

System Requirements

Once you have determined the number of required servers, you must ensure that your environment meets the hardware and software requirements for installation. This section describes the hardware, software, and database requirements as well as other pre-requisites for the Uniprint Suite components.

Server Hardware Specifications

The base hardware requirements are the same for all environment sizes; however, the number of servers, the number of Pharos services installed on each server, and the number of resources managed by each server will vary with each environment. The base requirements are:

Component	Recommended Specifications
CPU	Dual Core processor
Memory	2 GB RAM
Disk space	100+ GB

For print servers that will be handling larger loads (particularly large complex print jobs):

Component	Recommended Specifications
CPU	Quad Core processor
Memory	2 GB RAM
Disk space	200+ GB

In general, increasing the amount of memory will not affect performance of the Pharos components. However, if a server is also running Microsoft SQL Server, an additional 2GB RAM may improve the database processing time.

Server Software Requirements

Pharos Database Component

The Pharos Database requires a database engine. The following database engines are supported:

Requirements	
SQL Server	<ul style="list-style-type: none"> • Microsoft® SQL Server 2005 Express Edition or better • Microsoft® SQL Server 2008 Express Edition or better • Microsoft® SQL Server 2008 R2

For all versions of SQL Server, ensure you have the latest SQL Server service packs applied.

Pharos Server Components

The following table lists the software requirements for the Pharos server components installed on a standard server (i.e. it is not clustered). For clustering requirements, please refer to the “Installing Server Components on a Cluster” section on page 38.

Requirements	
Operating System	<ul style="list-style-type: none"> • Windows Server 2003 Standard Edition and Enterprise Edition • Windows Server 2008 Standard Edition and Enterprise Edition • Windows Server 2008 R2 Standard Edition and Enterprise Edition • Windows Vista Business Edition, Enterprise Edition, and Ultimate Edition • Windows 7 Business Edition, Enterprise Edition, and Ultimate Edition

Pharos Server Pre-requisites

Ensure that the following pre-requisites are installed before installing the Uniprint Suite server components.

Pre-requisites	Description
Microsoft® Windows Installer 3.1	Windows Installer 3.1 is required by the .NET Framework. Windows Installer 3.1 is available on the Pharos CD at common\win32\DotNETFramework or it can be downloaded from Microsoft’s website.
Microsoft® .NET Framework 3.5 SP1	The .NET Framework is available on the Pharos CD at common\win32\DotNETFramework or it can be downloaded from Microsoft’s website. For Windows Server 2008, .NET Framework can be added as a "Feature" from the Administrative Tools > Server Manager .
Microsoft Management Console(MMC) 3.0 or later	Pharos Administrator and Pharos Remote require Microsoft Management Console 3.0 or later. MMC is available on the Pharos CD at common\win32\MMC or it can be downloaded from Microsoft’s website.
Microsoft Internet Information Services (IIS) 5.0 or later	The Pharos EDI service requires Microsoft Internet Information services. In addition, the Pharos Web Components require Microsoft Internet Information Services. Note: Windows Server 2008 and Windows Server 2008 R2 comes with IIS7 7.0. Please refer to the Additional Pre-requisites for Windows Server 2008 below for more information.

Additional Pre-requisites for Windows Server 2008

If you are installing Pharos Uniprint on Windows Server 2008 or Windows Server 2008 R2, you also need to install the following pre-requisites in addition to the standard pre-requisites.

- Add "Web Server (IIS)" Role from the **Server Manager**. This installs IIS 7.0 Manager.
- After adding the "Web Server (IIS) Role, you must add the following "Role Services" for Uniprint to work with IIS 7.0.

Application Development

- ASP .NET
- .NET Extensibility
- ASP

- ISAPI Extensions
- ISAPI Filters

Management Tools

- IIS Management Console
- IIS Management Scripts and Tools
- Management Service
- IIS6 Management Compatibility (including all components under this tree).

Administrative Components

The following table lists the software and hardware requirements for the Uniprint Suite administrative components. Administrative components include Pharos Administrator, Pharos Remote, Pharos Station, and Pharos Reports.

Requirements	
Operating System	<ul style="list-style-type: none"> • Windows XP Professional Edition • Windows Vista Business Edition, Enterprise Edition, and Ultimate Edition • Windows Server 2003 Standard Edition and Enterprise Edition • Windows Server 2008 Standard Edition and Enterprise Edition • Windows Server 2008 R2 Standard Edition and Enterprise Edition • Windows 7 Business Edition, Enterprise Edition, and Ultimate Edition
CPU	<ul style="list-style-type: none"> • Intel Pentium III compatible processor or higher
Memory	<ul style="list-style-type: none"> • RAM and disk space as required by the operating system
Disk Space	<ul style="list-style-type: none"> • RAM and disk space as required by the operating system

Administrative Pre-requisites

Ensure that the following pre-requisites are installed before installing the administrative components.

Pre-requisites	Description
Microsoft® Windows Installer 3.1	Windows Installer 3.1 is required by the .NET Framework. Windows Installer 3.1 is available on the Pharos CD at common\win32\DotNETFramework or it can be downloaded

	from Microsoft’s website.
Microsoft® .NET Framework 3.5 SP1	The .NET Framework is available on the Pharos CD at common\win32\DotNETFramework or it can be downloaded from Microsoft’s website.
Microsoft Management Console(MMC) 3.0 or later	Pharos Administrator and Pharos Remote require Microsoft Management Console 3.0 or later. MMC is available on the Pharos CD at common\win32\MMC or it can be downloaded from Microsoft’s website.

Client Components

The following table lists the hardware requirements for all the Uniprint Suite client components. Client components include the Popup Client and SignUp Client.

Hardware Requirements	
CPU	Intel Pentium III compatible processor or higher
Memory	RAM and disk space as required by the operating system
Disk Space	RAM and disk space as required by the operating system

Supported Popup Client Platforms

The Popup Client supports the following platforms:

- Windows XP Home Edition and Professional Edition
- Windows Vista Home Basic Edition, Home Premium Edition, Business Edition, Enterprise Edition, and Ultimate Edition
- Windows 7 Home Basic Edition, Home Premium Edition, Business Edition, Enterprise Edition, and Ultimate Edition
- Windows Server 2003 Standard Edition and Enterprise Edition
- Windows Server 2008 Standard Edition and Enterprise Edition
- Windows Server 2008 R2 Standard Edition and Enterprise Edition
- Mac OS X 10.4 - 10.6 (PowerPC and Intel)

Supported SignUp Client Platforms

The SignUp Client supports the following platforms:

- Windows XP Professional Edition
- Windows Vista Home Basic Edition, Home Premium Edition, Business Edition, Enterprise Edition, and Ultimate Edition

- Windows 7 Home Basic Edition, Home Premium Edition, Business Edition, Enterprise Edition, and Ultimate Edition
- Mac OS X 10.4 – 10.6 (PowerPC and Intel)

64-bit Support

- The server components on a standard server and clustered server support 32-bit and 64-bit versions of Windows Server 2003, Windows Server 2008 and Windows 2008 R2.
- The server components on a clustered server support 64-bit versions of Windows Server 2003 and Windows Server 2008.
- The Popup Client and Pharos Station will both support 32-bit and 64-bit versions of the supported Windows operating systems.
- The SignUp Client supports 32-bit only; it does not support 64-bit versions of the Windows operating system.

Note: *Pharos components are not officially supported on VMware 64-bit virtual machines due to hardware compatibility issues with these virtual machines.*