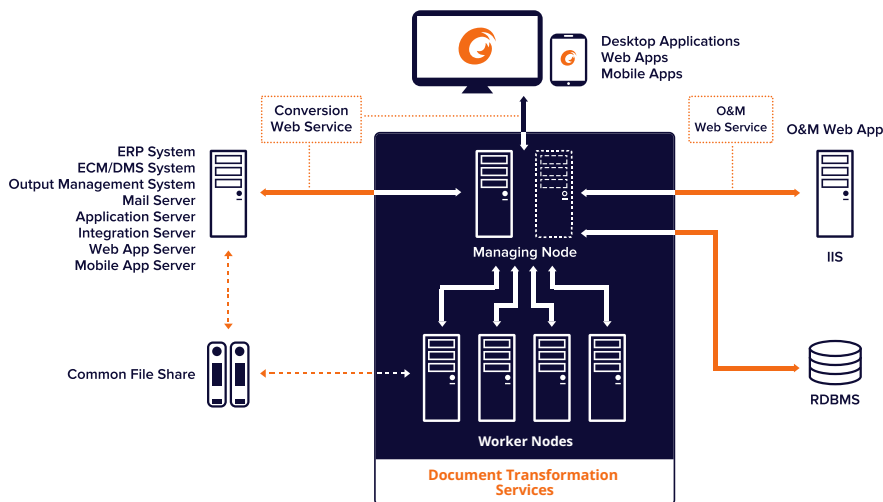## Conversion as a service

The Document Transformation Services is an on-premise web service for centralized and standardized document conversion to PDF and PDF/A.

It enables the construction of a powerful infrastructure which can be addressed by a wide range of different applications and environments through a web service interface.

The Document Transformation Services uses threads and processes to parallelize processing, scaling capacity across additional servers which can be dynamically added to the array at any time.

The redundant architecture enables massive parallelized operation, making scenarios such as load balancing and automatic failover possible.

An application programming interface (API) allows you to add additional functions and converters. The flexible priority management permits dedicated SLAs for specific jobs and business departments.

Document Transformation Services functions and specifications:

Primary function	Converting to PDF(/A) from: • Image files • Office files (also with embedded files) • Emails (incl. attachments) • PDF • Text and HTML
Secondary functions (configurable)	• OCR (for producing text-searchable PDFs, e.g. from scanned documents) • Barcode recognition (evaluation and document separation) • Backgrounds/overlays/watermarks/stamps • Assembling documents, digital records (embed several files in a PDF in a structured way) • Selective redaction of content for sensitive documents • Creation of more accessible documents (tagging)

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Interfaces	• Conversion: REST and SOAP • Management: REST and SOAP • Standard Interface with Graphite (push) • Cacti, Nagios over REST (pull)
Embed files	• Embedding files (e.g. email attachments, MS Office files) • Creating FeRD-compatible PDF/A-3 files with embedded ZUGFeRD XML and XMP metadata
OCR text recognition	• OCR technology from Nuance® • Recognition for over 120 languages included
Supported input formats	• TIFF (including TIFF with JPEG compression), JPEG, BMP, PNG, GIF, PDF • PDF forms: Acroforms and Adobe XML Forms Architecture (XFA) • Microsoft Office: Word, Excel, PowerPoint, Visio, WordPerfect • LibreOffice: Writer, Calc, Impress • Email: MIME (.eml), Microsoft Outlook (.msg) • PostScript, Encapsulated PostScript • Plain text, HTML • ZIP, RAR and 7-Zip as data compression format
Supported output formats and standards	• PDF 1.7 (ISO 32000) • PDF/A-1a and -1b (ISO 19005-1) • PDF/A-2a, -2b and -2u (ISO 19005-2) • PDF/A-3a, -3b and - 3u (ISO 19005-3) • Image ouput as JPEG and TIFF • Text output • OCR results as XML
MRC (Mixed Raster Content) Compression technology	• Multi-layer image segmentation: Separation of text and image segments • Compresses each segment optimally (JPEG or JPEG2000, JBIG2 or Fax G4) • 100% PDF- and PDF/A-compliant (not proprietary)

System requirements

Other requirements

Microsoft® Windows® Server 2012 R2 / 2016 / 2019 / 2022

Hardware:

CPU: Intel/AMD or compatible 64-bit processors, multi-core

RAM: Minimum 4 GB per core

Fast storage for caching and swapping

A standard installation requires 1.5 GB storage space.

Absolute minimum requirements for installation. Requirements for productive operations will be defined on an individual basis.

Software:

Microsoft® IIS 7.5 or newer with ASP.NET 4

Microsoft® SQL Server 2008 or newer until 2022

Microsoft® .NET Framework 4.72

Microsoft® Office applications 32 or 64bit: 2010 / 2013 / 2016 / 2019 / 2021 or 365

LibreOffice 64bit: 4.x / 6.x / 7.3