

StreamhubAnalytics JS plugin for Kaltura TV Platform

21th of Sept 2020	Programs tracking Ads tracking
14th of January 2020	Plugin initialisation
16th of January 2020	Tracking userId
27th of October 2021	Revised QoS tracking

This document describes the steps required to add and configure the StreamhubAnalytics plugin for Kaltura v7 Web Player (TV Platform).

Getting started

Kaltura embed code

Add Kaltura HTML and Javascript embed code to your page following Kaltura embed instructions <https://developer.kaltura.com/player/web/getting-started-web>

You should end up with some HTML/JS code similar to this

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>
</head>
<body>
  <div id="kaltura_player_942723754" style="width: 560px;height:
395px"></div>
  <script type="text/javascript"
src="cdnapisec.kaltura.com/p/3032151/embedPlaykitJs/uiconf_id/46362681">
</script>
  <script type="text/javascript">
```

```

try {
  var config = {
    targetId: "kaltura_player_942723754",
    provider: {
      partnerId: 2196781,
      uiConfId: 46362681
    }
  };
  var kalturaPlayer = KalturaPlayer.setup(config);
  kalturaPlayer.loadMedia({entryId: '1_aoofesd2'});
} catch (e) {
  console.error(e.message)
}
</script>
</body>
</html>

```

Configure the plugin to use StreamhubAnalytics for Kaltura web v7

First, add a script tag a link to the plugin

```

<script type="text/javascript"
src="//static.streamhub.tv/kalturaV7/plugin.js"></script>

```

Then, add the plugins configuration code

```

// Configure the plugins for this instance of the player
let plugins = {}
let streamhubPluginIsDefined = !(typeof StreamhubAnalyticsKalturaPlugin ===
"undefined")
if(streamhubPluginIsDefined) { // register the plugin only if its available
  KalturaPlayer.core.registerPlugin("streamhubAnalyticsKalturaPlugin",
StreamhubAnalyticsKalturaPlugin);
  plugins.streamhubAnalyticsKalturaPlugin = {
    analyticsId: "{your-analytics-id}",
    playerTitle: "{player-title}",
    userId: "{logged-user-id}"
  }
}

```

```
} else {
  console.log("@@ could not initialize StreamhubAnalyticsKalturaPlugin")
}
```

Then replace `{your-analytics-id}` and `{player-title}` with the actual values relevant to this player. The analyticsId should have been provided to you by your Streamhub account manager.

If your system can track users, please also replace `{logged-user-id}` with the logged in current user identifier.

Configure additional plugins your player may require

If your player needs to use additional plugins, like the ima plugin, add the relevant configuration to the plugins object

```
// add the other plugins required by this player
// example, to add the ima plugin
plugins.ima = { adTagUrl:
  "https://pubads.g.doubleclick.net/gampad/ads?sz=640x480&iu=/124319096/external/single_ad_sam
  ples&ciu_szs=300x250&impl=s&gdfp_req=1&env=vp&output=vast&unviewed_position_start=1&cust
  _params=deployment%3Ddevsite%26sample_ct%3Dlinear&correlator=" }
```

Note, if you are using the ima plugin, you will need to add 2 additional scripts tags at the top of your page:

- Add a reference to the playkit-ima.js script (check <https://github.com/kaltura/playkit-js-ima> for details)
- Add a reference to the Google IMA3 SDK:
 - `<script type="text/javascript" src="//imasdk.googleapis.com/js/sdkloader/ima3.js"></script>`

Reference the plugins object on the Kaltura setup config object

```
let kalturaPlayer = KalturaPlayer.setup({
  targetId: "kaltura_player_942723754",
  provider: {
    partnerId: 3032151,
    uiConfId: 46362681
  },
  plugins: plugins
});
kalturaPlayer.loadMedia({entryId: '1_cg3h7fm6'});
```

Finally, putting all the pieces together...

A final implementation with StreamhubAnalytics + IMA ads tracking

```
<!-- DIV player placeholder -->
<div id="kaltura_player_942723754" style="width: 560px;height: 395px"></div>
<!-- Script tags -->
<script type="text/javascript" src="//cdnapisec.kaltura.com/p/3032151/embedPlaykitJs/uiconf_id/46362681"></script>
<script type="text/javascript" src="//imasdk.googleapis.com/js/sdkloader/ima3.js"></script>
<script type="text/javascript" src="playkit-ima.js"></script>
<script type="text/javascript" src="//static.streamhub.tv/kalturaV7/plugin.js"></script>
<script type="text/javascript">

try {

  // Configure the plugins for this instance of the player
  let plugins = {}
  let pluginIsDefined = !(typeof StreamhubAnalyticsKalturaPlugin === "undefined")
  if(pluginIsDefined) { // register the plugin only if its available
    KalturaPlayer.core.registerPlugin("streamhubAnalyticsKalturaPlugin", StreamhubAnalyticsKalturaPlugin);
    plugins.streamhubAnalyticsKalturaPlugin = {
      analyticsId: "{ your-analytics-id }",
      playerTitle: "{ your-player-title }",
      userId: "{logged-user-id}"
    }
  }
  } else {
    console.log("@@ could not initialize StreamhubAnalyticsKalturaPlugin")
  }

  // add the other plugins required by this player
  // example, to add the ima plugin
  plugins.ima = { adTagUrl:
"https://pubads.g.doubleclick.net/gampad/ads?sz=640x480&iu=/124319096/external/single_ad_samples&ciu_szs=300x
250&impl=s&gdfp_req=1&env=vp&output=vast&unviewed_position_start=1&cust_params=deployment%3Ddevsite%26
sample_ct%3Dlinear&correlator=" }

let kalturaPlayer = KalturaPlayer.setup({
  targetId: "kaltura_player_942723754",
  provider: {
    partnerId: 3032151,
    uiConfId: 46362681
  },
  plugins: plugins
});
kalturaPlayer.loadMedia({entryId: '1_cg3h7fm6'});
} catch (e) {
```

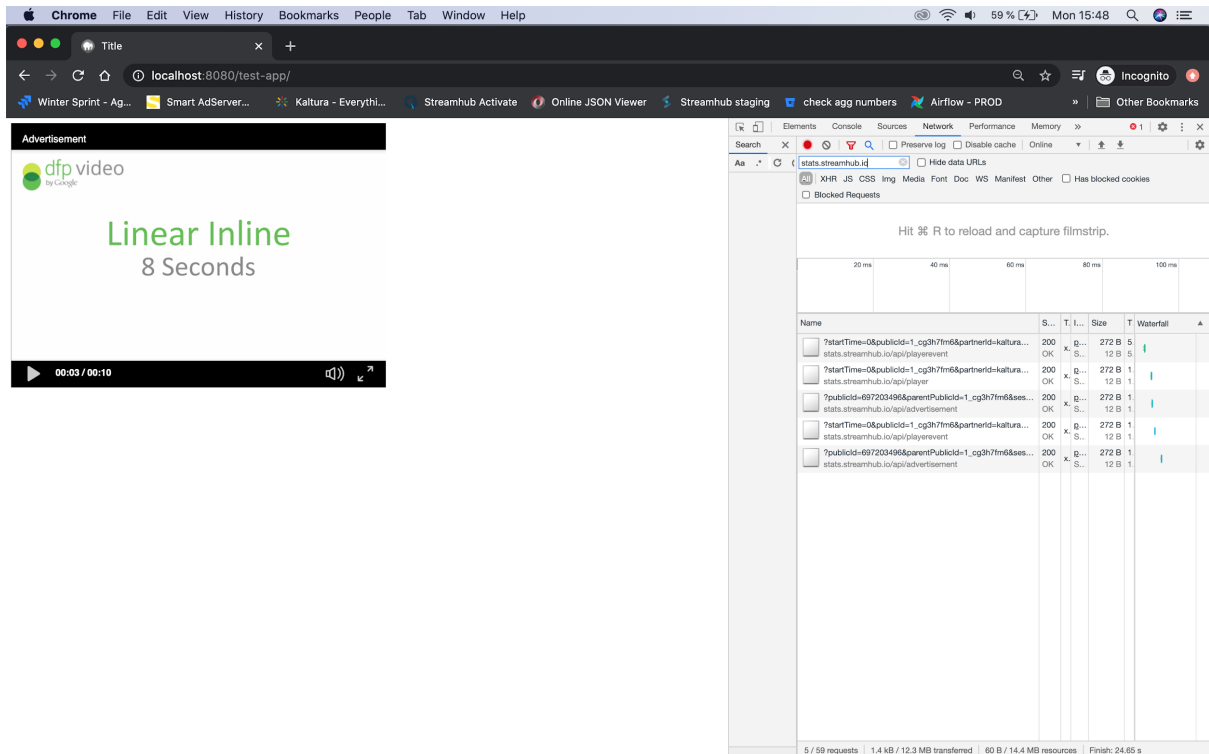
```
console.error("@@ error ", e.message)
```

```
}  
</script>
```

Test your implementation

It is highly recommended to test the player and plugins together in a test environment before deploying any changes to production.

We recommend you capture logs sent by your application and send them to your Streamhub account manager. An integration engineer will be able to review your logs and validate the plugin is behaving correctly in your environment.



In order to capture logs from a TV or mobile device, tools like Charles Proxy (<https://www.charlesproxy.com/>) or Wireshark (<https://www.wireshark.org/>) are perfectly suitable.