



## PRODUCT INFORMATION: Enhanced Metadata Support in Cumulus 8.0

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

Enhanced metadata support for a file format means:

- One or more filters included with Cumulus enable it to extract more information about the files than the operating system provides, such as audio/video durations, layout fonts, presentation and document text, and more.
- Additional capabilities, such as previews and writing metadata back into assets may be provided too.

This document describes the enhanced metadata support provided by all editions of Cumulus. No digital asset management provides enhanced support for more file types than Cumulus, and enhanced support for additional file types can be easily added by Canto partners or your internal development teams, using the 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 IPTC-compliant metadata to the file formats indicated throughout this document by a 3 in the "Write Back IPTC/XMP" columns.
SCORM Package / SCORM Resource	—	—	• SCORM	—	—	Cumulus offers asset cross-referencing (AXR) support for SCORM resource documents.

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	3gp2	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	✓	✓	—	—	—	—	—
AMR (Adaptive Multi-Rate)	Audio/Video	amr	amr	• QuickTime	Generate	✓	✓	—	—	—	—	—
Apple Keynote	Office/Layout	key	—	• Apple iWork	Extract	✓	✓ <sup>6</sup>	—	—	✓	✓	—

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 Slide	Office/ Layout	—	—	• Apple iWork	Extract	✓	✓ <sup>6</sup>	—	—	—	✓	—
<b>NEW!</b> Apple Numbers	Office/ Layout	numbers	—	• Apple iWork	Extract	✓	✓ <sup>6</sup>	—	—	✓	✓	—
<b>NEW!</b> Apple Numbers Sheet	Office/ Layout	sheet	—	• Apple iWork	Extract	✓	✓ <sup>6</sup>	—	—	—	✓	—
Apple Pages	Office/ Layout	pages	—	• Apple iWork	Extract	✓	✓ <sup>6</sup>	—	—	—	✓	—
ArchiCAD Image	Image/ CAD	gsm	—	• CAD	Extract	—	✓ <sup>6</sup>	—	—	—	—	—
<b>NEW!</b> ASP .NET Server Page	Office/ Layout	aspx	ASPX	• HTML	Generate <sup>16</sup>	✓	✓ <sup>16</sup>	—	—	—	✓	—
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	✓	✓	—	—	—	—	—
AutoCAD Drawing	Image/ CAD	dwg	—	• CAD	Extract	—	✓ <sup>6</sup>	—	—	—	—	—
AutoDesk Animation	Audio/ Video	cel	FLI	• QuickTime • Video	Generate	✓	✓	—	✓	✓	—	—
Bitmap Image	Image/ CAD	bmp	BMP	• Bitmap • HELIOS • QuickTime	Generate	✓	✓	—	—	—	—	—
CAF (CoreAudio Date)	Audio/ Video	caf	caff	• QuickTime	Generate	✓	✓	—	—	—	—	—
Canon Digital Camera RAW Image	Image/ CAD	crw	CCDR	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
Compact Disc Audio	Audio/ Video	cdda	cdda	• QuickTime	Generate	✓	✓	—	—	—	—	—
Compound Document Format	Office/ Layout	—	—	• CompDoc	Generate	✓	✓	—	—	—	—	—
Corel Exchange Format/ Clipart	Image/ CAD	cmx	—	• CorelDRAW	Extract	—	✓ <sup>6</sup>	✓ <sup>6</sup>	—	—	—	—
Corel Symbol Library	Image/ CAD	csl	—	• CorelDRAW	Extract	—	✓ <sup>6</sup>	✓ <sup>6</sup>	—	—	—	—
CorelDRAW Drawing	Image/ CAD	cdr	—	• CorelDRAW	Extract	✓ <sup>12</sup>	✓ <sup>6</sup>	✓ <sup>6</sup>	—	—	—	—
Creative Voice	Audio/ Video	voc	VOC	• Audio	File Icon	✓	—	—	—	—	—	—
Design Web Format	Image/ CAD	dwf	—	• CAD	Extract	✓	✓ <sup>6</sup>	—	—	—	—	—
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	✓	✓	—	✓	✓	—	—
DNG Raw Image	Image/ CAD	dng	TIFF	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
Downloadable Sound	Audio/ Video	dls	DLS	• Audio	File Icon	✓	—	—	—	—	—	—



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	
DV	Audio/Video	dif	dvc!	• QuickTime • MPEG	Generate	✓	✓	—	✓	✓	—	—	
E-Mu SoundFont	Audio/Video	sbk	SBK	• Audio	File Icon	✓	—	—	—	—	—	—	
<b>NEW!</b> ECW (Enhanced Compression Wavelet)	Image/CAD	ecw	ECW	• ECW	Generate <sup>17</sup>	✓	✓ <sup>17</sup>	—	—	—	—	—	
Embedded PDF Image	Office/Layout	—	—	• PDF	Generate	✓	✓	—	—	—	—	—	
Enhanced Windows Metafile	Image/CAD	emf	EMF	• WMF	Generate	✓	✓ <sup>6</sup>	—	—	—	—	—	
EPS (Encapsulated PostScript)	Image/CAD	eps	EPSF	• EPS • HELIOS	Generate	✓	✓	—	—	—	—	✓ <sup>11</sup>	
FLAC Sound	Audio/Video	flac	FLAC	• Audio	File Icon	✓	—	—	—	—	—	—	
Flash	Audio/Video	swf	SWFL	• Flash Filter	Generate	✓	✓	—	—	—	—	—	
Flash	Audio/Video	swf	SWF	• Video	Generate	—	✓	—	✓ <sup>5</sup>	✓ <sup>5</sup>	—	—	
Flash 8	Audio/Video	flv	FLV	• Video	Generate	✓	✓	—	✓ <sup>5</sup>	✓	—	—	
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	✓	✓ <sup>6</sup>	—	—	—	—	—	
Fuji Digital Camera RAW Image	Image/CAD	raf	RAF	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—	
GIF (Graphics Interchange Format)	Image/CAD	gif	GIFf	• GIF • QuickTime	Generate	✓	✓	✓	—	—	—	—	
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	✓	—	—	—	—	—	—	
<b>NEW!</b> H264	Audio/Video	264	264	• Video	Generate <sup>17</sup> <sub>18</sub>	✓	✓	—	✓ <sup>17, 18</sup>	—	—	—	
<b>NEW!</b> Hasselblad Digital Camera RAW Image	Image/CAD	3fr	3FR	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—	
<b>NEW!</b> HTML Application	Office/Layout	hta	HTA	• HTML	Generate <sup>16</sup>	✓	✓ <sup>16</sup>	—	—	—	✓	—	
<b>NEW!</b> HTML Format	Office/Layout	html	HTML	• HTML	Generate <sup>16</sup>	✓	✓ <sup>16</sup>	—	—	—	✓	—	
Illustrator Drawing	Image/CAD	ai	TEXT	• EPS • PDF	Generate	✓	✓	—	—	—	✓	—	
Imacon Digital Camera RAW Image	Image/CAD	fff	FFF	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—	

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
Indeo Video	Audio/Video	ivf	IVF	• Video	Generate	✓	✓ <sup>17</sup>	—	✓ <sup>17</sup>	✓ <sup>17</sup>	—	—
InDesign Document	Office/Layout	indd	InDd	• InDesign • HELIOS	Extract, Generate <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>	—	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>13</sup>
InDesign Page	Office/Layout	—	—	• InDesign	Extract, Generate <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>	—	—	—	✓ <sup>3</sup>	—
IPLab Image	Image/CAD	ipl	IPLI	• IPLab	Generate	✓	✓	✓	—	—	—	—
ISODraw Format	Image/CAD	iso	—	• CAD	Extract	—	✓ <sup>6</sup>	—	—	—	—	—
JPEG	Image/CAD	jpg	JPEG	• JPEG • HELIOS • QuickTime	Generate	✓	✓	—	—	—	—	✓
JPEG2000	Image/CAD	jp2	JP2	• JPEG2000	Generate	✓	✓	—	—	—	—	—
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	✓	✓	—	—	—	—	—
KWISF Video	Audio/Video	k3g	k3g	• Video	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	✓	✓	✓ <sup>15</sup>	—	—	—	—
Macintosh PICT Image	Image/CAD	pct	PICT	• QuickTime • HELIOS	Generate	✓	✓	—	—	—	—	—
Macintosh System Sound	Audio/Video	sfil	sfil	• QuickTime	Generate	✓	✓	—	—	—	—	—
MacPaint Image	Image/CAD	mac	PNTG	• QuickTime	Generate	✓	✓	—	—	—	—	—
Matroska Format	Audio/Video	mkv	MKV	• Video	Generate	✓	✓	—	✓	✓	—	—
Metadata Exchange Format	Audio/Video	mxf	MXF	• Video	Generate	✓	✓	—	✓	✓	—	—
<b>NEW!</b> MHTML	Office/Layout	mht	MHT	• HTML	Generate <sup>16</sup>	✓	✓ <sup>16</sup>	—	—	—	✓	—
MIDI Sound	Audio/Video	kar	Midi	• Audio • QuickTime	File Icon	✓	✓	—	✓	—	—	—
Minolta Digital Camera RAW Image	Image/CAD	mrw	MRW	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
MP3 Format	Audio/Video	mp3	MPG3	• MP3	File Icon	✓	—	—	✓	—	—	—
MPEG Format	Audio/Video	mpg	MPG	• Video	Generate	✓	✓ <sup>8</sup>	—	✓ <sup>4</sup>	✓	—	—
MPEG Video	Audio/Video	m14	M1A	• QuickTime	Generate	✓	✓ <sup>8</sup>	—	✓	—	—	—



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
MPEG-4 Audio	Audio/Video	m4a	M4A	• Audio	File Icon	✓	✓	—	✓	—	—	—
MPEG-4 Importer	Audio/Video	mp4	mpg4	• QuickTime	Generate	✓	✓ <sup>8</sup>	—	✓	—	—	—
MS Access Project	Office/Layout	adp	—	• CompDoc	File Icon	✓	—	—	—	—	—	—
MS Excel Document	Office/Layout	xls	XLS8	• CompDoc	File Icon	✓	✓ <sup>6</sup>	—	—	—	✓	—
MS Office Binder Document	Office/Layout	obd	—	• CompDoc	File Icon	✓	✓ <sup>6</sup>	—	—	—	—	—
MS Outlook Item	Office/Layout	msg	—	• CompDoc	File Icon	✓	—	—	—	—	—	—
MS Picture It! Image	Image/CAD	mix	—	• CompDoc	Generate	✓	✓	—	—	—	—	—
MS PowerPoint Presentation	Office/Layout	ppt	SLD8	• PowerPoint • CompDoc	Generate	✓	✓ <sup>19, 6</sup>	✓ <sup>19</sup>	—	✓	✓	—
MS PowerPoint Slide	Office/Layout	ppt	SLD3	• PowerPoint • CompDoc	Generate	✓	✓ <sup>19</sup>	—	—	—	✓	—
MS Publisher Document	Office/Layout	pub	ALB3	• CompDoc	Generate	✓	✓ <sup>6</sup>	—	—	—	—	—
MS Visio Drawing	Image/CAD	vsd	—	• CompDoc	Generate	✓	✓ <sup>6</sup>	—	—	—	✓	—
MS Word Document	Office/Layout	doc	W8BN	• CompDoc	Extract <sup>6</sup>	✓	✓ <sup>6</sup>	—	—	—	✓	—
MTS Video	Audio/Video	mts	MTS	• Video <sup>17</sup>	Generate	✓	✓	—	✓	✓	—	—
MTV Actions Video	Audio/Video	mtv	MTV	• Video	Generate	✓	✓	—	—	✓	—	—
Multi-page PCX Image	Image/CAD	dcx	DCX	• PCX	Generate	✓	✓	✓	—	—	—	—
<b>NEW!</b> MVE Video	Audio/Video	mve	MVE	• Video	Generate <sup>17, 18</sup>	✓	✓ <sup>17, 18</sup>	—	✓ <sup>17, 18</sup>	—	—	—
Nexia Video	Audio/Video	nxv	NXV	• Video	Generate	✓	✓	—	—	✓	—	—
Nikon Digital Camera RAW Image	Image/CAD	nef	NEF	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
Nullsoft Video	Audio/Video	nsv	NSV	• Video	File Icon	✓	—	—	—	—	—	—
<b>NEW!</b> NUV Video	Audio/Video	nuv	NUV	• Video	Generate <sup>18</sup>	✓	✓ <sup>18</sup>	—	✓ <sup>18</sup>	—	—	—
OGG Format	Audio/Video	ogg	OGG	• Audio • Video <sup>17</sup>	File Icon <sup>1</sup>	✓	✓ <sup>17</sup>	—	✓ <sup>17</sup>	✓ <sup>17</sup>	—	—
Olympus Digital Camera RAW Image	Image/CAD	orf	ORF	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
Open Document Database	Office/Layout	odb	—	• Open Document Format	File Icon	✓	—	—	—	—	—	—
Open Document Drawing	Image/CAD	odg	—	• Open Document Format	Extract	✓	✓ <sup>6</sup>	—	—	—	✓	—
Open Document Drawing Template	Image/CAD	otg	—	• Open Document Format	Extract	✓	✓ <sup>6</sup>	—	—	—	✓	—
Open Document Formula	Office/Layout	odf	—	• Open Document Format	Extract	✓	✓ <sup>6</sup>	—	—	—	—	—



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 Master Document	Office/ Layout	odm	—	• Open Document Format	Extract	✓	✓ <sup>6</sup>	—	—	—	✓	—
Open Document Presentation	Office/ Layout	opd	—	• Open Document Format	Extract	✓	✓ <sup>6</sup>	—	—	—	✓	—
Open Document Presentation Template	Office/ Layout	otp	—	• Open Document Format	Extract	✓	✓ <sup>6</sup>	—	—	—	✓	—
Open Document Spreadsheet	Office/ Layout	ods	—	• Open Document Format	Extract	✓	✓ <sup>6</sup>	—	—	—	✓	—
Open Document Spreadsheet Template	Office/ Layout	ots	—	• Open Document Format	Extract	✓	✓ <sup>6</sup>	—	—	—	✓	—
Open Document Text	Office/ Layout	odt	—	• Open Document Format	Extract	✓	✓ <sup>6</sup>	—	—	—	✓	—
Open Document Text Template	Office/ Layout	ott	—	• Open Document Format	Extract	✓	✓ <sup>6</sup>	—	—	—	✓	—
OpenEXR Image	Image/ CAD	exr	—	• OpenEXR Filter	Generate	✓	✓	—	—	—	—	—
OpenOffice 1.0 Drawing	Image/ CAD	sxd	—	• Open Document Format	Extract	✓	✓ <sup>6</sup>	—	—	—	✓	—
OpenOffice 1.0 Drawing Template	Image/ CAD	std	—	• Open Document Format	Extract	✓	✓ <sup>6</sup>	—	—	—	✓	—
OpenOffice 1.0 Formula	Office/ Layout	sxm	—	• Open Document Format	Extract	✓	✓ <sup>6</sup>	—	—	—	—	—
OpenOffice 1.0 Master Document	Office/ Layout	sxg	—	• Open Document Format	Extract	✓	✓ <sup>6</sup>	—	—	—	✓	—
OpenOffice 1.0 Presentation	Office/ Layout	sxi	—	• Open Document Format	Extract	✓	✓ <sup>6</sup>	—	—	—	✓	—
OpenOffice 1.0 Presentation Template	Office/ Layout	sti	—	• Open Document Format	Extract	✓	✓ <sup>6</sup>	—	—	—	✓	—
OpenOffice 1.0 Spreadsheet	Office/ Layout	sxc	—	• Open Document Format	Extract	✓	✓ <sup>6</sup>	—	—	—	✓	—
OpenOffice 1.0 Spreadsheet Template	Office/ Layout	stc	—	• Open Document Format	Extract	✓	✓ <sup>6</sup>	—	—	—	✓	—
OpenOffice 1.0 Text	Office/ Layout	sxw	—	• Open Document Format	Extract	✓	✓ <sup>6</sup>	—	—	—	✓	—
OpenOffice 1.0 Text Template	Office/ Layout	stw	—	• Open Document Format	Extract	✓	✓ <sup>6</sup>	—	—	—	✓	—
Packet Video Audio	Audio/ Video	pva	PVA	• Video	Generate	✓	✓	—	✓	✓	—	—
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	✓	✓	✓ <sup>7</sup>	—	—	—	✓ <sup>9</sup>
PICS Animation	Audio/ Video	pics	PICS	• QuickTime	Generate	✓	✓	—	—	—	—	—
Pixar Image	Image/ CAD	pxr	PXR	• Pixar	Generate	✓	✓	—	—	—	—	—



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	✓	✓ <sup>17</sup>	—	—	—	—	—
Portable Bitmap	Image/CAD	pbm	PPGM	• PBM • HELIOS	Generate	✓	✓	—	—	—	—	—
Portable Document Format (PDF)	Office/Layout	pdf	PDF	• PDF • HELIOS	Generate	✓	✓	✓	—	✓ <sup>20</sup>	✓	—
Portable Graymap	Image/CAD	pgm	PPGM	• PBM	Generate	✓	✓	—	—	—	—	—
Portable Network Graphics (PNG)	Image/CAD	png	PNGf	• PNG • HELIOS • QuickTime	Generate	✓	✓	—	—	—	—	✓ <sup>14</sup>
Portable Pixelmap	Image/CAD	ppm	PPGM	• PBM	Generate	✓	✓	—	—	—	—	—
Presentation (Office 2007)	Office/Layout	pptx, pptm	—	• Office Open XML	Extract, Generate <sup>10</sup>	✓	✓ <sup>10</sup>	✓ <sup>10</sup>	—	✓	✓	—
Presentation Show (Office 2007)	Office/Layout	ppsx	—	• Office Open XML	Extract, Generate <sup>10</sup>	✓	✓ <sup>10</sup>	✓ <sup>10</sup>	—	✓	✓	—
Presentation Slide (Office 2007)	Office/Layout	—	SLDX	• Office Open XML	Extract, Generate <sup>10</sup>	✓	✓ <sup>10</sup>	—	—	—	✓	—
Presentation Template (Office 2007)	Office/Layout	potx, potm	—	• Office Open XML	Extract, Generate <sup>10</sup>	✓	✓ <sup>10</sup>	✓ <sup>10</sup>	—	✓	✓	—
PureVoice	Audio/Video	qcp	celp	• QuickTime	Generate	✓	✓	—	—	—	—	—
QTPreFlight	Office/Layout	qtpf	—	• QuickTime	Generate	✓	✓	—	—	—	—	—
QuarkXPress Document	Office/Layout	qxd	XDOC	• QuarkXPress • QXP Server Filter • HELIOS	Generate	✓	✓ <sup>6, 2</sup>	✓ <sup>2</sup>	—	✓ <sup>2</sup>	✓ <sup>21, 22</sup>	—
<b>NEW!</b> QuarkXPress Job Jacket	Office/Layout	xml	XML	• QuarkXPress	File Icon	✓	—	—	—	—	✓	—
QuarkXPress Layout	Office/Layout	—	—	• QuarkXPress	Generate	✓	✓ <sup>6, 2</sup>	—	—	—	✓ <sup>20, 22</sup>	—
QuarkXPress Page	Office/Layout	—	—	• QuarkXPress	Generate	✓	✓ <sup>6, 2</sup>	—	—	—	✓	—
QuickTime Image	Image/CAD	qif	qtif	• QuickTime	Generate	✓	✓	—	—	—	—	—
QuickTime Movie	Audio/Video	mov	MooV	• QuickTime • Video	Generate	✓	✓	—	✓	✓	—	—
Real Audio	Audio/Video	ra	RA	• Audio	File Icon	✓	✓	—	✓	—	—	—
Real Media	Audio/Video	rmvb	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	✓	✓	—	✓	—	—	—
<b>NEW!</b> RTF (Rich Text Format)	Office/Layout	rtf	RTF	• RTF	Generate <sup>16</sup>	✓	✓ <sup>16</sup>	—	—	—	✓	—
SampleVision Audio	Audio/Video	smp	SMP	• Audio	File Icon	✓	—	—	—	—	—	—



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
Samsung Video	Audio/Video	svi	SVI	• Video	Generate	✓	✓ <sup>17</sup>	—	✓ <sup>17</sup>	✓ <sup>17</sup>	—	—
Scitex CT Image	Image/CAD	sct	..CT	• Scitex CT • HELIOS	Generate	✓	✓	—	—	—	—	—
SCR Image	Image/CAD	scr	SCR	• PCX	Generate	✓	✓	—	—	—	—	—
Sega Saturn Video	Audio/Video	cpk	CPK	• Video	File Icon	✓	—	—	—	—	—	—
Session Description Protocol	Office/Layout	sdp	sdp	• QuickTime	Generate	✓	✓	—	—	—	—	—
SGL Image	Image/CAD	sgi	.SGL	• QuickTime	Generate	✓	✓	—	—	—	—	—
SGL Movie	Audio/Video	mv	MV	• Video	File Icon	✓	—	—	—	—	—	—
ShoutCast	Audio/Video	pls	—	• QuickTime	Generate	✓	✓	—	—	—	—	—
Sierra Video	Audio/Video	vmd	VMD	• Video	File Icon	✓	✓ <sup>17, 18</sup>	—	✓ <sup>17, 18</sup>	—	—	—
Sigmatel Motion Video	Audio/Video	smv	SMV	• Video	Generate	✓	✓	—	—	✓	—	—
Sinar Digital Camera RAW Image	Image/CAD	sti	TIFF	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
SketchUp (Google) Model	Image/CAD	skp	—	• CAD	Extract	—	✓ <sup>6</sup>	—	—	—	—	—
Skin	Office/Layout	skin	—	• QuickTime	Generate	✓	—	—	—	—	—	—
SMIL	Audio/Video	m3u	.SMI	• QuickTime	File Icon	✓	—	—	—	—	—	—
Sony Digital Camera RAW Image	Image/CAD	srf	SRF	• Digital Camera RAW	Generate	✓	✓	—	—	—	—	—
Sound Designer II	Audio/Video	sd2	Sd2f	• QuickTime	Generate	✓	✓	—	—	—	—	—
Speex Audio	Audio/Video	spx	SPX	• Audio	File Icon	✓	—	—	—	—	—	—
Spreadsheet (MS Office 2007)	Office/Layout	—	XLSX	• Office Open XML	Extract, Generate <sup>10</sup>	✓	✓ <sup>6, 10</sup>	—	—	—	✓	—
Spreadsheet Workbook (MS Office 2007)	Office/Layout	xlsx, xlsxm, xlsb	—	• Office Open XML	Extract, Generate <sup>10</sup>	✓	✓ <sup>6, 10</sup>	—	—	✓	✓	—
Spreadsheet Workbook Template (MS Office 2007)	Office/Layout	xltx, xltm	—	• Office Open XML	Extract, Generate <sup>10</sup>	✓	✓ <sup>6, 10</sup>	—	—	✓	✓	—
TARGA Image	Image/CAD	tga	TPIC	• TARGA • QuickTime	Generate	✓	✓	—	—	—	—	—
Text Document	Office/Layout	txt	TEXT	• Plain Text	Generate	✓	✓	—	—	—	✓	—
Text Document (MS Office 2007)	Office/Layout	docx, docm	—	• Office Open XML	Extract	✓	✓ <sup>6</sup>	—	—	—	✓	—
Text Document Template (MS Office 2007)	Office/Layout	dotx, dotm	—	• Office Open XML	Extract	✓	✓ <sup>6</sup>	—	—	—	✓	—
TIFF (Tagged Image File Format)	Image/CAD	tif	TIFF	• TIFF • HELIOS • QuickTime	Generate	✓	✓	✓	—	—	—	✓



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
TwinVQ Audio	Audio/Video	vgf	VQF	• Audio	File Icon	✓	—	—	—	—	—	—
VIVO Video	Audio/Video	viv	VIV	• Video	Generate	✓	✓	—	—	—	—	—
<b>NEW!</b> VQA Video	Audio/Video	vqa	VQA	• Video	Generate <sup>17, 18</sup>	✓	✓ <sup>17, 18</sup>	—	✓ <sup>17, 18</sup>	—	—	—
WAV Sound	Audio/Video	wav	WAV	• Audio	File Icon	✓	✓	—	✓	—	—	—
Wave Sound	Audio/Video	3dm	3DMF	• QuickTime	Generate	✓	✓	—	—	—	—	—
Windows Cursor	Image/CAD	cur	CUR	• Bitmap	Generate	✓	✓	—	—	—	—	—
Windows Icon	Image/CAD	ico	ICO	• Bitmap	Generate	✓	✓	—	—	—	—	—
Windows Media	Audio/Video	wmv	WMV	• WMV • Video	Generate	✓	✓	—	✓	✓	—	—
Windows Metafile	Image/CAD	wmf	WMF	• WMF	Generate	✓	✓	—	—	—	—	—
Windows Video	Audio/Video	avi	VfW	• QuickTime	Generate	✓	✓	—	—	—	—	—
Windows Video	Audio/Video	avi	AVI	• Video	Generate	✓	✓	—	✓	✓	—	—
XPS Document (Office 2007)	Office/Layout	xps	—	• Office Open XML	Extract	✓	✓ <sup>6</sup>	—	—	✓	✓	—
XPS Page (Office 2007)	Office/Layout	—	XPSP	• Office Open XML	Extract	✓	✓ <sup>6</sup>	—	—	—	✓	—
XVID	Audio/Video	xvid	XVID	• Video	Generate	✓	✓ <sup>6</sup>	—	✓ <sup>6</sup>	✓	—	—
YDP Flo	Office/Layout	flo	—	• SCORM	—	—	—	—	—	—	—	—
YDP Page	Office/Layout	page	—	• SCORM	—	—	—	—	—	—	—	—
YUV	Audio/Video	yuv	YUV	• Video	Generate	✓	✓	—	—	✓	—	—

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 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 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. Corel X4 only. FormatVersion, Comments, Keywords, Title, Author, LastAuthor, Subject, Copyright, Revision, AppVersion, Application, NumPages, NumLayers, Width, height, Hres, Res
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.