

EZDRM Apple FairPlay TVML Player

Table of Contents

Introduction.....	3
TVML Player	3
Additional Information	4

Version 1.0 (published August 5, 2024)

Introduction

This player walkthrough will cover the Java script-based method for making DRM calls using Apple FairPlay TVML.

TVML Player

The TVML player will utilize JSON format.

The player link for EZDRM:

<https://ezdrm-public-demos.s3.amazonaws.com/fairplay/tvml/player.html>

The source location is located at:

<https://ezdrm-public-demos.s3.amazonaws.com/fairplay/source/tvml.zip>

The .zip file includes the JavaScript file and the player HTML document.

The classic player sent binary, but the TVML player sends the JSON formatted content_id from the .m3u8 file and the spc_message that is automatically generated.

It assumes the Key Server Module will respond in the following JSON-encoded format:

```
{
  "fairplay-streaming-response" : {
    "streaming-keys" : [ <key payload>, ... ]
  }
}
```

Your own KSM protocol may be different.

```
*/
async function getResponse(event, spcPath, keyURI) { // ADAPT: Tailor this to your own protocol.
  let licenseResponse = await fetch(spcPath, {
    method: 'POST',
    headers: new Headers({'Content-type': 'application/x-www-form-urlencoded'}),
    body: JSON.stringify({
      "content_id" : keyURI,
      "spc_message" : base64EncodeUint8Array(new Uint8Array(event.message)),
    }),
  });
  let license = await licenseResponse.text();
  // responseObject = JSON.parse(license.trim());
  // let keyResponse = responseObject["fairplay-streaming-response"]["streaming-keys"][0];
  return base64DecodeUint8Array(license.trim());
}
```

Download the JS source file and update the serverCertificatePath and the serverProcessSPCPath.

```
<head>
<title>TVML FPS Template</title>
<script src="fps_safari_support.js"></script>
<script>
  let serverCertificatePath = 'https://fps.ezdrm.com/Support/1007/sample.cer'; // ADAPT: This is the path to the fps certificate on your server.
  let serverProcessSPCPath = 'https://fps.ezdrm.com/tvmlkit/default.aspx?pX=F5926B'; // ADAPT: This is the path/URL to the keyserver module that processes the SPC and returns a CKC.
  async function startVideo()
  {
    let video = document.querySelector('video');
    video.addEventListener('error', onerror, false);
    // ADAPT: Fetch or build the appropriate m3u8 URL.
    video.src = 'https://ezdrm-demos.s3.amazonaws.com/coconut/hls1008/master.m3u8';
    let event = await waitFor(video, 'encrypted');
    await encrypted(event);
  }
}
```

```
let serverCertificatePath = 'https://fps.ezdrm.com/Support/1007/sample.cer'; // ADAPT: This is the path to
the fps certificate on your server.
let serverProcessSPCPath = 'https://fps.ezdrm.com/tvmlkit/default.aspx?pX=F5926B'; // ADAPT: This is
the path/URL to the keyserver module that processes the SPC and returns a CKC.
```

Additional Information

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