



CUMULUS

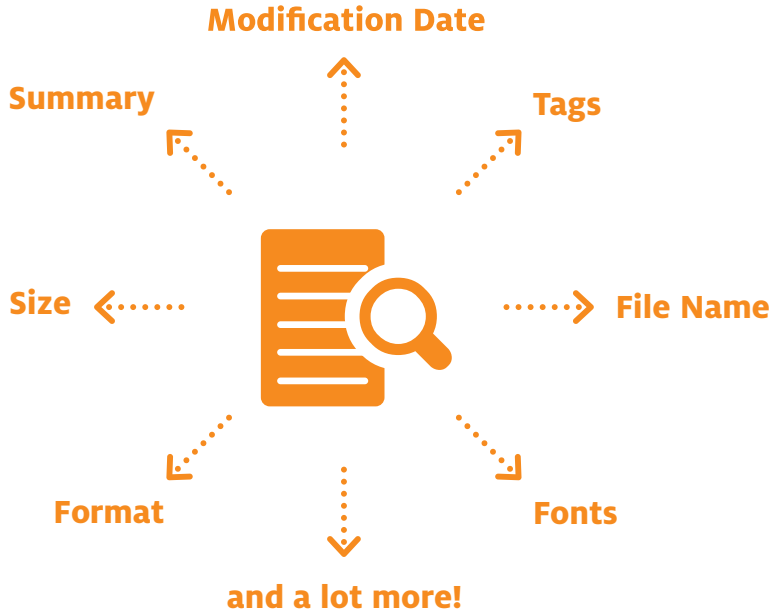
Enhanced Metadata Support

Cumulus supports all digital file formats because it captures core metadata provided by the operating system, such as file name, format, size, modification date, etc. For the world's most popular file formats, Cumulus provides additional functionality or enhanced metadata support. This enables users to find files based on audio/video durations, fonts used in layouts, full text of presentations and documents.

Valid for Cumulus 11.1.3

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Cumulus provides enhanced metadata support for the formats listed on the following pages. (Formats and functions added since the Cumulus 11.1.1 release are marked red.) Enhanced metadata support for other file types can be easily added to Cumulus by our partners or an internal development team, using Cumulus SDK.

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Standard Supports

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

Audio / Video File Formats			Metadata Extraction			Preview / Playback			Special Metadata Handling		
File Format	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	3gp2	3gp2	• Video	Generate	✓	✓	—	✓	—	—	—
3GPP Movie Importer	3gpp	3gpp	• Video	Generate	✓	✓	—	✓	—	—	—
AC3 (AC-3- Sound)	ac3	ac-3	• Audio	File Icon	✓	✓	—	✓	—	—	—
Adobe Path Resource	—	Adobe-Path	• HELIOS	Generate	✓	✓	—	—	—	—	—
Adobe XD	xd		• Adobe XD	Extract	✓	✓	—	—	—	✓	—
Advance Media Video	amv	AMV	• Video	Generate	✓	✓	—	—	—	—	—
AIFF (Audio Interchange File Format)	aif aiff	AIFF	• Audio (.aiff)	File Icon	✓	✓	—	✓	—	—	—
AU Sound	au	Au	• Audio	File Icon	✓	✓	—	✓	—	—	—
AutoDesk Animation	cel	FLI	• Video	Generate	✓	✓	—	✓	—	—	—
Creative Voice	voc	VOC	• Audio	File Icon	✓	—	—	—	—	—	—
DiamondWare Digitized Sound	dwd	DWD	• Audio	File Icon	✓	—	—	—	—	—	—
Digital Video	dv	DV	• MPEG	Generate	✓	✓	—	✓	—	—	—
DivX	divx	DIVX	• MPEG	Generate	✓	✓	—	✓	—	—	—
Downloadable Sound	dls	DLS	• Audio	File Icon	✓	—	—	—	—	—	—
DV	dif	dvc!		Generate	✓	✓	—	✓	—	—	—
E-Mu SoundFont	sbk	SBK	• Audio	File Icon	✓	—	—	—	—	—	—
FLAC Sound	flac	FLAC	• Audio	File Icon	✓	—	—	—	—	—	—
Flash	swf	SWFL	• Flash Filter	Generate	✓	✓	—	—	—	—	—
Flash	swf	SWF	• Video	Generate	✓	✓	—	✓ ^s	—	—	—
Flash 8	flv	FLV	• Video	Generate	✓	✓	—	✓ ^s	—	—	—
Google Video	gvi	GVI	• Video	Generate	✓	✓	—	✓	—	—	—
Grid eXchange	gxf	GXF	• Video	Generate	✓	✓	—	✓	—	—	—
GSM Audio	gsm	GSM	• Audio (with QuickTime)	File Icon	✓	✓	—	✓	—	—	—
GSM Audio Importer	gsm	GSM	• Video	Generate	✓	✓	—	—	—	—	—
H263	h263	H263	• Video	Generate	✓	—	—	—	—	—	—

Audio / Video File Formats			Metadata Extraction			Preview / Playback			Special Metadata Handling		
File Format	File Ext	Mac OS File Type	Cumulus Filters	Thumbnail	Read Metadata	Preview	Multipage Preview	Play Media	Multipage Record	Extract Text	Write Back IPTC / XMP
H264	264	264	• Video	Generate ^{17, 18}	✓	✓	—	✓ ^{17, 18}	—	—	—
Indeo Video	ivf	IVF	• Video	Generate	✓	✓ ¹⁷	—	✓ ¹⁷	—	—	—
KWISF Video	k3g	k3g	• Video	Generate	✓	✓	—	✓	—	—	—
Matroska Format	mkv	MKV	• Video	File Icon	✓	✓	—	✓	—	—	—
Metadata Exchange Format	mxl	MXF	• Video	Generate	✓	✓	—	✓	—	—	—
MIDI Sound	kar	MIDI	• Audio	File Icon	✓	✓	—	✓	—	—	—
Multiple Image Network Graphics	mng	MNGF	• PNG	Generate	✓	✓	—	—	—	—	—
MP3 Format	mp3	MPG3	• MP3	File Icon	✓	—	—	✓	—	—	—
MPEG Format	mpg	MPG	• Video	Generate	✓	✓ ⁸	—	✓ ⁴	—	—	—
MPEG-4 Audio	m4a	M4A	• Audio	File Icon	✓	✓	—	✓	—	—	—
MPEG-4 Video	mp4	MPG4	• MP4	Generate	✓	✓ ⁸	—	✓	—	—	—
MTS Video	mts	MTS	• Video ¹⁸	Generate	✓	✓	—	✓	—	—	—
MTV Actions Video	mtv	MTV	• Video	Generate	✓	✓	—	—	—	—	—
MVE Video	mve	MVE	• Video	Generate ^{17, 18}	✓	✓ ^{17/18}	—	✓ ^{17, 18}	—	—	—
Nexia Video	nxv	NXV	• Video	Generate	✓	✓	—	—	—	—	—
Nullsoft Video	nsv	NSV	• Video	File Icon	✓	—	—	—	—	—	—
NUV Video	nuv	NUV	• Video	Generate ¹⁸	✓	✓ ¹⁸	—	✓ ¹⁸	—	—	—
OGG Format	ogg	OGG	• Audio • Video ¹⁸	File Icon ¹	✓	✓ ¹⁷	—	✓ ¹⁷	—	—	—
Packet Video Audio	pva	PVA	• Video	Generate	✓	✓	—	✓	—	—	—
QuickTime Movie	mov	MooV	• Video	Generate	✓	✓	—	✓	—	—	—
Real Audio	ra	RA	• Audio	File Icon	✓	✓	—	✓	—	—	—
Real Media	rmbv	RMVB	• Video	Generate	✓	✓	—	✓	—	—	—
RIFF MIDI Sound	rmi	RMI	• Audio	File Icon	✓	✓	—	✓	—	—	—
RoQ Video	roq	ROQ	• MPEG	Generate	✓	✓	—	✓	—	—	—
SampleVision Audio	smp	SMP	• Audio	File Icon	✓	—	—	—	—	—	—
Samsung Video	svi	SVI	• Video	Generate	✓	✓ ¹⁷	—	✓ ¹⁷	—	—	—
Sega Saturn Video	cpk	CPK	• Video	File Icon	✓	—	—	—	—	—	—
SGI Movie	mv	MV	• Video	File Icon	✓	—	—	—	—	—	—
Sierra Video	vmd	VMD	• Video	File Icon	✓	✓ ^{17/18}	—	✓ ^{17, 18}	—	—	—
Sigmatel Motion Video	smv	SMV	• Video	Generate	✓	✓	—	—	—	—	—
Speex Audio	spx	SPX	• Audio	File Icon	✓	—	—	—	—	—	—
TwinVQ Audio	vgf	VQF	• Audio	File Icon	✓	—	—	—	—	—	—
VIVO Video	viv	VIV	• Video	Generate	✓	✓	—	—	—	—	—
VQA Video	vqa	VQA	• Video	Generate ^{17, 18}	✓	✓ ^{17/18}	—	✓ ^{17, 18}	—	—	—
WAV Sound	wav	WAV	• Audio	File Icon	✓	✓	—	✓	—	—	—
WebM Video	webm	WEBM	• Video	Generate ¹⁸	✓	✓ ¹⁸	—	✓ ¹⁸	—	—	—
Windows Media	wmv	WMV	• WMV • Video	Generate	✓	✓	—	✓	—	—	—
Windows Media Audio	wma	WMA	• WMV	File Icon	✓	✓	—	✓	—	—	—
Windows Recorded TV Show	wtv	WTV	• Video	Generate	✓	✓	—	—	—	—	—
Windows Video	avi	AVI	• Video	Generate	✓	✓	—	✓	—	—	—
XVID	xvid	XVID	• Video	Generate	✓	✓ ⁶	—	✓ ⁶	—	—	—
YUV	yuv	YUV	• Video	Generate	✓	✓	—	—	—	—	—

Image / CAD / 3D File Formats

Image / CAD / 3D File Formats			Metadata Extraction			Preview / Playback			Special Metadata Handling		
File Format	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	gsm	—	• CAD	Extract	—	✓ ⁶	—	—	—	—	—
AutoCAD Drawing	dwg	—	• CAD	Extract	—	✓ ⁶	—	—	—	—	—
Better Portable Graphics	bpg	BPG	• BPG	Generate	✓	✓	—	—	—	—	—
Bitmap Image	bmp	BMP	• Bitmap • HELIOS	Generate	✓	✓	—	—	—	—	—
Canon Digital Camera RAW Image	crw	CCDR	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
Corel Exchange Format / Clipart	cmx	—	• CorelDRAW	Extract	—	✓ ⁶	✓ ⁶	—	—	—	—
Corel Symbol Library	csl	—	• CorelDRAW	Extract	—	✓ ⁶	✓ ⁶	—	—	—	—
CorelDRAW Drawing	cdr	—	• CorelDRAW	Extract	✓ ¹²	✓ ⁶	✓ ⁶	—	—	—	—
CZI Image	czi	CZI	• CZI	Generate	✓	✓	✓	—	—	—	—
Design Web Format	dwf	—	• CAD	Extract	✓	✓ ⁶	—	—	—	—	—
DICOM Image	dcm	DICM	• DICOM	Generate	✓	✓	✓	—	—	—	—
DNG Raw Image	dng	TIFF	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
ECW (Enhanced Compression Wavelet)	ecw	ECW	• ECW	Generate ¹⁷	✓	✓ ¹⁷	—	—	—	—	—
Enhanced Windows Metafile	emf	EMF	• WMF	Generate	✓	✓ ¹⁷	—	—	—	—	—
EPS (Encapsulated PostScript)	eps	EPSF	• EPS • HELIOS	Extract	✓	✓ ⁶	—	—	—	—	✓ ¹¹
FlashPix Image	fpx	FPix	• CompDoc	Generate	✓	✓	—	—	—	—	—
Foveon Digital Camera RAW Image	x3f	FOVb	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
FreeHand Document	fh	AGD	• FreeHand	Generate	✓	✓ ⁶	—	—	—	—	—
Free Lossless Image	flif	FLIF	• FLIF	Generate	✓	✓	✓	—	—	—	—
Fuji Digital Camera RAW Image	raf	RAF	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
GIF (Graphics Interchange Format)	gif	GIF	• GIF	Generate	✓	✓	✓	—	—	—	—
Hasselblad Digital Camera RAW Image	3fr	3FR	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
High Efficiency Image Format	heic	HEIF	• HEIF	Generate	✓	✓	—	—	—	—	—
Illustrator Drawing	ai	TEXT	• EPS • PDF	Generate	✓	✓	—	—	—	✓	—
Imacon Digital Camera RAW Image	fff	FFF	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
IPLab Image	ipl	IPLI	• IPLab	Generate	✓	✓	✓	—	—	—	—
ISODraw Format	iso	—	• CAD	Extract	—	✓ ⁶	—	—	—	—	—
JPEG Image	jpg	JPEG	• JPEG • HELIOS	Generate	✓	✓	—	—	—	—	✓
JPEG Network Graphics	jng	JNGf	• PNG	Generate	✓	✓	—	—	—	—	—
JPEG2000	jp2	JP2	• JPEG2000	Generate	✓	✓	—	—	—	—	—
Kodak Digital Camera RAW Image	dcr	KDCR	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
Large Document Format	psb	8BPP	• Photoshop	Generate	✓	✓	—	—	—	—	—
Leaf Digital Camera RAW Image	mos	MOS	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
Leica Digital Camera RAW Image	raw	RAW	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
LSM Image	lsm	LSM	• LSM	Generate	✓	✓	✓	—	—	—	—

Image / CAD / 3D File Formats			Metadata Extraction			Preview / Playback			Special Metadata Handling		
File Format	File Ext	Mac OS File Type	Cumulus Filters	Thumbnail	Read Metadata	Preview	Multipage Preview	Play Media	Multipage Record	Extract Text	Write Back IPTC / XMP
Mac Icon	icns	icns	• MacIcon • HELIOS	Generate	✓	✓	✓ ¹⁵	—	—	—	—
Macintosh PICT Image	pct	PICT	• HELIOS	Generate	✓	✓	—	—	—	—	—
Minolta Digital Camera RAW Image	mrw	MRW	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
MS Picture It! Image	mix	—	• CompDoc	Generate	✓	✓	—	—	—	—	—
MS Visio Drawing	vsd	—	• CompDoc	Generate	✓	✓ ⁶	—	—	—	✓	—
Multi-page PCX Image	dcx	DCX	• PCX	Generate	✓	✓	✓	—	—	—	—
Nikon Digital Camera RAW Image	nef	NEF	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
Olympus Digital Camera RAW Image	orf	ORF	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
Open Document Drawing	odg	—	• Open Document Format	Extract Generate ²³	✓	✓ ^{6/23}	✓ ²³	—	—	✓	—
Open Document Drawing Template	otg	—	• Open Document Format	Extract Generate ²³	✓	✓ ^{6/23}	✓ ²³	—	—	✓	—
OpenEXR Image	exr	—	• OpenEXR Filter	Generate	✓	✓	—	—	—	—	—
OpenOffice 1.0 Drawing	sxd	—	• Open Document Format	Extract Generate ²³	✓	✓ ^{6/23}	✓ ²³	—	—	✓	—
OpenOffice 1.0 Drawing Template	std	—	• Open Document Format	Extract Generate ²³	✓	✓ ^{6/23}	✓ ²³	—	—	✓	—
Paint Shop Pro Image	psp	PSP	• Paint Shop Pro	Generate	✓	✓	—	—	—	—	—
Parasolid Model	x_t	—	• CAD	File Icon	✓	—	—	—	—	—	—
PCX Image	pcx	PCX	• PCX	Generate	✓	✓	—	—	—	—	—
Pentax Digital Camera RAW Image	pef	pef	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
Photoshop Document	psd	8BPS	• Photoshop • HELIOS	Generate	✓	✓	✓ ⁷	—	—	✓	✓ ⁹
Pixar Image	pxr	PXR	• Pixar	Generate	✓	✓	—	—	—	—	—
Placeable Windows Metafile	apm	apm	• WMF	Generate	✓	✓ ¹⁷	—	—	—	—	—
Portable Bitmap	pbm	PPGM	• PBM • HELIOS	Generate	✓	✓	—	—	—	—	—
Portable Graymap	pgm	PPGM	• PBM	Generate	✓	✓	—	—	—	—	—
Portable Network Graphics (PNG)	png	PNGf	• PNG • HELIOS	Generate	✓	✓	—	—	—	—	✓ ¹⁴
Portable Pixelmap	ppm	PPGM	• PBM	Generate	✓	✓	—	—	—	—	—
Revit Document (Autodesk)	rfa	—	• CompDoc	Extract	✓	✓ ⁶	—	—	—	—	—
Rhinoceros 3D Model	3dm	—	• CAD	Extract	✓	✓ ⁶	—	—	—	—	—
Right Hemisphere Binary	rh	—	• CAD	Extract	✓	✓ ⁶	—	—	—	✓	—
Scitex CT Image	sct	..CT	• Scitex CT • HELIOS	Generate	✓	✓	—	—	—	—	—
SCR Image	scr	SCR	• PCX	Generate	✓	✓	—	—	—	—	—
SGI Image	sgi	.SGI	• CGI	Generate	✓	✓	—	—	—	—	—
Sinar Digital Camera RAW Image	sti	TIFF	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
SketchUp (Google) Model	skp	—	• CAD	Extract	✓	✓ ⁶	—	—	—	—	—
SolidWorks Assembly Document	sldasm	—	• CompDoc	Extract	✓	✓ ⁶	—	—	—	✓	—
SolidWorks IGES Model	igs	—	• CAD	File Icon	—	—	—	—	—	—	—
SolidWorks Part Document	sldprt	—	• CompDoc	Extract	✓	✓ ⁶	—	—	—	✓	—

Image / CAD / 3D File Formats			Metadata Extraction			Preview / Playback			Special Metadata Handling		
File Format	File Ext	Mac OS File Type	Cumulus Filters	Thumbnail	Read Metadata	Preview	Multipage Preview	Play Media	Multipage Record	Extract Text	Write Back IPTC / XMP
Sony Digital Camera RAW Image	srf	SRF	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
STEP Format	step	—	• CAD	File Icon	✓	—	—	—	—	—	—
Stereo Lithography Model	stl	—	• CAD	File Icon	—	—	—	—	—	—	—
TARGA Image	tga	TPIC	• TARGA	Generate	✓	✓	—	—	—	—	—
TIFF (Tagged Image File Format)	tif	TIFF	• TIFF • HELIOS	Generate	✓	✓	—	—	—	—	✓
Universal 3D Model	u3d	—	• CAD	File Icon	—	—	—	—	—	—	—
WebP Image	webp	WEBP	• WebP	Generate	✓	✓	—	—	—	—	—
Windows Cursor	cur	CUR	• Bitmap	Generate	✓	✓	—	—	—	—	—
Windows Icon	ico	ICO	• Bitmap	Generate	✓	✓	—	—	—	—	—
Windows Metafile	wmf	WMF	• WMF	Generate	✓	✓ ¹⁷	—	—	—	—	—
Wireless Bitmap	wbmp	WBMP	• Bitmap	Generate	✓	✓	—	—	—	—	—

Office / Layout File Formats

Office / Layout File Formats			Metadata Extraction			Preview / Playback			Special Metadata Handling		
File Format	File Ext	Mac OS File Type	Cumulus Filters	Thumbnail	Read Metadata	Preview	Multipage Preview	Play Media	Multipage Record	Extract Text	Write Back IPTC / XMP
Adobe XD	xd	—	• Adobe XD	Extract	✓	✓	—	—	—	✓	—
Apple Keynote	key	—	• Apple iWork	Extract	✓	✓ ⁶	—	—	✓	✓	—
Apple Keynote Slide	—	—	• Apple iWork	Extract	✓	✓ ⁶	—	—	—	✓	—
Apple Numbers	numbers	—	• Apple iWork	Extract	✓	✓ ⁶	—	—	✓	✓	—
Apple Numbers Sheet_	sheet	—	• Apple iWork	Extract	✓	✓ ⁶	—	—	—	✓	—
Apple Pages	pages	—	• Apple iWork	Extract	✓	✓ ⁶	—	—	—	✓	—
ArtPro Document	ap	ArtD	• ArtPro	Extract	✓	✓ ²²	—	—	—	—	—
ASP .NET Server Page	aspx	ASPX	• HTML	Generate ¹⁶	✓	✓ ¹⁶	—	—	—	✓	—
Compound Document Format	—	—	• CompDoc	Generate	✓	✓	—	—	—	—	—
Electronic Publication	epub	—	• EPUB	Extract	✓	✓ ⁶	—	—	—	✓	—
Embedded PDF Image	—	—	• PDF	Generate	✓	✓	—	—	—	—	—
HTML Application	hta	HTA	• HTML	Generate ¹⁶	✓	✓ ¹⁶	—	—	—	✓	—
HTML Format	html	HTML	• HTML	Generate ¹⁶	✓	✓ ¹⁶	—	—	—	✓	—
IDML Document	idml	—	• InDesign	Extract	✓	✓ ⁶	✓ ⁶	—	—	✓	—
InDesign Document	indd	InDd	• InDesign • HELIOS	Extract, Generate ³	✓ ³	✓ ³	✓ ³	—	✓ ³	✓ ³	✓ ¹³
InDesign Page	—	—	• InDesign	Extract, Generate ³	✓ ³	✓ ³	—	—	—	✓ ³	—
InDesign Snippet	idms	—	• InDesign	Extract	✓	✓ ⁶	—	—	—	✓	—
MHTML	mht	MHT	• HTML	Generate ¹⁶	✓	✓ ¹⁶	—	—	—	✓	—
MS Access Project	adp	—	• CompDoc	File Icon	✓	—	—	—	—	—	—
MS Excel Document	xls	XLS8	• CompDoc	File Icon Generate ²³	✓	✓ ⁶	✓ ²³	—	—	✓	—
MS Office Binder Document	obd	—	• CompDoc	File Icon	✓	✓ ⁶	—	—	—	—	—
MS Outlook Item	msg	—	• CompDoc	File Icon	✓	—	—	—	—	—	—

Office / Layout File Formats			Metadata Extraction			Preview / Playback			Special Metadata Handling		
File Format	File Ext	Mac OS File Type	Cumulus Filters	Thumbnail	Read Metadata	Preview	Multipage Preview	Play Media	Multipage Record	Extract Text	Write Back IPTC / XMP
MS PowerPoint Presentation	ppt	SLD8	• PowerPoint • CompDoc	Generate	✓	✓ ^{19/6/23}	✓ ^{19/23}	—	✓	✓	—
MS PowerPoint Slide	ppt	SLD3	• PowerPoint • CompDoc	Generate	✓	✓ ^{19/23}	—	—	—	✓	—
MS Publisher Document	pub	ALB3	• CompDoc	Generate	✓	✓ ⁶	—	—	—	—	—
MS Word Document	doc	W8BN	• CompDoc	Extract ⁶ Generate ²³	✓	✓ ^{6/23}	✓ ²³	—	—	✓	—
Open Document Database	odb	—	• Open Document Format	File Icon	✓	—	—	—	—	—	—
Open Document Formula	odf	—	• Open Document Format	Extract Generate ²³	✓	✓ ^{6/23}	✓ ²³	—	—	—	—
Open Document Master Document	odm	—	• Open Document Format	Extract Generate ²³	✓	✓ ^{6/23}	✓ ²³	—	—	✓	—
Open Document Presentation	opd	—	• Open Document Format	Extract Generate ²³	✓	✓ ^{6/23}	✓ ²³	—	—	✓	—
Open Document Presentation Template	otp	—	• Open Document Format	Extract Generate ²³	✓	✓ ^{6/23}	✓ ²³	—	—	✓	—
Open Document Spreadsheet	ods	—	• Open Document Format	Extract Generate ²³	✓	✓ ^{6/23}	✓ ²³	—	—	✓	—
Open Document Spreadsheet Template	ots	—	• Open Document Format	Extract Generate ²³	✓	✓ ^{6/23}	✓ ²³	—	—	✓	—
Open Document Text	odt	—	• Open Document Format	Extract Generate ²³	✓	✓ ^{6/23}	✓ ²³	—	—	✓	—
Open Document Text Template	ott	—	• Open Document Format	Extract Generate ²³	✓	✓ ^{6/23}	✓ ²³	—	—	✓	—
OpenOffice 1.0 Formula	sxm	—	• Open Document Format	Extract Generate ²³	✓	✓ ^{6/23}	✓ ²³	—	—	✓	—
OpenOffice 1.0 Master Document	sxg	—	• Open Document Format	Extract Generate ²³	✓	✓ ^{6/23}	✓ ²³	—	—	✓	—
OpenOffice 1.0 Presentation	sxi	—	• Open Document Format	Extract Generate ²³	✓	✓ ^{6/23}	✓ ²³	—	—	✓	—
OpenOffice 1.0 Presentation Template	sti	—	• Open Document Format	Extract Generate ²³	✓	✓ ^{6/23}	✓ ²³	—	—	✓	—
OpenOffice 1.0 Spreadsheet	sxc	—	• Open Document Format	Extract Generate ²³	✓	✓ ^{6/23}	✓ ²³	—	—	✓	—
OpenOffice 1.0 Spreadsheet Template	stc	—	• Open Document Format	Extract Generate ²³	✓	✓ ^{6/23}	✓ ²³	—	—	✓	—
OpenOffice 1.0 Text	sxw	—	• Open Document Format	Extract Generate ²³	✓	✓ ^{6/23}	✓ ²³	—	—	✓	—
OpenOffice 1.0 Text Template	stw	—	• Open Document Format	Extract Generate ²³	✓	✓ ^{6/23}	✓ ²³	—	—	✓	—
Portable Document Format (PDF)	pdf	PDF	• PDF • HELIOS	Generate	✓	✓	✓	—	✓ ²⁰	✓	—
PPML Document	ppml	PPML	• PPML	Generate	✓	✓ ²²	✓ ²²	—	—	✓	—
Presentation (Office 2007)	pptx, pptm	—	• Office Open XML	Extract, Generate ^{10/23}	✓	✓ ^{10/23}	✓ ^{10/23}	—	✓	✓	—
Presentation Show (Office 2007)	ppsx	—	• Office Open XML	Extract, Generate ^{10/23}	✓	✓ ^{10/23}	✓ ^{10/23}	—	✓	✓	—
Presentation Slide (Office 2007)	—	SLDX	• Office Open XML	Extract, Generate ^{10/23}	✓	✓ ^{10/23}	—	—	✓	✓	—
Presentation Template (Office 2007)	potx, potm	—	• Office Open XML	Extract, Generate ^{10/23}	✓	✓ ^{10/23}	✓ ^{10/23}	—	✓	✓	—

Office / Layout File Formats			Metadata Extraction			Preview / Playback			Special Metadata Handling		
File Format	File Ext	Mac OS File Type	Cumulus Filters	Thumbnail	Read Metadata	Preview	Multipage Preview	Play Media	Multipage Record	Extract Text	Write Back IPTC / XMP
QuarkXPress Document	qxd	XDOC	<ul style="list-style-type: none"> • QuarkXPress • QXP Server Filter • HELIOS 	Generate	✓	✓ ^{6/2}	✓ ²	—	✓ ²	✓ ^{21, 22}	—
QuarkXPress Job Jacket	xml	XML	<ul style="list-style-type: none"> • QuarkXPress 	File Icon	✓	—	—	—	—	✓	—
QuarkXPress Layout	—	—	<ul style="list-style-type: none"> • QuarkXPress 	Generate	✓	✓ ^{6/2}	—	—	—	✓ ^{20, 22}	—
QuarkXPress Page	—	—	<ul style="list-style-type: none"> • QuarkXPress 	Generate	✓	✓ ^{6/2}	—	—	—	✓	—
RTF (Richt Text Format)	rtf	RTF	<ul style="list-style-type: none"> • RTF 	Generate ^{16/23}	✓	✓ ^{16/23}	✓ ²³	—	—	✓	—
Sketch	—	—	<ul style="list-style-type: none"> • Sketch 	Extract	✓	✓	—	—	—	✓	—
Spreadsheet (MS Office 2007)	—	XLSX	<ul style="list-style-type: none"> • Office Open XML 	Extract, Generate ^{10/23}	✓	✓ ^{6/10/23}	✓ ²³	—	—	✓	—
Spreadsheet Workbook (MS Office 2007)	xlsx, xslm, xlsb	—	<ul style="list-style-type: none"> • Office Open XML 	Extract, Generate ^{10/23}	✓	✓ ^{6,10/23}	✓ ²³	—	—	✓	—
Spreadsheet Workbook Template (MS Office 2007)	xltx, xltm	—	<ul style="list-style-type: none"> • Office Open XML 	Extract, Generate ^{10/23}	✓	✓ ^{6/10/23}	✓ ²³	—	—	✓	—
Text Document	txt	TEXT	<ul style="list-style-type: none"> • Plain Text 	Generate	✓	✓	✓ ²³	—	—	✓	—
Text Document Template (MS Office 2007)	dotx, dotm	—	<ul style="list-style-type: none"> • Office Open XML 	Extract Generate ^{10/23}	✓	✓ ^{6/23}	✓ ²³	—	—	✓	—
Text Document (MS Office 2007)	docx, docm	—	<ul style="list-style-type: none"> • Office Open XML 	Extract Generate ^{10/23}	✓	✓ ^{6/23}	✓ ²³	—	—	✓	—
XPS Document (MS Office 2007)	xps	—	<ul style="list-style-type: none"> • Office Open XML 	Extract	✓	✓ ⁶	—	—	✓	✓	—
XPS Page (MS Office 2007)	—	XPSP	<ul style="list-style-type: none"> • Office Open XML 	Extract	✓	✓ ⁶	—	—	—	✓	—
YDP Flo	flo	—	<ul style="list-style-type: none"> • SCORM 	—	—	—	—	—	—	—	—
YDP Page	page	—	<ul style="list-style-type: none"> • 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 that the file was saved with Cumulus Doc-Watch 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.
23. LibreOffice installed on Client machine required.

About Cumulus

Cumulus allows companies to easily organize, find, share and create digital content on any platform. It helps customers protect their brand assets, ensure efficiency and ultimately improve their bottom line. Cumulus can be integrated with popular applications, and customized to support and streamline customer workflows. Canto’s worldwide partner network offers many integrations and enhancements for Cumulus, enabling Canto to deliver truly tailored solutions.

About Canto

Canto is driven by delivering digital content more intelligently. This has made the company a global leader in the digital asset management community. More than one million Cumulus users from a wide spectrum of market segments have trusted our expertise since the company’s founding in 1990. Canto is based in San Francisco (USA), Berlin and Gießen (Germany) and serves a worldwide customer base in close cooperation with its worldwide partner network.