While any CMAF-packetized HLS stream is active in Wowza Streaming Engine™ media server software version 4.7.8 or later, you can query for information about the content of the stream. This can be helpful in troubleshooting problems or playback issues.

Customize HLS segment format names

By default, Wowza Streaming Engine uses `wowzasegmentformat` as the default query parameter name, but you can customize it. For example, if you don’t like `wowzasegmentformat`, specify a different value, such as `mySegmentFormat`.

1. Navigate to the `Application.xml` file for your CMAF live stream application. If you’re using the default live application that installs with Wowza Streaming Engine, navigate to `[install-dir]/conf/live`.
2. Open `Application.xml` in a text editor.
3. In the `<HTTPStreamer>` container element, add the `segmentFormatQueryParameter` property. The XML looks like this:

   ```xml
   <HTTPStreamer segmentFormatQueryParameter="mySegmentFormat"/>
   ```

4. Save your changes and restart Wowza Streaming Engine.

Query a CMAF HLS stream

You can run a cURL command against any CMAF-packetized HLS playback URL or media playlist to get information about the contents of the stream or playlist. Execute the command in a Command Prompt or Terminal window on the server that’s running Wowza Streaming Engine while the stream is active; you can use segment keys or query parameters, as desired. Here are some examples.

View an HLS stream

Note: You can run the same query on a Cupertino-packetized HLS stream, too.

The command returns the details of the stream, including the active media playlist (chunklist):

```
#EXTM3U
#EXT-X-VERSION:3
```
View the .ts segments in a CMAF HLS stream

Specify the segment format in as a key in the URL:

```
curl http://localhost:1935/live/myStream/playlist_sfts.m3u8
```

or as a query parameter:

```
curl http://localhost:1935/live/myStream/playlist.m3u8?wowzasegmentformat=ts
```

Both commands return the details of the master playlist, including the active media playlist, which look something like this:

```
#EXTM3U
#EXT-X-VERSION:3
#EXT-X-STREAM-INF:BANDWIDTH=229360,CODECS="avc1.66.31,mp4a.40.2",RESOLUTION=1280x720
chunklist_w56824014_sfts.m3u8
```

View the .ts segments in an HLS media playlist

This example specifies the segment type as a key in the URL:

```
curl http://localhost:1935/live/myStream/playlist_sfm4s.m3u8
```

The command returns the details of the .ts segments, which look something like this:

```
#EXTM3U
#EXT-X-VERSION:3
#EXT-X-TARGETDURATION:6
#EXT-X-MEDIA-SEQUENCE:40
#EXTINF:6.0, media_w56824014_sfts_40.ts
#EXTINF:6.0, media_w56824014_sfts_41.ts
#EXTINF:6.0, media_w56824014_sfts_42.ts
```

View the fMP4 segments in a CMAF HLS stream

Specify the segment format in as a key in the URL:

```
curl http://localhost:1935/live/myStream/playlist_sfts.m3u8
```

or as a query parameter:

```
curl http://localhost:1935/live/myStream/playlist.m3u8?wowzasegmentformat=m4s
```

Both commands return the details of the master playlist, including the active media playlist, which look something like this:
like this:

```text
#EXTM3U
#EXT-X-VERSION:3
#EXT-X-MEDIA:TYPE=AUDIO,NAME="myStream",DEFAULT=YES,GROUP-ID="audioGroup",URI="chunklist_w202553310_ao_sfm4s.m3u8"
#EXT-X-STREAM-INF:BANDWIDTH=196127,CODECS="avc1.66.31,mp4a.40.2",RESOLUTION=1280x720,AUDIO="audioGroup"
chunklist_w202553310_vo_sfm4s.m3u8
```

View the video fMP4 segments in an HLS media playlist

This example requests only the video portion (vo) of an fMP4 (sfm4s) media playlist:

```text
#EXTM3U
#EXT-X-VERSION:5
#EXT-X-INDEPENDENT-SEGMENTS
#EXT-X-MEDIA-SEQUENCE:20
#EXT-X-TARGETDURATION:6
#EXT-X-MAP:URI="header_w202553310_vo_sfm4s_m3u8.cmfv"
#EXTINF:6.0, media_w202553310_vo_sfm4s_20_m3u8.cmfv
#EXTINF:6.0, media_w202553310_vo_sfm4s_21_m3u8.cmfv
#EXTINF:6.0, media_w202553310_vo_sfm4s_22_m3u8.cmfv
#EXTINF:6.0, media_w202553310_vo_sfm4s_23_m3u8.cmfv
#EXTINF:6.0, media_w202553310_vo_sfm4s_24_m3u8.cmfv
```

View the segments in a CMAF HLS media playlist

You can also query the media playlist without specifying the format.

```text
#EXTM3U
#EXT-X-VERSION:3
#EXT-X-TARGETDURATION:6
#EXT-X-MEDIA-SEQUENCE:40
#EXTINF:6.0, media_w56824014_40.ts
#EXTINF:6.0, media_w56824014_41.ts
```

The result shows the segments in the playlist, which in this example are .ts:
#EXTINF:6.0,
media_w56824014_42.ts