

Supported codecs in Windows Embedded Standard and Industry

This document describes the encoders and decoders that are supported in various versions of Windows Embedded Standard and Industry.

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Applicable to

Windows Embedded distributors, direct OEMs, and OEMs who purchase through distribution

Summary

The details contained in this article are for informational purposes only. This article lists the codecs included in Windows Embedded versions, including Windows Embedded Standard 7 (Standard 7), Windows Embedded 8 Standard (Standard 8), Windows Embedded 8 Industry (Industry 8), and Windows Embedded 8.1 Industry (Industry 8.1). This information applies to all licensing SKUs of Standard 7, Standard 8, Industry 8, and Industry 8.1.

Details

Microsoft does not provide licenses for any codecs in Standard 7, Standard 8, Industry 8, or Industry 8.1 software with the exception of the following:

- Windows Media Audio (WMA)
- Non-VC1 versions of Windows Media Video (WMV)
- Two-channel Dolby Digital (audio decoding is also included as specified in the product-specific OEM Embedded license terms)
- AVC (H.264) and/or VC-1 may be covered by Microsoft's payment of the OEM cap in limited, multifunction personal computer contexts. Please contact Microsoft if you believe that you fall in this narrow category.

Please see your OEM Embedded license terms for further definitions of licenses and obligations. Additional guidance about licensing is included at the end of this document.

This communication is for informational purposes only. Microsoft makes no warranties, express, implied, or statutory, as to the information in this communication.

Supported codecs

This section lists the containers and codecs that are supported in Standard 7, Standard 8, Industry 8, and Industry 8.1. Codec support in Windows Embedded versions is mostly the same as in the appropriate Windows version.

Use this list as a guide. It is not a definitive list of all codecs supported in Standard 7, Standard 8, Industry 8, or Industry 8.1.

Containers

The following table shows the support for containers in Windows Embedded, including the name of the DLL for the container:

Container	File name	Standard 7	Standard 8	Industry 8	Industry 8.1
3GP and 3G2	mfmp4srcsnk.dll for Standard 8, Industry 8, and Industry 8.1; mf.dll for Standard 7	X	X	X	X

Container	File name	Standard 7	Standard 8	Industry 8	Industry 8.1
AAC LATM/LOAS	Mfaacenc.dll, msmpeg2adec.dll and MSAudDecMFT.dll on Standard 8, Industry 8, and Industry 8.1	X	X	X	X
Audio Video Interleave (AVI)	quartz.dll on all versions; mfsrcsnk.dll on Standard 8, Industry 8, and Industry 8.1	X	X	X	X
AVCHD	quartz.dll and mfds.dll on all versions; mfmpeg2srcsnk.dll on Standard 8, Industry 8, and Industry 8.1	X	X	X	X
MP3/M3U	mfsrcsnk.dll	X	X	X	X
MPEG-2 Systems/MPEG-2 transport stream container/mux onto stream	mfmpeg2srcsnk.dll for Standard 8 and Industry 8.1; quartz.dll for DirectShow		X		X
MPEG-4 Part 14 (.MP4) container	mf.dll for Standard 7; mfmp4srcsnk.dll for Standard 8 and Industry 8.1	X	X		X

Codecs

The following table shows the support for common codecs in Windows Embedded:

- Compression describes the type of compression the encoder or decoder uses.
- File name shows the name of the DLL for the encoder or decoder.

Codec	Compression	File name	Standard 7	Standard 8	Industry 8	Industry 8.1
AAC/HE AAC audio decoder	Audio	Msmpeg2adec.dll on Standard 7 and Standard 8, MSAudDecMFT.dll on Standard 8, Industry 8, and Industry 8.1	X	X	X	X
Cinepak decoder	Video	lccvid.dll	X	X	X	X
Dolby Digital encoder and decoder	Audio	Mzac3enc.dll for the encoder on Standard 7 and Standard 8; msmpeg2adec.dll for the decoder on Standard 7, Standard 8, Industry 8, and Industry 8.1; Msauddecmf	X	X	X	X

Codec	Compression	File name	Standard 7	Standard 8	Industry 8	Industry 8.1
		t.dll for the decoder on Standard 8, Industry 8, and Industry 8.1				
Dolby Digital Plus (DD+), also called E-AC-3, audio decoder	Audio	msmpeg2adec.dll for the decoder on Standard 7, Standard 8, Industry 8, and Industry 8.1; Msauddecmf.t.dll for the decoder on Standard 8, Industry 8, and Industry 8.1		X	X	X
DV encoder and decoder	Video	qdv.dll for DShow, mfdvdec.dll for the Media Foundation decoder (no encoder)	X	X	X	X
G.711 encoder and decoder	Voice audio	msg711.acm	X	X	X	X
H.264 Video/MPEG-4 Part 10/AVC encoder and decoder	Video	Mfh264enc.dll for the encoder,	X	X	X	X

Codec	Compression	File name	Standard 7	Standard 8	Industry 8	Industry 8.1
		Msmpeg2vdec.dll for the decoder				
JPEG encoder and decoder	Still image	quartz.dll for DShow; mfjpegdec.dll for the Media Foundation decoder (no encoder); mf.dll for Standard 8, Industry 8, and Industry 8.1	X	X	X	X
MIDI encoder and decoder	Audio	WINMM.DLL	X	X	X	X
MPEG-1 or MPEG-2 Layer III (MP3) encoder and decoder	Audio	L3codeca.acm for the encoder; L3codecp.acm and Mp3dmod.dll for the decoder	X	X	X	X
MPEG-1 video decoder	Video	quartz.dll for DShow; msmpeg2vdec.dll for Media Foundation for Standard 8,	X	X	X	X

Codec	Compression	File name	Standard 7	Standard 8	Industry 8	Industry 8.1
		Industry 8, and Industry 8.1				
MPEG-2 audio decoder	Audio	Msmpeg2adec.dll on Standard 7 and Standard 8 and Industry 8.1; MsAuddecfmt.dll on Standard 8 and Industry 8.1	X	X		X
MPEG-2 audio encoder	Audio	Msmpeg2enc.dll	X	X		X
MPEG-2 decoder and encoder	Video	msmpeg2enc.dll for the encoder; Msmpeg2vdec.dll for the decoder	X	X		X
MPEG-2 video decoder	Video	Msmpeg2vdec.dll	X	X		X
MPEG-4 Visual Part 2 ASP (DivX/Xvid) and SP Video, also called MPEG-4 Visual, decoder (http://go.microsoft.com/fwlink/p/?LinkId=330021)	Video	MP4SDecd.dll	X	X	X	X
MS GSM 6.11 encoder and decoder	Voice	msgsm32.acm	X			X

Codec	Compression	File name	Standard 7	Standard 8	Industry 8	Industry 8.1
VC-1 Video & Windows Media Video (WMV) encoder and decoder	Video	wmvencod.dll for the encoder; wmvdecod.dll for the decoder	X	X	X	X
Windows Media Audio (WMA) encoder and decoder	Audio	Wmspdmoedll for the encoder, Wmspdmod.dll for the decoder		X	X	X
Windows Media MPEG-4 V1/V2 decoder	Video	MPG4DECD.dll	X	X	X	X
Windows Media MPEG-4 V3 decoder	Video	MP43DECD.dll	X	X	X	X
Windows Media Video 7/8 encoder	Video	Wmvxencd.dll	X	X	X	X
Windows Media Video 9 encoder and decoder	Video	Wmvencod.dll for the encoder, Wmvdecod.dll for the decoder	X	X	X	X
Windows Media Video 9 Screen encoder and decoder	Video	Wmvsencd.dll for the encoder, Wmvsdecod.dll for the decoder	X	X	X	X

Why do the license terms say that a codec is licensed but I still need to get a license?

Some Microsoft products may include codecs that Microsoft is licensed to distribute to you, but for which you are required to obtain your own license to use and distribute. We are required to provide notice of this in our OEM Embedded license terms. In these instances, you may still be required to obtain a license to use or distribute these codecs and pay royalties for a particular use or distribution.

How do I license the codecs?

Please work with your legal counsel to determine the entities from which you may need to seek a license. The relevant technology may be covered by patents from one or more patent holders or by patent pools. This may change over time and the required license may depend on your particular implementation. Therefore, we recommend that you work with your legal counsel to determine the latest, relevant list.

How do I remove a codec?

If you are not using a codec, you can choose to not include it in your Standard 7, Standard 8, or Industry 8 image, but you do so at your own risk. In some cases, several codecs are bundled together so that if you do not include one, you do not include many. Removing codecs is not supported.

For information about the Standard 7 feature packages and the codecs that they contain, see [Premium Codecs](http://go.microsoft.com/fwlink/p/?LinkId=330399) (<http://go.microsoft.com/fwlink/p/?LinkId=330399>).

For information about the Standard 8 and Industry 8 modules and the codecs that they contain, see [Premium Codecs](http://go.microsoft.com/fwlink/p/?LinkId=330400) (<http://go.microsoft.com/fwlink/p/?LinkId=330400>).