

Learn About Supported Media File Types for Uploading

Overview

This article describes the video file types that can be uploaded to Panopto for Cloud and On-Prem customers.

Video files are comprised of containers and codecs. The most common format is an MP4 container, with H.264 Video codec and AAC audio codec. The following article includes the containers and codecs officially supported by Panopto Cloud and Panopto On-Prem setups. To provide an optimal streaming experience, Panopto encodes into AAC/H264 and packages into HLS in multiple quality levels for video playback in any modern browser.

Please note: We do not support file types with multi-track video or multi-track audio.

1. Cloud Support

1.1. Panopto is compatible with a wide variety of common containers and codecs - officially supported containers and codecs are listed below. *Please note: Panopto Cloud supports a bitrate of 2.5 Mbps. Any bitrate or resolution higher than this will be downscaled.*

- **Containers with Example Extensions**
 - MP4 (.mp4, .m4a, .m4v, .3gp)
 - MOV (.mov, .qt)
 - ASF (.wmv, .wma)
 - WEBM (.webm)
 - Matroska (.mkv, .mka)
 - MPEG-2 PS/MPEG-1 (.mpg, .mpeg, .mps, .ps, .mp2, .m2v, .m2a)
 - MPEG-2 TS (.ts, .tsv, .tsa, .mts, .m2ts, .mpeg, .mod, .tod)
 - FLV (.flv)
 - AVI (.avi)
 - MP3 (.mp3)
 - FLV v2 (.f4v, .f4a)
- **Video Codecs**
 - H.264 / AVC1
 - H.265
 - H.263/MPEG-4 Video
 - H.262/MPEG-2 Video
 - H.261/MPEG-1 Video
 - AV1
 - VP9
 - VP8
 - VP7
 - VP6
 - MJPEG
 - VC1/WMV3
 - WMV2
 - WMV1

- Windows Media Screen Codec 1
- Windows Media Screen Codec 2
- Spark (aka Sorenson 3, and FLV1)
- DV formats
- **Audio Codecs**
 - AAC
 - AC3
 - FLAC
 - Vorbis
 - Opus
 - MP3
 - PCM
 - WMA3 aka WMA9
 - WMA2
 - WMA1
 - WMA10 Voice
 - WMA9 Voice
 - WMA9 Pro

2. On-Prem Support

2.1. Upload support for On-Prem customers will align with the same supported file types as the cloud with a future update. The current version support is as follows in sections 3 through 11, and is applicable as of September 2021.

3. ASF (Advanced Systems Format)

The following is intended for On-Prem customers:

Other Names: WMV, WMA

Accepted File Extensions: .wmv, .asf, .wma

Accepted Video Codecs:

| Codec | On-Prem Support | Cloud Support |
|------------------------------|------------------------------------------|----------------------------|
| VC1/WMV3 | Yes | Yes |
| WMV2 | Yes | Yes |
| WMV1 | Yes | Yes |
| Windows Media Screen Codec 1 | Yes | Yes |
| Windows Media Screen Codec 2 | Yes | Yes |
| GoToMeeting(v1, v2, and v3) | With side installation of GTM Codec Pack | Yes |
| H.264 | With side installation of LAV/FFDShow | Yes |
| H.263/MPEG-4 Video | With side installation of LAV/FFDShow | Yes |
| H.262/MPEG-2 Video | With side installation of LAV/FFDShow | Yes |
| H.261/MPEG-1 Video | With side installation of LAV/FFDShow | Yes |
| MJPEG | Yes | Yes |
| Techsmith 1 | Yes | With side install of Codec |

Accepted Audio Codecs

| Codec | On-Prem Support | Cloud Support |
|---------------|---------------------------------------|---------------|
| WMA1 | Yes | Yes |
| WMA2 | Yes | Yes |
| WMA3 aka WMA9 | Yes | Yes |
| WMA9 Pro | Yes | Yes |
| WMA9 Voice | Yes | Yes |
| WMA10 Voice | Yes | Yes |
| MP3 | Yes | Yes |
| AAC | With side installation of LAV/FFDShow | Yes |
| PCM | Yes | Yes |
| AC3 | With side installation of LAV/FFDShow | Yes |

4. FLV Flash Video v1

The following is intended for On-Prem customers:

Accepted File Extensions: .flv

Accepted Video Codecs:

| Codec | On-Prem Support | Cloud Support |
|----------------------------------|---------------------------------------------------------|---------------|
| Spark (aka Sorenson 3, and FLV1) | With side installation of LAV/FFDShow, and FLV Splitter | Yes |
| VP6 | With side installation of LAV/FFDShow, and FLV Splitter | Ye |

Accepted Audio Codecs

| Codec | On-Prem Support | Cloud Support |
|-------|---------------------------------------------------------|---------------|
| MP3 | With side installation of FLV Splitter | Yes |
| PCM | With side installation of FLV Splitter | Yes |
| AAC | With side installation of LAV/FFDShow, and FLV Splitter | Yes |

5. FLV Flash Video v2 (aka F4V)

The following is intended for On-Prem customers:

Other Names: Flash MP4

Accepted File Extensions: .f4v, .f4a

Accepted Video Codecs:

| Codec | On-Prem Support | Cloud Support |
|-------|-----------------|---------------|
|-------|-----------------|---------------|

| | | |
|-------|-----|-----|
| H.264 | Yes | Yes |
|-------|-----|-----|

Accepted Audio Codecs

| Codec | On-Prem Support | Cloud Support |
|-------|-----------------|---------------|
| AAC | Yes | Yes |

6. AVI

The following is intended for On-Prem customers:

Other Names: Audio-Video Interlaced format

Accepted File Extensions: .avi

Accepted Video Codecs:

| Codec | On-Prem Support | Cloud Support |
|----------------------------------|------------------------------------------|---------------|
| DV formats | Yes | Yes |
| Spark (aka Sorenson 3, and FLV1) | With side installation of LAV/FFDShow | Yes |
| GoToMeeting(v1, v2, and v3) | With side installation of GTM Codec Pack | Yes |
| H.264 | With side installation of LAV/FFDShow | Yes |
| H.263/MPEG-4 | With side installation of LAV/FFDShow | Yes |
| H.262/MPEG-2 | With side installation of LAV/FFDShow | Yes |
| H.261/MPEG-1 | With side installation of LAV/FFDShow | Yes |
| Techsmith 1 | With side installation of Codec | Yes |
| MJPEG | Yes | Yes |
| VP6 | With side installation of LAV/FFDShow | Yes |

Accepted Audio Codecs:

| Codec | On-Prem Support | Cloud Support |
|-------|---------------------------------------|---------------|
| MP3 | Yes | Yes |
| AAC | With side installation of LAV/FFDShow | Yes |
| PCM | Yes | Yes |
| AC3 | With side installation of LAV/FFDShow | Yes |

7. MP3

The following is intended for On-Prem customers:

Other Names: MPEG-1 Audio Layer 3

Accepted File Extensions: .mp3

Accepted Video Codecs:

Not Applicable

Accepted Audio Codecs:

| Codec | On-Prem Support | Cloud Support |
|-------|-----------------|---------------|
| MP3 | Yes | Yes |

8. MPEG-2 PS/MPEG1

The following is intended for On-Prem customers:

Other Names: MPEG-2 Program Stream

Accepted File Extensions: .mpg, .mpeg, .mps, .ps, .mp2, .m2v, .m2a

Accepted Video Codecs:

| Codec | On-Prem Support | Cloud Support |
|--------------------|---------------------------------------|---------------|
| H.264 | With side installation of LAV/FFDShow | Yes |
| H.263/MPEG-4 Video | With side installation of LAV/FFDShow | Yes |
| H.262/MPEG-2 Video | With side installation of LAV/FFDShow | Yes |
| H.261/MPEG-1 Video | With side installation of LAV/FFDShow | Yes |
| MJPEG | Yes | Yes |

Accepted Audio Codecs

| Codec | On-Prem Support | Cloud Support |
|---------------|---------------------------------------|---------------|
| WMA1 | Yes | Yes |
| WMA2 | Yes | Yes |
| WMA3 aka WMA9 | Yes | Yes |
| WMA9 Pro | Yes | Yes |
| WMA9 Voice | Yes | Yes |
| WMA10 Voice | Yes | Yes |
| MP3 | Yes | Yes |
| AAC | With side installation of LAV/FFDShow | Yes |
| PCM | Yes | Yes |
| AC3 | With side installation of LAV/FFDShow | Yes |

9. MPEG-2 TS

The following is intended for On-Prem customers:

Other Names: MPEG-2 Transport Stream

Accepted File Extensions: .ts, .tsv, .tsa, .mts, .m2ts, .mpg, .mpeg, .mod, .tod

Accepted Video Codecs:

| Codec | On-Prem Support | Cloud Support |
|--------------------|---------------------------------------|---------------|
| H.264 | With side installation of LAV/FFDShow | Yes |
| H.263/MPEG-4 Video | With side installation of LAV/FFDShow | Yes |
| H.262/MPEG-2 Video | With side installation of LAV/FFDShow | Yes |

| | | |
|--------------------|---------------------------------------|-----|
| H.261/MPEG-1 Video | With side installation of LAV/FFDShow | Yes |
| MJPEG | Yes | Yes |

Accepted Audio Codecs

| Codec | On-Prem Support | Cloud Support |
|-------|---------------------------------------|---------------|
| MP3 | Yes | Yes |
| AAC | With side installation of LAV/FFDShow | Yes |
| PCM | Yes | Yes |
| AC3 | With side installation of LAV/FFDShow | Yes |

10. MOV

The following is intended for On-Prem customers:

Other Names: Quicktime File Format, QTFF

Accepted File Extensions: .mov, .qt

Accepted Video Codecs:

| Codec | On-Prem Support | Cloud Support |
|--------------------|-----------------|---------------|
| H.264 | Yes | Yes |
| H.263/MPEG-4 Video | Yes | Yes |

Accepted Audio Codecs

| Codec | On-Prem Support | Cloud Support |
|-------|-----------------|---------------|
| AAC | Yes | Yes |

11. MP4

The following is intended for On-Prem customers:

Accepted File Extensions: .mp4, .m4a, .m4v, .3gp

Accepted Video Codecs:

| Codec | On-Prem Support | Cloud Support |
|--------------------|---------------------------------------|---------------|
| H.264 | Yes | Yes |
| H.263/MPEG-4 Video | Yes | Yes |
| AVC1 | With side installation of LAV/FFDShow | Yes |

Accepted Audio Codecs:

| Codec | On-Prem Support | Cloud Support |
|-------|-----------------|---------------|
| AAC | Yes | Yes |

MP3

Yes

Yes

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