

MINIMUM HARDWARE REQUIREMENTS

DOCUMENT MANAGEMENT SYSTEM BY FILESTREAM LTD

File Stream Document Management Software - System Requirements for Version 4.1

NB: please read this page carefully, as it contains **4 separate specifications** for a Workstation PC, a Web PC, A Server PC, and a Web Server PC. Further notes are at the foot of this page. If you are in any doubt as to which specification is applicable, please contact our [Document Management Technical Support team](#) – we will be pleased to help.

Workstation PC

Processor (CPU)

Supported	AMD/Intel x86 (32-bit) or x64 (64-bit) Compatible ⁵
Minimum	Intel Pentium IV single core 1.0 GHz
Recommended	Intel Core 2 Duo E8400 3.0 GHz or better

Operating System

Supported	Windows XP Professional SP3 32 bit, 64 bit ⁵ Windows Vista Home Premium 32 bit, 64 bit ⁵ Windows Vista Business 32 bit, 64 bit ⁵ Windows Vista Ultimate 32 bit, 64 bit ⁵ Windows 7 Home Premium 32 bit, 64 bit ⁵ Windows 7 Professional 32 bit, 64 bit ⁵ Windows 7 Ultimate 32 bit, 64 bit ⁵
Minimum	Windows XP Professional SP3 32 bit

Memory (RAM)

Minimum	1.0 GB (2.0 GB for Vista) ⁶
Recommended	4.0 GB ⁶

Storage Space (Disk)

Minimum	40 GB
Recommended	250 GB
Disk Format	NTFS Format Recommended

Graphics Card

Minimum	128 MB DirectX 9 Compatible
Recommended	128 MB DirectX 9 Compatible

Display

Minimum	1024 x 768 16 bit colour
Recommended	1280 x 1024 32 bit colour
Widescreen format	Yes (minimum vertical resolution 800)

Dual monitor	Yes
Font Settings	Only 96 DPI font settings are supported

Scanner

Recommended	See notes on recommended scanners below
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Internet Explorer

Minimum	Microsoft Internet Explorer 7.0
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Network (LAN)

Minimum	100 MB Ethernet (not required on standalone PC)
Recommended	1000 MB Ethernet

Microsoft .NET Framework (for File Stream 4.1)

Supported	Framework 3.5 SP1
Minimum	Framework 3.5 SP1
Recommended	Framework 3.5 SP1

NB Additional relevant notes at foot of this document.

Web PC

Processor (CPU)

Supported	AMD/Intel x86 (32-bit) or x64 (64-bit) Compatible ⁵
Minimum	Intel Pentium single core 1.0 GHz
Recommended	Intel Core 2 Duo E8400 3.0 GHz or better

Operating System

Supported	Windows XP Professional SP3 32 bit, 64 bit ⁵ Windows Vista Home Premium 32 bit, 64 bit ⁵ Windows Vista Business 32 bit, 64 bit ⁵ Windows Vista Ultimate 32 bit, 64 bit ⁵ Windows 7 Home Premium 32 bit, 64 bit ⁵ Windows 7 Professional 32 bit, 64 bit ⁵ Windows 7 Ultimate 32 bit, 64 bit ⁵
Minimum	Windows XP Professional SP3 32 bit

Memory (RAM)

Minimum	1.0 GB (2.0 GB for Vista) ⁶
Recommended	2.0 GB ⁶

Storage Space (Disk)

Minimum	40 GB
Recommended	120 GB
Disk Format	NTFS Format Recommended

Graphics Card

Minimum	128 MB DirectX 9 Compatible
Recommended	128 MB DirectX 9 Compatible

Display

Minimum	1024 x 768 16 bit colour
Recommended	1280 x 1024 32 bit colour
Widescreen format	Yes (minimum vertical resolution 800)
Dual monitor	Yes
Font Settings	Only 96 DPI font settings are supported

Scanner

Recommended	See notes on recommended scanners below
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Internet Connection

Minimum	1 Mb downstream 256 Kb upstream
Recommended	2 Mb downstream 256 Kb upstream or better
Firewall / Router	Must allow outgoing web requests

Internet Explorer

Minimum	Microsoft Internet Explorer 7.0
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Network (LAN)

Minimum	100 MB Ethernet (not required on standalone PC)
Recommended	1000 MB Ethernet

Microsoft .NET Framework (for File Stream 4.1)

Supported	Framework 3.5 SP1
Minimum	Framework 3.5 SP1
Recommended	Framework 3.5 SP1

NB Additional relevant notes at foot of this document.

Server PC

Processor (CPU)

Supported	AMD/Intel x86 (32-bit) or x64 (64-bit) Compatible ⁵ AMD Opteron, AMD Athlon 64, Intel Pentium Dual Core, Intel Core 2 Duo, Intel Core 2 Quad, Intel Xeon with Intel EM64T support, Intel Pentium IV with EM64T support ⁵
Minimum	Intel Pentium single core 1.0 GHz
Recommended	Intel Core 2 Duo E8400 3.0 GHz or better

Operating System

Supported	Windows Server 2003 Standard, Enterprise, Data Centre 32 bit, 64 bit ⁵ Windows Server 2003 R2 Standard, Enterprise, Data Centre 32 bit, 64 bit ⁵ Windows Server 2008 Standard, Enterprise, Data Centre 32 bit ⁴ , 64 bit ^{4, 5} Windows Server 2008 R2 Standard, Enterprise, Data Centre 32 bit ⁴ , 64 bit ^{4, 5} Windows XP Professional SP3 32 bit ¹ , 64 bit ^{1, 5} Windows Vista Business 32 bit ¹ , 64 bit ^{1, 5} Windows Vista Ultimate 32 bit ¹ , 64 bit ^{1, 5} Windows 7 Professional 32 bit, 64 bit ⁵ Windows 7 Ultimate 32 bit, 64 bit ⁵
Minimum	Windows Server 2003 Standard Edition 32 bit
Recommended	Windows Server 2008 Standard Edition 32 bit

Memory (RAM)

Minimum	2.0 GB ³
Recommended	4.0 GB on 32 bit system ³ 8.0 GB on 64 bit system ³

Storage Space (Disk)

Minimum	250 GB
Recommended	1000 GB
Disk Format	NTFS Format Required

Graphics Card

Minimum	128 MB DirectX 9 Compatible
Recommended	128 MB DirectX 9 Compatible

Display

Minimum	1024 x 768 16 bit colour
Recommended	1280 x 1024 32 bit colour
Widescreen format	Yes (minimum vertical resolution 800)
Dual monitor	Yes
Font Settings	Only 96 DPI font settings are supported

Network (LAN)

Minimum	100 MB Ethernet
Recommended	1000 MB Ethernet

Microsoft .NET Framework (for File Stream 4.1)

Supported	Framework 3.5 SP1
Minimum	Framework 3.5 SP1
Recommended	Framework 3.5 SP1

SQL Server

Supported	SQL Server 2000 MSDE, standard, enterprise 32 bit SQL Server 2005 express, workstation, standard, enterprise 32 bit SQL Server 2005 express, workstation, standard, enterprise 64 bit SQL Server 2008 express, workstation, standard, enterprise 32 bit SQL Server 2008 R2 express, workstation, standard, enterprise 32 bit SQL Server 2008 express, workstation, standard, enterprise 64 bit SQL Server 2008 R2 express, workstation, standard, enterprise 64 bit
Minimum	SQL Server 2000 MSDE edition ^{7,9}
Recommended	SQL Server 2008 standard edition 32 bit ^{7,9}

Backup System

Recommended	Tape backup system
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NB Additional relevant notes at foot of this document.

Web Server PC

Processor (CPU)

Supported	AMD/Intel x86 (32-bit) or x64 (64-bit) Compatible ⁵ AMD Opteron, AMD Athlon 64, Intel Pentium Dual Core, Intel Core 2 Duo, Intel Core 2 Quad, Intel Xeon with Intel EM64T support, Intel Pentium IV with EM64T support ⁵
Minimum	Intel Pentium IV single core 1.0 GHz
Recommended	Intel Core 2 Duo E8400 3.0 GHz or better

Operating System ²

Supported	Windows Server 2003 Standard, Enterprise, Data Centre 32 bit, 64 bit ⁵ Windows Server 2003 R2 Standard, Enterprise, Data Centre 32 bit, 64 bit ⁵ Windows Server 2008 Standard, Enterprise, Data Centre 32 bit ⁴ , 64 bit ^{4, 5} Windows XP Professional SP3 32 bit ¹ , 64 bit ^{1, 5} Windows Vista Business 32 bit ¹ , 64 bit ^{1, 5} Windows Vista Ultimate 32 bit ¹ , 64 bit ^{1, 5} Windows 7 Professional 32 bit, 64 bit ⁵ Windows 7 Ultimate 32 bit, 64 bit ⁵
Minimum	Windows Server 2003 Web Edition 32 bit
Recommended	Windows Server 2008 Web Edition 32 bit

Memory (RAM)

Minimum	2.0 GB ³
Recommended	4.0 GB ³

Storage Space (Disk)

Minimum	80 GB
Recommended	250 GB
Disk Format	NTFS Format Required

Graphics Card

Minimum	128 MB DirectX 9 Compatible
Recommended	128 MB DirectX 9 Compatible

Display

Minimum	1024 x 768 16 bit colour
Recommended	1280 x 1024 32 bit colour

Widescreen format	Yes (minimum vertical resolution 800)
Dual monitor	Yes
Font Settings	Only 96 DPI font settings are supported

Internet Connection

Minimum	1 Mb downstream 256 Kb upstream Requires permanent Internet connection with static IP address
Recommended	4 Mb downstream 1 Mb upstream or better Requires permanent Internet connection with static IP address
Firewall / Router	Must allow incoming http requests

Network (LAN)

Minimum	100 MB Ethernet
Recommended	1000 MB Ethernet

Microsoft .NET Framework (for File Stream 4.1)

Supported	Framework 3.5 SP1
Minimum	Framework 3.5 SP1
Recommended	Framework 3.5 SP1

SQL Server

Supported	SQL Server 2000 MSDE, standard, enterprise 32 bit SQL Server 2005 express, workstation, standard, enterprise 32 bit SQL Server 2005 standard, enterprise 64 bit SQL Server 2008 express, workstation, standard, enterprise 32 bit SQL Server 2008 standard, enterprise 64 bit
Minimum	SQL Server 2000 MSDE edition ^{7,9}
Recommended	SQL Server 2008 standard edition 32 bit ^{7,9}

Web Server Software (IIS)

Supported	IIS 6.0 or 7.0 on 32 bit OS See note 5 below (Or running as 32 bit process on 64 bit OS)
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Backup System

Recommended	Tape backup system
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NB Additional relevant notes at foot of this document.

Notes

1. Server Operating System

Desktop operating systems (Windows XP, Windows Vista, Windows 7) are limited to 10 concurrent connections and are therefore not recommended for use on the Server PC or Web Server PC

2. Web Server PC

The File Stream Web Server cannot be installed on a domain controller PC

3. Server Memory

Allow for additional memory and disk storage on the Server PC if it is going to be shared with other functions such as Exchange Server, Mail Server, or Domain Controller

4. Windows 2008

Windows Server 2008 Server Core installation is not supported

5. 64 Bit Support

Itanium (IA64) processors are not supported

Itanium based operating systems (64-bit IA64 versions) are not supported

File Stream is a 32 bit application. It is supported under WOW64, a feature of 64-bit editions of Microsoft Windows that enables 32-bit applications to execute natively in 32-bit mode. On 64 bit Windows any external code which uses the File Stream API must be compiled to run as a 32 bit process and the Web Server IIS process must be configured to run as a 32 bit process

6. Workstation Memory

Opening large search results demand more memory in the workstation PC. As a rule allow an extra 4 MB of memory (RAM) for every 1000 documents you are going to work with at the same time. Thus a search result containing 100,000 documents will require an additional 400 MB of memory

7. Additional System Requirements

Please ensure that the Server PC and Web Server PC additionally meet with the minimum hardware and software requirements of the SQL Server edition used

8. Recommended Scanners

The choice of scanners is very important: firstly because scanners come with a wide variety of capabilities and it is important to match these to your own document handling requirements. The money saved by buying a low specification scanner which subsequently results in more intensive staff input can be a very false economy. The more sophisticated scanners can automate a whole array of functions and procedures which can streamline the handling of thousands of documents.

Secondly, File Stream Document Management does not support all scanners, particularly older/smaller scanners which may have obsolete drivers. Please contact us to ensure that the scanners that you propose to use are compatible with File Stream Document Management.

Note that in a CITRIX / Terminal Server environment some specialist software is required for directly connected scanners. Please see

<http://www.scanhelp.com/288int/remote/detail.html#remotets>

9. SQL

Which version of Microsoft SQL to choose depends on your requirements such as server performance, database size etc. The following links are helpful:

1. SQL Server 2005 editions comparison:

<http://www.microsoft.com/sqlserver/2005/en/us/compare-features.aspx>

Note that the free Express edition can only use 1 GB of system memory and only one CPU on a multicore machine. It also limits each database to 4GB in size. This means that additional resources on your server over and above this will not be used.

So for larger systems we recommend the Standard or Workgroup edition

(These limitations are the same on SQL Server 2008)

2. SQL Server 2008 Pricing information

<http://www.microsoft.com/sqlserver/2008/en/us/pricing.aspx>

These are Microsoft prices in USD, your s/w supplier may be able to get better prices

[Document management specifications](#) by Filestream Ltd, <http://www.filestreamsystems.co.uk>

10, Microsoft Office Support

MS Office 2007 & 2010 are supported for the Outlook Addin