

Document Manager 2.8 Enterprise Technical Specifications

Summary

Document Manager 2.8 Enterprise Edition is a client-server application with the following key components:

- Server components:
 - Application Server to host the Document Logistix client installation files, and optionally to host Document Logistix services.
 - SQL Database to manage the document indexes.
 - File Share/Server to store the document files.
 - Optional Web Server to run the Document Manager Web application.
 - Optional Full Text Index Server to OCR (Optical Character Recognition) and index the document content.
 - Optional OCR Server(s) for OCR-based batch scanning.
- One or more client workstations for the Document Manager desktop application.

Installation can be performed using one server to host all the server-based components or multiple servers hosting individual components, depending upon the scale of the implementation and the specification of the servers. It is possible to deploy the servers as virtual servers as long as the host hardware has sufficient resources.



IMPORTANT: If combining any of the Server components on a single server machine, ensure the highest minimum specifications stated for any of the individual components are adhered to.

Document Manager can scale from five users to over a thousand users; however, the server infrastructure must be capable of supporting the required number of users.

The client runtime files are installed locally on each workstation.

Application Server

The minimum requirements for the Document Manager Enterprise Edition Server are:

- **Operating System:**
 - Windows Server® 2012 or Windows Server® 2008 with dual-core CPU and minimum 2 GB of RAM (4 GB recommended)
 - Windows® 10 Pro and Enterprise editions, Windows® 8 Pro and Enterprise, Windows® 7 Professional, Enterprise and Ultimate, 2 GB RAM (4 GB RAM is recommended)
 - Windows Vista® Service Pack 2 Business and Ultimate editions, 1 GB RAM



NOTE: It is recommended that a server operating system is used for the Document Manager Application Server. If using a client operating system for the server, there will be restrictions on concurrent connections and performance.

- 100-megabits-per-second (Mbps) network interface (minimum)

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SQL Server Specification

Document Manager supports Microsoft® SQL Server® 2014, SQL Server® 2012 and SQL Server® 2008 (including Express editions) on the following platforms:

- Windows Server® 2012 or Windows Server® 2008 with dual-core CPU and minimum 2 GB of RAM (4 GB recommended)
- 4 GB available disk space for the database
- 4 GB available disk space or more for database backups
- 100-Mbps (minimum) network interface

SQL Server Express has a limitation of 1 GB of RAM and 4 GB database size meaning it is suitable for 'smaller' installations, typically up to 800,000 documents and 15 users.

Client Workstation Specification

- Windows® 10 Pro and Enterprise editions, Windows 8 Pro and Enterprise, Windows 7 Professional, Enterprise and Ultimate, or Windows Vista® Business and Ultimate (with minimum 1 gigabyte (GB) RAM)
- Microsoft® .NET Framework version 3.5 is required
- SVGA adapter and compatible minimum 15-inch monitor capable of displaying 1024 × 768 resolution
- 100 MB available disk space
- Optional TWAIN scanner drivers or Kofax® Adrenaline interfaced scanner (contact Document Logistix for a list of recommended scanners/drivers)
- 100-Mbps (minimum) network interface



NOTE: Not all scanners have 64-bit driver support – please check before ordering.

Document Storage Requirements

Document Manager will utilise storage on any network device that provides SMB storage accessible via a Universal Naming Convention (UNC) path. This includes Windows servers, Network Attached Storage (NAS) devices and UNIX® servers running Network File System (NFS)/SAMBA.

The following figures are provided as a guide for provisioning system storage space. More detailed figures are available from Document Logistix on request.

- 50 KB for each letter-sized single-sided black and white image page
- 100 KB for each legal-sized single-sided black and white image page
- 100 KB for a simple Office application document
- 8 MB for each uncompressed legal-sized single-sided greyscale image
- 24 MB for each uncompressed legal-sized single-sided true-colour image
- An allocation for other documents (for example, you could use the average file size of existing network drives to estimate the required storage)

A typical rule of thumb for storage of documents is 1 GB per 20,000 50-KB pages/documents.

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Web Server

The Document Manager Web module is an optional installation and is an HTML5 application. Minimum requirements are:

- **Operating System:** Windows Server® 2012 and 2012 R2, Windows Server® 2008 SP2 and 2008 R2 SP1, Windows® 10 Pro and Enterprise, Windows® 8 Professional and Enterprise, and Windows® 7 Professional, Enterprise and Ultimate (dual-core CPU, minimum 2-GB RAM, 4-GB RAM is recommended, server operating systems are also recommended).
- **1 GB available disk space**
- **100-megabits-per-second (Mbps) network interface (minimum)**

Web Server Prerequisites:

- Internet Information Services (IIS) Version 7.0 or later.
- NET Framework version 4.5.2, with minimum 2 GB of RAM (4 GB is recommended).



NOTE: Document Manager Web runs on browsers that support HTML5. Some features may display differently on different browsers as not all browsers support HTML5 in the same way. If you are unsure how well your browser supports HTML5, visit the *HTML5 Test* site at html5test.com to check.

OCR Server(s)

OCR Servers are used where the optional Batch Scan module with automatic OCR indexing is deployed. The specification of the servers is subject to the volume and complexity of the documents being read and will vary from 1 CPU Core with 1 GB of RAM to 6-CPU Cores each with 1 GB of RAM. For exact requirements, please consult your Document Manager supplier.

Full Text Server Specification

The Full Text Search feature is an optional installation and consists of three services that can be installed on the same server or different servers:

- OCR Service – performs full-page OCR of image documents.
- Indexer Service – builds a full-text index database of the key words.
- Search Service – searches the full-text database for required words.

The Full Text Server should be:

- Windows Server® 2012 or Windows Server 2008, dual-core CPU with minimum 2 GB of RAM.

The Full Text Server can optionally be the same server as the machine hosting SQL Server.



NOTE: If planning to use Full-Text Search in Document Manager, you must ensure that you have enough free disk space on the host server. To optimise the index files, the Search Service requires that you have at least twice the amount of free disk space as the size of the index files. As a guide, the service optimises the index files when 50,000 documents have been added to Document Manager and an index file will be approximately 5 KB in size for each document added. For example, if you have 2 GB of index files, you must have at least 4 GB of free disk space.

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Microsoft® Office Integration

Document Manager integrates with Microsoft® Office 2016, Microsoft® Office 2013, Microsoft® Office 2010, the 2007 Microsoft® Office system and Microsoft® Office 2003, providing the facility to save and open Office documents directly to and from Document Manager.

Email Archive

The optional Email Archive service will run as a service on Windows Server 2012 or Windows Server 2008 and communicate with any mail database supporting IMAP or POP3, typically Microsoft® Exchange Server 2003 or later (with support for Journaling).

Network Infrastructure

Document Manager operates over TCP/IP to communicate with SQL Server, the document store and the various optional services. The speed of transmission and available bandwidth will directly affect the performance of Document Manager.

Test the network performance by transferring a 10-MB file from the server to the workstation. This should take approximately one second on a 100-Mbps Ethernet connection. Try the test again but transferring the file from the workstation to the server. If the transfer time is more than about five seconds, performance of Document Manager will be impaired.

Document Manager can be run across Wide Area Networks (WANs) but performance will not be as responsive as a Local Area Network (LAN). For example, on a DSL connection, the time to open a document could be in the region of seven seconds compared to two seconds on a LAN.

Scanners

Document Manager supports a wide range of scanners using the TWAIN 1.9 interface. Both 32-bit and 64-bit TWAIN drivers are supported but not all scanner manufacturers provide 64-bit drivers at the time of writing, so please check before purchasing.

Document Manager also supports Kofax® Virtual Re-Scan image enhancement drivers and these are recommended where original image quality varies or is unpredictable. In addition, Document Manager supports PaperStream® IP from Fujitsu.

Ensure the workstation to be used for scanning has sufficient resources and adequate connectivity, usually USB 2.0 or 3.0, or FireWire. If in doubt, please contact the scanner manufacturer. Document Manager also supports 'Scan from Disk' to allow easy interfacing with multi-function copier/printer/scanner devices with network connectivity.

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Typical System Configurations

10 Users, 50 documents a day:

- Combined SQL and File Server on Windows Server machine
- Dual-core 2.6 gigahertz (GHz) with 2 GB RAM
- Microsoft SQL Server Express

50 Users, 500 documents a day, Web:

- Combined SQL and File Server
- Dual-core 2.6 GHz with 4 GB RAM
- Microsoft SQL Server 2008/2012/2014
- Dual-core 2.6-GHz IIS Server with 1 GB RAM

250 Users, 1000 documents a day, Web:

- Dedicated SQL Server, dual-core 2.6 GHz with 4 GB RAM
- Microsoft SQL Server 2008/2012/2014
- File Server – dual-core 2.6-GHz Windows Server with 4 GB RAM
- Dual-core 2.6-GHz IIS Server with 4 GB RAM

Storage Guidelines

Number of 50 KB Docs/Day	Docs/Month assuming 5-day Week	Storage Requirements per Annum
50	1,083	650 MB
250	5,416	3.25 GB
500	10,833	6.5 GB
1,000	21,666	13 GB
5,000	108,333	65 GB