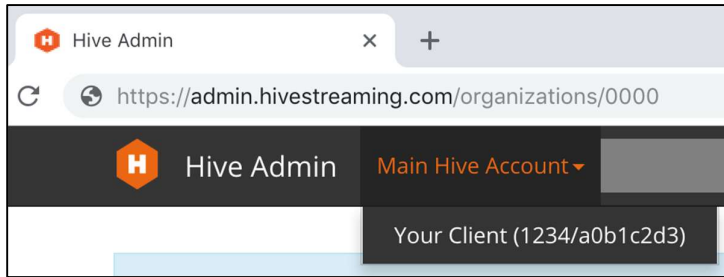
Hivestreaming Module Configuration Window

The Module Info box displays the module name, a description of the module (what enabling this module allows users to do), and a version number.

- In the enabled pull-down list, select **Yes** to enable the Hivestreaming module.
- Other configurable items following the enabled pull-down list are as follows.

Field Name	Description	Default
enabled	Enable/disable the module	No
partnerId	ID used to identify MediaSpace association with HIVE services. The default value shouldn't be changed unless instructed by HIVE otherwise.	9065
customerId	Customer ID used to identify your account on HIVE services. You may obtain this value from the HIVE Admin dashboard (see the screenshot below). You may also contact your Kaltura or HIVE account manager to obtain this value.	
techOrder	Comma-separated names of peer-to-peer technology, in order of fallback. Advanced users may consult the techOrder table below. Consult with your HIVE account manager before changing this field.	HiveJava,HiveJS,StatsJS

Enable and Configure the Hivestreaming Module



HIVE Admin page. The number before the slash is the partnerId. The string after the slash is the customerId. In the screenshot above, the partnerId is 1234 and the customerId is a0b1c2d3.

7. Click **Save**. You receive a notice that your configuration for Hivestreaming was saved and the cache was cleared.



NOTE: The order of the techOrder items determine the fallback sequence. As an example, for techOrder 'HiveJava, HiveJS, StatsJS' the plugin will first check if a Java client is installed. If not, then the plugin will check if the current browser [support webRTC](#). If not, then the player will play directly from the account CDN.

Technology Ordering Options

The following options are available for the techOrder configuration. Consult with your HIVE account manager to understand which option is right for your account.

techOrder Option	Description
HiveJava,HiveJS,StatsJS	Attempt to use a local HIVE P2P agent. Fallback to WebRTC if a local agent is not available. Fallback to the account CDN if neither option is available, and collect HIVE Insights analytics.
HiveJava,StatsJS	Attempt to use a local HIVE P2P agent. Fallback to the account CDN if a local agent is not available, and collect HIVE Insights analytics.
HiveJS,StatsJS	Attempt to use WebRTC for P2P connectivity. Fallback to the account CDN if WebRTC fails, and collect HIVE Insights analytics.
StatsJS	Use the account CDN and collect HIVE Insight analytics.



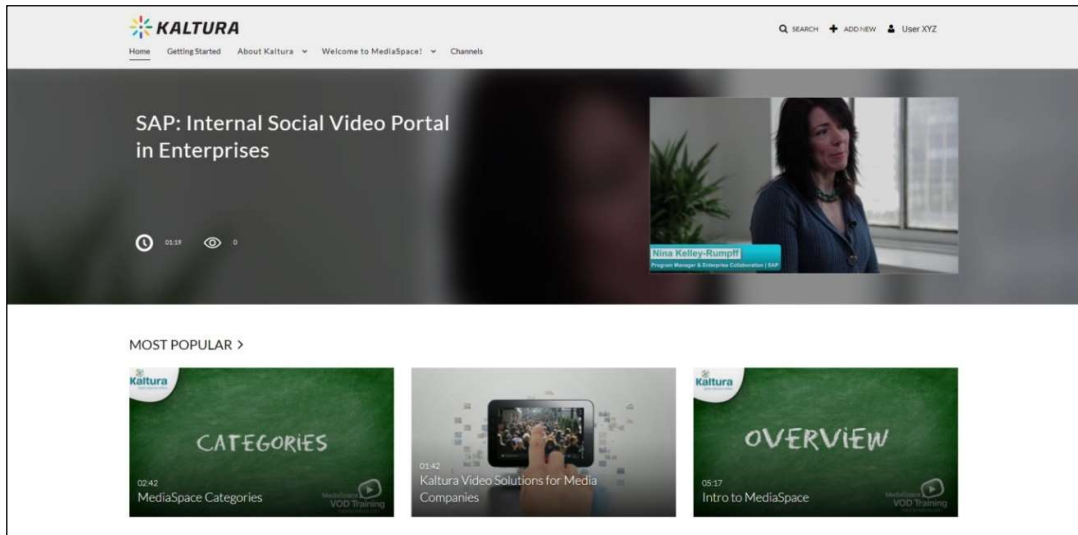
NOTE: When the HIVE P2P Agent is installed it is best to use it first in the tech order(HiveJava) since it is more mature and more "tuned up" for the specific customer network.



NOTE: HIVE silent testing is supported only with the HIVE Agent, so HiveJava should be in the tech order in order to support silent testing.

Enabling HIVE When Creating and Scheduling a Webcast Event

1. Follow instructions in Section 1 of [Kaltura MediaSpace User Manual](#) to log into MediaSpace.
2. Login using your Kaltura user ID and password.
3. Click **Sign In**. The home page of MediaSpace displays.



Home Page of MediaSpace – Logged In

4. In the upper right corner of the screen, click **Add New** and select **Webcast Event**. The Schedule a Webcast Event Screen displays.
5. Follow instructions in <https://knowledge.kaltura.com/creating-webcasting-event> to create a webcasting event. In addition, you will notice a **HIVE enabled** checkbox. Leave this checked (as it is by default) to enable HIVE.
6. Save the Webcast.
7. On the Webcast Edit screen

KALTURA Home Getting Started About Kaltura Welcome to MediaSpace! Channels SEARCH + ADD NEW User XYZ

Schedule a Webcast Event

Name: (Required)

Description: **Black** **Bold** *Italic* Underline [Icons]

Enter Description...

Tags:

Hive Enabled:

Start Time: 10/29/2018 9:00 AM

End Time: 10/29/2018 10:00 AM (UTC -4:00) Eastern Time (US & Canada) (EDT)

Complete all the required fields and save the entry before you can select to publish it to categories or channels. Note that the upload process needs to complete successfully for the "Published" option to be enabled.

Private - Media page will be visible to the content owner only.

Unlisted - Media page will be visible to anyone with a link to the page.

Published - Media page will be visible to individuals according to entitlements on published destinations.

Create Event

Schedule a Webcast Event Screen



NOTE: If you are having trouble creating a Hive-enabled Webcast, please reference the Troubleshooting section below.


Confirming HIVE Streaming Details

Event View Page

1. Find the relevant Webcast in My Media.
2. View the Event Page.
3. For HIVE-enabled Webcasts, the following indicator will be displayed:
This indicator is visible only to the Webcast owner and any co-editors.

Hive Enabled Webcast

Event Edit Page

1. Find the relevant Webcast in My Media.
2. Enter the Webcast’s Edit page by clicking the  button.
3. Select the “HIVE Streaming” tab.
4. Confirm that “Enabled” is checked and ensure that the HIVE Ticket URL is listed.



NOTE: You may change whether a Webcast is HIVE-enabled or not up until the start of the event.

Access HIVE Analytics

Owners of a HIVE-enabled Webcast event can access HIVE’s Insights analytics page:

1. Access the Webcast event edit page (see Section [Event Edit Page](#))
2. Click on the HIVE Insights URL link.

Details Options Collaboration Thumbnails Presenters **Hive Streaming** Captions

Live Stream Details Timeline Replace Media

Enabled:

Hive ticket URL: https://api.hivestreaming.com/v1/events/9065/90dec02e/1_b7prjw2b/ZxGfjkKtVI9O2CKZ

Hive Insights URL: https://admin.hivestreaming.com/streams/9065/90dec02e/1_b7prjw2b/LovvImO1b2ykogfB5OCm_A

[Save](#) [Go To Media](#)

Troubleshooting

Symptom	Resolution
HIVE Streaming is not shown as enabled after a Webcast is created.	Check the Hivestreaming module configuration in MediaSpace Configuration Management (see Section Enable and Configure the Hivestreaming Module). Ensure that the partnerId, customerId, and apiToken values are entered correctly – without any extraneous spaces or characters.
Webcast does not play after the stream has begun.	Check the selected flavors of the account’s Cloud Transcode profile. Ensure that no “Audio only” language flavors are selected (see Section Technical Limitations).
HIVE Client is installed, but a HIVE-enabled Webcast is not streaming using the HIVE Client.	Confirm that no HIVE-enabled streams are playing in any browser. The HIVE Client can only support a single Webcast or other HIVE-enabled stream at a time.

