

EZDRM Integration Radiant Media Player

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Introduction

This document outlines the steps necessary to successfully integrate EZDRM with the Radiant Media Player.

Radiant Media Player accepts streams from an MPEG-DASH (*.mpd) file for Microsoft PlayReady and Google Widevine, or a *.m3u8 file for Apple FairPlay and HLS.

For more information about Radiant Media Player, visit:

<https://www.radiantmediaplayer.com/guides/working-with-ezdrm.html>

Requirements

1. EZDRM Account
2. Basic understanding of HLS, MPEG/DASH, and other streaming protocols and formats

Widevine/PlayReady Universal DRM

MPEG-DASH requires 3 values:

1. The **.mpd URL**
2. The **Widevine Proxy URL (Licence Acquisition URL)**
3. The **PlayReady Proxy URL (License Acquisition URL)**

Obtaining a PX Value

You will need your six-digit PX value as part of the Proxy URLs in the upcoming sections.

Your Widevine PX value is the last six characters of your Widevine Profile ID. Your PlayReady PX value is the last six characters of your PlayReady Profile ID. The appropriate one is required for all packagers you use.

Visit www.ezdrm.com then navigate to **Documentation > EZDRM Testing Playback** for more details on how to find your PX value.

Proxy URL - Widevine

For all packagers (except AWS, Anevia, and related ones), the base proxy URL is: <https://widevine-dash.ezdrm.com/proxy?pX=XXXXXX>

Replace **XXXXXX** with your PX Value.

Widevine for CPIX or SPEKE-based encoders

The Widevine proxy URL is different for these packagers. The base URL is: <https://widevine-dash.ezdrm.com/widevine-php/widevine-foreignkey.php?pX=XXXXXX>

Replace **XXXXXX** with your Widevine PX Value.

Proxy URL - PlayReady

For PlayReady, the base proxy URL is:

[https://playready.ezdrm.com/cency/preauth.aspx?pX= XXXXXX](https://playready.ezdrm.com/cency/preauth.aspx?pX=XXXXXX)

Replace **XXXXXX** with your PlayReady PX Value.

Sample Widevine/PlayReady Script

```
<script src="https://cdn.radiantmediatechs.com/rmp/6.4.12/js/rmp.min.js"></script>
<div id="rmpPlayer"></div>
<script>
  // DASH streaming URL
  var src = {
    dash: 'https://your-dash-url.mpd'
  };
  // EZDRM license server for PlayReady
  var playReadyLaURL = 'https://playreadyv.ezdrm.com/cency/preauth.aspx?pX=XXXXXX';
  // EZDRM license server for Widevine
  var widevineLaURL = 'https://widevine-dash.ezdrm.com/proxy?pX=XXXXXX';
  // create Radiant Media Player instance
  var elementID = 'rmpPlayer';
  var rmp = new RadiantMP(elementID);
  var settings = {
    licenseKey: 'your-Radiant-license-key',
    src: src,
    width: 640,
    height: 360,
    contentMetadata: {
      poster: [
        'https://your-poster-url.jpg'
      ]
    },
  },
  // here we pass our EZDRM DRM data
  shakaDrm: {
    servers: {
      "com.widevine.alpha": widevineLaURL,
      "com.microsoft.playready": playReadyLaURL
    }
  }
};
rmp.init(settings);
</script>
```

Apple FairPlay DRM for HLS

Apple FairPlay requires 3 values.

1. The **.m3u8 URL**
2. The **license_url**
 - The base license_url is **[<<ASSET-ID>>](https://fps.ezdrm.com/api/licenses/)**
3. The **FPS cert URL**
 - This is the .cer file provided by Apple. This URL should be either on your Website or CDN.

Sample Fairplay Script

```
<script src="https://cdn.radiantmediatechs.com/rmp/6.4.12/js/rmp.min.js"></script>
<div id="rmpPlayer"></div>
<script>
  var src = {
    fps: '<<HTTPS_LOCATION_OF_YOUR_M3U8_FILE>>'
  };
  // we define our functions and variables to be passed to the player
  // this is specific to FairPlay streaming with EZDRM
  // extractContentId
  var extractContentId = function (initData) {
    var arrayToString = function (array) {
      var uint16array = new Uint16Array(array.buffer);
      return String.fromCharCode.apply(null, uint16array);
    };
    var uri = arrayToString(initData);
    var uriParts = uri.split('://', 1);
    var protocol = uriParts[0].slice(-3);
    uriParts = uri.split('; ', 2);
    var contentId = uriParts.length > 1 ? uriParts[1] : '';
    return protocol.toLowerCase() == 'skd' ? contentId : '';
  };
  // licenseRequestMessage
  var licenseRequestMessage = function (message) {
    return new Blob([message], { type: 'application/octet-binary' });
  };
  // licenseRequestLoaded
  var licenseRequestLoaded = function (event) {
    var request = event.target;
    if (request.status == 200) {
      var blob = request.response;
      var reader = new FileReader();
    }
  };
</script>
```

```

reader.addEventListener('loadend', function () {
    var array = new Uint8Array(reader.result);
    request.session.update(array);
});
reader.readAsArrayBuffer(blob);
}
};
// processSpcPath
var processSpcPath = 'https://fps.ezdrm.com/api/licenses/<<ASSET-ID>>' + '?p1=' + Date.now();
// licenseRequestHeaders
var licenseRequestHeaders = [
    {
        name: 'Content-type',
        value: 'application/octet-stream'
    }
];
var settings = {
    licenseKey: 'your-Radiant-license-key',
    src: src,
    width: 640,
    height: 360,
    contentMetadata: {
        poster: [
            'https://your-poster-url.jpg'
        ]
    },
    // we pass here our FPS setting through fpsDrm object
    fpsDrm: {
        certificatePath: '<<HTTPS LOCATION OF YOUR CERTIFICATE>>',
        processSpcPath: processSpcPath,
        licenseResponseType: 'blob',
        licenseRequestHeaders: licenseRequestHeaders,
        certificateRequestHeaders: [],
        extractContentId: extractContentId,
        licenseRequestMessage: licenseRequestMessage,
        licenseRequestLoaded: licenseRequestLoaded
    }
};
var elementID = 'rmpPlayer';
var rmp = new RadiantMP(elementID);
rmp.init(settings);
</script>

```

Additional Information

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