

This document describes enhanced metadata support provided by all editions of **Canto Cumulus 8.1**.

Canto Cumulus supports all digital file formats, because it captures core metadata provided by the operating system, such as a file's name, format, size, modification dates, etc. This means any file you can store on your computer or file server can be managed by Cumulus.

Enhanced metadata support means:

- Filters included with Canto Cumulus enable it to extract more metadata about certain file formats than the operating system provides. Examples of this metadata include audio/video durations, layout fonts, presentation and document text, and more.
- Additional capabilities such as previews and writing metadata back into assets might be provided too.

No digital asset management provides enhanced support for more file types than Canto Cumulus, and enhanced support for additional file types can be easily added by Canto partners or your internal development teams, using the Canto Cumulus software developer's kit.

Standards Support							
File Format	File Ext	Mac OS File Type	Cumulus Filters	Read Metadata	Write Back Metadata to Asset	Notes	
EXIF (Exchangeable Image File Format) Digital Camera Support	—	—	• EXIF	✓	—	In order to preserve the integrity of metadata originally collected by the EXIF-enabled camera or capture device, Cumulus does not write-back EXIF metadata to assets.	
XMP (Extensible Metadata Platform) Adobe CS Applications Support	xmp	TEXT	• XMP	✓	✓	Cumulus can write-back XMP-compliant metadata to the file formats indicated throughout this document by a 3 in the "Write Back IPTC/XMP" columns.	
IPTC / IPTC Core / ANPA Binary	—	IPTC	• IPTC	✓	✓	Cumulus can write-back XMP-compliant metadata to the file formats indicated throughout this document by a 3 in the "Write Back IPTC/XMP" columns.	
SCORM Package/Resource	—	—	• SCORM	—	—	SCORM (Sharable Content Object Reference Model) describes the integration of a set of related technical standards, specifications and guidelines, collectively designed to meet accessibility, interoperability, durability and reusability requirements.	

Audio/Video File Formats				Metadata Extraction			Preview / Playback			Special Metadata Handling		
File Format	File Type	File Ext	Mac OS File Type	Cumulus Filters	Thumbnail	Read Metadata	Preview	Multipage Preview	Play Media	Multipage Record	Extract Text	Write Back IPTC/XMP
3GP2 Importer	Audio/Video	3g2	3gp2	• QuickTime • Video	Generate	✓	✓	—	✓	✓	—	—
3GPP Movie Importer	Audio/Video	3gp	3gpp	• QuickTime • Video	Generate	✓	✓	—	✓	✓	—	—
AC3 (AC-3- Sound)	Audio/Video	ac3	ac-3	• Audio • QuickTime	File Icon	✓	✓	—	✓	—	—	—
Adobe Path Resource	Audio/Video	—	AdobePath	• HELIOS	Generate	✓	✓	—	—	—	—	—
Advance Media Video	Audio/Video	amv	AMV	• Video	Generate	✓	✓	—	—	—	—	—
AIFF (Audio Interchange File Format)	Audio/Video	aif aiff	AIFF	• QuickTime (.aif) • Audio (.aiff)	File Icon	✓	✓	—	✓	—	—	—
AMC Importer	Audio/Video	amc	amc	• QuickTime	Generate	✓	✓	—	—	—	—	—
AMF Movie Importer	Audio/Video	m4a	—	• QuickTime	Generate	✓	✓	—	—	—	—	—

Audio/Video File Formats				Metadata Extraction			Preview / Playback			Special Metadata Handling		
File Format	File Type	File Ext	Mac OS File Type	Cumulus Filters	Thumbnail	Read Metadata	Preview	Multipage Preview	Play Media	Multipage Record	Extract Text	Write Back IPTC/XMP
AMR (Adaptive Multi-Rate)	Audio/Video	amr	amr	• QuickTime	Generate	✓	✓	—	—	—	—	—
AU Sound	Audio/Video	au	Au	• Audio	File Icon	✓	✓	—	✓	—	—	—
AU Sound	Audio/Video	au	ULAW	• QuickTime	Generate	✓	✓	—	✓	—	—	—
Audio Data Transport Stream	Audio/Video	aac	adts	• QuickTime	Generate	✓	✓	—	—	—	—	—
AutoDesk Animation	Audio/Video	cel	FLI	• QuickTime • Video	Generate	✓	✓	—	✓	✓	—	—
CAF (CoreAudio Date)	Audio/Video	caf	caff	• QuickTime	Generate	✓	✓	—	—	—	—	—
Compact Disc Audio	Audio/Video	cdda	cdda	• QuickTime	Generate	✓	✓	—	—	—	—	—
Creative Voice	Audio/Video	voc	VOC	• Audio	File Icon	✓	—	—	—	—	—	—
DiamondWare Digitized Sound	Audio/Video	dwd	DWD	• Audio	File Icon	✓	—	—	—	—	—	—
Digital Video	Audio/Video	dv	DV	• MPEG	Generate	✓	✓	—	✓	✓	—	—
DivX	Audio/Video	divx	DIVX	• MPEG	Generate	✓	✓	—	✓	✓	—	—
Downloadable Sound	Audio/Video	dls	DLS	• Audio	File Icon	✓	—	—	—	—	—	—
DV	Audio/Video	dif	dvc!	• QuickTime • MPEG	Generate	✓	✓	—	✓	✓	—	—
E-Mu SoundFont	Audio/Video	sbk	SBK	• Audio	File Icon	✓	—	—	—	—	—	—
FLAC Sound	Audio/Video	flac	FLAC	• Audio	File Icon	✓	—	—	—	—	—	—
Flash	Audio/Video	swf	SWFL	• Flash Filter	Generate	✓	✓	—	—	—	—	—
Flash	Audio/Video	swf	SWF	• Video	Generate	—	✓	—	✓ ⁵	✓ ⁵	—	—
Flash 8	Audio/Video	flv	FLV	• Video	Generate	✓	✓	—	✓ ⁵	✓	—	—
Google Video	Audio/Video	gvi	GVI	• Video	Generate	✓	✓	—	✓	✓	—	—
Grid eXchange	Audio/Video	gxf	GXF	• Video	Generate	✓	✓	—	✓	✓	—	—
GSM Audio	Audio/Video	gsm	GSM	• Audio (with QuickTime)	File Icon	✓	✓	—	✓	—	—	—
GSM Audio Importer	Audio/Video	gsm	GSM	• QuickTime	Generate	✓	✓	—	—	—	—	—
H263	Audio/Video	h263	H263	• Video	Generate	✓	—	—	—	—	—	—
H264	Audio/Video	264	264	• Video	Generate ^{17, 18}	✓	✓	—	✓ ^{17, 18}	—	—	—
Indeo Video	Audio/Video	ivf	IVF	• Video	Generate	✓	✓ ¹⁷	—	✓ ¹⁷	✓ ¹⁷	—	—
KWISF Video	Audio/Video	k3g	k3g	• Video	Generate	✓	✓	—	✓	✓	—	—

Audio/Video File Formats				Metadata Extraction			Preview / Playback			Special Metadata Handling		
File Format	File Type	File Ext	Mac OS File Type	Cumulus Filters	Thumbnail	Read Metadata	Preview	Multipage Preview	Play Media	Multipage Record	Extract Text	Write Back IPTC/XMP
Macintosh System Sound	Audio/Video	sfil	sfil	• QuickTime	Generate	✓	✓	—	—	—	—	—
Matroska Format	Audio/Video	mkv	MKV	• Video	Generate	✓	✓	—	✓	✓	—	—
Metadata Exchange Format	Audio/Video	mxl	MXF	• Video	Generate	✓	✓	—	✓	✓	—	—
MIDI Sound	Audio/Video	kar	Midi	• Audio • QuickTime	File Icon	✓	✓	—	✓	—	—	—
NEW! Multiple Image Network Graphics	Audio/Video	mng	MNGf	• PNG	Generate	✓	✓	—	—	—	—	—
MP3 Format	Audio/Video	mp3	MPG3	• MP3	File Icon	✓	—	—	✓	—	—	—
MPEG Format	Audio/Video	mpg	MPG	• Video	Generate	✓	✓ ⁸	—	✓ ⁴	✓	—	—
MPEG Video	Audio/Video	m14	M1A	• QuickTime	Generate	✓	✓ ⁸	—	✓	—	—	—
MPEG-4 Audio	Audio/Video	m4a	M4A	• Audio	File Icon	✓	✓	—	✓	—	—	—
MPEG-4 Importer	Audio/Video	mp4	mpg4	• QuickTime	Generate	✓	✓ ⁸	—	✓	—	—	—
MTS Video	Audio/Video	mts	MTS	• Video ¹⁸	Generate	✓	✓	—	✓	✓	—	—
MTV Actions Video	Audio/Video	mtv	MTV	• Video	Generate	✓	✓	—	—	✓	—	—
MVE Video	Audio/Video	mve	MVE	• Video	Generate ^{17, 18}	✓	✓ ^{17, 18}	—	✓ ^{17, 18}	—	—	—
Nexia Video	Audio/Video	nxv	NXV	• Video	Generate	✓	✓	—	—	✓	—	—
Nullsoft Video	Audio/Video	nsv	NSV	• Video	File Icon	✓	—	—	—	—	—	—
NUV Video	Audio/Video	nuv	NUV	• Video	Generate ¹⁸	✓	✓ ¹⁸	—	✓ ¹⁸	—	—	—
OGG Format	Audio/Video	ogg	OGG	• Audio • Video ¹⁸	File Icon ¹	✓	✓ ¹⁷	—	✓ ¹⁷	✓ ¹⁷	—	—
Packet Video Audio	Audio/Video	pva	PVA	• Video	Generate	✓	✓	—	✓	✓	—	—
PICS Animation	Audio/Video	pics	PICS	• QuickTime	Generate	✓	✓	—	—	—	—	—
PureVoice	Audio/Video	qcp	celp	• QuickTime	Generate	✓	✓	—	—	—	—	—
QuickTime Movie	Audio/Video	mov	MooV	• QuickTime • Video	Generate	✓	✓	—	✓	✓	—	—
Real Audio	Audio/Video	ra	RA	• Audio	File Icon	✓	✓	—	✓	—	—	—
Real Media	Audio/Video	rmbv	RMVB	• Video	Generate	✓	✓	—	✓	✓	—	—
Real Time Streaming Protocol	Audio/Video	rtsp	rtsp	• QuickTime	Generate	✓	✓	—	—	—	—	—
RIFF MIDI Sound	Audio/Video	rmi	RMI	• Audio	File Icon	✓	✓	—	✓	—	—	—
RoQ Video	Audio/Video	roq	ROQ	• MPEG	Generate	✓	✓	—	✓	—	—	—

Audio/Video File Formats				Metadata Extraction			Preview / Playback			Special Metadata Handling		
File Format	File Type	File Ext	Mac OS File Type	Cumulus Filters	Thumbnail	Read Metadata	Preview	Multipage Preview	Play Media	Multipage Record	Extract Text	Write Back IPTC/XMP
SampleVision Audio	Audio/Video	smv	SMP	• Audio	File Icon	✓	—	—	—	—	—	—
Samsung Video	Audio/Video	svi	SVI	• Video	Generate	✓	✓ ¹⁷	—	✓ ¹⁷	✓ ¹⁷	—	—
Sega Saturn Video	Audio/Video	cpk	CPK	• Video	File Icon	✓	—	—	—	—	—	—
SGI Movie	Audio/Video	mv	MV	• Video	File Icon	✓	—	—	—	—	—	—
ShoutCast	Audio/Video	pls	—	• QuickTime	Generate	✓	✓	—	—	—	—	—
Sierra Video	Audio/Video	vmd	VMD	• Video	File Icon	✓	✓ ^{17, 18}	—	✓ ^{17, 18}	—	—	—
Sigmatel Motion Video	Audio/Video	smv	SMV	• Video	Generate	✓	✓	—	—	✓	—	—
SMIL	Audio/Video	m3u	.SMI	• QuickTime	File Icon	✓	—	—	—	—	—	—
Sound Designer II	Audio/Video	sd2	Sd2f	• QuickTime	Generate	✓	✓	—	—	—	—	—
Speex Audio	Audio/Video	spx	SPX	• Audio	File Icon	✓	—	—	—	—	—	—
TwinVQ Audio	Audio/Video	vgf	VQF	• Audio	File Icon	✓	—	—	—	—	—	—
VIVO Video	Audio/Video	viv	VIV	• Video	Generate	✓	✓	—	—	—	—	—
VQA Video	Audio/Video	vqa	VQA	• Video	Generate ^{17, 18}	✓	✓ ^{17, 18}	—	✓ ^{17, 18}	—	—	—
WAV Sound	Audio/Video	wav	WAV	• Audio	File Icon	✓	✓	—	✓	—	—	—
Wave Sound	Audio/Video	3dm	3DMF	• QuickTime	Generate	✓	✓	—	—	—	—	—
Windows Media	Audio/Video	wmv	WMV	• WMV • Video	Generate	✓	✓	—	✓	✓	—	—
Windows Video	Audio/Video	avi	VfW	• QuickTime	Generate	✓	✓	—	—	—	—	—
Windows Video	Audio/Video	avi	AVI	• Video	Generate	✓	✓	—	✓	✓	—	—
XVID	Audio/Video	xvid	XVID	• Video	Generate	✓	✓ ⁶	—	✓ ⁶	✓	—	—
YUV	Audio/Video	yuv	YUV	• Video	Generate	✓	✓	—	—	✓	—	—

Image/CAD/3D File Formats				Metadata Extraction			Preview / Playback			Special Metadata Handling		
File Format	File Type	File Ext	Mac OS File Type	Cumulus Filters	Thumbnail	Read Metadata	Preview	Multipage Preview	Play Media	Multipage Record	Extract Text	Write Back IPTC/XMP
ArchiCAD Image	Image/CAD	gsm	—	• CAD	Extract	—	✓ ⁶	—	—	—	—	—
AutoCAD Drawing	Image/CAD	dwg	—	• CAD	Extract	—	✓ ⁶	—	—	—	—	—
Bitmap Image	Image/CAD	bmp	BMP	• Bitmap • HELIOS • QuickTime	Generate	✓	✓	—	—	—	—	—
Canon Digital Camera RAW Image	Image/CAD	crw	CCDR	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
Corel Exchange Format/Clipart	Image/CAD	cmx	—	• CorelDRAW	Extract	—	✓ ⁶	✓ ⁶	—	—	—	—
Corel Symbol Library	Image/CAD	cs1	—	• CorelDRAW	Extract	—	✓ ⁶	✓ ⁶	—	—	—	—
CorelDRAW Drawing	Image/CAD	cdr	—	• CorelDRAW	Extract	✓ ¹²	✓ ⁶	✓ ⁶	—	—	—	—
Design Web Format	Image/CAD	dwf	—	• CAD	Extract	✓	✓ ⁶	—	—	—	—	—
DNG Raw Image	Image/CAD	dng	TIFF	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
ECW (Enhanced Compression Wavelet)	Image/CAD	ecw	ECW	• ECW	Generate ¹⁷	✓	✓ ¹⁷	—	—	—	—	—
Enhanced Windows Metafile	Image/CAD	emf	EMF	• WMF	Generate	✓	✓ ⁶	—	—	—	—	—
EPS (Encapsulated PostScript)	Image/CAD	eps	EPSF	• EPS • HELIOS	Generate	✓	✓	—	—	—	—	✓ ¹¹
FlashPix Image	Image/CAD	fpx	FPix	• CompDoc • QuickTime	Generate	✓	✓	—	—	—	—	—
Foveon Digital Camera RAW Image	Image/CAD	x3f	FOVb	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
FreeHand Document	Image/CAD	fh	AGD	• FreeHand	Generate	✓	✓ ⁶	—	—	—	—	—
Fuji Digital Camera RAW Image	Image/CAD	raf	RAF	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
GIF (Graphics Interchange Format)	Image/CAD	gif	GIFf	• GIF • QuickTime	Generate	✓	✓	✓	—	—	—	—
Hasselblad Digital Camera RAW Image	Image/CAD	3fr	3FR	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
Illustrator Drawing	Image/CAD	ai	TEXT	• EPS • PDF	Generate	✓	✓	—	—	—	✓	—
Imacon Digital Camera RAW Image	Image/CAD	fff	FFF	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
IPLab Image	Image/CAD	ipl	IPLI	• IPLab	Generate	✓	✓	✓	—	—	—	—
ISODraw Format	Image/CAD	iso	—	• CAD	Extract	—	✓ ⁶	—	—	—	—	—
JPEG	Image/CAD	jpg	JPEG	• JPEG • HELIOS • QuickTime	Generate	✓	✓	—	—	—	—	✓
NEW! JPEG Network Graphics	Image/CAD	jng	JNGf	• PNG	Generate	✓	✓	—	—	—	—	—
JPEG2000	Image/CAD	jp2	JP2	• JPEG2000	Generate	✓	✓	—	—	—	—	—

Image/CAD/3D File Formats				Metadata Extraction			Preview / Playback			Special Metadata Handling		
File Format	File Type	File Ext	Mac OS File Type	Cumulus Filters	Thumbnail	Read Metadata	Preview	Multipage Preview	Play Media	Multipage Record	Extract Text	Write Back IPTC/XMP
Kodak Digital Camera RAW Image	Image/CAD	dcr	KDCR	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
Kodak PhotoCD Image	Image/CAD	pcd	PCDI	• Kodak PhotoCD	Generate	✓	✓	—	—	—	—	—
Konica Digital Camera RAW Image	Image/CAD	jpg	JPEG	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
Large Document Format	Image/CAD	psb	8BPB	• Photoshop	Generate	✓	✓	—	—	—	—	—
Leaf Digital Camera RAW Image	Image/CAD	mos	MOS	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
Leica Digital Camera RAW Image	Image/CAD	raw	RAW	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
Mac Icon	Image/CAD	icns	icns	• MacIcon • HELIOS	Generate	✓	✓	✓ ¹⁵	—	—	—	—
Macintosh PICT Image	Image/CAD	pct	PICT	• QuickTime • HELIOS	Generate	✓	✓	—	—	—	—	—
MacPaint Image	Image/CAD	mac	PNTG	• QuickTime	Generate	✓	✓	—	—	—	—	—
Minolta Digital Camera RAW Image	Image/CAD	mrw	MRW	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
MS Picture It! Image	Image/CAD	mix	—	• CompDoc	Generate	✓	✓	—	—	—	—	—
MS Visio Drawing	Image/CAD	vsd	—	• CompDoc	Generate	✓	✓ ⁶	—	—	—	✓	—
Multi-page PCX Image	Image/CAD	dcx	DCX	• PCX	Generate	✓	✓	✓	—	—	—	—
Nikon Digital Camera RAW Image	Image/CAD	nef	NEF	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
Olympus Digital Camera RAW Image	Image/CAD	orf	ORF	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
Open Document Drawing	Image/CAD	odg	—	• Open Document Format	Extract	✓	✓ ⁶	—	—	—	✓	—
Open Document Drawing Template	Image/CAD	otg	—	• Open Document Format	Extract	✓	✓ ⁶	—	—	—	✓	—
OpenEXR Image	Image/CAD	exr	—	• OpenEXR Filter	Generate	✓	✓	—	—	—	—	—
OpenOffice 1.0 Drawing	Image/CAD	sxd	—	• Open Document Format	Extract	✓	✓ ⁶	—	—	—	✓	—
OpenOffice 1.0 Drawing Template	Image/CAD	std	—	• Open Document Format	Extract	✓	✓ ⁶	—	—	—	✓	—
Paint Shop Pro Image	Image/CAD	psp	PSP	• Paint Shop Pro	Generate	✓	✓	—	—	—	—	—
PCX Image	Image/CAD	pcx	PCX	• PCX	Generate	✓	✓	—	—	—	—	—
Pentax Digital Camera RAW Image	Image/CAD	pef	PEF	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
Phase One Digital Camera RAW Image	Image/CAD	tif	TIFF	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
Photoshop Document	Image/CAD	psd	8BPS	• Photoshop • HELIOS • QuickTime	Generate	✓	✓	✓ ⁷	—	—	—	✓ ⁹
Pixar Image	Image/CAD	pxr	PXR	• Pixar	Generate	✓	✓	—	—	—	—	—

Image/CAD/3D File Formats				Metadata Extraction			Preview / Playback			Special Metadata Handling		
File Format	File Type	File Ext	Mac OS File Type	Cumulus Filters	Thumbnail	Read Metadata	Preview	Multipage Preview	Play Media	Multipage Record	Extract Text	Write Back IPTC/XMP
Placeable Windows Metafile	Image/CAD	apm	APM	• WMF	Generate	✓	✓ ¹⁷	—	—	—	—	—
Portable Bitmap	Image/CAD	pbm	PPGM	• PBM • HELIOS	Generate	✓	✓	—	—	—	—	—
Portable Graymap	Image/CAD	pgm	PPGM	• PBM	Generate	✓	✓	—	—	—	—	—
Portable Network Graphics (PNG)	Image/CAD	png	PNGf	• PNG • HELIOS • QuickTime	Generate	✓	✓	—	—	—	—	✓ ¹⁴
Portable Pixelmap	Image/CAD	ppm	PPGM	• PBM	Generate	✓	✓	—	—	—	—	—
QuickTime Image	Image/CAD	qif	qtif	• QuickTime	Generate	✓	✓	—	—	—	—	—
NEW! Revit Document (Autodesk)	Image/CAD	rfa	—	• CompDoc	Extract	✓	✓ ⁶	—	—	—	—	—
Scitex CT Image	Image/CAD	sct	..CT	• Scitex CT • HELIOS	Generate	✓	✓	—	—	—	—	—
SCR Image	Image/CAD	scr	SCR	• PCX	Generate	✓	✓	—	—	—	—	—
SGI Image	Image/CAD	sgi	.SGI	• QuickTime • SGI	Generate	✓	✓	—	—	—	—	—
Sinar Digital Camera RAW Image	Image/CAD	sti	TIFF	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
SketchUp (Google) Model	Image/CAD	skp	—	• CAD	Extract	—	✓ ⁶	—	—	—	—	—
Sony Digital Camera RAW Image	Image/CAD	srf	SRF	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
TARGA Image	Image/CAD	tga	TPIC	• TARGA • QuickTime	Generate	✓	✓	—	—	—	—	—
TIFF (Tagged Image File Format)	Image/CAD	tif	TIFF	• TIFF • HELIOS • QuickTime	Generate	✓	✓	✓	—	—	—	✓
Windows Cursor	Image/CAD	cur	CUR	• Bitmap	Generate	✓	✓	—	—	—	—	—
Windows Icon	Image/CAD	ico	ICO	• Bitmap	Generate	✓	✓	—	—	—	—	—
Windows Metafile	Image/CAD	wmf	WMF	• WMF	Generate	✓	✓	—	—	—	—	—

Office/Layout File Formats				Metadata Extraction			Preview / Playback			Special Metadata Handling			
	File Format	File Type	File Ext	Mac OS File Type	Cumulus Filters	Thumbnail	Read Metadata	Preview	Multipage Preview	Play Media	Multipage Record	Extract Text	Write Back IPTC/XMP
	Apple Keynote	Office/ Layout	key	—	• Apple iWork	Extract	✓	✓ ⁶	—	—	✓	✓	—
	Apple Keynote Slide	Office/ Layout	—	—	• Apple iWork	Extract	✓	✓ ⁶	—	—	—	✓	—
NEW!	Apple Numbers	Office/ Layout	numbers	—	• Apple iWork	Extract	✓	✓ ⁶	—	—	✓	✓	—
NEW!	Apple Numbers Sheet	Office/ Layout	sheet	—	• Apple iWork	Extract	✓	✓ ⁶	—	—	—	✓	—
	Apple Pages	Office/ Layout	pages	—	• Apple iWork	Extract	✓	✓ ⁶	—	—	—	✓	—
NEW!	ASP .NET Server Page	Office/ Layout	aspx	ASPX	• HTML	Generate ¹⁶	✓	✓ ¹⁶	—	—	—	✓	—
	Compound Document Format	Office/ Layout	—	—	• CompDoc	Generate	✓	✓	—	—	—	—	—
	Embedded PDF Image	Office/ Layout	—	—	• PDF	Generate	✓	✓	—	—	—	—	—
NEW!	HTML Application	Office/ Layout	hta	HTA	• HTML	Generate ¹⁶	✓	✓ ¹⁶	—	—	—	✓	—
NEW!	HTML Format	Office/ Layout	html	HTML	• HTML	Generate ¹⁶	✓	✓ ¹⁶	—	—	—	✓	—
	InDesign Document	Office/ Layout	indd	InDd	• InDesign • HELIOS	Extract, Generate ³	✓ ³	✓ ³	✓ ³	—	✓ ³	✓ ³	✓ ¹³
	InDesign Page	Office/ Layout	—	—	• InDesign	Extract, Generate ³	✓ ³	✓ ³	—	—	—	✓ ³	—
NEW!	MHTML	Office/ Layout	mht	MHT	• HTML	Generate ¹⁶	✓	✓ ¹⁶	—	—	—	✓	—
	MS Access Project	Office/ Layout	adp	—	• CompDoc	File Icon	✓	—	—	—	—	—	—
	MS Excel Document	Office/ Layout	xls	XLS8	• CompDoc	File Icon	✓	✓ ⁶	—	—	—	✓	—
	MS Office Binder Document	Office/ Layout	obd	—	• CompDoc	File Icon	✓	✓ ⁶	—	—	—	—	—
	MS Outlook Item	Office/ Layout	msg	—	• CompDoc	File Icon	✓	—	—	—	—	—	—
	MS PowerPoint Presentation	Office/ Layout	ppt	SLD8	• PowerPoint • CompDoc	Generate	✓	✓ ^{19, 6}	✓ ¹⁹	—	✓	✓	—
	MS PowerPoint Slide	Office/ Layout	ppt	SLD3	• PowerPoint • CompDoc	Generate	✓	✓ ¹⁹	—	—	—	✓	—
	MS Publisher Document	Office/ Layout	pub	ALB3	• CompDoc	Generate	✓	✓ ⁶	—	—	—	—	—
	MS Word Document	Office/ Layout	doc	W8BN	• CompDoc	Extract ⁶	✓	✓ ⁶	—	—	—	✓	—
	Open Document Database	Office/ Layout	odb	—	• Open Document Format	File Icon	✓	—	—	—	—	—	—
	Open Document Formula	Office/ Layout	odf	—	• Open Document Format	Extract	✓	✓ ⁶	—	—	—	—	—
	Open Document Master Document	Office/ Layout	odm	—	• Open Document Format	Extract	✓	✓ ⁶	—	—	—	✓	—
	Open Document Presentation	Office/ Layout	opd	—	• Open Document Format	Extract	✓	✓ ⁶	—	—	—	✓	—
	Open Document Presentation Template	Office/ Layout	otp	—	• Open Document Format	Extract	✓	✓ ⁶	—	—	—	✓	—

Office/Layout File Formats				Metadata Extraction			Preview / Playback			Special Metadata Handling		
File Format	File Type	File Ext	Mac OS File Type	Cumulus Filters	Thumbnail	Read Metadata	Preview	Multipage Preview	Play Media	Multipage Record	Extract Text	Write Back IPTC/XMP
Open Document Spreadsheet	Office/ Layout	ods	—	• Open Document Format	Extract	✓	✓ ⁶	—	—	—	✓	—
Open Document Spreadsheet Template	Office/ Layout	ots	—	• Open Document Format	Extract	✓	✓ ⁶	—	—	—	✓	—
Open Document Text	Office/ Layout	odt	—	• Open Document Format	Extract	✓	✓ ⁶	—	—	—	✓	—
Open Document Text Template	Office/ Layout	ott	—	• Open Document Format	Extract	✓	✓ ⁶	—	—	—	✓	—
OpenOffice 1.0 Formula	Office/ Layout	sxm	—	• Open Document Format	Extract	✓	✓ ⁶	—	—	—	—	—
OpenOffice 1.0 Master Document	Office/ Layout	sxg	—	• Open Document Format	Extract	✓	✓ ⁶	—	—	—	✓	—
OpenOffice 1.0 Presentation	Office/ Layout	sxi	—	• Open Document Format	Extract	✓	✓ ⁶	—	—	—	✓	—
OpenOffice 1.0 Presentation Template	Office/ Layout	sti	—	• Open Document Format	Extract	✓	✓ ⁶	—	—	—	✓	—
OpenOffice 1.0 Spreadsheet	Office/ Layout	sxc	—	• Open Document Format	Extract	✓	✓ ⁶	—	—	—	✓	—
OpenOffice 1.0 Spreadsheet Template	Office/ Layout	stc	—	• Open Document Format	Extract	✓	✓ ⁶	—	—	—	✓	—
OpenOffice 1.0 Text	Office/ Layout	sxw	—	• Open Document Format	Extract	✓	✓ ⁶	—	—	—	✓	—
OpenOffice 1.0 Text Template	Office/ Layout	stw	—	• Open Document Format	Extract	✓	✓ ⁶	—	—	—	✓	—
Portable Document Format (PDF)	Office/ Layout	pdf	PDF	• PDF • HELIOS	Generate	✓	✓	✓	—	✓ ²⁰	✓	—
Presentation (Office 2007)	Office/ Layout	pptx, pptm	—	• Office Open XML	Extract, Generate ¹⁰	✓	✓ ¹⁰	✓ ¹⁰	—	✓	✓	—
Presentation Show (Office 2007)	Office/ Layout	ppsx	—	• Office Open XML	Extract, Generate ¹⁰	✓	✓ ¹⁰	✓ ¹⁰	—	✓	✓	—
Presentation Slide (Office 2007)	Office/ Layout	—	SLDX	• Office Open XML	Extract, Generate ¹⁰	✓	✓ ¹⁰	—	—	—	✓	—
Presentation Template (Office 2007)	Office/ Layout	potx, potm	—	• Office Open XML	Extract, Generate ¹⁰	✓	✓ ¹⁰	✓ ¹⁰	—	✓	✓	—
QTPreflight	Office/ Layout	qtpf	—	• QuickTime	Generate	✓	✓	—	—	—	—	—
QuarkXPress Document	Office/ Layout	qxd	XDOC	• QuarkXPress • QXP Server Filter • HELIOS	Generate	✓	✓ ^{6, 2}	✓ ²	—	✓ ²	✓ ^{21, 22}	—
NEW! QuarkXPress Job Jacket	Office/ Layout	xml	XML	• QuarkXPress	File Icon	✓	—	—	—	—	✓	—
QuarkXPress Layout	Office/ Layout	—	—	• QuarkXPress	Generate	✓	✓ ^{6, 2}	—	—	—	✓ ^{20, 22}	—
QuarkXPress Page	Office/ Layout	—	—	• QuarkXPress	Generate	✓	✓ ^{6, 2}	—	—	—	✓	—
NEW! RTF (Rich Text Format)	Office/ Layout	rtf	RTF	• RTF	Generate ¹⁶	✓	✓ ¹⁶	—	—	—	✓	—
Session Description Protocol	Office/ Layout	sdp	sdp	• QuickTime	Generate	✓	✓	—	—	—	—	—
Skin	Office/ Layout	skin	—	• QuickTime	Generate	✓	—	—	—	—	—	—
Spreadsheet (MS Office 2007)	Office/ Layout	—	XLSX	• Office Open XML	Extract, Generate ¹⁰	✓	✓ ^{6, 10}	—	—	—	✓	—

Office/Layout File Formats				Metadata Extraction			Preview / Playback			Special Metadata Handling		
File Format	File Type	File Ext	Mac OS File Type	Cumulus Filters	Thumbnail	Read Metadata	Preview	Multipage Preview	Play Media	Multipage Record	Extract Text	Write Back IPTC/XMP
Spreadsheet Workbook (MS Office 2007)	Office/ Layout	xlsx, xlsxm, xlsb	—	• Office Open XML	Extract, Generate ¹⁰	✓	✓ ^{6, 10}	—	—	✓	✓	—
Spreadsheet Workbook Template (MS Office 2007)	Office/ Layout	xlt, xltm	—	• Office Open XML	Extract, Generate ¹⁰	✓	✓ ^{6, 10}	—	—	✓	✓	—
Text Document	Office/ Layout	txt	TEXT	• Plain Text	Generate	✓	✓	—	—	—	✓	—
Text Document Template (MS Office 2007)	Office/ Layout	dotx, dotm	—	• Office Open XML	Extract	✓	✓ ⁶	—	—	—	✓	—
Text Document (MS Office 2007)	Office/ Layout	docx, docm	—	• Office Open XML	Extract	✓	✓ ⁶	—	—	—	✓	—
XPS Document (Office 2007)	Office/ Layout	xps	—	• Office Open XML	Extract	✓	✓ ⁶	—	—	✓	✓	—
XPS Page (Office 2007)	Office/ Layout	—	XPSP	• Office Open XML	Extract	✓	✓ ⁶	—	—	—	✓	—
YDP Flo	Office/ Layout	flo	—	• SCORM	—	—	—	—	—	—	—	—
YDP Page	Office/ Layout	page	—	• SCORM	—	—	—	—	—	—	—	—

Footnotes

1. Audio filter uses icon for thumbnail.
2. Requires QXP AssetStore, QXP Companion, QXP Server AssetStore, HELIOS XPV file, or QuarkXPress Server installation.
3. Requires Canto Cumulus TAG file (created by InDesign plug-in), or HELIOS XPV file.
4. For MPEG-2 files: Requires QuickTime MPEG-2 playback plug-in, available for purchase from Apple Inc.
5. Video filter in combination with QuickTime only. QuickTime supports Flash 5. As of QuickTime 7.4.1, Flash is no longer supported by QuickTime. Therefore, do not install this (or later) versions of QuickTime if you want to use the QuickTime filter for Flash files.
6. Relies on preview saved with document.
7. Photoshop filter shows composite image and individual layers as "pages" in multi-page preview.
8. If media cannot be played, the first frame is displayed as preview.
9. Supported by Canto Cumulus Photoshop filter only. (Photoshop 3 format or later only.)
10. Optional under Windows. Requires MS Office 2007 or later, or MS Office with MS Office Compatibility Pack for Office 2007 file formats.
11. Metadata write-back is limited to IPTC metadata, and requires EPS filter.
12. For Corel versions prior to Corel X4, metadata are extracted to a limited extent only.
13. Supported by InDesign filter only.
14. Supported by PNG filter only.
15. Supported by MacIcon filter only.
16. Windows and Mac OS X only.
17. Windows only.
18. ffmpeg module required.
19. PowerPoint 97-2003 required.
20. Option product required.
21. XPV preview file required.
22. Mac OS X only.