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Introduction

The following document outlines integration with EZDRM Encoding using the MediaKind Controller.

Widevine/PlayReady Common Encryption (CENC)

Catalog Creation

The first step is to create a catalog to store files for encoding. Within the catalog the Output settings are configured for encryption.

1. Click on Services menu on the right-hand column.
2. Click **Add service**. Select **Catalog**.

3. Enter a **Name** for the Catalog. Then click **Add new output**.
4. Select **HLS or DASH over CMAF**.

5. On the General tab, enter a unique **Output name**. Keep the other defaults.

6. For the DASH tab, keep the defaults.

7. For the HLS tab, keep the defaults.
9. On the Delivery tab – **Access URL**, for this example we are using the same Output name from the General tab (be sure it matches exactly). This will create a local folder with the same name on the encoding server for playback.

![Delivery tab](image)

10. On the Encryption tab enter the following parameters:

   - From the **Encryption** dropdown, select **Common Encryption (CENC)**
   - From the **Key generation mode** dropdown select **External key (Compatible CPIX)**
   - For the **Key server URL** enter the **EZDRM CPIX Key Generator URL** that includes the Key, Username, Password and Resource name (see [next section](#) for more details)
   - **Widevine** and **PlayReady** checkboxes should be checked

11. For the Content Replacement tab, keep the defaults.
12. Click **Save and exit**.

The catalog with encryption is now created.

### The EZDRM CPIX Key Generator URL

The Base URL for EZDRM Key Generation is formatted as follows:

```
```
The parameters include:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>k</td>
<td>kid or Key ID value (client generated) in GUID format*</td>
</tr>
<tr>
<td>u</td>
<td>EZDRM username</td>
</tr>
<tr>
<td>p</td>
<td>EZDRM password</td>
</tr>
<tr>
<td>c</td>
<td>Content ID – generic resource name/identifier (client generated) – passed into id field</td>
</tr>
</tbody>
</table>

* To generate a GUID for the k value, you can use a GUID generator like the one found here: [http://guid-convert.appspot.com](http://guid-convert.appspot.com).

**On-Demand Packaging**

The second step is to create the On-Demand Packaging for the Catalog.

1. From the **Services** Menu click **Add service**. Select **On-Demand Packaging**.
2. Enter **Name** for Packaging

3. Select the correct **Catalog** from the dropdown, created in the previous steps

4. Click **Save and Continue**

5. Click **Add new On-Demand asset**

6. Enter **Asset Name** for the On-Demand Asset
7. Enter the **Access URL** - this is the Delivery Access URL from the Catalog previously created (Services / Controller / Catalog / Output / Delivery / Access URL)

8. Enter **Source URL** – the source file location for the MPD file

9. Click **Save and Exit**. The Asset will be shown as **Valid** if created successfully.
10. The **Access URL** will now produce the MPD file with encryption, see example below:
Apple FairPlay Common Encryption (CBCS)

Catalog Creation

The first step is to create a catalog to store files for encoding. Within the catalog the Output settings are configured for encryption.

1. Click on **Services** menu on the right-hand column.

2. Click **Add service**. Select **Catalog**.
3. Enter a **Name** for the Catalog. Then click **Add new output**.

4. Select **HLS** or **DASH** over **CMAF**.

5. On the General tab, enter a unique **Output name**. Keep the other defaults.

6. For the DASH tab, keep the defaults.

7. For the HLS tab, keep the defaults.
8. On the Delivery tab – for the **Access URL**, for this example we are using the same Output name from the General tab (be sure it matches exactly). This will create a local folder with the same name on the encoding server for playback.

9. On the Encryption tab enter the following parameters:

   - From the **Encryption** dropdown, select **Common Encryption (CBCS)**
   - From the **Key generation mode** dropdown select **External key (Compatible CPIX)**
   - For the **Key server URL** enter the **EZDRM CPIX Key Generator URL** that includes the Key, Username, Password and Resource name (see [next section](#) for more details)
   - **Widevine** and **PlayReady** checkboxes should be **unchecked**, and the **Apple** Checkbox should be **checked**.

10. For the Content Replacement tab, keep the defaults.
11. Click **Save and exit**.

The catalog with encryption is now created.

---

### The EZDRM CPIX Key Generator URL

The Base URL for EZDRM Key Generation is formatted as follows:

```
https://cpix.ezdrm.com/keygenerator/cpix.aspx?
k=kid&u=username&p=password&c=resourcename&m=hls
```

The parameters include:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>k</td>
<td>kid or Key ID value (client generated) in GUID format*</td>
</tr>
<tr>
<td>u</td>
<td>EZDRM username</td>
</tr>
<tr>
<td>p</td>
<td>EZDRM password</td>
</tr>
<tr>
<td>C</td>
<td>Content ID – generic resource name/identifier (client generated) – passed into id field</td>
</tr>
<tr>
<td>m</td>
<td>Media type, enter hls to return FairPlay key values</td>
</tr>
</tbody>
</table>

* To generate a GUID for the k value, you can use a GUID generator like the one found here: [http://guid-convert.appspot.com](http://guid-convert.appspot.com).

* The **Key ID** used in the CPIX call is the Asset ID for your player.
On-Demand Packaging

The second step is to create the On-Demand Packaging for the Catalog.

11. From the Services Menu click Add service. Select On-Demand Packaging.

12. Enter Name for Packaging

13. Select the correct Catalog from the dropdown, created in the previous steps

14. Click Save and Continue
15. Click **Add new On-Demand asset**

16. Enter Asset **Name** for the On-Demand Asset

17. Enter the **Access URL** - this is the Delivery Access URL from the Catalog previously created (Services / Controller / Catalog / Output / Delivery / Access URL)

18. Enter **Source URL** – the source file location for the MPD file

19. Click **Save and Exit**. The Asset will be shown as Valid if created successfully.
20. The Asset will be shown as **Valid** if created successfully.

21. The **Access URL** will now produce the M2U8 file with encryption, see example below:

The **Key ID** used in the CPIX call is the Asset ID for your player.
Additional Information

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