

File Conversion Service

User Help

Version: 8.x.x

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SUPPORTED FILE FORMATS

Hyland's Document Filters is a full-featured, all-in-one SDK that helps software developers embed rich document processing functionality into their applications.

- **File identification:** Look beyond the file extension to reliably identify over 550 file formats.
- **Content inspection:** Unpack, OCR and identify all text and metadata, to determine true nature of content.
- **Content extraction:** Extract all content, including tracked changes and hidden content from 550+ formats.
- **Format conversion:** Convert documents to high-fidelity renditions in text, web and image formats.
- **Manipulation:** Annotate, redact, stamp, watermark and markup content, all out of the box.

Document Filters is one of the few SDKs to run natively on 27 platforms. The APIs give you a choice of languages to integrate with your application, including Java, C#, C/C++ or Python.



Below are some of the file formats supported by Document Filters:

- 1 = File ID only
- 2 = ID and metadata only
- 3 = Mac OSX 32/64 only
- ✓ = Formats supported by High Definition and Classic HTML conversion

ARCHIVE

DOCUMENT FORMAT	VERSION	EXTENSION	HI-DEF
7-Zip		7Z	
ACE ¹		ACE	
Apple Disk Image ³		DMG	
ARJ		ARJ	
Bzip2		BZ2, TBZ2	
ESTSoft ALZip		ALZ	
ESTSoft EGG		EGG	
ISO Disk Image		ISO	
Java Archive		JAR	
LZH		LZH	
Microsoft Cabinet		CAB	
Microsoft Office Binder		OBD	
RedHat Package Manager		RPM	
Roshal Archive	1.5, 2.0, 2.9, 5	RAR	

ARCHIVE (CONTINUED)

DOCUMENT FORMAT	VERSION	EXTENSION	HI-DEF
Roshal Archive (Multi-part)		RAR	
Self-extracting .exe		EXE	
Stuffit ¹		SIT	
Stuffit Self Extracting Archive ¹		SEA, EXE	
Stuffit X ¹		SITX	
GNU Zip	0.1, 1.0	GZ	
UNIX AR Archive ¹		A	
UNIX cpio		CPIO	
UNIX Tar		TAR	
UNIX Compress Archive		Z	
Zip	PKZip, WinZip	ZIP	
Zip (Multi-part)		ZIP	
XZ		XZ	

DATABASE

DOCUMENT FORMAT	VERSION	EXTENSION	HI-DEF
dBASE file	3,4	DBF	
dBASE III file	3,4	DB, DB3	
dBASE IV file	4	DBF	
ISYS Index ¹		IXA, IXB, IXC	
Microsoft Access file	97-2016	MDB, ACCDB	
Paradox Database file ¹		DB	

EMAIL AND MESSAGING

DOCUMENT FORMAT	VERSION	EXTENSION	HI-DEF
Apple Mail		EMLX	✓
Encoded mail message	MHT	MHT	✓
Encoded mail message	Multipart Alternative		
Encoded mail message	Multipart Digest		
Encoded mail message	Multipart Mixed		
Encoded mail message	Multipart News Group		
Encoded mail message	Multipart Signed		
Encoded mail message	TNEF	WINMAIL.DAT	
Email message		EML, EMLX	✓
Eudora	Classic (1-7), OSE	MBX	
HP TRIM email rendition		VM BX	
Microsoft Outlook	97-2016	MSG	✓
Microsoft Outlook for Mac	2011	OLK14	✓
Microsoft Outlook Express ¹		DBX	
Microsoft Outlook Forms Template		OFT	
Microsoft Outlook	97-2016	PST, OST	
Sendmail "mbox"		MBOX	
Thunderbird	1, 1.5, 2.x, 3.x	MBOX	

MULTIMEDIA

DOCUMENT FORMAT	VERSION	EXTENSION	HI-DEF
3GP ¹		3GP	
Adobe Flash		SWF	
Adobe Flash Video ¹		FLV	
Audio Video Interleave (AVI) ²		AVI	
DVD Information File ¹		IFO, BUP	
DVD Video Object ²		VOB	
Media Exchange Format ¹		MXF	
Microsoft Windows Movie Maker ¹		MSWMM	
Musical Instrument Digital Interface (MIDI) ¹	Standard	MID, MIDI, SMF	
MPEG video ²		MPG	
MPEG-1 audio layer 3 ²	ID3v1, ID3v2	MP3	

MULTIMEDIA (CONTINUED)

DOCUMENT FORMAT	VERSION	EXTENSION	HI-DEF
MPEG-4 video ²		MP4	
MPEG-2 audio layer 3 ²	ID3v1, ID3v2	MP3	
OGG FLAC audio ²		FLAC	
OGG Vorbis audio ²		OGG	
QuickTime ¹	1.x-X	MOV	
Real Media ²		RM	
Waveform Audio File Format (WAVE) ²		WAV, AIFF	
Windows Media Audio ²	WMT 4.0, WMA 2, 7, 8, 9	WMA	
Windows Media Video ²	WMV 7, 9	WMV	

OTHER

DOCUMENT FORMAT	VERSION	EXTENSION	HI-DEF
Apple Executable ¹		BIN	
BIN HEX Encoded ¹		HBX, HEX, HQX	
BitTorrent Metafire ¹		TORRENT	
Java Class ¹		CLASS	
Linux Executable and Linkable Format ¹		ELF	
Log File		LOG	
Microsoft OneNote	2007, 2010, 2013, 2016	ONE	
Microsoft Project	98-2003	MPP	
Microsoft Project	2007, 2010, 2016	MPP, MPX	
Microsoft Windows DLL ¹		DLL	
Microsoft Windows Executable ¹		EXE, COM, SYS	
Microsoft Windows Installer ¹		MSI	
Microsoft Windows Shortcut ¹		LNK	
Open Access II (OAI)			
Symbian Executable ¹			
vCard	2.1	VCF	
vCalendar		VCS	
Uniplex			
UUEncode		UUE	

PRESENTATION

DOCUMENT FORMAT	VERSION	EXTENSION	HI-DEF
Apple iWork Keynote	'09 (5.x)	KEY	
Apple iWork Keynote	6, 7	KEY	
Corel Presentation		SHW	
Hancom Office HanShow	2010, 2014	SHOW	✓
LibreOffice Presentation	3, 4, 5	ODS	✓
Microsoft PowerPoint for Windows ¹	3.0-4.0	PPT	
Microsoft PowerPoint for Windows	97-2013, 2016	PPT, PPTX	✓
Microsoft PowerPoint for Mac	1-4, 98, 2001, v. X, 2004, 2008, 2011	PPT, PPTX	✓
Microsoft PowerPoint for Office 365		PPT, PPTX	✓
OpenOffice Impress	1.x, 2.x, 3.x, 4.x	ODP	✓
StarOffice Impress 3	8, 9	SXI, SDI, SDP	✓

RASTER IMAGE

DOCUMENT FORMAT	VERSION	EXTENSION	HI-DEF
Adobe Photoshop	8.x, 9.x, 10.0 (CS 1-3)	PSD	✓
CALS Raster	Type 1	CAL	✓
DCX		DCX	✓
DICOM Medical Image		DCM	✓
Encapsulated PostScript ¹		EPS	
Encapsulated PostScript with preview		EPS	✓
Flexible Image Transport System ¹		FITS	
GEM Raster		IMG	✓
Graphics Interchange Format (GIF) ²	87a, 89a, Animated	GFA, GIF, GIFF	✓
Interchange File Format		IFF	✓
Joint Photographic Experts Group (JPEG) ²		JPEG, JPG, JPE, JIF	✓
JPEG2000		J2P, J2C, JPF	✓
Microsoft Document Imaging ²		MDI	
Microsoft Windows Bitmap ²		BMP	✓
Netpbm		PPM, PBM, PGM	✓
PCX		PCX	✓
Portable Network Graphic (PNG) ²	1.0, 1.1, 1.2	PNG	✓

RASTER IMAGE (CONTINUED)

DOCUMENT FORMAT	VERSION	EXTENSION	HI-DEF
Progressive JPEG ²		JPEG, JPG	✓
Tagged Image Format File (TIFF)	Revision 3.0-5.0	TIF, TIFF	✓
Targa		TGA	✓
WebP ²	0.4.2	WEBP	✓
Windows Icon		ICO	✓
Wireless Bitmap Image		WBMP	✓

SPREADSHEET

DOCUMENT FORMAT	VERSION	EXTENSION	HI-DEF
Apple iWork Numbers	'09 (2.x)	NUMBERS	
Apple iWork Numbers	3, 4	NUMBERS	
Comma Separated Values		CSV	
Framework spreadsheet	III	FW3	
Hancom Office HanCell	2010, 2014	CELL	✓
IBM Lotus Symphony spreadsheet	1.x, 3.x	SXS, SX, ODS	✓
LibreOffice spreadsheet	3, 4, 5	ODS	✓
Lotus 1-2-3	Through Millennium 9.6	WK, WKS, WK3, WK4	
Microsoft Excel for Windows	2.0 – 7.0 (Excel 95)	XLS	
Microsoft Excel for Windows	1997 (v.8) - 2010, 2013, 2016	XLS, XLSX, XML	✓
Microsoft Excel for Windows	2007 – 2016 (Binary)	XLSB	✓
Microsoft Excel for Mac	1, 1.5, 2.2, 3.0, 4.0, 5.0	XLS	
Microsoft Excel for Mac	8.0-15.0	XLS, XLSX, XML	✓
Microsoft Excel for Office 365		XLS, XLSX	✓
Microsoft Works for DOS	2	WPS	
Microsoft Works for Windows	3, 4, 6, 7	WPS	
OpenOffice Calc	1.1 – 4.x	ODS	✓
StarOffice Calc	8, 9	SXC, SXS, ODS	✓

TEXT AND MARKUP

DOCUMENT FORMAT	VERSION	EXTENSION	HI-DEF
ASCII text	7-bit, 8-bit	TXT	
ANSI text	7-bit, 8-bit	TXT	
HTML (text only)		HTM, HTML	✓
HTML (codes revealed)		HTM, HTML	✓
HTML (metadata only)		HTM, HTML	✓
IBM DCA		RFT, TXT, DCA	
Microsoft HTML Help	1.0, 1.1a, 1.3, 1.32, 1.33MAML	CHM	
Microsoft OneNote	2007, 2010, 2013, 2016	ONE	
Microsoft OneNote TOC ¹	2007, 2010, 2013, 2016	ONETOC	
Rich Text Format	1.0, 1.3, 1.5, 1.6, 1.7, 1.8, 1.9.1	RTF	✓
SGML text		SGML	
Source			
Transcript			
Unicode UTF8			
Unicode UTF16LE			
Unicode UTF16BE			
Unicode UCS2LE			
Unicode UCS2BE			
Unicode UCS4LE			
Unicode UCS4BE			
XML	Document File	XML	
XML	Record View	XML	

VECTOR IMAGE

DOCUMENT FORMAT	VERSION	EXTENSION	HI-DEF
Adobe Illustrator ²		AI	
Adobe InDesign ²	1.x-7.x	INDD	
AutoCAD Drawing	12, 13, 14, 2000, 2002, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2012, 2013, 2014, 2015, 2016, 2017	DWG	✓
AutoCAD Drawing Exchange Format		DXF	✓
AutoDesk Design Web Format ¹		dwf	
Corel Draw Image ¹		CDR	
Dassault Systemes CATIA CAD ¹		CATIA	
Dassault Systemes SolidWorks		SLDASM, SLDDRW, SLDPRT	
Initial Graphics Exchange Specification		IGS	
Intergraph-Microstation CAD		DGN	✓
JT Open CAD ¹		JT	
Macintosh PICT Image		PICT	✓
MathCAD ¹		MCD, XMCD	
Microsoft XPS		XPS, OXPS	
Microsoft Visio ¹	3.0	VSD	
Microsoft Visio	4.0 - 2013	VSD	✓
Microsoft Visio	10.0 - 2013, 2016	VDX, VSDX	✓
Parasolid Model Part		X_T	
Pro/ENGINEER Assembly ¹		ASM	
Pro/ENGINEER Drawing ¹		DRW	
Pro/ENGINEER Drawing Form ¹		FRM	
Pro/ENGINEER Model Par ¹		PRT	
Scalable Vector Graphic		SVG	✓
StarView Metafile		SVM	✓
STEP 3D CAD		STP	

DOCUMENT FORMAT	VERSION	EXTENSION	HI-DEF
Stereolithography CAD (binary) ¹		STL	
Stereolithography CAD (text)		STL	
Wavefront OBJ		OBJ	
Windows Enhanced Format Metafile		EMF	✓
Windows Metafile		WMF	✓

WORD PROCESSING AND GENERAL OFFICE

DOCUMENT FORMAT	VERSION	EXTENSION	HI-DEF
Adobe PDF	1.0 - 1.7 (Extension 3, 5)(Acrobat 1 - 11)	PDF	✓
Adobe PDF XFA Forms		PDF	
Adobe PostScript ¹		PS	
Ami Pro for Windows		AMI, SAM	
Apple iWork Pages	4.x	PAGES	
Framework WP		FW3	
Hangul	v3	HWP	✓
Hangul	96 - 2014	HWP	✓
IBM DCA/FFT		RFT, FFT	
IBM DisplayWrite	4	RFT, DCA, DW4, DOC	
IBM DisplayWrite	5	RFT, DCA, .DW5, .DOC	
IBM Lotus Symphony Document	1.x, 3.x	ODT	✓
JungUm ²		GUL	
JustSystems Ichitaro	5, 6, 8+	JTD, JBW, JTT	
LibreOffice document	3, 4, 5	ODT	✓
Lotus Manuscript	1.0, 2.x	MANU, MNU, MAN	
Lotus Notes ¹		NSF	
Lotus WordPro ¹		LWP	
Mass 11	8	M11	
Microsoft Publisher ²		PUB	

WORD PROCESSING AND GENERAL OFFICE (CONTINUED)

DOCUMENT FORMAT	VERSION	EXTENSION	HI-DEF
Microsoft Word for DOS	4.0 - 6.0	DOC	
QuarkXpress ¹		QXx, QCx	
Microsoft Word for Windows	1.x, 2.x	DOC	
Microsoft Word for Windows	6.x, 95, 97, 2000, 2002, 2003, 2007, 2010, 2013, 2016	DOC, DOCX, XML	✓
Microsoft Word for Mac	1-5, 5.1, 6	DOC, DOCX	
Microsoft Word for Mac	98, 2001, v. X, 2004, 2008, 2010, 2011, 2016	DOC, DOCX, XML	✓
MultiMate	Through 4.0	DOX	
MultiMate Advantage		DOX	
Naver Word ¹		NDOC	
OpenOffice Writer	1.1 - 4.x	ODT	✓
Professional Write for DOS	1, 2	PW, PW1, PW2	
Professional Write Plus for Windows	1	PW	
Q&A Write	3, 4 (Classic), 5	QA, QA3	
QuickBooks Backup ¹		QBB	
QuickBooks for Windows ¹		QBW	
StarOffice Writer	8, 9	SXW, SDW	✓

DOCUMENT FORMAT	VERSION	EXTENSION	HI-DEF
TrueType Font ¹		TTF	
Wang IWP		IWP	
Wang WP Plus		IWP	
Windows Write		WRI	
WinWord	6	DOC	
WordPerfect for DOS	3, 4, 5, 6	WPD	
WordPerfect for Macintosh	1.0-1.0.7, 2.0, 2.1, 3.0, 3.1, 3.5, 3.5e	WPD	
WordPerfect for Windows	5.1-12.0, X3, X4, X5, X6, X7, X8	WPD, WP5	✓
Wordstar 2000 for DOS	01/03/11	WS2, DOC	
Wordstar for DOS	3.x-7	WS, WSx	
Wordstar for Windows	1	WSD	
Wordstar for Windows ¹	2	WSD	
XYwrite	I-III+, 4.0, Windows	XY	

For the most up-to-date listing of supported formats and complete documentation, visit DocumentFilters.com

Hyland®

What is File Conversion Service?

Perceptive Content File Conversion Service is a Web API used with Integration Server that allows for the rendering and display of raster images from Perceptive Content or third-party sources.

Through the GET: `/document/{id}/page/{pageID}/rendition` Integration Server call, you can request the rendering of raster content from Perceptive Content. The call retrieves a PNG rendition of a document page, and the request contains the document ID and page ID for the page that you want to convert.

GET: `/api/conversions/{convJobId}`

Deprecated. This API call retrieves the job status of the provided conversion job ID. If the conversion is incomplete, the call returns a response code of 200 and a status for the conversion job. If the conversion completes, the call returns a response code of 303 with the URI to retrieve the image at the redirect location. If the conversion fails, the call returns a response code of 500.

To enable this API, configure `statefulApiEnable: true`.

Request

Content

None

Content-Type

Not applicable

Response

Content

Conversion Job Status Object

Content-Type

application/json

Response body example

[JSON response](#)

Additional Header

Location. The URI of the job output, if the job completes.

DELETE: /api/convertedImages/{convJobID}

Deprecated. This API call deletes the converted image associated with the convJobId. If the call deletes the conversion, a response code 200 is returned.

To enable this API, configure `statefulApiEnable: true`.

Request

Content

None

Content-Type

Not applicable

Response

Content

None

Content-Type

Not applicable

GET: /api/convertedImages/{convJobID}

Deprecated. This API call retrieves the image generated by the file conversion identified by the conversion job ID. If the conversion is incomplete, a response code 404 is returned.

To enable this API, configure `statefulApiEnable: true`.

Request

Content

None

Content-Type

Not applicable

Response

Content

Image

Content-Type

image/png

Additional Headers

X-PSW-FC-Available-Pages. The number of available pages for a multi-page file.

X-PSW-FC-Original-Orientation. The orientation of the page source.

X-PSW-FC-Height. The height of the page source.

X-PSW-FC-Width. The width of the page source.

X-PSW-FC-X-DPI. The X DPI of the page source.

X-PSW-FC-Y-DPI. The Y DPI of the page source.

X-PSW-FC-Image-Height. The height of the page image.

X-PSW-FC-Image-Width. The width of the page image.

X-PSW-FC-Original-File-Type. The file type of the page source.

HEAD: /api/convertedImages/{convJobID}

Deprecated. This API call retrieves the image metadata generated by the file conversion identified by the conversion job ID received from the job request. If the conversion is incomplete, a response code 404 is returned.

To enable this API, configure `statefulApiEnable: true`.

Request

Content

None

Content-Type

Not applicable

Response

Content

None

Content-Type

Not applicable

Additional Headers

X-PSW-FC-Available-Pages. The number of available pages for a multi-page file.

X-PSW-FC-Original-Orientation. The orientation of the page source.

X-PSW-FC-Original-Height. The height of the page source.

X-PSW-FC-Original-Width. The width of the page source.

X-PSW-FC-Original-X-DPI. The X DPI of the page source.

X-PSW-FC-Original-Y-DPI. The Y DPI of the page source.

X-PSW-FC-Image-Height. The height of the page image.

X-PSW-FC-Image-Width. The width of the page image.

X-PSW-FC-Original-File-Type. The file type of the page source.

GET: /api/2018-01-06/status

This API call returns the number of active conversion jobs, the maximum number of jobs that can be concurrently run, and the load ratio of the two. It also includes performance load averages that show the utilization of active conversions over the last 5, 15 and 30 seconds. The performance load averages are calculated only for the `POST: /api/2018-01-06/conversion/` endpoint. This call can also be used to ensure that the service is running and responding to requests.

Request

Content

None

Content-Type

Not applicable

Response

Content

`ActiveJobs` is the number of active jobs.

`MaxConcurrentJobs` is the value of the `maxConcurrentConversions` configuration setting.

`LoadRatio` is the ratio `ActiveJobs / MaxConcurrentJobs`

`LoadAverage5s` is the load average of active jobs over the last 5 seconds.

`LoadAverage15s` is the load average of active jobs over the last 15 seconds.

`LoadAverage30s` is the load average of active jobs over the last 30seconds.

Content-Type

`application/json`

Response body example

Not applicable

Additional Header

Not applicable

POST: /api/2015-23-10/conversion

Deprecated. This API call requests the conversion of a file provided to a PDF, PNG, or TIFF file.

To enable this API, configure `statefulApiEnable: true`.

Request

Content

Form file upload

Content-Type

`multipart/form-data`

Body Construction

Key PageNumber; Value 2 (optional)

Note: To convert all pages, use 0.

Key OutputType; Value png (required)

Key Options; Value GRAPHIC_DPI=Auto;TIFF_COMPRESSION=LZW (optional)

Key File; Value file name

Key File; Value file name

Note: Supports any number of file uploads.

Response

Content

Conversion Job ID

Content-Type

application/json

Additional Header

Location. The URI of the job resource.

POST: /api/2018-01-06/conversion

This API call requests the conversion of a file provided to a PDF, PNG, or TIFF file. This call will immediately return with a 503 if the service is currently handling the max number of concurrent requests specified by the `maxConcurrentConversions` setting.

Request

Content

Form file upload

Content-Type

multipart/form-data

Body Construction

Key PageNumber; Value 2 (optional)

Note: To convert all pages, use 0.

Key OutputType; Value png, tiff, or pdf (required)

Key Options; Value GRAPHIC_DPI=Auto;TIFF_COMPRESSION=LZW (optional)

Key File; Value file name

Key File; Value file name

Note: Supports any number of file uploads depending on the OutputType.

Response

Content

Image

Content-Type

image/png, image/tiff, or application/pdf depending on input

Additional Header

X-PSW-FC-Available-Pages. The number of available pages for a multi-page file.

X-PSW-FC-Original-Orientation. The orientation of the page source.

X-PSW-FC-Height. The height of the page source.

X-PSW-FC-Width. The width of the page source.

X-PSW-FC-X-DPI. The X DPI of the page source.

X-PSW-FC-Y-DPI. The Y DPI of the page source.

X-PSW-FC-Image-Height. The height of the page image.

X-PSW-FC-Image-Width. The width of the page image.

X-PSW-FC-Original-File-Type. The file type of the page source.