EZDRM CPIX Keys Guide
Introduction

The base CPIX.aspx URL for EZDRM is shown below:

https://cpix.ezdrm.com/KeyGenerator/cpix.aspx

Here is an example of the URL with parameters defined:

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):

```xml
<exampleXMLReturn>
<exampleTag1>Value1</exampleTag1>
<exampleTag2>Value2</exampleTag2>
</exampleXMLReturn>
```
CPIX Parameters

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

https://cpix.ezdrm.com/KeyGenerator/cpix.aspx?k=ebXXXXXX-abXX-4XX4-8X6c-XXXXaXXfXXXX&u=username&p=password&c=resourcename&m=1

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<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>
<tr>
<td>“m” value not provided</td>
<td>Default (returns all available keys)</td>
</tr>
<tr>
<td>m=0</td>
<td>Default (returns all available keys)</td>
</tr>
<tr>
<td>m=1</td>
<td>MPEG-DASH (PlayReady &amp; Widevine)</td>
</tr>
<tr>
<td>m=2</td>
<td>HLS (FairPlay)</td>
</tr>
</tbody>
</table>
Widevine/PlayReady MPEG-DASH (m=1)

The sample URL for MPEG-DASH for Widevine and PlayReady is as follows:
https://cpix.ezdrm.com/KeyGenerator/cpix.aspx?k=ebXXXXXX-abXX-4XX4-8X6c-XXXXaXXfXXXX&u=username&p=password&c=resourcename&m=1

Key Value Definitions

Here are the descriptions of the key values returned by EZDRM:

cpix:ContentKeyList
  kid – Key ID in GUID format
  pskc:Secret – the Secret Content Encryption Key in Base 64 generated by EZDRM and returned as a plain value

DRM System List
  kid – Key ID in GUID format
  systemId – Widevine System ID
  cpix:PSSH – Widevine PSSH value
  kid – Key ID in GUID format
  systemId – PlayReady System ID
  cpix:PSSH – PSSH Value
  ContentProtectionData – the MS Pro Header

XML Return
Apple FairPlay DRM for HLS (m=2)

The sample URL for HLS for Apple FairPlay is as follows:
https://cpix.ezdrm.com/KeyGenerator/cpix.aspx?k=ebXXXXXX-abXX-4XX4-86c-XXXXaXXfXXX&u=username&p=password&c=resourcename&m=2

Key Value Definitions

Here are the descriptions of the key values returned by EZDRM:

cpix:ContentKeyList
  kid – Key ID in GUID format
  explicitIV – Apple FairPlay Explicit IV value
  Secret – the Secret Content Encryption Key in Base 64 generated by EZDRM and returned as a plain value

DRM System List
  kid – Key ID in GUID format
  systemId – Apple FairPlay System value
  URIExtXKey – the Apple FairPlay URI Ext Key value

XML Return

The XML file does not appear to have any style information associated with it. The document tree is shown below.
Default CPIX.aspx (m=0 // no m value)

When no “m” value is provided, the default XML file is sent with all available key values.

Key Value Definitions

Here are the descriptions of the key values returned by EZDRM:

- **cpix:ContentKeyList**
  - **kid** – Key ID in GUID format
  - **explicitIV** – Apple FairPlay Explicit IV value
  - **pskc:Secret** – the Secret Content Encryption Key in Base 64 generated by EZDRM and returned as a plain value

- **DRM System List**
  - **kid** – Key ID in GUID format
  - **systemId** – Widevine System ID
  - **cpix:PSSH** – Widevine PSSH value
  - **systemId** – PlayReady System ID
  - **cpix:PSSH** – PSSH Value
  - **ContentProtectionData** – the MS Pro Header
  - **kid** – Key ID in GUID format
  - **systemId** – Apple FairPlay System value
  - **URIExtXKey** – the Apple FairPlay URI Ext Key value

Below is an example of the default XML return:
Additional Information

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