EZDRM WisePlay Keys Guide
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Version 1.0
Introduction

The base CPIX URL for EZDRM WisePlay is shown below:

https://cpix.ezdrm.com/KeyGenerator/cpix.aspx?k=KeyID&u=username&p=password&c=resourcename

The following is the XML return for the test URL above (values returned are defined in the next sections):

```
```

CPIX Parameters

The CPIX parameters are as follows using the sample URL below:

https://cpix.ezdrm.com/KeyGenerator/cpix.aspx?k=ebXXXXXXXX-abXX-4XX4-8X6c-XXXXaXXfXXXXX&u=username&p=password&c=resourcename

<table>
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<th>Parameter</th>
<th>Description</th>
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<tr>
<td>k=</td>
<td>Key ID value (client generated) in GUID format</td>
</tr>
<tr>
<td>u=</td>
<td>Username</td>
</tr>
<tr>
<td>p=</td>
<td>Password</td>
</tr>
<tr>
<td>c=</td>
<td>Content Resource ID (such as a stream name or media asset name)*</td>
</tr>
</tbody>
</table>

* To generate a GUID for the k value, you can use a GUID generator like the one found here: https://www.guidgenerator.com/.
Option 2: Request DRM keys with curl

The second option to request DRM keys from EZDRM is to script the process with curl or another web service call.

Using EZDRM's web service, the curl script below retrieves the DRM values from the web service.

```
```
WisePlay DRM

Key Value Definitions

This XML file does not appear to have any style information associated with it. The document tree is shown below:

```xml
<cpix xmlns:cpix="urn:dash:org:cpix" xmlns:psk="urn:ietf:params:xml:ns:psk" psk:pskid="1">
  <cpix:ContentKeyList>
    <cpix:ContentKey>
      <psk:PlaintextValue>31gI</psk:PlaintextValue>
    </cpix:ContentKey>
  </cpix:ContentKeyList>
</cpix:CPIX>
```

- **systemId**: WisePlay System ID - 3d5e6d35-9b9a-b843-dd3c6e72c42c

- **key_id**: The kid used for encryption (also known as KID); Base 64 encoded with no dashes.

- **key**: The DRM content encryption key (128 bit key); Base 64 encoded.

  For the key value use the `pskc:Secret key` value and decode the Plain Value tag from Base 64 to HEX format in lowercase (no dashes). An example decoder can be found at: https://tomeko.net/online_tools/base64.php?lang=en

  ```
  pskc:Secret key (Base 64) = 7sigIXXXXvSN0aXXXXNrQ==
  
  (KeyHEX) = eec8aXXXX5360XXXX4c1d92ca5570dad
  ```

- **PSSH** - The modular specific protection system specific header (PSSH) data for the encryption process; Base 64 encoded.
Decode the **PSSH** from Base 64 to HEX format. An example decoder can be found at: https://tomeko.net/online_tools/base64.php?lang=en

PSSH (Base 64) =
AAAAq3Bzc2gAAAAAPV5tNZuaOei4Q908bnLELAAAAIt7ImNvbnRlbmRJKCi6IlpETnXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
iwiZW5zY2hlbWeiOjJDRU5Dliwia2lkcyI6WyJOemMzT1RSa1pqS
XhOemd6TkRMU9XSmaRGM0T UdWaE9UQTZVGs1WWpZPSJdLC
J2ZXJzaW9uljoiVjEuMCJ9

PSSH (KeyHEX) =
000000ab707373680000000003d5e6d359b9a41e8b843dd3c6e72c42c0
000008b7b22636f6e74656e744944223a225a44ne73546a686f5aXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX43222c224e7a3334f5426b5a6a49784e7a677a4e4751314f574a685a4463
344d4756684f54413559546b35596a593d225d2c227665723696f6e22
3a2256312e30227d
WisePlay – Raw Key Format

The example raw key format for WisePlay DRM:

```
packager -win.exe in=BigBuckBunny_320x180_Frag.mp4,stream=audio,output=audio.mp4,drm_label=AUDIO in=BigBuckBunny_320x180_Frag.mp4,stream=video,output=video.mp4,drm_label=HD
--enable_raw_key_encryption
--keys label=AUDIO: key_id=77794dfXXX4d59XXX88ea989a99b6:key=eec8aXXX5360XXXX4c1d92ca5570dad,label=HD:key_id=77794dfXXX4d59XXX88ea989a99b6: key=eec8aXXX5360XXXX4c1d92ca5570dad
--pssh 000000ab7073736800000003d5e6d359b9a41e8b843dd3c6e72c42c0000000b7b22636f6e74656e744944223a225a44473546a685f5aXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX43222c2226b96473223a5b224e63334f54526b5a6a49784e7a677a4e4751314f574a685a446334ad4756684f 5441355946b35596a593d225d2c2276657273696f6e2223a2256312e30227d
--protection_systems CommonSystem
--protection_scheme cenc
--mpd_output sample-wiseplay.mpd
```

Output example:

- audio.mp4: 11,989 KB
- sample-wiseplay.mpd: 3 KB
- video.mp4: 51,495 KB
Testing Playback – ExoPlayer App

Use ExoPlayer App found at https://github.com/HMS-Core/hms-wiseplay-demo

Update the following sample lines as follows:

```json
{
  "name": "wiseplay dash cenc",
  "uri": "<<URI TO sample-wiseplay.mpd>>",
  "drm_scheme": "wiseplay",
  "drm_license_url": "https://wiseplay.ezdrm.com"
},
```
Additional Information

For additional questions and comments please contact: simplify@ezdrm.com