



**Opera 3 & Opera II**  
**System Requirements Guide**



Opera 3 & Opera II  
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# System Requirements Guide

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# System Requirements Guide

## Introduction

This guide details the computer hardware and software specifications to install and use Opera 3 and Opera II, including Pegasus Document Management and Pegasus Dashboards. Separate sections detail the recommended hardware requirements for file servers and workstation computers.

Guidance includes using Opera 3 and Opera II in a Terminal Services environment.

Where 'Opera' is used in this guide, this relates to both Opera 3 and Opera II.

## 'Real-World' Hardware Requirements

The hardware requirements in the guide are suggestions based on testing results and feedback from Pegasus partners. They are therefore offered to guide decisions about the hardware required. However, the actual system requirements will also depend on:

- how the computer is configured and the Windows features that are installed
- the number of applications running on the computer, including anti-virus utilities, backup utilities, screen savers, and power savers. Performance can be adversely affected if other applications are running in parallel
- the number of users logged into Opera. Server requirements detailed below are based on a system with up to 10 users
- the amount of data throughput in Opera and the number of locations where Opera is used.
- Whether the Opera Client installation is installed and run on the file server, adding an additional load on the server.

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**Tip:** Check the Microsoft web site for more details of the system requirements for each operating system mentioned in this guide.

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## Microsoft .NET Framework 4 and 4.5

Either the Extended edition of Microsoft .NET Framework 4 or Microsoft .NET Framework 4.5 must be installed on the Opera 3 server before the Opera 3 server software can be installed.

Microsoft .NET Framework 4.5 is available for download from the Microsoft web site at [www.microsoft.com/en-us/download/details.aspx?id=30653](http://www.microsoft.com/en-us/download/details.aspx?id=30653).

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### Notes:

1. .NET Framework is not required on Opera 3 client workstations unless Pegasus Scheduler or Pegasus Stocktake is used.
  2. .NET Framework is not required for Opera II.
- 

## Microsoft Word, Excel, and Outlook

Opera has been tested with:

- Microsoft Word 2003, 2007, 2010 & 2013 (32-bit)
- Microsoft Excel 2003, 2007, 2010 & 2013 (32-bit)
- Microsoft Outlook 2003, 2007, 2010 & 2013 (32-bit).

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**Important:** 64-bit editions are not supported.

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## End of Support for Microsoft XP, Windows Server 2003 and Office 2003

Microsoft has ceased support for Windows XP and Office 2003. See [www.microsoft.com/en-gb/windows/endofsupport.aspx](http://www.microsoft.com/en-gb/windows/endofsupport.aspx) for details. Support for Windows Server 2003 also ends in 2015.

Pegasus will not support Windows XP or Office 2003 after 31 January 2015. This might happen earlier if support for any of the third party software used in Opera ceases before January 2015 (for example the Amyuni PDF creator software).

## Microsoft Internet Explorer

Opera has been tested with Internet Explorer (7.0) and later.

## Microsoft Service Packs - Pegasus Policy

According to Microsoft, service packs (SPs) *may contain updates for system reliability, program compatibility, security, and more.*

Pegasus has a policy of testing the latest available service packs. These are reflected in the recommended requirements for server environments and workstation environments on the pages below. Opera does work with earlier SPs. However, to use the same SP level as that used by the Pegasus software testing team, you should upgrade to the service pack release mentioned in this guide.

## Microsoft SQL Server - Supported Editions

These Microsoft SQL Server editions have been tested with Opera 3 SQL and Opera II Enterprise SQL:

- Microsoft SQL Server 2014
- Microsoft SQL Server 2012 (Service Pack 1)
- Microsoft SQL Server 2008 R2 (Service Pack 1)
- Microsoft SQL Server 2008 (Service Pack 2)
- Microsoft SQL Server 2005 (Service Pack 3).

## SQL Server Express

SQL Server Express editions cannot be used as a data store for Opera 3 SQL or Opera II Enterprise SQL. However, these Express editions can be used as a data store for both Pegasus Stocktake and Pegasus Document Management:

- Microsoft SQL Server 2014 Express
- Microsoft SQL Server 2012 (Service Pack 1)
- Microsoft SQL Server 2008 R2 Express (Service Pack 1)
- Microsoft SQL Server 2008 Express (Service Pack 2)
- Microsoft SQL Server 2005 Express (Service Pack 3).

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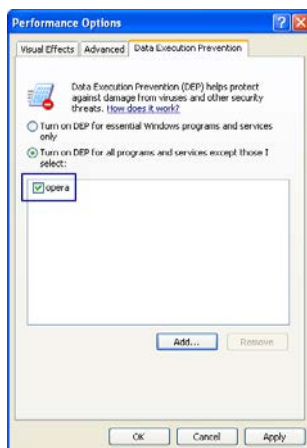
**Note:** Please see page 12 for a full list of the supported SQL Server editions for Pegasus Document Management.

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## Data Execution Prevention in Microsoft Windows

Data Execution Prevention (DEP) is a Microsoft Windows feature that performs additional checks on memory to help prevent malicious code from running on a system. DEP is available in Windows Server 2003 (and later server editions) and Windows XP (and later desktop editions).

In some Windows products DEP is switched on by default. If DEP is switched on, the Opera application program - *Opera.exe* - needs to be marked as an exception. If *Opera.exe* is not marked as an exception, an error will be displayed in Opera when forms are opened.



How you access the DEP dialog depends on the Windows product you are using. Please refer to the Windows Help by searching for "Data Execution Prevention" for information.

DEP dialog box in Microsoft Windows XP

## Server Message Block

Server Message Block (SMB) is a file server locking mechanism in Microsoft Windows. This manages the exchange of data between file servers and client computers. SMB is essential for file sharing and is enabled by default.

### SMB 2.0

SMB 2.0 is used in Windows Server 2008 R2, Windows Server 2008, Windows Vista and Windows 7. A service pack is available for SMB 2.0 that resolves a problem where data from one user overwrites the data for other users when multiple computers read or write to the same file on a network share. The hotfix has also been included in these service packs:

- Windows 7 Service Pack 1
- Windows Server 2008 R2 Service Pack 1.

If SMB 2.0 is enabled in a Windows 7 or Windows Server 2008 R2 environment, you should either upgrade to Service Pack 1 or install the hotfix. In Windows Vista or Windows Server 2008, you should install the hotfix.

For information about the service pack, use:

[www.microsoft.com/en-us/download/details.aspx?id=269](http://www.microsoft.com/en-us/download/details.aspx?id=269).

For the hotfix, use: [support.microsoft.com/kb/2028965](http://support.microsoft.com/kb/2028965).

### SMB 3.0

SMB 3.0 is used in Windows 8 and Windows Server 2012. These versions include the fixes in the Windows 7 Service Pack 1 and Windows Server 2008 R2 Service Pack 1.

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**Important:** As these are fixes for Microsoft products, the responsibility for testing the fixes falls to Microsoft. Pegasus cannot confirm whether the service pack or hot fix resolves the problem.

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## Pegasus Web Xchange

The Pegasus Web Xchange is available to Opera 3 and Opera 3 SQL users from version 2.00.00 onwards. For details of Server and Web Browser prerequisites including the supported browser versions please refer to the Installation & Implementation Guide that is available on the Pegasus Web Xchange CD.

## Was this Information Useful?

Pegasus is interested to hear your views on the documents we provide. To give your feedback, send an email to [feedback@pegasus.co.uk](mailto:feedback@pegasus.co.uk). Please type "Opera System Requirements Guide" in the subject box.

**Please note that product support is not offered through the above email address.**

# System Requirements Guide

## File Server Requirements

These are the recommended requirements for Opera installed on file servers. The requirements are slightly different if installations include Pegasus Document Management.

Windows Server 2012 Windows Server 2012 R2	Windows Server 2012 Essentials	Windows Small Business Server Essentials 2011	Windows Server 2008 (x86 & x64) SP2 Small Business Server 2008 (x64) SP1 Windows Server 2008 R2 (x64) SP1 (1)	Windows Server 2003 (x86) SP2 Windows Server 2003 R2 (x86) SP2 Small Business Server 2003 (x86) SP2 (2)
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### Installations without Document Management

<b>Space for Programs</b>	500 MB <sup>(3)</sup>				
<b>Memory</b>	4 GB	10 GB	10 GB	4 GB	4 GB

### Installations with Document Management

<b>Space for Programs</b>	850 MB <sup>(4)</sup>				
<b>Memory</b>	4 GB	10 GB	10 GB	4 GB	4 GB

### All Installations


<b>Monitor</b>	1280 (width) x 1024 (height)
<b>Network Card</b>	100 Megabit per second (Mbps)
<b>Backup Device</b>	Yes

<sup>(1)</sup> Windows Server 2008 has been tested using 32-bit (x86) systems and 64-bit (x64) systems.

<sup>(2)</sup> Windows Server 2003 has been tested using 32-bit (x86) systems only (64-bit systems are not supported).

<sup>(3)</sup> Includes required disk space for the Opera Client installation.

<sup>(4)</sup> Includes required disk space for the Opera Client installation and Microsoft .Net Framework v2.

**Note:**  Supported SQL Server editions are listed on page 5.

# System Requirements Guide

## Stand-Alone Workstation Requirements

These are the recommended requirements for single PC installations (typically for demonstration purposes). The requirements are slightly different if installations include Pegasus Document Management.

<b>Opera <input type="checkbox"/> VFP</b>				
<b>Windows 8 (x86) &amp; (x64) Windows 8.1 (x86) &amp; (x64)</b> (1)	<b>Windows 7 (x86) &amp; (x64) SP1</b> (2)	<b>Windows Vista (x86) SP2</b> (3)	<b>Windows Vista (x64) SP2</b> (3)	<b>Windows XP Professional SP3</b> (4)

### Installations without Document Management

<b>Space for Programs</b>	500 MB <sup>(5)</sup>				
<b>Memory</b>	2 GB	2 GB	2 GB	2 GB	1 GB

### Installations with Document Management

<b>Space for Programs</b>	850 <sup>(6)</sup>				
<b>Memory</b>	2GB	2 GB	2 GB	2 GB	2 GB

### All Installations

<b>Monitor</b>	1280 (width) x 1024 (height)
<b>Network Card</b>	100 Megabit per second(Mbps)
<b>Backup Device</b>	Yes
<b>Extended Graphics</b>	512 Mb

<sup>(1)</sup> Windows 8 (Enterprise and Pro) has been tested using 32-bit (x86) and 64-bit (x64) systems. Windows 8 Update 1 has been tested.

<sup>(2)</sup> Windows 7 (SP1) (Professional and Ultimate) has been tested using 32-bit (x86) and 64-bit (x64) systems.

<sup>(3)</sup> Windows Vista (SP2) (Business and Ultimate) has been tested using 32-bit (x86) and 64-bit (x64) systems.

<sup>(4)</sup> Windows XP is not supported on 64-bit (x64) systems.

<sup>(5)</sup> Includes required disk space for Opera Client installation.

<sup>(6)</sup> Also includes disk space for Opera Client installation and Microsoft .Net Framework v2.



# System Requirements Guide

## Networked Workstation Requirements

These are the recommended requirements for PC workstations in a networked environment. The requirements are slightly different if installations include Pegasus Document Management.

Opera <span style="border: 1px solid black; padding: 0 2px;">VFP</span>				Opera SQL <span style="border: 1px solid black; padding: 0 2px;">SQL</span> <sup>(1)</sup>			
Windows 8 (x86) & (x64) Windows 8.1 (x86) & (x64)	Windows 7 (x86) & (x64) SP1	Windows Vista (x86) & (x64) SP2	Windows XP Professional SP3	Windows 8 (x86) & (x64)	Windows 7 (x86) & (x64) SP1	Windows Vista (x86) & (x64) SP2	Windows XP Professional SP3
(2)	(3)	(4)	(5)	(2)	(3)	(4)	(5)

### Installations without Document Management

<b>Space for Programs (MB)</b>	100							
<b>Memory</b>	2 GB	2 GB	2 GB	1 GB	2 GB	2 GB	2 GB	1 GB

### Installations with Document Management

<b>Space for Programs (MB)</b>	250 <sup>(6)</sup>				250 <sup>(6)</sup>			
<b>Memory</b>	2 GB				2 GB			

### All Installations

<b>Monitor</b>	1280 (width) x 1024 (height)							
<b>Network Card</b>	100 Megabit per second(Mbps)							
<b>Backup Device</b>	Yes							
<b>Ext. Graphics</b>	512 Mb							

<sup>(1)</sup> SQL Supported SQL Server editions are listed on page 5.

<sup>(2)</sup> Windows 8 (Enterprise and Pro) has been tested using 32-bit (x86) and 64-bit (x64) systems. Windows 8 Update 1 has been tested.

<sup>(3)</sup> Windows 7 (SP1) (Professional and Ultimate) has been tested using 32-bit (x86) and 64-bit (x64) systems.

<sup>(4)</sup> Windows Vista (SP2) (Business and Ultimate) has been tested using 32-bit (x86) and 64-bit (x64) systems.

<sup>(5)</sup> Windows XP is not supported on 64-bit (x64) systems.

<sup>(6)</sup> Includes disk space for Opera Client installation and Microsoft .Net Framework v2.

# System Requirements Guide

## Remote Desktop Services & Terminal Services

Remote Desktop Services and Terminal Services are components of the Windows operating system that allow Windows applications or entire desktops on remote computers to be accessed.

Remote Desktop Services is available in Windows Server 2008 R2 and later server editions. Terminal Services is available in earlier versions of Windows Server.

Only the user interface from the server is presented at the client; all input on the client is redirected over the network to the server, where all application execution takes place. The file server hardware requirements therefore reflect the fact that all processing is done centrally.

The following server requirements are based on a system with up to five user connections.

When determining how powerful the server needs to be, you should consider the types of users who will be using the system and be aware that as the number of users increases, the CPU usage will increase and you may need to increase the server capacity to allow for better performance.

In general, processor and memory requirements scale linearly: you can support double the number of users on a multiprocessor-capable system by doubling the number of processors and doubling the amount of memory. For this reason, purchasing a system that supports multiple processors, even if you initially purchase only one processor, allows you to add capacity easily as your requirements grow.

Performance can vary depending on the programs you run on a Terminal server. You should test your system by running the programs you use to judge the processing power and memory required for each user. For example, a multiple processor configuration can maximize CPU availability. Installing extra physical memory can maximize memory accessibility. Finally, disk access performance can be made optimal by configuring multiple disks.

Opera has been tested on Terminal Services running on Windows Server 2003 and later. Recommended Server Hardware requirements are detailed on page 11.

## TS Remote App Manager

Windows Server 2008 and later server editions include *TS RemoteApp Manager* that manages single applications, instead of entire desktops, over a remote desktop connection. The advantage of this approach is that a remote application is opened directly from the remote computer and appears as though it is running on the local computer rather than from the servers' desktop. Users only see the applications they need to use.

You can implement Opera as a single application run over a remote desktop connection. To do so follow these steps:

In the *TS RemoteApp Manager* utility:

- Create a *RemoteApp Program* with a *path* setting to the Opera client executable program (*opera.exe*) for the server installation. The default path is `c:\Program Files\Pegasus\O3 Client XXX\` (32-bit Windows operating systems) or `c:\Program Files (x86)\Pegasus\O3 Client XXX\` (64-bit Windows operating systems) where *XXX* is either *VFP* or *SQL*. Opera II installations do not include 'O3' in the folder name.
- Create an *.rdp* file called *Opera.rdp* and save it in a shared folder on the server that each Opera client computers have access to.

On each local Opera client computer:

- Open the shared folder on the server, and run the *Opera.rdp* file.

For a step-by-step guide to using *Terminal Services RemoteApp*, go to this address on the Microsoft web site:

<http://www.microsoft.com/downloads/thankyou.aspx?familyId=96596fd3-dbdd-4809-b64a-80fd044f984a&displayLang=en>.

## Server Hardware Requirements

These are the recommended requirements for server installations of Opera running under Remote Desktop Services & Terminal Services. The requirements are different if installations include Pegasus Document Management.

	Windows Server 2012 Windows Server 2012 R2 Windows Server 2012 Essentials Windows Small Business Server 2011	Windows Server 2008 R2 SP1 (x64) Windows Server 2008 SP2 (x86 & x64)	Windows Server 2003 (x86) SP2 <sup>(1)</sup>
<b>Server Memory for Operating System</b>	10 GB	4 GB	
<b>Server Memory for each Opera user</b>	256 MB	256 MB	
<b>Example</b>	10 GB server memory + 5 clients = 11520 MB total system memory.	4 GB system memory + 5 clients = 5328 MB total system memory.	
<b>Space for Programs</b>	500 MB		
<b>Space for Programs (including Document Management)<sup>(3)</sup></b>	850 MB		
<b>Network Card</b>	100 Megabit per second (Mbps)		
<b>Backup Device</b>	Yes		
<b>Client monitors</b>	1280 (width) x 1024 (height)		

<sup>(1)</sup> Windows Server 2003 has been tested using 32-bit (x86) systems only. 64-bit systems are not supported.

<sup>(2)</sup> Document Management installations running on Terminal Services allow document retrieval and electronic file capture. Document capture using scanners attached to the client computer is not possible.

# System Requirements Guide

## Requirements for Pegasus Document Management

### Basic Requirements

The basic requirements for Document Management above those for Opera are:

- A suitable scanner to capture documents - detailed in the next section.
- A suitable Microsoft SQL Server data store for the captured documents. For details of supported environments for these SQL Server editions, refer to the Microsoft web site. The supported SQL Server editions are:
  - Microsoft SQL Server 2014 & 2014 Express
  - Microsoft SQL Server 2012 & 2012 Express (SP1)
  - Microsoft SQL Server 2008 R2 and 2008 R2 Express (SP1)
  - Microsoft SQL Server 2008 and 2008 Express (SP2)
  - Microsoft SQL Server 2005 and 2005 Express (SP3).
- Microsoft .NET Framework v2 must be installed on the server and all client computers before Document Management is installed. You can install it from the Opera CD if required.

### Choosing the Right Edition of SQL Server

The performance of any edition of SQL Server is affected by the performance of the hardware and operating systems on which it is installed. Choosing the right hardware, operating system, and SQL Server edition is critical to the performance of Document Management. Please be aware of the following:

#### SQL Server Express

The Express editions are free versions of Microsoft SQL Server.

Consider the following before using SQL Server Express:

- SQL Server Express supports 1 physical processor, 1 GB memory, and 4 GB storage.
- The suggested maximum number of concurrent Document Management user connections is five for SQL Server Express. The number of concurrent Document Management users, rather than the number of users licensed to use Opera, is important when deciding which edition of SQL Server to use. For example, if the Opera license is for 25 users, and up to five users will use Document Management concurrently, then you could consider SQL Server Express. If there are more than five concurrent Document Management users, don't use the Express edition.
- The scanning workload is important. For example, if a system of 10 Opera users has two or three production scanners scanning thousands of pages a day, SQL Server 2012, SQL Server 2008 or SQL Server 2005 will support this workload. If the scanning workload is much lower, you could consider the Express edition.

---

**Important:** The database capabilities of the free versions are different to the other editions. If you are considering using SQL Server Express, read the full technical details using Microsoft information resources so that you are comfortable the capabilities are correct for the Document Management installation.

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## Additional Optional Requirements

For Document Management to work best in a production environment you should consider these additional recommended but not essential hardware and software requirements:

- **Image Processing** is a process of converting an input image into an output image with the desired properties.
- **Image Enhancement** is a process that improves the visual appearance of the output image (i.e.: after it has been converted but before it is committed to the system).

### Image Processing

Document Management includes embedded image controls from Kofax, which creates image-processing products to help transform an input image into a high quality output image. Kofax also produce a range of processing hardware and software products called 'Adrenaline' that enhance the capabilities of the Document Management and the scanners used for capturing images.

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**Important:** You need an Adrenaline product with Document Management if you intend to use bar code recognition or want to enhance the performance of image processing.

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### Adrenaline Hardware

There are two hardware options – 650 and 650i cards - that work with Document Management:

- **Adrenaline 650** is an Ultra Wide certified SCSI controller board with 40Mbps throughput. It supports TWAIN, Image and Scanner Interface Specification (ISIS), and Kofax ImageControls applications.
- TWAIN is a standard software protocol and applications programming interface (API) for communication between software products and image capture devices, like scanners and digital cameras.
- ISIS is an industry standard driver for image scanning technologies, developed by Pixel Translations.
- **Adrenaline 650i** adds advanced image processing and bar code recognition capabilities to the 650 card.

### Adrenaline Software

The software option, which has identical capabilities to the Adrenaline 650 card, is called Adrenaline Image Processing Engine (AIPE).

### Image Enhancement

Image enhancement is the improvement of the scanned image either automatically or manually before it is committed to the system. Kofax produce a number of image enhancement products.

#### Virtual ReScan (VRS)

Document Management supports the Virtual ReScan (VRS) product. VRS automatically adjusts and improves the image produced by the scanner. Almost no user intervention is needed as VRS improves the image without the operator needing to consider things like coloured paper, coloured objects, faint documents, bleed-through, different paper sizes in the same batch etc.

Generally, VRS is either included with high-end production scanners or comes in two versions that can be purchased separately, Basic or Professional.

- **VRS Basic** is sometimes included with some smaller scanners and provides a simple solution to basic black and white scanning.
- **VRS Professional** can be purchased separately or bundled with Adrenaline products.

---

**Important:** You need VRS with Document Management to do any form of production scanning using Image and Scanner Interface Specification (ISIS) scanner drivers. ISIS is an industry standard interface for image scanning technologies, developed by Pixel Translations.

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If VRS is not embedded with the scanner then the Professional version should be preferred for any production environment. If VRS Basic is bundled with the scanner then you must consider whether this is adequate for the task.

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**Tip:** To check whether your scanner is supported with VRS, check the Kofax web site at [www.kofax.com](http://www.kofax.com).

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## Considerations when Choosing a Scanner

When selecting a scanner you should consider the following:

- How is scanning going to be done and who will be involved?
- Should multiple smaller scanners be purchased as opposed to a larger device?
- What are the minimum and maximum paper sizes to be scanned?
- What is the maximum paper weight to be scanned?
- What is the paper quality and colour?
- Is colour or greyscale scanning needed? Scanning in colour or greyscale significantly increases the storage requirement for documents. Scanning in black and white using VRS is likely to generate equivalent quality and readability.

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**Note:** If your scanner is not listed below it may still work if the suitable drivers have been supplied by the manufacturer.

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## Which Scanner for which Environment?

The following example environments will provide a guide to the selections that should be made based on scanners from two leading manufactures, Fujitsu and Canon, with additional scanners from HP at the lower levels. This list is designed purely as an example and all specific scanners should be selected and checked for compatibility based on the questions previously noted.

### The Accounts Office

This is likely to be an ad-hoc scanning environment, where different types of documents are captured. Devices may well be multi-function to save desk and office space. Paperwork is generally “clean”, A4 or smaller, colour is not important and indexing is generally manual.

Low volume

- HP Officejet 6310 - no VRS
- Fujitsu fi-5110C - Desktop VRS included
- Canon DR-2050C - no VRS

Medium Volume

- HP Scanjet 7800 - Workgroup VRS optional upgrade
- Fujitsu fi-6130C - Workgroup VRS included
- Canon DR-3010C - Desktop VRS optional extra

### The Warehouse/Goods In

This is likely to be an ad-hoc scanning environment where different types of documents are captured. Devices would generally be dedicated to scanning. Paperwork is likely to be “dirty”, usually A4 or smaller but possibly the odd A3 document, and perhaps carbon copy. Colour is not important and indexing is generally manual but bar coding may be used for documents such as Delivery notes.

Low volume

- HP Scanjet 7800 - Workgroup VRS optional upgrade
- Fujitsu fi-6130C - Workgroup VRS included
- Canon DR-3010C - Desktop VRS optional extra

Mid Volume

- Fujitsu fi-6230C, Workgroup VRS included

High volume

- Fujitsu fi-4340C - Workgroup VRS included
- Canon DR-3080CII - Workgroup VRS optional extra

## **The Haulier**

This is likely to be a batch scanning environment focusing on specific documents that are produced in-house. Devices would definitely be dedicated. Paper is likely to be “dirty”, A4 or smaller, possibly carbon copy, colour is not important and indexing is most likely to be bar code driven.

### Low volume

- HP Scanjet 7800 - Workgroup VRS optional upgrade
- Fujitsu fi-6130C - Workgroup VRS included
- Canon DR-3010C - Desktop VRS optional extra

### Mid Volume

- Fujitsu fi-6230C - Workgroup VRS included

### High volume

- Fujitsu fi-4340C - Workgroup VRS included
- Fujitsu fi-6770A - Workgroup VRS included
- Canon DR-3080CII - Workgroup VRS optional extra
- Canon DR-7580 - Workgroup VRS optional extra

## System Requirements Guide

### Requirements for Pegasus Dashboards

The hardware requirements for using Pegasus Dashboards are the same as the requirements for Opera detailed above. However, there are additional software requirements.

#### **Server Prerequisites**

The prerequisites for installing Pegasus Dashboards Server are the following:

- Microsoft .NET Framework 3.5 (SP1)
- Microsoft Internet Information Services (IIS).

#### **Client Prerequisites**

The prerequisites for client computers using Pegasus Dashboards are the following:

- Internet Explorer (7.0) or later.
- Adobe Flash Player (8.0) or later.