

# Minimum System Requirements for Horizon's new "Windows Product"

## Introduction

The "Windows Version" of Horizon's PROMISE home care management software is a web-enabled application that will be hosted on your own in-house server and accessed over your local area or wide-area network (intranet-as opposed to internet) with a web browser. Existing network hardware (network cards, cables, etc.) will provide the secure workstation connections to the server; it may be wise to evaluate particularly old components for maximum transmission potential. Small agencies currently operating on a single stand-alone computer will be able to continue in that manner, but will need to assure adequate computing power and storage capacity for the intended machine.

Horizon's new software is based on a Microsoft operating platform which includes: Windows 2000 Server operating system, SQL Server 2000 relational database manager, and Internet Explorer 6.0 browser. Though it may be possible for the new system to operate effectively with prior Microsoft products such as Windows NT Server 4.0, SQL Server 7, and Internet Explorer 5.5, the new PROMISE system is not being tested with these older products. The Microsoft products and versions listed here are the ones that Horizon has used for development of the new program and on which support of the new systems will be standardized.

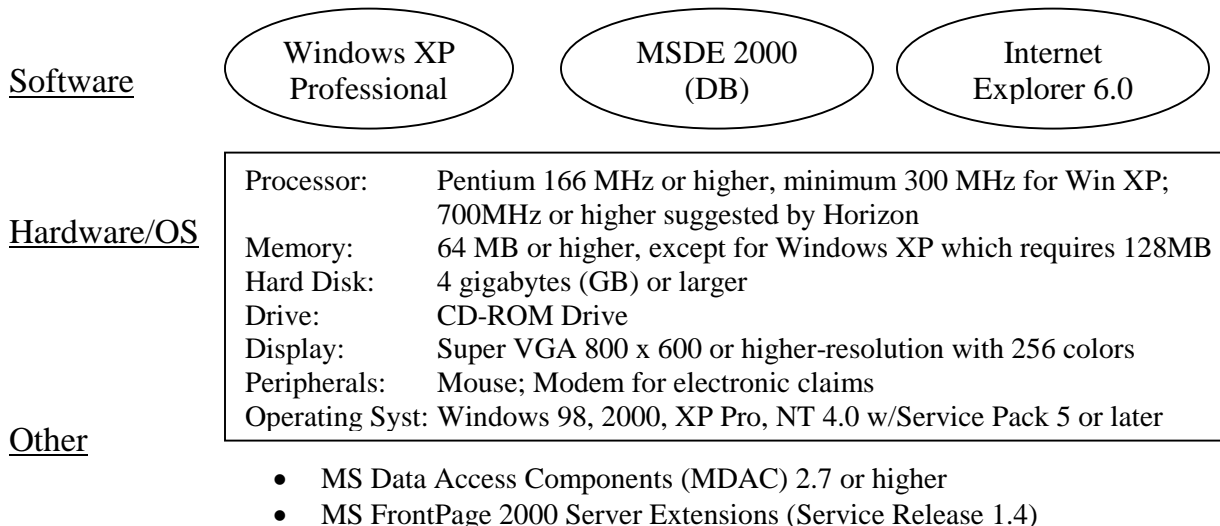
These latest technologies will likely require upgrade or replacement of some of the agency's current hardware and software. This document describes the minimum requirements of the new operating environment that must be in place for migration to Horizon's new Windows product, and is provided for your planning and budgeting purposes.

The minimum system requirements listed herein are based on each product's documentation found on the Microsoft website. ***These are minimum hardware requirements, and should not be assumed to provide optimal performance.*** For example, a 300, 500 or 700 MHz based computer may meet the minimum requirement for a server, but would not likely provide the speed of data access and report generation of a 2 GHz processor. Screens that require scrolling at 800 x 600 could be viewed fully on a higher resolution monitor.

The diagrams that follow summarize the minimum requirements of hardware and software for 1) a stand-alone computer for non-networked agencies, and 2) the server and workstations for networked sites. Following the diagrams is a table providing more details on the Microsoft system software products.

## MINIMUM System Requirements Diagram

### Single Desktop or Laptop Computer



## MINIMUM System Requirements Diagram Network

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### Server

#### Software

Windows  
2000 or 2003  
Server \*

SQL Server or  
MSDE 2000  
(DB) \*

#### Hardware/OS

Processor:	Pentium 700 MHz or higher, minimum 1 GHz suggested
Memory:	256 megabytes (MB) or higher, 4 gigabytes (GB) maximum
Hard Disk:	10 gigabytes (GB) or larger
Drive:	CD-ROM Drive
Display:	Super VGA 800 x 600 or higher-resolution with 256 colors
Peripherals:	Mouse
Operating Syst:	MS Windows Server or MS Small Business Server 2000 / 2003 * Small (2-4 user) networks may find XP Pro adequate provided the computer acting as server is not used as a workstation.
Database:	*Full license SQL Server recommended for 5 or more concurrent users and required if using laptops with synchronized data.
Networking:	Network interface cards, hubs, routers, cables, etc. as needed

#### Other

- MS Data Access Components (MDAC) 2.7 or higher
- MS FrontPage 2000 Server Extensions (Service Release 1.4)
- Infrastructure to provide workstations access to server via local or wide-area network; particular services or solutions may impose other server system requirements.

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### Workstations

#### Software

Windows OS  
98 or later

Internet  
Explorer 6.0

#### Hardware/OS

Processor:	Pentium 166 MHz or higher, minimum 300 MHz for Win XP; 700 MHz or higher suggested by Horizon
Memory:	64 MB or higher, except for Windows XP which requires 128MB
Hard Disk:	2 gigabytes (GB), except for Windows 98 and NT 4: 500 MB
Drive:	CD-ROM Drive
Display:	Super VGA 800 x 600 or higher-resolution with 256 colors
Peripherals:	Mouse; Modem for electronic claims on at least one workstation
Operating Syst:	Windows 98, 2000, XP, NT 4.0 w/Service Pack 5 or later
Networking:	Network interface card

#### Other

Infrastructure to provide access to server via local or wide-area network; particular services or solutions may impose other system requirements.

## Operating and Supportive System Modules Detail

The table below provides more detailed information about the Microsoft products that establish the new PROMISE operating environment, and the minimum hardware required to run those Microsoft products.

The information and minimum requirements are from Microsoft's website as of January 31, 2003. Note that this summary diagram takes differing requirements for processor speed and memory into account by stating the highest of values for products running on the same computer. ***Minimum requirements do not imply optimal performance.***

Single-computer (non-networked) sites will not have to buy any new Microsoft products, provided the operating system is recent and robust enough to include IIS (Internet Information Services); such sites only need to pay attention to the last three items, which are all free (Internet Explorer 6.0, MDAC, FrontPage Server Extensions).

Networked agencies with more than 5 workstations will need to purchase either 1) Windows 2000 or 2003 Server and SQL Server 2000 as separate packages or 2) Small Business Server 2000 or 2003, which include both of these required packages. Depending on exact size and data volume, very small networked sites (3 or fewer workstations) may get satisfactory performance from a Windows XP Pro machine acting as a server. However, in general, small networked sites (5 or fewer users) need to purchase Windows 2000 or 2003 Server operating system, and for the database can use the free SQL Server 2000 Desktop Engine (MSDE) - unless laptops will be used to synchronize data and operate detached from the server, for which full SQL Server is required.

Software Product	Description and System Requirements												
<b><i>Microsoft Windows 2000 Server</i></b>	<i>Operating System-Replaces Windows NT or Novell Netware, allows server to host applications and data</i>												
Needed for running Horizon systems?	Stand-alone: No Network: Yes + SQL server / No if SBS												
Computer Processor	133 MHz or higher Pentium compatible												
Memory	256 megabytes (MB) of RAM recommended 4 gigabytes (GB) maximum												
Hard Disk	2 GB hard disk with a minimum of 1.0 GB free space												
CPU Support	Windows 2000 Server supports up to four CPUs on one server machine.												
Bundling	Can be purchased alone; is also bundled with SQL Server 2000 and other Server software as part of Small Business Server (SBS) 2000.												
Approx. Cost / MS Product Number Other editions and other product numbers may be available. Price is Microsoft's retail as of January 2003. Volume or government discounts possible.	<table border="0"> <tr> <td>License with 5 users</td> <td>\$999</td> <td>C11-00016</td> </tr> <tr> <td>License with 10 users</td> <td>\$1199</td> <td>C11-00018</td> </tr> <tr> <td>Add 5 users</td> <td>\$189</td> <td>C78-00001</td> </tr> <tr> <td>Add 20 users</td> <td>\$739</td> <td>C78-00002</td> </tr> </table> <p><b>*If have prior license for NT, look for upgrade packages.</b></p>	License with 5 users	\$999	C11-00016	License with 10 users	\$1199	C11-00018	Add 5 users	\$189	C78-00001	Add 20 users	\$739	C78-00002
License with 5 users	\$999	C11-00016											
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Add 5 users	\$189	C78-00001											
Add 20 users	\$739	C78-00002											
<b><i>Microsoft SQL Server 2000</i></b>	<i>Database system - handles data access. Standard edition is appropriate for mid-sized companies running networked applications. Desktop engine (called MSDE) is suitable for small companies on stand-alone PC or small local network.</i>												
Needed for running Horizon systems?	Stand-alone: No Network: Yes + Win2K Server/No if SBS												
Computer Processor	Pentium-compatible 166 MHz or higher processor												

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Operating System	<ul style="list-style-type: none"> <li>• <b><u>SQL Server 2000 Standard Edition and Enterprise Edition</u></b> run on Microsoft Windows 2000 Server, Windows 2000 Advanced Server, Windows 2000 Datacenter Server operating systems, Microsoft Windows NT Server version 4.0 Service Pack 5 (SP5) or later, and Windows NT Server 4.0 Enterprise Edition with SP5 or later</li> <li>• <b><u>SQL Server 2000 Desktop Engine</u></b> runs on the operating systems listed above for Standard and Enterprise Editions, as well as on Windows 98, Windows Millennium Edition (Windows Me), Windows XP Professional, Windows XP Home Edition, Windows 2000 Professional, and Windows NT Workstation 4.0 with SP5 or later.</li> </ul>
Memory	<ul style="list-style-type: none"> <li>• Enterprise Edition: 64 MB RAM; 128 MB recommended.</li> <li>• Standard Edition: 64 MB.</li> <li>• Desktop Engine: 128 MB for Windows XP; 64 MB for Windows 2000; 32 MB for other operating systems.</li> </ul>
Hard Disk	<ul style="list-style-type: none"> <li>• Enterprise, Standard Editions require: 95–270 MB free hard-disk space for the server; 250 MB for a typical installation.</li> <li>• Desktop Engine (MSDE) requires 44 MB of available hard-disk space. Database size is limited to 2GB.</li> </ul>
Drive	CD-ROM Drive
Display	VGA or higher-resolution monitor.
Operating System – Client	Recommended for workstations connected to MS SQL Server: Windows NT 4.0, Windows 2000 (all versions), Windows XP, Windows 98, and Windows 95.
Bundling	Can be purchased alone; is also bundled with Windows 2000 Server and other Server software as part of Small Business Server (SBS) 2000.
Approx. Cost / MS Product Number Other editions and other product numbers may be available. Price is Microsoft's retail as of January 2003. Volume or government discounts possible.	<p>MSDE Desktop engine for stand-alone or small networked sites. Limited to 5 concurrently attached workstations and database size of 2GB.      \$ Free – Horizon will provide</p> <p>Standard Edition, 5 users      \$1489      228-00683 Between 5-50 users      Not cost-effective; purchase Small Business Server instead</p>
<b><i>Microsoft Small Business Server 2000</i></b>	<i>Full network solution for shared database, fax, email, internet security, and more. Includes Windows 2000 Server Operating System and SQL Server 2000.</i>
Needed for running Horizon systems?	Stand-alone: No    Network: No if have Windows 2000 Server + SQL 2000 Server as separate pkgs / Yes if 5 to 50 workstations and SBS price less than the 2 separate pkgs.
Computer Processor	300 Mhz Pentium minimum, 500 Mhz or higher recommended
Memory	256 megabytes (MB) of RAM minimum, 512 megabytes recommended for heavy use
Hard Disk	4 GB hard disk with a minimum of 1 GB free space; Two 8 GB disks for fault tolerance.
Operating System - Client	Recommended for workstations connected to SBS Server: Microsoft Windows 2000 Professional, Windows® 98, Windows® 95, or Windows NT® Workstation 4.0. (Note

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	from Horizon: Windows XP was released after specs for SBS 2000 server were published, but is an acceptable client operating system.)
Approx. Cost / MS Product Number Other editions and other product numbers may be available. Price is Microsoft's retail as of January 2003. Volume or government discounts possible.	License with 5 users                      \$1499    E75-00008 Add 5 users                                      \$299    E76-00005 Add 20 users                                     \$999    E76-00006 Upgrade from NT-5 users                    \$929    E75-00012 <b>*Maximum workstations supported is 50.</b>
<b>Microsoft Internet Explorer 6.0</b>	<i>Web browser – Allows viewing of Internet web sites and access to web-enabled software applications.</i>
Needed for running Horizon systems?	Stand-alone: Yes                      Network: Yes
Computer Processor	Computer with a 486/66-MHz processor or higher (Pentium processor recommended)
Memory and Hard Disk	RAM and hard disk requirements depend on the operating system used. • Windows 98: 16 MB (megabytes) of RAM minimum. Full install size: 11.5 MB • Windows 98 Second Edition: 16 MB of RAM minimum. Full install size: 12.4 MB • Windows NT 4.0 Service Pack 6a and higher: 32 MB of RAM minimum. Full install size: 12.7 MB • Windows 2000: 32 MB of RAM minimum. Full install size: 12 MB • Windows Millennium Edition: 32 MB of RAM minimum. Full install size: 8.7 MB
Drive	CD-ROM drive (if installation is done from a CD)
Display	Super VGA (800 x 600) or higher-resolution monitor with 256 colors
Peripherals	Modem or Internet connection, Microsoft Mouse, IntelliMouse®, or compatible pointing device
Cost	Included with Windows XP; free to download or order CD from Microsoft's website.
<b>Microsoft® Data Access Components (MDAC)</b>	<i>Methods of data access within the database system. If older version included in SQL installation, download latest from Microsoft.</i>
Needed for running Horizon systems?	Stand-alone: Yes                      Network: Yes
MDAC: Version and Cost	Version 2.7 or higher Free to download from Microsoft's website
<b>Microsoft FrontPage Server Extensions</b>	<i>Part of Windows Operating Systems, provides for enhanced web page handling. If older version included in Windows installation, download latest service pack version from Microsoft's website.</i>
Needed for running Horizon systems?	Stand-alone: Yes                      Network: Yes
Microsoft FrontPage 2000 Server Extensions: Version and Cost	Service Release 1.4 (available February 2003) Free to download from Microsoft's website