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Enterprise PeopleTools 8.49 Hardware and Software Requirements

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Online Sources of Information

This preface discusses:

- Using Online Source of Information

Using Online Source of Information

This Enterprise PeopleTools Hardware and Software Requirements book reflects what Oracle's PeopleSoft supports when the book is posted. However, our certification support levels are continually evolving. In addition, this document purposely provides a high-level view to avoid too many specifics such as version numbers that may quickly become out of date. Fortunately, there are several additional sources of information—described here—from which you can obtain up-to-date details about supported platforms, version numbers, and the like.

PeopleSoft Customer Connection is an electronic "bulletin board" and information exchange service that enables you to get up-to-the-minute PeopleSoft information, discuss tips and techniques with other PeopleSoft application users and PeopleSoft staff, and receive PeopleSoft application updates and fixes. To access Customer Connection, all you need is Internet access and a supported browser. In addition, because the delivery mechanism for PeopleSoft "patches" and other PeopleSoft maintenance is an ftp server, you will need ftp capability to take advantage of these updates.

Note. PeopleSoft Customer Connection is password protected. Contact your Oracle/PeopleSoft account manager to obtain a password.

You can check the following places at the PeopleSoft internet homepage (www.peoplesoft.com) for up-to-date information:

- *Supported Platforms:* Here you can find up-to-the-minute information on our certified database and operating system configurations. *The PeopleSoft Supported Platforms information should serve as your definitive resource for supported products and their version numbers.* To get there, go to the PeopleSoft web site at www.peoplesoft.com. Select the *Log In Now* link under Customer Connection. Log in, select *Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise*.
- *Additional Component Patches:* This document contains all required patches for additional software components. Log on to PeopleSoft Customer Connection, select *Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise*. Choose the appropriate links for your configuration, and select "Required Operating System, RDBMS & Additional Component Patches Required for Installation."
- *The Hardware and Software Requirements Guide:* To find the electronic version of this document in PDF format, log on to PeopleSoft Customer Connection, choose *Site Index*, the letter *H*, and then *hardware and software requirements*.
- *Release Notes:* These are documentation updates delivered with every PeopleTools maintenance release that explain new features and changes, and summarize resolved incidents (fixes). To find the Release Notes, log on to PeopleSoft Customer Connection, choose *Site Index*, choose *R* for Release Notes, and then navigate to the appropriate release number.

- *Upgrade Information:* To find tools and instructions for performing upgrades from previous PeopleTools versions, log on to PeopleSoft Customer Connection, choose *Site Index*, the letter *U*, and then *upgrade documentation and scripts*.
- *Installation Documentation:* For a list of installation guides and notes for your products, log on to PeopleSoft Customer Connection, choose *Site Index*, the letter *I*, and then *installation guides and notes*.
- *Oracle Software and Documentation:* You can download Oracle software products and documentation from the Oracle Technology Network (OTN). The URL is http://www.oracle.com/technology/index.html.

Note. Another way to get current information is to take classes. Oracle/PeopleSoft offers training classes for Oracle's PeopleSoft Enterprise PeopleTools and all Oracle's PeopleSoft Enterprise applications at Oracle University (OU). If you are planning an installation or upgrade, OU also offers classes specific to those topics.

CHAPTER 1

PeopleTools Architecture Overview and Support Definitions

This chapter discusses:

- Understanding PeopleTools Architecture
- Defining PeopleTools Support

Note. Although this Hardware and Software Requirements book provides an overview of your requirements, *PeopleSoft Customer Connection should serve as your definitive resource for supported products and their version numbers.* The Supported Platforms page on PeopleSoft Customer Connection includes up-to-the-minute information on our certified database and operating system configurations.

See PeopleSoft Customer Connection (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise).

Understanding PeopleTools Architecture

This section discusses:

- Understanding PeopleTools
- Understanding PeopleSoft Pure Internet Architecture
- Defining PeopleSoft Components
- Defining Database Support

Understanding PeopleTools

Oracle's PeopleSoft Enterprise PeopleTools is the software layer on top of which Oracle's PeopleSoft applications are developed. PeopleTools provides system-level functionality to all the PeopleSoft applications that use it, and insulates the applications from having to code to the particular specifications of individual platforms. Essentially, PeopleSoft applications are written using PeopleTools, and PeopleTools, in turn, handles the hardware and software dependencies necessary to support various platforms.

PeopleSoft applications support numerous hardware and database choices. PeopleSoft servers run on the industry's leading hardware and software platforms. PeopleSoft applications look the same to application users, regardless of the database or hardware platform being used: mainframe, midrange, or PC workstation.

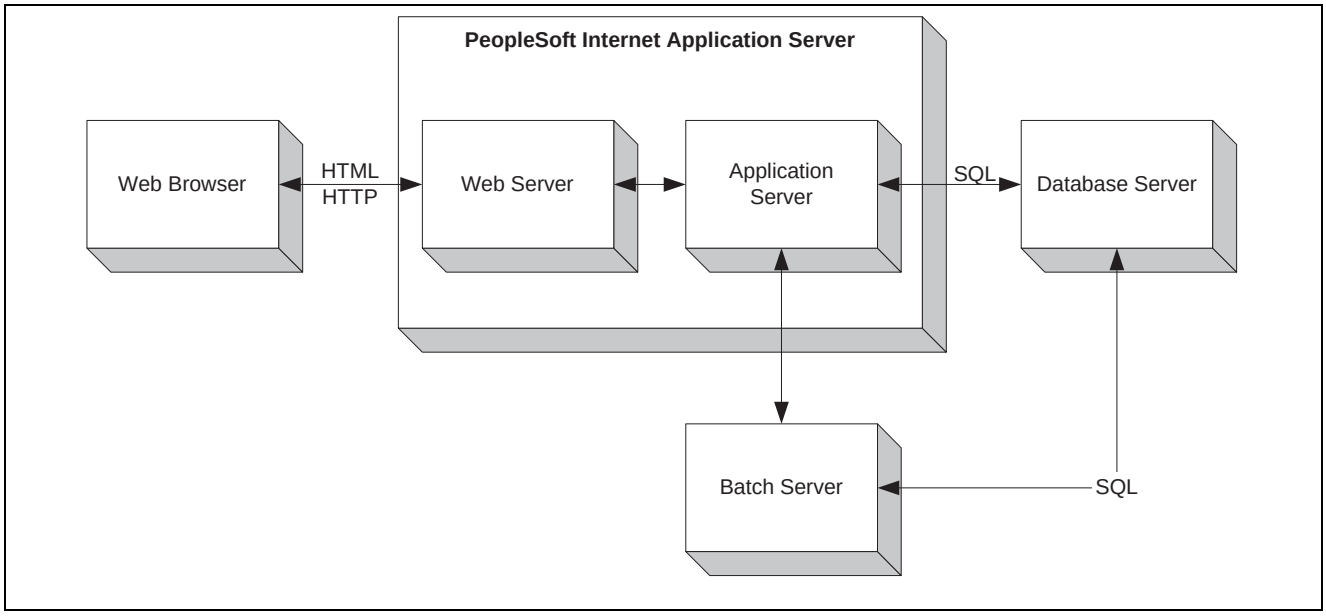
When determining hardware and software platform support, we mostly concern ourselves with those platforms supported by PeopleTools. In general, if a particular version of PeopleTools supports a platform, the PeopleSoft application written on top of that PeopleTools version supports the platform. For exceptions to this rule, consult any appendices in this book that are specific to the applications you're running; you may also want to check the application release notes and upgrade notes.

For every major release, PeopleSoft re-evaluates our platform support plan and adds or drops platforms depending on the results of our analysis. Determining which operating systems to support, which portions of the PeopleSoft software should run on the various operating systems, and which database systems to support are critical decisions.

Understanding PeopleSoft Pure Internet Architecture

PeopleTools 8.4 is the technical foundation of PeopleSoft 8 and the Oracle's PeopleSoft Pure Internet Architecture. With the release of PeopleSoft 8, PeopleSoft made the transition from a client/server applications vendor to an Internet applications vendor. Because this required major architecture changes, it is important that customers have a good understanding of the new PeopleSoft Pure Internet Architecture to fully understand the platforms being supported in PeopleTools 8.4. These architecture changes have had a major impact on our platform support plans, in many cases simplifying them, and in the long run lowering costs for our customers.

The PeopleSoft Pure Internet Architecture is a server-centric execution architecture for deploying Internet applications to end users who access the applications through a web browser. These Internet applications are built using PeopleTools 8.4. The following diagram illustrates the various architecture pieces involved in this deployment architecture:

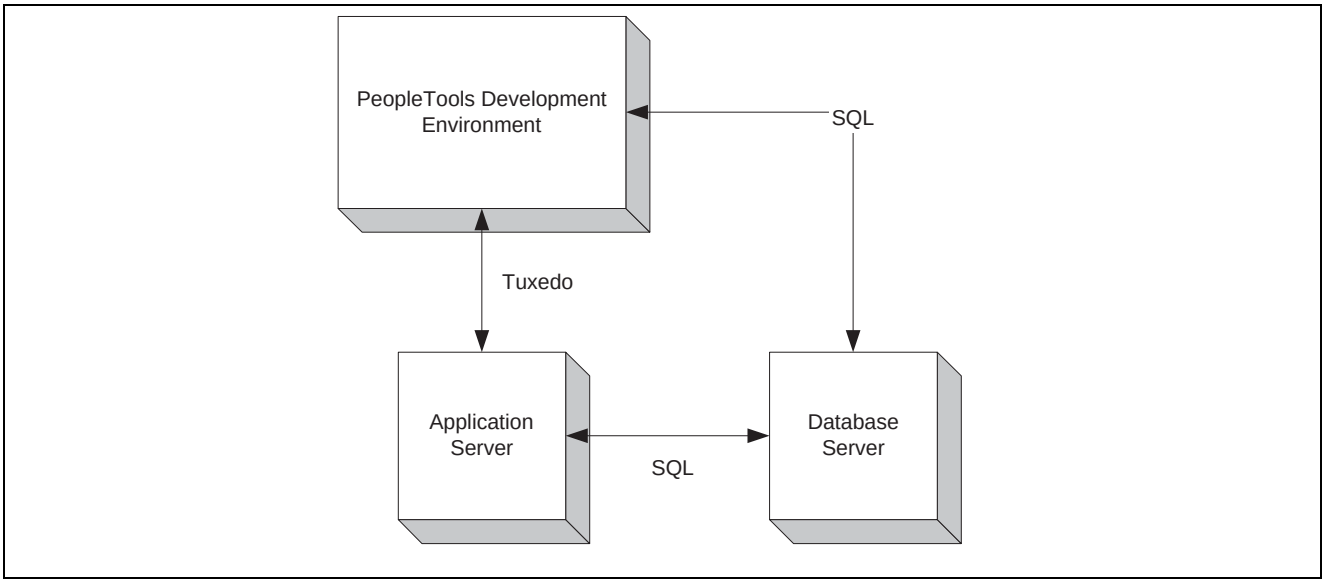


PeopleSoft Pure Internet Architecture

There are several key concepts to take away from the above diagram:

- End users access the applications through a web browser.
- The architecture is very server centric. The heart of the architecture is the PeopleSoft Internet Application Server that consists of the web server and the application server.
- The above architecture supports all of your end users. The only users who will require high-end Windows machines and client configurations will be system administrators and developers. More on this below.

The following diagram illustrates the PeopleTools Development Environment—the environment that needs to be deployed to your developers and system administrators (typically a very small percentage of your overall user base).



PeopleTools Development Environment

This is just the Windows-based PeopleTools Development Environment that can be deployed in either two- or three-tier mode.

In other words, with the PeopleTools 8.4 technology, *the client platform should be much less of an issue when compared to past PeopleSoft releases.* PeopleSoft's move to server-centric, browser-based applications in PeopleSoft 8 should allow you to focus primarily on the server platforms. All the client machine needs is a standard web browser.

Defining PeopleSoft Components

The hardware and software you need to purchase, install, and test before installing your PeopleSoft application depends on the particular PeopleSoft configuration you choose. The components you need to consider include:

- *End User Workstation:* You need a computer for each employee in your company who will use PeopleSoft applications. Because of the PeopleSoft Pure Internet Architecture, the end user's machine now just needs any PeopleSoft supported web browser. It doesn't have to have database connectivity or any PeopleSoft software.

  Under the PeopleSoft Pure Internet Architecture, the browser communicates with the web server via HTTP. The web server translates the request and communicates with the application server via Jolt (more on Jolt below). The application server interprets these messages and sends SQL to the database server.

- *PeopleTools Development Environment:* The traditional Windows-based client is still available, but is now used primarily as an environment for developers or system administrators. This Windows-based machine provides traditional two-tier and three-tier connectivity to PeopleSoft applications.

  In the two-tier architecture, application logic executes on the client machine using data it receives from the PeopleSoft database located on a separate relational database management system (RDBMS) server. The client/server network conversation uses SQL to transmit database calls. In a three-tier configuration, in contrast, the application processing logic runs on the application server. In this case, RDBMS connectivity is no longer required on the client. The client uses Tuxedo (more on Tuxedo below) to send messages to the application server, which, in turn, sends the appropriate SQL to the database server.

- *File Server:* The file server is the environment (or file) repository for the PeopleTools Development environment and for the files necessary to perform an upgrade. This includes the Change Assistant or Upgrade Assistant and all of the executables and scripts which are necessary to perform an upgrade. In addition, the file server is a source repository for COBOL and SQR. You will apply patches and updates from Customer Connection directly to the file server and then copy the updated files to your other servers.

  Note. Because the PeopleSoft Installer lets you install files to the designated server—whether it is an application server, batch server, database server, web server, and so on—the file server is no longer used to transfer the entire contents of your PeopleSoft CDs to a file server, and you will not need to use the PeopleSoft Server Transfer program to transfer files from your file server to the desired server. *This does not hold true for the DB2 UDB for z/OS platform,* which still requires a Windows file server and uses Server Transfer.

- *Database Server:* Your database server houses your PeopleSoft database (in the RDBMS of your choice). It needs sufficient disk space to accommodate your operating system, one production and one test copy of your database, and all log files—this is in addition to any disk space required for training or development databases. When you are upgrading to a new PeopleSoft release, you will also need space for two additional copies of your database. Keep in mind that database sizes vary depending on the application's use. A good rule of thumb is to initially oversize your storage media rather than undersize it.
- *Batch Server:* Your batch server runs your PeopleSoft batch processes. The term *batch server* is equivalent to the term *Process Scheduler* server. PeopleSoft batch processes, such as COBOL and SQR, are scheduled and invoked by a Process Scheduler server. The batch server maintains connectivity to the database.

  Note. COBOL is not needed for PeopleTools or for applications that contain no COBOL programs. If your application contains COBOL programs, you need to purchase a Micro Focus COBOL compiler for Windows, UNIX, or Linux platforms, or an IBM Enterprise COBOL for z/OS and OS/390 compiler for z/OS platforms.

  See "PeopleSoft Application COBOL Requirements," PeopleSoft Customer Connection (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise, By PeopleTools release, Platform Communications by Topic, Batch).

- *Application Server:* The PeopleSoft Internet Application Server consists of the web server and the application server. The application server is designed to improve performance over a wide area network (WAN) as well as to permit communication between the end user workstation (through the web server) and the database. You can run an application server on Windows or certain UNIX or Linux platforms. It needs ample disk space for BEA Tuxedo, PeopleSoft application server files, COBOL, SQR, and database connectivity. Your application server should be a powerful machine with as much memory as possible to ensure optimum performance.

  See "Server Requirements," Defining Application Server Requirements.

  The PeopleSoft application server uses BEA's Tuxedo middleware product, which is designed to enable distributed application computing. In addition, it uses BEA's Jolt, which acts as the communications layer between the web server and the application server. The application server interprets Jolt messages coming from the web server into SQL, which it sends to the database server. Thus, SQL always takes place between the application server and the database server in a high-speed local area network (LAN), avoiding costly transmissions across WANs or lower bandwidth Internet connections.

  Note. In PeopleTools 8.44 and higher, Jolt is packaged with Tuxedo.

- *Web Server:* A web server is required for the PeopleSoft Pure Internet Architecture. It serves as the link between the end user's workstation and the application server, with which it communicates via BEA's Jolt.

Note. You can set up your web server and application server on the same machine. You also have the flexibility of setting up a web server on a machine of its own, with the application server on a separate machine.

See "The PeopleSoft Pure Internet Architecture."

- *Auxiliary Hardware/Software:* You may need extra hardware and software for optional PeopleSoft functionality or to support the application you are running.
- *Laser Printer Driver (Optional):* If you want to print SQR reports that use HP/PCL initialization strings, you will need a Windows printer driver for your laser printer that produces 180-character-wide reports using the HP LinePrinter font. Your printer must be configured with sufficient memory to produce graphics images for panel printouts.

Note. The various servers identified above (application, web, and so on) are considered "logical" servers. Many can exist on the same machine, although each can also reside on its own machine in a "physical" configuration.

See "Server Requirements," Defining Application Server Requirements.

Defining Database Support

PeopleSoft supports a wide range of RDBMS products running on a broad variety of hardware platforms, enabling you to choose the RDBMS platform that best suits your organization's current needs. We currently support the following RDBMS products:

- Microsoft SQL Server for Windows
- Oracle for Solaris, HP-UX PA-RISC and HP-UX IPF, AIX, Windows, and Linux
- DB2 UDB for z/OS
- DB2 UDB for AIX, Solaris, HP-UX PA-RISC, Windows, and Linux
- Sybase for Solaris, HP-UX PA-RISC, and AIX
- Informix for Solaris, HP-UX PA-RISC, and AIX

Defining PeopleTools Support

This section discusses:

- Understanding PeopleTools Support
- Defining PeopleTools Certification
- Defining Support Levels
- Defining Support Levels for Additional Software Components

Understanding PeopleTools Support

Platform Support:

We certify a wide variety of platforms—combinations of server and client operating systems, database versions and relevant additional component software that is integrated with PeopleTools. This allows you considerable flexibility in defining your PeopleSoft environment.

Frequency of Certification:

We evaluate platforms for every major PeopleTools release. Factors for determining supported platforms include:

- Reliability
- Performance
- Maintenance costs
- Industry trends
- Existing customer base
- New sales
- Competition
- Vendor support of required PeopleTools-integrated components

Application Exceptions:

All the platforms supported for a PeopleTools release may not be supported for all applications. In addition, some applications may require additional components. Application-specific information is covered in the application's hardware and software supplements on Customer Connection.

See PeopleSoft Customer Connection, (Implement, Optimize + Upgrade, Implementation Guide, Implementation Documentation and Software, Hardware and Software Requirements).

Support Availability:

You must remain on a supported environment—including applications and platforms—to be covered by the software support terms and conditions. Sometimes vendors may end support for their platforms before support for your PeopleSoft applications retires. If vendors retire support, you must upgrade to a current certified platform to continue to receive full support from the PeopleSoft Global Support Center. Our analysts may still attempt to provide as much support as they can, but may not be able to resolve your issue if it is related to a vendor-retired platform.

Note. For the purposes of this discussion, we define a "platform" as a combination of the server operating system version and RDBMS version.

Note. This book provides an overview of your hardware and software requirements, but cannot include up-to-date specifics about version numbers. These details are maintained continuously online on Customer Connection. The preface to this book includes instructions on how to track down further information on the PeopleSoft web site.

Defining PeopleTools Certification

At PeopleSoft, we have designed a rigorous process for determining the platform configurations we support. Our certification process includes the following components:

- Complete product installation using the published documentation.
- Testing all batch components.

- Execution of automation regression tests during major/minor releases.

We deem a platform "certified" only when PeopleTools development on the platform is complete and when it successfully passes our certification test process.

Note. Once a platform is certified, PeopleSoft officially supports it.

Our top priority is ensuring that our products are certified on the latest available versions of all the database and operating system versions that we support. Typically, we certify at a specific operating system version, not specific hardware. We expect the operating system version to perform in a similar manner on any hardware that supports that operating system version. Note, however, that we certify operating systems based on their target hardware architecture. For instance, Sun Microsystems produces a version of Solaris for their SPARC-based systems, and another version of Solaris for Intel-based systems. Although these two offerings of Solaris may have identical version numbers, they are separate products. We currently only certify Solaris running on SPARC-based computers. Therefore, whether a server is an UltraSPARC-I, UltraSPARC-II, or UltraSPARC-III computer, we support it running a certified version of Solaris. We do not, however, support the same version of Solaris running Intel-based servers.

In addition, we maintain support for previous software versions as long as it is feasible. Generally, we support two or three generations of RDBMS and OS software in any given PeopleTools release. This means that we always try to provide a migration path forward for our customers who keep their system components reasonably up to date.

Although our certification strategy benefits most of our customers, it can cause problems for customers who fall behind in their PeopleSoft system maintenance. When these customers want to upgrade our software, they may have to upgrade their system components incrementally in order to remain on a supported platform *throughout* the migration.

Defining Support Levels

Certified/Supported

A certified or supported environment has been documented, installed, tested, and certified by PeopleSoft. System functionality and performance standards are checked and validated. We fully support this environment and have a working relationship with the vendors involved. If issues are discovered we will work with the customer to find a resolution.

Not Certified/Not Supported

When a product is not certified it is not supported. This means that PeopleSoft does not sell, install, or formally support your software running with products having this classification. If you upgrade any system component to an uncertified version and you have a problem with our software, PeopleSoft may advise you to use an environment combination that is certified to operate PeopleSoft applications.

Withdrawn

In rare occasions we may need to withdraw support on particular combinations after communicating support. This can happen when the additional software component vendor decides to no longer provide support due to a serious issue. When this happens we do our best to alert customers to the support change.

Planned

When an environment is listed as Planned, PeopleSoft is in the process of Certification testing of this environment. PeopleSoft does not guarantee that all environments that are planned will become supported.

Retired

A once certified or supported environment is now listed as Retired. When a vendor retires a product, PeopleSoft retires it. Our analysts may still attempt to provide as much support as they can, but may not be able to resolve your issue if it is related to a vendor-retired platform.

Defining Support Levels for Additional Software Components

A typical PeopleSoft environment is a combination of many different software products. In addition to the operating system and RDBMS, your configuration will require network and connectivity products, desktop applications, and so on.

Because there are so many different hardware and software options available, it is not feasible for PeopleSoft to test *every* potential operating environment configuration. Therefore, we have defined support levels that indicate whether the primary responsibility for support belongs to PeopleSoft or another vendor.

PeopleSoft certifies certain additional components. These components may be shipped with our software (such as Tuxedo) or they may be obtained independently (such as COBOL or Microsoft Office). PeopleSoft certifies additional components that tightly integrate with PeopleTools, and lists the certified versions by PeopleTools release in the Supported Platforms area on Customer Connection.

Note. COBOL is not needed for PeopleTools or for applications that contain no COBOL programs. If your application contains COBOL programs, you need to purchase a Micro Focus COBOL compiler for Windows, UNIX, or Linux platforms, or an IBM Enterprise COBOL for z/OS and OS/390 compiler for z/OS platforms.

See “PeopleSoft Applications COBOL Requirements,” PeopleSoft Customer Connection (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise, By PeopleTools Release, Platform Communications by Topic, Batch).

If a third party (such as a software vendor) claims compatibility with a supported environment, you’ll need to contact the vendor for resolution of any problems. PeopleSoft will support these products if you can replicate a problem in a supported environment. However, we will not necessarily make product changes to accommodate incompatibilities introduced by another vendor.

For example, PeopleSoft does not certify specific network software for any of our supported RDBMS platforms. It is the responsibility of each RDBMS vendor to document the network software supported for its product. If you encounter problems running a PeopleSoft application with a particular type of network software but can’t replicate it with a different type of software, you will have to work directly with your RDBMS vendor to resolve the problem. On the other hand, if you can demonstrate that the problem exists with many or all network software products, PeopleSoft can be expected to provide a resolution to the problem. Ultimately, the software vendor at fault must resolve errors.

CHAPTER 2

The PeopleSoft Pure Internet Architecture

This chapter discusses:

- Understanding the PeopleSoft Pure Internet Architecture
- Defining the Advantages of Browser-Based Deployment
- Describing End User Workstation Requirements
- Defining Web Server Requirements for PeopleSoft Pure Internet Architecture

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Note. This chapter provides the current information at the time of its release. For the most current support information, check PeopleSoft Customer Connection at www.peoplesoft.com. (Go to Customer Connection, select Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise.) Customer Connection is password protected. Contact your Oracle/PeopleSoft account manager to obtain a password.

Understanding the PeopleSoft Pure Internet Architecture

The PeopleSoft Pure Internet Architecture (PIA) is the next generation architecture in PeopleSoft 8. It is used to deploy ultra-thin HTML client-based applications that look and feel like state-of-the-art web sites. This chapter describes the requirements for running PeopleSoft applications over the Internet. This situation calls for an application server and a web server. The web server acts as an intermediary between the client and the application server. On the client side, all that is needed is a workstation supplied with a supported browser.

Defining the Advantages of Browser-Based Deployment

There are many reasons PeopleSoft moved to Internet-based applications that are deployed through a web browser. Very simply, our new Internet technology is superior to our past client/server technology and the end user experience is better with the browser-based applications.

From a technological perspective, the Internet-based technologies are an improvement over client/server in many ways:

- *Application Deployment:* With browser-based applications, application deployment to your end users is very simple. You simply place a hyperlink in an email or on your corporate web site, and end users can access the applications just as they access any other web site. With client/server, the end user's machine must be configured and the PeopleSoft client software must be properly installed. Deploying and configuring the client software for client/server is expensive when compared to browser-based applications, where the cost of deployment is close to zero.
- *Portability:* Thin HTML browser-based applications are very portable across client operating systems. Our Windows-based applications were limited to the Windows platform. With our new browser-based

applications, any supported browser can access and use PeopleSoft applications. This means that the end user could access the applications using a Windows, Mac, Linux, or UNIX client.

- *Client Hardware Requirements:* Because the browser-based applications put very small demands on the client machine, the end user does not have to have a high-end, expensive PC to use PeopleSoft applications. This means lower costs to customers, who will not necessarily have to upgrade client machines to achieve adequate performance when using the latest PeopleSoft release.
- *WAN Access:* Because the browser-based applications are thin client, overall WAN performance of our browser-based applications should be superior to that of our Windows-based applications. With the browser-based applications, there is no client software or application cache to be deployed over the WAN. All that is deployed to the client machine is the browser.
- *Integration:* Thin HTML, Internet-based applications are much easier to integrate than Windows-based client/server applications. For example, on a single web page you can place multiple hyperlinks that link to multiple back end systems and content providers. To the end user, this arrangement seems to be a single integrated application. This type of integration is awkward with Windows-based client/server systems. PeopleSoft 8 delivers portal technology that customers can use to deliver integrated, role-based, personalized content to their end users.

From an end user's perspective, the browser-based applications are an improvement over our Windows-based applications in many ways:

- *Simple Access:* End users just click on a hyperlink to enter the PeopleSoft applications. They no longer need to have the latest PeopleSoft patch installed on their machine to logon successfully to the PeopleSoft system. End users who access the PeopleSoft applications frequently can bookmark the PeopleSoft system in their web browser.
- *Intuitive User Interface:* Millions of people worldwide surf the web today and there appears to be no end in sight to the dramatic growth in web usage. As a result, most people who have access to computers have become skilled in the use of web browsers. They are familiar with the navigation and user interface techniques used on leading web sites today (that is, hyperlinks, the use of the Back and Forward web browser buttons, bookmarks, search, and so on). For this reason, end users should find our web-based applications easy to use. PeopleSoft application development is taking advantage of the user interface redesign for the web to make our applications much more straightforward and intuitive.

Describing End User Workstation Requirements

This section discusses:

- Understanding the End User Workstation
- Defining the Certified Web Browser and Client Operating Systems
- Defining End User Workstation Hardware Requirements
- Defining End User Workstation Software Requirements

Understanding the End User Workstation

The PeopleSoft Pure Internet Architecture leverages the PeopleTools application server to dynamically generate Internet applications that are built in the Application Designer. The PeopleSoft Pure Internet Architecture is not a retrofitted PeopleTools Windows client built to run on the World Wide Web, but instead is rich with web-specific features and design paradigms. It provides dynamic hyperlinks, image support, and user customizable HTML tags, enabling you to build applications that look and feel like a modern web site. The PeopleSoft Pure Internet Architecture customizations are all done through PeopleTools and therefore are upgradeable and fully global, supporting multilingual and multicurrency operations.

No end user installation is required; no PeopleSoft software resides on the end user workstation. The browser is all that is needed.

With the PeopleSoft Pure Internet Architecture, PeopleSoft applications can now execute on a wider variety of client platforms than ever before. The web browser is the client of the PeopleSoft Pure Internet Architecture and has enormous impact on the user interface quality and performance of the PeopleSoft 8 applications. The reality of the browser world today is that they are not all created equally. They vary widely in performance and user interface quality.

All PeopleSoft applications are being certified on a subset of the commercially available web browsers and client operating systems on the market today.

Defining the Certified Web Browser and Client Operating Systems

Based on internal testing, Internet Explorer is the clear leader in performance and user interface quality. For the functional user, where performance and reliability are key, *Internet Explorer 6 is the recommended web browsers running on Windows 2000 or XP.* This combination provides what we feel is an optimal experience. The following are the combinations of web browser and client operating systems PeopleSoft is certifying for *all* PeopleSoft 8 applications on PeopleTools 8.4:

Note. On UNIX and Linux, and Mac OS X, Netscape 7 is the preferred browser.

- Internet Explorer 6 on Windows 2000, Windows XP, and Windows Server 2003
- Internet Explorer 7 on Windows XP and Windows Server 2003.
- Netscape 7.x on Windows 2000, Windows XP, and Windows Server 2003, UNIX, Linux, and Mac OS 9, X
- Netscape 8.1 on Windows 2000, Windows XP and Windows Server 2003.
- Mozilla 1.7 on Windows, UNIX, Linux, and Mac OS X
- Firefox 2.0 on Windows 2000, Windows XP, Windows Server 2003, UNIX, Linux, and Mac OS 10

Note. For bi-directional display such as with Arabic or Hebrew, the supported browsers are Internet Explorer 6, Netscape 7 and Mozilla 1.7.

Defining End User Workstation Hardware Requirements

The following end user workstation requirements are based on power user type operations such as intensive data-entry, navigating between many pages, and so on. Since these requirements stem from real-world scenarios, they are higher than the manufacturer's minimum for a given web browser and operating system combination. However, PeopleSoft products will function on platforms meeting the manufacturer's minimum requirements for a given web browser and operating system combination, but will not deliver the optimal user experience.

General end user workstation hardware requirements are as follows:

- While additional memory is generally beneficial, 256 MB is the minimum recommended.
- 1 GHz Pentium or equivalent processor (Pentium 800 MHz minimum)
- VGA controller and display of 800x600 resolution or higher and High Color (16 bit) mode for the best display results.

In the PeopleSoft Pure Internet Architecture (PIA), the web browser renders the user interface. The web browser receives the HTML generated by the application server and displays the graphic representation of the HTML. The CPU speed of the client has a great influence on how fast these HTML pages are rendered. HTML pages for some PeopleSoft applications can be quite complicated. The web browser should be configured to take advantage of the HTTP 1.1 Protocol and should also allow adequate disk space for HTML object caching.

Memory Requirements:

For an optimal user experience, a power user should have a system with 1 GB RAM. A minimum of 512 MB RAM on the client is required for all power user applications. This assumes that a typical power user will run three browsers (two for transactions, one for process monitor). The browser instances use 15 MB of memory each. A self-service end user would only need minimum memory to run their operating system plus one instance of their web browser.

CPU Requirements:

CPU speed affects HTML page rendering and refresh time. For an optimal user experience, all power users should have an 1 GHz Pentium or equivalent processor with a decent graphics adapter.

Screen Resolution Requirements:

Monitor display resolution should set to a minimum of 800x600. To enrich the power user's experience, some PIA pages use a higher resolution, such as 1024x768.

Defining End User Workstation Software Requirements

Basic end user workstation software requirements are as follows:

- Recommended browsers are Internet Explorer 6 and Netscape.
- PeopleSoft recommends that customers use Excel 2000 or higher on the Report Server.

  PS/nVision supports result formats in both XLS and HTML in release 8. When an HTML format is requested, PS/nVision uses Excel's *Save As Web Page* function to generate the HTML output.

  PeopleSoft has also certified Excel XP for nVision. When you use Excel XP on the server, the XLS output will be in the format of Excel XP. As a rule, you need to make sure your end-users have compatible versions of Excel on the browser client to open the XLS output generated from the Report Server. For viewing PS/nVision reports in the HTML format, no installation of Excel is required.

Defining Web Server Requirements for PeopleSoft Pure Internet Architecture

This section discusses:

- Understanding the Web Server

- Defining Web Server Software Requirements
- Defining Web Server Hardware Requirements

Understanding the Web Server

The web server performs little logic. It simply relays data back and forth between the user workstation and application server. The web server handles encryption and manages the connections between the browsers. It also caches and serves up images. For the PeopleSoft Pure Internet Architecture, most of the PeopleSoft logic occurs on an application server—this is where panels are run and HTML is generated. This architecture should yield high performance on the WAN (dialup), because it only sends HTML to the client workstation.

See Also

"Server Requirements"

The Enterprise PeopleTools 8.49 Installation book for your database platform

Defining Web Server Software Requirements

The following web server and Java servlet combinations will be packaged or supported with PeopleTools 8.4:

Web Servers:

- Oracle Application Server
- BEA WebLogic Server
- IBM WebSphere Server

Optional Reverse Proxy Servers (HTTP Servers):

- Oracle HTTP Server
- Oracle Application Server Web Cache
- Microsoft IIS v6 on Windows 2003
- Sun Java System (formerly Sun ONE or iPlanet) Web Server, Enterprise Edition
- Apache (WebLogic only)
- IBM HTTP Server (IHS) (WebSphere only). Packaged with WebSphere install. Optional to install IBM HTTP Server.

Note. PeopleSoft supports the reverse proxy servers supported by Oracle Application Server, IBM WebSphere, and BEA WebLogic servers. Please consult the PeopleSoft Customer Connection for a complete list of supported reverse proxy servers and links to IBM and BEA support web sites.

See Supported Platforms, PeopleSoft Customer Connection (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise).

These web servers are supported on the following operating systems:

Oracle Application Server	BEA WebLogic Server	IBM WebSphere Server
Windows Server 2003	Windows Server 2003	Windows Server 2003

Oracle Application Server	BEA WebLogic Server	IBM WebSphere Server
HP-UX (Intel Itanium, PA-RISC 64–bit)	HP-UX (Intel Itanium, PA-RISC 64–bit)	HP-UX (Intel Itanium, PA-RISC 64–bit)
Solaris (64–bit SPARC)	Solaris	Solaris
RedHat Linux Enterprise Server	RedHat Linux Enterprise Server	RedHat Linux Enterprise Server
SUSE Linux Enterprise Server	SUSE Linux Enterprise Server	SUSE Linux Enterprise Server
AIX	AIX	AIX

Defining Web Server Hardware Requirements

The web server does not do a lot of processing; however, because it is a server, it should run on a multiprocessor machine with fast processors.

- 256 MB of memory or higher is recommended for each web server.
- Disk space is minimal. You just need enough space for the software itself and for the caching of image, JavaScripts, and style sheet files.
- PeopleSoft web servers tend to use a very high number of execute threads, file descriptors, and TCP sockets. Proper tuning in these areas is required.

CHAPTER 3

The PeopleTools Development Environment

This chapter discusses:

- Understanding the PeopleTools Development Environment
- Defining PeopleTools Development Environment Hardware Requirements
- Defining PeopleTools Development Environment Software Requirements

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Note. This chapter provides the current information at the time of its release. For the most current support information, check PeopleSoft Customer Connection. PeopleSoft Customer Connection is password protected. Contact your PeopleSoft account executive to obtain a password.

See PeopleSoft Customer Connection (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise).

Understanding the PeopleTools Development Environment

Much of this document deals with platform support for your end users. This chapter deals with platform support for your developers and system administrators—people who need the PeopleTools Development Environment on their desktops.

Note. Due to the large number of possible combinations of hardware, operating systems, database servers and so on, we do not include specific sizing information in this document. Check with your hardware vendor for published benchmark reports to estimate your sizing requirements.

The Windows-based PeopleTools Development Environment can be deployed in two- or three-tier mode. In three-tier mode, it can connect to the same application server used to serve end users in the runtime environment.

The following Windows platforms are supported for the PeopleTools Development Environment in PeopleTools 8.49:

- Windows XP Professional
- Windows Server 2003

Note. Minimum support requirements can differ between the various supported Windows operating systems.

See Supported Platforms, PeopleSoft Customer Connection (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise).

Note. If you need to run three-tier from the Windows-based client on Windows XP Professional, you need to set up application servers running on another supported platform. Tuxedo is not supported on Windows XP Professional so we currently do not support application servers running on that Windows version.

Note. In PeopleSoft 8.4, there is no Windows-based client for runtime. All operations that were previously performed within the Windows client are available from within the PeopleSoft Pure Internet Architecture pages.

To ensure that your workstations perform consistently, you should configure them as uniformly as possible. Also you should consult the documentation for the application or applications you are installing to check for any application-specific hardware or software requirements. In addition, be sure to review any RDBMS-specific hardware or software requirements for your PeopleTools Development Environment in the section for your particular RDBMS platform.

See “Server Requirements.”

Defining PeopleTools Development Environment Hardware Requirements

The following list presents the *minimum* hardware requirements for a workstation being used as a PeopleTools Development Environment. Obviously, the faster your machine, the faster its response time. To achieve optimal performance, you should invest in hardware that maximizes the performance of your operating system environment.

- Intel PC. PeopleSoft recommends *at least* an 800 MHz Pentium or comparable chip with 512 MB of RAM or higher.
- VGA controller and display of 800x600 resolution or higher and minimum 256 color mode with small font size.
- Network interface card.
- An install workstation will need a standard CD-ROM reader to install PeopleSoft software.
- Mouse or other pointing device.
- Internet connectivity is required for remote PeopleSoft maintenance and access to Customer Connection. The higher the connection speed the better.

Defining PeopleTools Development Environment Software Requirements

The following list presents the *minimum* software requirements for your PeopleTools Development Environment. Note that there may be additional software requirements, depending upon which database platform you are running.

See “Server Requirements,” your RDBMS section.

- Supported Windows clients.
- Supported database connectivity software for your RDBMS environment. *All* two-tier PeopleSoft client workstations need database connectivity software. You also need database connectivity to have the option to specify a two-tier or three-tier connection at logon. However, if you are running only in a three-tier environment on a particular client, that machine does not need database connectivity software, because the application server is responsible for maintaining the SQL connections to the database. Here are the situations in which you need client database connectivity software on the PeopleTools Development Environment:
  - If you need to install a database or load stored statements using Data Mover.
  - If you want to log on in two-tier mode.
  - If you log on in three-tier mode, but wish to run Process Scheduler (COBOL and SQR) locally.

  See "Server Requirements," your RDBMS section.
- PeopleSoft COBOL applications require Micro Focus COBOL NetExpress Compiler (minimum); estimated disk space 215 MB. PeopleSoft recommends that you have one copy of the Micro Focus NetExpress COBOL compiler, installed on a single Windows workstation client. Check for the certified version of COBOL for your applications on the PeopleSoft Customer Connection.

  See Supported Platforms, PeopleSoft Customer Connection, (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise).

  Before PeopleTools 8.4, PeopleSoft delivered both source and compiled COBOL for Windows systems, whereas on UNIX systems COBOL source had to be compiled. From PeopleTools 8.4 onwards, PeopleSoft delivers only COBOL source code for both Windows and UNIX systems. Compiled COBOL programs are no longer delivered for Windows systems. *If you have PeopleSoft COBOL applications, you will need to compile them.* You will also need a COBOL compiler to compile PeopleSoft COBOL patches, which are downloaded as source code. Several other situations may require that you recompile your COBOL.

  See *Enterprise PeopleTools 8.49 Installation for your database platform,* "Compiling COBOL."

Note. COBOL is not needed for PeopleTools or for applications that contain no COBOL programs. If your application contains COBOL programs, you need to purchase a Micro Focus COBOL compiler for non-mainframe platforms, or an IBM Enterprise COBOL for z/OS and OS/390 compiler for z/OS platforms.

See "PeopleSoft Application COBOL Requirements," PeopleSoft Customer Connection (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise, By PeopleTools release, Platform Communications by Topic, Batch).

Note. PeopleSoft does not certify all Micro Focus COBOL patches, but will certify all the required patches listed in the following online documentation for supported platforms.

See "Required Operating System, RDBMS & Additional Component Patches Required for Installation, " PeopleSoft Customer Connection, (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise. Select your database platform.)

Note. If you are using a Windows application server, you can use the COBOL compiler on the application server to compile client COBOL patches. In this case, there's no need to have a COBOL compiler on the client. You must have a COBOL compiler license for each developer that will be compiling COBOL (named user license model). It's possible all developers may be sharing the same machine, but would still need separate licenses.

Note. For more information on COBOL compiler requirements for the batch server, see “Server Requirements,” Defining Process Scheduler (Batch) Server Requirements.

Note. For more information on COBOL compiler requirements for the application server, see “Server Requirements,” Defining Application Server Requirements.

- Crystal version 9 (minimum); estimated disk space 65 MB. Only applies to two-tier connection.
- Microsoft Office 2000 or XP; estimated disk space 130 MB. Only applies to two-tier connection.
- TCP/IP. Only required for three-tier connection. In three-tier connections, the Windows client connects to an application server using Tuxedo, and Tuxedo requires TCP/IP. For Windows clients, Tuxedo is packaged as part of the PeopleSoft software; no additional Tuxedo installation is necessary.
- PowerPlay version 7.1 (minimum); estimate disk space 180 MB.
- Visio may be required if you plan on doing ERD diagramming.

  See PeopleSoft Customer Connection, Supported Platforms (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise).

CHAPTER 4

Server Requirements

This chapter discusses:

- Understanding Server Requirements
- Defining File Server Requirements
- Defining Database Server Requirements
- Defining Process Scheduler (Batch) Server Requirements
- Defining Application Server Requirements
- Describing Supported Server Configurations by RDBMS
- Defining Microsoft SQL Server Support
- Defining Oracle Support
- Defining DB2 UDB for z/OS Support
- Defining DB2 UDB for Linux, UNIX, and Windows Support
- Defining Informix Support
- Defining Sybase Support
- Defining Support for BusinessObjects Enterprise XI
- Describing LDAP Server
- Using Performance Monitor
- Defining Support for Enterprise Resource Planning Connectors

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Note. This chapter provides the current information at the time of its release. For the most current support information, check Customer Connection at www.peoplesoft.com. (Go to PeopleSoft Customer Connection, Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise.) Customer Connection is password protected. Contact your PeopleSoft Account Executive to obtain a password.

Understanding Server Requirements

This chapter discusses server requirements for the following types of PeopleSoft servers and the supported configuration specifications for your particular RDBMS:

- *File Server:* The file server is the environment (or file) repository for the PeopleTools Development environment and for the files necessary to perform an upgrade. This includes the Upgrade Assistant and all of the executables and scripts which are necessary to perform an upgrade. In addition, the file server is a source repository for COBOL and SQR. You will apply patches and updates from Customer Connection directly to the File Server and then copy the updated files to your other servers.

Note. Because the PeopleSoft Installer lets you install files to the designated server—whether it is an application server, batch server, database server, web server, and so on—the file server is no longer used to transfer the entire contents of your PeopleSoft CDs to a file server, and you will not need to use the PeopleSoft Server Transfer program to transfer files from your file server to the desired server. *This does not hold true for the z/OS platform*, which still requires a Windows file server and use Server Transfer.

- *Database Server:* Your database server houses your PeopleSoft database (in the RDBMS of your choice).

Note. Depending on your application, your application-specific installation documentation may include Demo database sizing information.

- *Process Scheduler (Batch) Server:* Your batch server runs your PeopleSoft batch processes via Process Scheduler.
- *Application Server:* The PeopleSoft application server is designed to improve performance over a WAN. The application server is also an essential component of the PeopleSoft Pure Internet Architecture.
- *LDAP Server:* You have the option to use a Lightweight Directory Access Protocol (LDAP) server for authentication and authorization.
- *Supported Server Configurations by RDBMS:* Look here when planning the installation of your PeopleSoft database. These sections, broken down by database, list hardware and software requirements particular to the specific databases.

Note. Web server information is covered in a later chapter.

See “The PeopleSoft Pure Internet Architecture.”

Note. Due to the large number of possible combinations of hardware, operating systems, database servers and so on, we do not include specific sizing information in this document. Check with your hardware vendor for published benchmark reports to estimate your sizing requirements.

Note. For required non-PeopleTools patches, check PeoepleSoft Customer Connection.

See PeopleSoft Customer Connection, Supported Platforms (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise).

Note. Minor PeopleTools releases (8.42, 8.43, and so on) are produced regularly. You need a new PeopleTools CD to install such releases. For PeopleTools patches (such as 8.49.01), select the Updates and Fixes link on PeopleSoft Customer Connection.

Defining File Server Requirements

This section discusses:

- Understanding the File Server
- Defining File Server Hardware Requirements
- Defining File Server Software Requirements

Understanding the File Server

A standard PeopleSoft environment contains a file server to share printers and to maintain binaries required for the Windows-based client—the PeopleTools Development Environment. If you are running the PeopleTools Development Environment, you can use the file server to maintain a master copy of the system programs to which your workstation connects. PeopleSoft *strongly* recommends that you either purchase a machine with sufficient disk capacity to act as your file server, or provide the required disk capacity on an existing machine. You need to use a 32-bit file server that supports a Windows client or UNIX machine.

Defining File Server Hardware Requirements

A typical file server configuration requires the following items:

- Pentium-based computers running NetWare, or Windows Server 2003. Or, UNIX machines that support NFS or comparable networking software.
- Sufficient disk space to accommodate the following:
  - PeopleSoft software—10 GB or more, depending on your application(s)
  - Network operating system and associated files
  - Other application files (such as Microsoft Office)
- Sufficient memory to meet your network operating system requirements. PeopleSoft recommends that you maximize the amount of memory on your file server to ensure optimum performance.
- VGA video controller and display (800x600 or higher resolution and 256 colors required).
- Network interface card.
- Backup system.

Defining File Server Software Requirements

Network operating system such as NetWare or Windows Server 2003, which may be dictated by your RDBMS selection.

Defining Database Server Requirements

This section discusses:

- Understanding the Database Server
- Defining Database Server Hardware Requirements
- Defining Database Server Software Requirements

Understanding the Database Server

The RDBMS environments that PeopleSoft supports include:

- Microsoft SQL Server
- Oracle
- DB2 UDB for z/OS

- DB2 UDB for Linux, UNIX, and Windows
- Sybase
- Informix

This section lists PeopleSoft's universal requirements for a database server. For product-specific requirements—as in requirements for Oracle—refer to the later section devoted to your particular RDBMS. Note that database sizes vary depending on the application and the number of employees you expect to support. A good rule of thumb is to initially oversize rather than undersize your storage media and to maximize the amount of RAM on your system.

Note. Depending on your application, your application-specific installation documentation may include Demo database sizing information.

Note. Unicode is supported on Oracle, Microsoft SQL Server, DB2 UDB for z/OS, and DB2 UDB for Linux, UNIX, and Windows. It is not supported on Informix or Sybase.

See *Enterprise PeopleTools 8.49 PeopleBook: Global Technology.*

Note. Several operating system vendors have announced the retirement date for some of the operating systems that PeopleSoft supports today. Make sure to take these retirement dates into account when installing new PeopleSoft applications, or upgrading from older versions of PeopleSoft applications or PeopleTools.

Defining Database Server Hardware Requirements

The following are database server hardware requirements:

- Sufficient disk space to accommodate:
  - RDBMS software and all requisite products.
  - Operating system.
  - One production and one test version of your database, one copy of the PeopleSoft database, and all log and dump files. This is in addition to any disk space required for any training or development databases. Upgrades require additional copies. Database sizes vary depending on the application.
- Backup device.
- Video controller and display.
- Appropriate network interface card and cabling to connect to network.
- Uninterruptible power supply (UPS) with sufficient capacity to allow an orderly shutdown of the database server and operating system in the event of a power failure (optional, but recommended).

Defining Database Server Software Requirements

The following are database server software requirements:

- RDBMS software and all requisite products
- Operating system
- Compilers
- Supported SQL query tool

- Any required network connectivity software

Note. Often there will be a patch that fixes a bug on the client side. If the server is the only piece that's upgraded, the issue will still exist. This is true for both client connectivity on Windows and for client connectivity on application servers and batch servers when connecting to a remote database server.

Defining Process Scheduler (Batch) Server Requirements

This section discusses:

- Understanding the Process Scheduler Server
- Defining Process Scheduler Server Hardware Requirements
- Defining Process Scheduler Server Software Requirements

Understanding the Process Scheduler Server

For a batch server, PeopleSoft supports the z/OS and z/Linux environments as batch servers, as well as all of the platforms that are supported as application servers. The term *batch server* is equivalent to the term *Process Scheduler server*. PeopleSoft batch processes, such as COBOL and SQR, are scheduled and invoked by a Process Scheduler server. In almost all configurations, batch server SQR and COBOL files are located and executed on the same computer as the database server.

Note. Any computer operating as a batch server must have database connectivity installed so that it can make a two-tier connection to the PeopleSoft database.

Note. COBOL is not needed for PeopleTools or for applications that contain no COBOL programs. If your application contains COBOL programs, you need to purchase a Micro Focus COBOL compiler for Windows, UNIX, or Linux platforms, or an IBM Enterprise COBOL for z/OS and OS/390 compiler for z/OS platforms.

See "PeopleSoft Application COBOL Requirements," PeopleSoft Customer Connection (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise, By PeopleTools release, Platform Communications by Topic, Batch).

Note. The Process Scheduler on UNIX cannot execute Windows-specific batch processes, such as Crystal Reports, nVision reports, Microsoft Word, or Cube Manager (PowerPlay). With UNIX-based databases you need to set up a Process Scheduler environment on a dedicated Windows server. UNIX Process Schedulers can still be used for Application Engine, COBOL, and SQR processing.

The PeopleTools Application Engine is used primarily for batch processes. It has a GUI definitional "front end" that allows you to define and maintain your Application Engine programs, and a "back end" that executes the programs that you have defined. In PeopleSoft 7.5 and prior releases, this back-end program was written in COBOL. For PeopleSoft 8 and beyond, the COBOL portion of the Application Engine has been rewritten in C++. This approach allows us to more tightly couple the Application Engine to the PeopleTools environment and to leverage existing PeopleTools components. The new Application Engine is thus more flexible and powerful; for instance, it lets you use PeopleCode. In addition, there is tight integration with other PeopleTools objects such as Business Components, Tree APIs, Application Messaging, and Business Interlinks. There is also seamless integration into an online application within the same unit of work.

Note. Report Distribution/Report Repository allows reports and log files from Process Scheduler to be viewed from a web browser. For information on the new Report Distribution/Report Repository refer to the following: See the Enterprise PeopleTools 8.49 Installation guide for your database platform.

Defining Process Scheduler Server Hardware Requirements

The following are Process Scheduler server hardware requirements

- Sufficient disk space to accommodate the operating system:
  - Intel (Windows)
  - Intel (Linux)
  - z/series (Linux)
  - HP (HP-UX PA-RISC)
  - HP (HP-UX Itanium)
  - IBM (AIX)
  - Sun (Solaris)
  - z/OS
- Backup device
- Video controller and display.
- Appropriate network interface card and cabling to connect to network.

Defining Process Scheduler Server Software Requirements

The following are Process Scheduler server software requirements:

- RDBMS connectivity software
- Operating system

- Appropriate COBOL compiler (if your application contains COBOL programs)

Note. *UNIX* COBOL support for z/OS DB2 (EBCDIC) databases:

RemoteCall Cobol and Batch Cobol are *only supported* for Financials/SCM applications.

RemoteCall Cobol and Batch Cobol *are not supported* for any other product lines.

Note. *Windows* COBOL support for z/OS DB2 databases:

RemoteCall Cobol and Batch Cobol *are supported* for Financials/SCM applications.

RemoteCall Cobol and Batch Cobol *are supported* for other applications, but *only if your host's DB2 subsystem is CCSID=37.*

Note. *UNIX and Windows* COBOL support for z/OS DB2 Unicode databases:

RemoteCall Cobol and Batch Cobol are *supported* for Financials/SCM applications.

RemoteCall Cobol and Batch Cobol *are also supported* for any other product lines.

- Appropriate C compiler (only if your RDBMS requires C compilers—Oracle, for instance)

- Supported SQL query tool
- Any required network connectivity software
- PeopleSoft recommends that customers use Excel 2000 or higher on the Report Server.

  PS/nVision supports result formats in both XLS and HTML in release 8. When an HTML format is requested, PS/nVision uses Excel's *Save As Web Page* function to generate the HTML output.

  PeopleSoft has also certified Excel XP for nVision. When you use Excel XP on the server, the XLS output will be in the format of Excel XP. As a rule, you need to make sure your end-users have compatible versions of Excel on the browser client to open the XLS output generated from the Report Server. For viewing PS/nVision reports in the HTML format, no installation of Excel is required.

Defining Application Server Requirements

This section discusses:

- Understanding the Application Server
- Defining Windows Application Server Requirements
- Defining UNIX Application Server Requirements
- Defining DB2 UDB for z/OS Options

Understanding the Application Server

PeopleSoft Pure Internet Architecture consists of an application server and a web server. The application server serves as an intermediary between the user workstation and the database server. It connects to the PeopleSoft database and handles almost all SQL-intensive interaction with the database server required during online transaction processing. The application server interacts with the end user workstation (which only needs a supported browser) via the web server. The application server also provides functionality required for application messaging and for implementing the PeopleSoft Pure Internet Architecture. If you are using the PeopleTools Development Environment, your workstation machine communicates with the application server using Tuxedo messages. All application servers require database connectivity to the database server. Before beginning your installation, make sure that you can connect from the application server to the database server using a SQL client tool.

Note. An application server is required in all PeopleSoft 8.4 installations. You can no longer use a two-tier-only configuration to run PeopleSoft applications.

When you install a UNIX-based RDBMS such as Oracle for UNIX, the application server is generally installed on the same machine as the database server, a configuration called *logical three-tier*. You can also install application servers on one or more separate UNIX or Windows machines. This configuration is called *physical three-tier*.

When you install a Windows-based RDBMS such as Oracle for Windows, you may use a Windows application server. This application server can be installed on the same machine as the database server, but you will probably get better results if you install one or more dedicated application servers (that is, a physical three-tier configuration). If you use a physical three-tier option, you should plan to connect the application server to the database using the highest bandwidth connection available.

Note. You can also have your web server on the same machine as your application server, in a logical configuration, or on a separate machine, in a physical configuration.

See “The PeopleSoft Pure Internet Architecture.”

Whether you configure your three-tier environment as physical or logical depends on the combination of your RDBMS and operating system. When implementing an application server, pay close attention to the operating systems on which application servers are supported. For PeopleTools 8.4, we support application servers on Windows Server 2003 and UNIX operating systems from Hewlett Packard, IBM, Sun Microsystems, and some Linux implementations. The following sections describe the requirements that the various types of application servers need to meet.

Note. In all cases, PeopleSoft encourages you to provide your application server with the most RAM and processing speed available to take full advantage of the three-tier configuration. You may need to increase memory to attain desirable performance.

Defining Windows Application Server Requirements

This section discusses:

- Understanding the Windows Application Server
- Defining Windows Application Server Hardware Requirements
- Defining Windows Application Server Software Requirements

Understanding the Windows Application Server

A Windows application server can be used for every RDBMS platform supported by PeopleSoft. For installation purposes, PeopleSoft recommends that you configure a physical three-tier environment with a Windows application server, although you may choose a logical three-tier configuration if running a Windows database server. The following table illustrates a physical three-tier environment with a Windows application server.

APPLICATION SERVER	RDBMS
Windows	Any PeopleSoft-supported RDBMS

Note. COBOL is not needed for PeopleTools or for applications that contain no COBOL programs. If your application contains COBOL programs, you need to purchase a Micro Focus COBOL compiler for Windows, UNIX, or Linux platforms, or an IBM Enterprise COBOL for z/OS and OS/390 compiler for z/OS platforms.

See "PeopleSoft Application COBOL Requirements," PeopleSoft Customer Connection (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise, By PeopleTools release, Platform Communications by Topic, Batch).

Defining Windows Application Server Hardware Requirements

The following are Windows application server hardware requirements.

- Recommend two processors minimum; at least four processors for production.
- Memory requirement is 512 MB (minimum) per server for roughly up to 25 users. After that add 1.5 MB per user for each user beyond 25 users. 1,000 users require roughly 2.0 GB of memory.
- Recommend fastest or near fastest processors available.
- Sufficient disk space to accommodate:
  - BEA Tuxedo (235 MB).
  - Micro Focus Net Express COBOL Compiler (270 MB).
  - Database connectivity package varies per platform; check with vendor.
  - PeopleSoft application server files/code (2.5 GB).
- Network interface card.

Note. PeopleSoft recommends an additional 512 MB to 1 GB of disk space, depending on the applications installed.

Defining Windows Application Server Software Requirements

The following are Windows application server software requirements.

- Windows Server 2003

Note. Tuxedo is not supported on Windows XP Professional so we currently do not support application servers running on that Windows version.

- BEA Tuxedo

Note. Make sure to use the version of Tuxedo that shipped with your PeopleTools product.

- Micro Focus Net Express COBOL Compiler (NetExpress).
- Database connectivity package.
- PeopleSoft application server files and code.
- Any required application server patches.
- FTP capability. (The delivery mechanism for PeopleSoft "patches" and other PeopleSoft maintenance files is through an FTP server.)

Defining UNIX Application Server Requirements

This section discusses:

- Understanding the UNIX Application Server
- Defining UNIX Application Server Hardware Requirements
- Defining UNIX Application Server Software Requirements

Understanding the UNIX Application Server

PeopleSoft supports logical and physical three-tier configurations on UNIX. If your database server is installed on one of the operating systems listed below, you can install the application server on that same machine in a logical three-tier configuration. In addition, you can set up a physical three-tier configuration using Windows or any of the UNIX operating systems listed below as the application server. If your database server is not installed on one of the operating systems listed below, your options are more limited. In this case, you must employ a physical three-tier configuration, using either a Windows machine or any UNIX operating system listed below.

Note. COBOL is not needed for PeopleTools or for applications that contain no COBOL programs. If your application contains COBOL programs, you need to purchase a Micro Focus COBOL compiler for Windows, UNIX, or Linux platforms, or an IBM Enterprise COBOL for z/OS and OS/390 compiler for z/OS platforms.

See "PeopleSoft Application COBOL Requirements," PeopleSoft Customer Connection (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise, By PeopleTools release, Platform Communications by Topic, Batch).

Defining UNIX Application Server Hardware Requirements

The following are UNIX application server hardware requirements:

- Sufficient disk space to accommodate:
  - BEA Tuxedo (200 MB).
  - COBOL Compiler (50 to 70 MB).
  - Database connectivity package varies per platform; check with vendor.
  - PeopleSoft application server files (3 GB).
- Memory ranges depend on the deployed applications, because each application has a different memory requirement. For example, CRM uses about 100 MB for each PSAPPSRV process, while Financials uses about 300 MB per process. The minimum memory configuration for an application server domain should be 1 GB. For high volume systems, the memory configuration should be 4 GB.

See Supported Platforms, PeopleSoft Customer Connection, (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise).

Defining UNIX Application Server Software Requirements

The following are UNIX application server software requirements:

- A UNIX application server must be running one of the following operating systems:
  - Solaris
  - HP-UX
  - AIX
  - Linux
- BEA Tuxedo

  Note. Make sure to use the version of Tuxedo that shipped with your PeopleTools product.

- COBOL Compiler (Micro Focus ServerExpress)
- Database connectivity package
- PeopleSoft application server files
- Any required application server patches
- FTP capability. (The delivery mechanism for PeopleSoft "patches" and other PeopleSoft maintenance files is an FTP server.)

See Supported Platforms, PeopleSoft Customer Connection (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise).

Defining DB2 UDB for z/OS Options

If you are running a DB2 UDB for z/OS database, you can configure an application server using physical three-tier only on either Windows, IBM AIX, Solaris, or HP-UX PA-RISC. The two boxes below represent two physical machines: one a UNIX or Windows machine and one the z/OS machine.

Application Server Options	RDBMS
UNIX IBM AIX Solaris Linux HP-UX PA-RISC Windows Server 2003	DB2 UDB for z/OS

Describing Supported Server Configurations by RDBMS

This part of the Server Requirements chapter specifies server platform configurations supported by PeopleSoft for the following RDBMS platforms:

- *Microsoft SQL Server:* Look here when planning the installation of your PeopleSoft Microsoft SQL Server database.
- *Oracle:* Look here when planning the installation of your PeopleSoft Oracle database.
- *DB2 UDB for z/OS:* Look here when planning the installation of your PeopleSoft DB2 database on the z/OS operating system.
- *DB2 UDB for Linux, UNIX, and Windows:* Look here when planning the installation of your PeopleSoft DB2 database on Linux, UNIX, or Windows.
- *Sybase:* Look here when planning the installation of your PeopleSoft Sybase database.
- *Informix:* Look here when planning the installation of your PeopleSoft Informix database.

Note. These sections provides the current information at the time of printing. For the most up-to-date information and for specifics about supported version numbers, check the Supported Platforms page on Customer Connection.

See Supported Platforms, PeopleSoft Customer Connection (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise).

Note. Remember, Unicode is supported on Oracle, Microsoft SQL Server, DB2 UDB for z/OS, and DB2 UDB for Linux, UNIX, and Windows. It is not supported on Informix or Sybase.

See *Enterprise PeopleTools 8.49 PeopleBook: Global Technology*

Defining Microsoft SQL Server Support

This section discusses:

- Understanding Microsoft SQL Server
- Defining Microsoft SQL Server Hardware Requirements
- Defining Microsoft SQL Server Software Requirements
- Defining Supplemental Workstation Requirements for Microsoft SQL Server
- Defining Microsoft SQL Server Maintenance Levels

Understanding Microsoft SQL Server

This section specifies PeopleSoft-supported server platform configurations for Microsoft SQL Server. For universal database server requirements, refer to the database server section of this chapter. Any additional hardware or software required for Microsoft SQL Server servers is listed below.

Defining Microsoft SQL Server Hardware Requirements

The hardware requirements for the database server will vary from site to site. For that reason, please consult your hardware vendor, your software vendor, and your PeopleSoft service representative to assist you in determining your hardware sizing requirements. Your service representatives should provide questionnaires that will help you determine the hardware required. This process should also include projections of your future needs and must involve software and hardware vendors.

Defining Microsoft SQL Server Software Requirements

You need the following:

- *Microsoft SQL Server Software.* Choosing the right version of the SQL Server software should be part of the sizing process describe above. To select the appropriate service pack:

  See Supported Platforms, PeopleSoft Customer Connection (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise).

- *SQL Server ODBC Driver.* As a rule of thumb the minimum ODBC driver you should run with is the one that came bundled with the certified SQL Server release in use.

  As an example if the certified release you are installing is SQL Server SP3a, you should install the ODBC driver that came along with that service pack in all the clients that need to connect to the server through ODBC. Microsoft SQL Server includes a "client only" installation, which you can use to deploy the ODBC driver. This installation runs the MDAC setup program that delivers the ODBC driver. PeopleSoft uses only the ODBC driver that comes with that setup.

Defining Supplemental Workstation Requirements for Microsoft SQL Server

Any workstation that requires a two-tier access to the application database must have the appropriate client software installed. Microsoft SQL Server delivers a "client only" installation that you could to deliver the ODBC drivers necessary to install the client libraries and applications required to connect to the database. Note the drivers may change when applying a service pack or fix to the server. For this reason, make sure all the clients accessing in two-tier are updated when installing a service pack or fix.

PeopleSoft uses only ODBC to connect to Microsoft SQL Server.

See Also

"The PeopleSoft Pure Internet Architecture"

"The PeopleTools Development Environment"

PeopleSoft Customer Connection, (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise)

Defining Microsoft SQL Server Maintenance Levels

Microsoft uses service packs to update Microsoft SQL Server. The list of service packs certified is available on PeopleSoft Customer Connection. In addition, Microsoft may deliver last-minute updates to protect the software from vulnerabilities or to fix problems. PeopleSoft does not certifiy for all these updates. However, your environment remains certified if Microsoft requires the installation of one of these updates to solve a specific problem. If your environment does not show the problem the updates describe, you should not apply additional fixes. If you observe problems in your PeopleSoft environment after applying a Microsoft fix, please contact Microsoft first to solve the problem; if necessary, Microsoft will contact PeopleSoft to coordinate the resolution of the problem.

See the Microsoft web site, www.microsoft.com

Defining Oracle Support

This section discusses:

- Understanding Oracle
- Defining Oracle Software Requirements
- Defining Supplemental Workstation Requirements for Oracle

Understanding Oracle

This section specifies PeopleSoft-supported server platform configurations for Oracle. For universal database server requirements, refer to the database server section of this chapter. Any additional hardware or software required for Oracle servers is listed below.

Defining Oracle Software Requirements

The following are the Oracle software requirements:

- Oracle 9i plus patch and 10g plus patch. Search PeopleSoft Customer Connection for required Oracle patches.

  See Supported Platforms, PeopleSoft Customer Connection (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise).

- SQL*Plus.

Defining Supplemental Workstation Requirements for Oracle

Oracle Net (see Supported Platforms on PeopleSoft Customer Connection for details about specific version numbers). See the earlier section on database connectivity for details about when you would want connectivity on the client.

Note. The client and server must be the same version. Often there will be an Oracle patch or a patch rolled into a patchset that fixes a bug on the client side. If the server is the only piece that you upgrade, the issue will still exist. For example, if you are running Oracle 9.2.0.7.0, your client needs to also be on 9.2.0.7.0. This is true for both client connectivity on Windows and for client connectivity on application servers and batch servers when connecting to a remote database server.

See Also

“The PeopleSoft Pure Internet Architecture”

“The PeopleTools Development Environment”

Defining DB2 UDB for z/OS Support

This section discusses:

- Understanding DB2 UDB for z/OS

- Defining DB2 UDB for z/OS Hardware Requirements
- Defining DB2 UDB for z/OS Software Requirements
- Defining DB2 UDB for z/OS Configuration
- Defining Supported Gateway Configurations

Understanding DB2 UDB for z/OS

This section specifies PeopleSoft-supported server platform configurations for DB2 UDB for z/OS.

For universal database server requirements, refer to the database server section of this chapter. Any additional hardware or software required for DB2 UDB for z/OS servers can be found in PeopleSoft Customer Connection.

See Supported Platforms, PeopleSoft Customer Connection (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise).

Database sizes vary by application and the amount of data stored. Use IBM's "large" system model guidelines as a starting point when planning your PeopleSoft implementation. The following IBM documentation contains detailed information for determining DASD ("Direct Access Storage Device") requirements for system and application databases:

See *IBM DB2 Administration Guide, Volume 1*.

Note. Only the minimum required z/OS release will be listed in the certification documents, and only z/OS releases installed and tested here at PeopleSoft are supported.

Note. COBOL is not needed for PeopleTools or for applications that contain no COBOL programs. If your application contains COBOL programs, you need to purchase a Micro Focus COBOL compiler for Windows, UNIX, or Linux platforms, or an IBM Enterprise COBOL for z/OS and OS/390 compiler for z/OS platforms.

See "PeopleSoft Applications COBOL Requirements," PeopleSoft Customer Connection (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, Platform Communications, "All archived Platform Communication topics can be viewed by following this link," Platform Communications by Topic, Batch).

Defining DB2 UDB for z/OS Hardware Requirements

The following are DB2 UDB for z/OS hardware requirements:

- IBM or compatible mainframe capable of running the host software itemized below.
- Sufficient disk space to accommodate one production and one test version of your database, one copy of the PeopleSoft database, and all log files. This is in addition to any disk space required for any training or development databases. Upgrades require additional copies. Database sizes vary depending on the application.
- Router or bridge, and bridge software, such as packages offered by Cisco, IBM, Netronix, VitaLink, or Wellfleet (required only if you use a bridged Token Ring solution).

Note. IBM recommends G5 or later processors for running PeopleSoft 8. PeopleSoft 8 batch applications can make extensive use of IEEE floating-point processing. G5 hardware has improved IEEE floating-point by many folds with integration of the floating-point functionality in to the hardware. G4 and earlier processors provide IEEE floating-point emulation in software, which yields lower performance for application engine and other floating-point intensive applications.

Defining DB2 UDB for z/OS Software Requirements

The following are DB2 UDB for z/OS software requirements:

- ACF/VTAM version 2 or later.
- Security software: RACF, ACF2, or TopSecret.
- TSO.
- IND$FILE Host file transfer program or FTP or other capability to upload PeopleSoft batch program source, JCL, and others to mainframe.
- IBM Enterprise COBOL for z/OS compiler for the mainframe, including compiler, runtime and LE environment.
- DB2 Connect (see Supported Platforms on PeopleSoft Customer Connection for precise version numbers).
- The minimum supported Java Runtime Environment (JRE) version for PeopleTools 8.49 and above is JRE 1.5.0.
- TCP/IP for MVS, Version 3 Release 2 or higher.
- DB2 Open Database Connectivity (ODBC).
- See PeopleSoft Customer Connection for the minimum required z/OS version.
- The %UpdateStats metaSQL function requires the following:
  - IBM stored procedure DSNUTILS. DSNUTILS is an IBM delivered stored procedure that allows application programs to execute DB2 utilities (such as Runstats).
  - Note that DSNUTILS must execute in an authorized WLM (Work Load Manager) Application Environment. See the DB2 UDB for z/OS Installation and Administration documentation for more details on using DSNUTILS.
  - IBM APAR UQ67239 / UQ67238 is required to use DSNUTILS with a Secondary Authid.
- Unicode support requires DB2 UDB for z/OS v8.1 running in New Function Mode.

Note. *UNIX* COBOL support for z/OS DB2 (EBCDIC) databases:

RemoteCall Cobol and Batch Cobol are *only supported* for Financials/SCM applications.

RemoteCall Cobol and Batch Cobol *are not supported* for any other product lines.

Note. *Windows* COBOL support for z/OS DB2 databases:

RemoteCall Cobol and Batch Cobol *are supported* for Financials/SCM applications.

RemoteCall Cobol and Batch Cobol *are supported* for other applications, but *only if your host's DB2 subsystem is CCSID=37.*

Note. *UNIX and Windows* COBOL support for z/OS DB2 Unicode databases:

RemoteCall Cobol and Batch Cobol *are supported* for Financials/SCM applications.

RemoteCall Cobol and Batch Cobol *are also supported* for any other product lines.

See Also

Enterprise PeopleTools 8.49 Installation for DB2 UDB for z/OS

PeopleSoft Customer Connection (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise)

"Important PTFs on DB2 UDB for z/OS and OS/390," PeopleSoft Customer Connection (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise, By Database Management System, Platform Communications by Topic, Platforms—DB2 UDB for DB2 z/OS and OS/390)

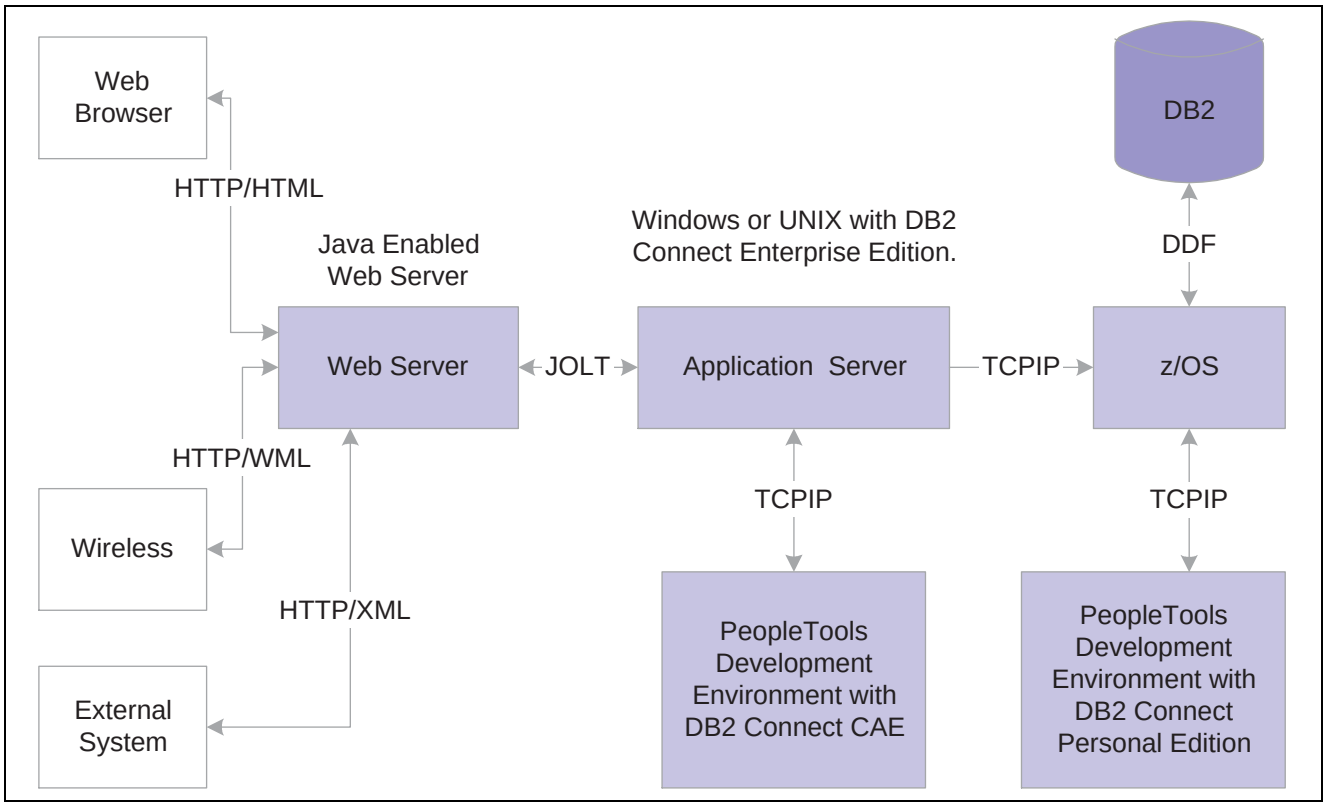
Defining DB2 UDB for z/OS Configuration

This section discusses:

- Understanding DB2 UDB for z/OS Configuration
- Describing DB2 Connect
- Using Gateway Connection with DB2 Connect Enterprise Edition
- Using Native TCP/IP Connection DB2 Connect Personal Edition

Understanding DB2 UDB for z/OS Configuration

PeopleSoft access to IBM-compatible mainframes on LANs can be provided either through a gateway machine or directly. If you are using DB2 Connect Enterprise Edition, it is paramount to have a fast network connection between the DB2 Connect EE gateway machine and DDF on the mainframe. You can use various LAN types for connecting the DB2 Connect EE machine to the mainframe, including mainframe-attached ESCON, FDDI, or OSA-2 adapters using fast ethernet connections. This is also true when using DB2 Connect PE to connect directly to DDF on the mainframe using native TCP/IP. The LAN for your workstations should have a connection to the mainframe that is optimal for performance and uses the fastest available bridges/routers. This section briefly explains these different configuration options, which are illustrated below.



Connecting through a gateway machine using DB2 Connection Enterprise Edition and connecting directly using DB2 Connect Personal Edition

Describing DB2 Connect

When using an IBM DB2 Connect Enterprise Edition (EE) gateway together with the IBM DB2 Client Application Enabler (CAE) client component, the supported network protocol for communication between an end user workstation and the DB2 Connect EE gateway is TCP/IP. The supported network protocol for communication between the DB2 Connect EE gateway and the mainframe is TCP/IP. DB2 Connect supports TCP/IP protocols for connections with all Distributed Relational Database Architecture (DRDA) servers.

When using DB2 Connect Personal Edition (PE), the supported network protocol for direct communication to the mainframe is TCP/IP.

The host connectivity component used with DB2 Connect is DB2's Distributed Data Facility (DDF). PeopleSoft supports the DB2 Connect Enterprise Edition on all IBM supported operating systems.

The following sections provide a brief overview of the DB2 Connect architecture. For more detailed information, please refer to the following DB2 Connect product documentation: DB2 Connect Enterprise Edition Quick Beginnings, and DB2 Connect Personal Edition Quick Beginnings.

Using Gateway Connection with DB2 Connect Enterprise Edition

PeopleSoft customer experience indicates that a single gateway can support between 100 and 200 concurrent users before degradation in response time occurs. This practical limit is principally due to the processor limitations of the gateway machine. You can alleviate this per gateway limitation by implementing additional gateways. The IBM DB2 Connect Enterprise Edition gateway scales to approximately 200 users.

Note. If your configuration includes a gateway, we recommend that the gateway be connected directly to the mainframe communications controller to optimize the performance of gateway-to-mainframe communications.

Using Native TCP/IP Connection DB2 Connect Personal Edition

As mentioned, DB2 Connect Personal Edition provides the option for a direct native TCP/IP connection between Windows-based clients (the PeopleTools development environment) and DB2 UDB for z/OS, as shown in the Application Server diagram above.

Defining Supported Gateway Configurations

Your communications gateways can be configured like normal workstations with the exception of the following additional requirements:

- Sufficient disk space for the operating system and connectivity software (approximately 50 MB).
- Ample memory, with a minimum of 64 MB.
- Fast network card/connection to mainframe. It is highly recommended that you use fast connectivity options—such as Open Systems Adapter 2 card (OSA-2) with 100 MB Ethernet or Fiber Distributed Data Interface (FDDI), or Enterprise System Connection (ESCON) channel-attached.
- Optional uninterruptible power-supply (UPS) with sufficient capacity to permit orderly shutdown of gateway and operating system in event of power failure.

See Also

“The PeopleSoft Pure Internet Architecture”

“The PeopleTools Development Environment”

Defining DB2 UDB for Linux, UNIX, and Windows Support

This section discusses:

- Understanding DB2 UDB for Linux, UNIX, and Windows
- Defining Supplemental Workstation Requirements for DB2 UDB for Linux, UNIX, and Windows
- Defining Supplemental Requirements for DB2 UDB for Linux, UNIX, and Windows

Understanding DB2 UDB for Linux, UNIX, and Windows

This section specifies PeopleSoft-supported server platform configurations for DB2 UDB for Linux, UNIX, and Windows. For universal database server requirements, refer to the database server section of this chapter. Any additional hardware or software required for DB2 UDB for Linux, UNIX, and Windows servers is listed below.

Defining Supplemental Workstation Requirements for DB2 UDB for Linux, UNIX, and Windows

The following are supplemental workstation requirements for DB2 UDB for Linux, UNIX, and Windows:

- DB2 UDB for Linux, UNIX, and Windows (see Supported Platforms on PeopleSoft Customer Connection for precise version numbers)
- DB2 Connect

See Also

"The PeopleSoft Pure Internet Architecture"

"The PeopleTools Development Environment"

PeopleSoft Customer Connection (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise)

Defining Supplemental Requirements for DB2 UDB for Linux, UNIX, and Windows

Check the PeopleSoft Customer Connection site for required patches. Consult the following document, which also lists the patches required for other components.

See "Required Operating System, RDBMS & Additional Component Patches Required for Installation," PeopleSoft Customer Connection (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise).

Defining Informix Support

This section discusses:

- Understanding Informix
- Defining Informix Software Requirements
- Defining Supplemental Workstation Requirements for Informix

Understanding Informix

This section specifies PeopleSoft supported server platform configurations for Informix. For universal database server requirements, refer to the database server section of this chapter. Any additional hardware or software required for Informix servers is listed below.

PeopleSoft supports databases created in MODE ANSI and non-ANSI databases that have transaction logging enabled.

Defining Informix Software Requirements

The following are minimum software requirements for Informix:

- Informix 9.40 (minimum).

  See PeopleSoft Customer Connection, Supported Platforms (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise).

- Informix Connect 2.81 (minimum). PeopleSoft does not require the Informix Client SDK product unless you are installing the DB-Access for Windows product.

Defining Supplemental Workstation Requirements for Informix

If you want to run a Windows-based client, Informix Connect must be installed network protocol such as TCP/IP. See the earlier section on database connectivity for more information on client connectivity.

See Also

"The PeopleSoft Pure Internet Architecture"

"The PeopleTools Development Environment"

PeopleSoft Customer Connection, Supported Platforms (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise)

Defining Sybase Support

This section discusses:

- Understanding Sybase
- Defining Sybase Software Requirements

Understanding Sybase

This section specifies PeopleSoft-supported server platform configurations for Sybase. For universal database server requirements, refer to the database server section of this chapter. Any additional hardware or software required for Sybase servers is listed below.

For Sybase, PeopleSoft only supports binary sort order. These settings are per server, and you set them at installation.

Defining Sybase Software Requirements

The minimum ASE release required is Sybase ASE 12.5.3.

PeopleSoft only supports a binary sort order for its applications running on ASE. The supported character set for PeopleSoft databases is iso_1.

Note. HP defaults to *roman8,* which PeopleSoft changes to iso_1 during certification testing.

For PeopleTools 8.44 and above, PeopleSoft supports a minimum of 4 K page sizes. You need to know which page size you will use when installing your server software. This may not be the default when installing the database server software, so make sure you chose the correct option when installing the software.

Defining Support for BusinessObjects Enterprise XI

This section discusses:

- Understanding BusinessObjects Enterprise XI

- Defining System Requirements for Crystal Reports XI
- Defining Certified Releases of BusinessObjects Enterprise XI Release 2
- Defining System Requirements for BusinessObjects Enterprise XI Release 2
- Defining Supported Platforms for BusinessObjects Enterprise XI Release 2
- Defining Hardware Requirements for BusinessObjects Enterprise XI

Understanding BusinessObjects Enterprise XI

BusinessObjects Enterprise XI Release 2 is delivered with PeopleTools 8.49. Depending on your specific situation your PeopleSoft installation may or may not use this product.

PeopleTools 8.49 supports an optional integration with BusinessObjects Enterprise XI Release 2 under certain circumstances.

PeopleSoft applications are delivered to work with the Crystal Reports 9 runtime environment. If you are using PeopleTools 8.49 and are using PeopleSoft applications at Releases 9 or higher, you can optionally use the BusinessObjects Enterprise XI Release 2 runtime environment to run and view your reports. BusinessObjects Enterprise XI Release 2 has been integrated with PeopleSoft's Report Manager and Process Scheduler. You can schedule, monitor, and purge BusinessObjects XI Enterprise reports from Process Scheduler and you can interface with the BusinessObjects Enterprise XI report repository through Report Manager.

Defining System Requirements for Crystal Reports XI

Crystal Reports is a Windows client report designer that helps you rapidly create flexible, feature-rich reports that can be deployed on BusinessObjects Enterprise XI.

- Operating system — Microsoft Windows 2003 Server, XP, or later
- Processor — Pentium II or higher (Pentium III-class recommended)
- Memory — 128 MB of RAM (256 MB recommended)
- Hard disk — 350 MB of free hard disk space (600 MB recommended)

Defining Certified Releases of BusinessObjects Enterprise XI Release 2

PeopleTools 8.49 General Release is certified to work with the following version of BusinessObjects Enterprise:

BusinessObjects Enterprise XI Release 2

Please consult PeopleSoft Customer Connection for current information on certifications or planned certifications of other releases of BusinessObjects Enterprise XI).

See PeopleSoft Customer Connection, (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise).

Defining System Requirements for BusinessObjects Enterprise XI Release 2

Generally, the following components must be installed and configured correctly before you install BusinessObjects Enterprise XI Release 2:

- Database software that is compatible with the BusinessObjects Enterprise XI Central Management Server (CMS)
- Web server software
- Web application server software (J2EE for Java environments).

  The setup program provides options for automatically installing .NET and Java software.
- Web browsers (on web desktop clients' machines)

Defining Supported Platforms for BusinessObjects Enterprise XI Release 2

PeopleSoft certifies a sub-set of all platforms that BusinessObjects Enterprise XI Release 2 runs on. This sub-set generally corresponds to those platforms on which PeopleTools is supported.

In certain cases there are platforms on which PeopleTools runs that are not supported by Business Objects. In that case, of course, that platform is not supported.

There may be slight differences at the point release level between a certified platform for PeopleTools and a certified platform for BusinessObjects Enterprise XI. While we make an effort to keep these certifications consistent between the two products, you must follow the certifications specific to each product.

Note. For more details on supported platforms for BusinessObjects Enterprise XI Release 2 please go to the BusinessObjects web site:

See http://support.businessobjects.com/documentation/supported_platforms/xi_release2/default.asp

- *Operating Systems*
  - AIX 5.3
  - Solaris 9
  - Solaris 10
  - SUSE Enterprise Linux 9.x for x86
  - RedHat Enterprise Linux 4.0 for x86
  - Windows Server 2003
  - HP-UX 11.11 for PA-RISC
  - HP-UX 11.23 for PA-RISC
- *Database Platforms*
  - IBM DB2 UDB 8.1 and 8.2
  - MS SQL Server 2000 sp4
  - Oracle 9.2
  - Oracle 10.1
  - Oracle 10.2
  - Sybase 12.5
- *Web Servers*

- Oracle Application Server 10.1.2
- BEA WebLogic 9.2
- IBM WebSphere 6.1

- *Browsers*
  - Internet Explorer 6.0 sp1
  - Internet Explorer 6.0 sp2
  - Firefox 1.0.4
  - Safari 1.3

Defining Hardware Requirements for BusinessObjects Enterprise XI

The following specifications are *minimum* hardware requirements for running BusinessObjects Enterprise XI. These specifications are appropriate for a development environment and not a production environment. The sizing of your test and production environment will be based on your enterprise's expected volume and usage characteristics.

- AIX
  - 1 CPU, Power 4
  - 1 GB RAM
  - 4 GB hard drive
- Windows OS
  - P3 700 MHz
  - 512 MB RAM, 1 GB recommended
  - 3 GB available hard drive space
- Solaris
  - SPARC v8plus
  - 512 MB RAM
  - 4 GB hard drive space
- Linux
  - P3 700 MHz
  - 1 GB RAM

    4 GB hard drive space
- HP
  - 1 GB RAM

    4 GB hard drive space
  -

Describing LDAP Server

This section discusses:

- Understanding LDAP Server
- Defining LDAP Server Software Requirements
- Defining LDAP Server Hardware Requirements

Understanding LDAP Server

PeopleSoft 8 provides the option of using an LDAP server for authentication and authorization. An LDAP server is a directory server that is compliant with the LDAP version 3 protocol. Directory servers hold a hierarchical datastore, which can house data common to many applications across the enterprise. PeopleSoft currently supports four directory server products: Oracle Internet Directory 10.1.2, Novell NDS eDirectory, Sun Java System Directory Server, and Microsoft Active Directory.

Note. For more detailed information about hardware sizing information for Sun Java System Directory Server, please refer to Sun's web site.

Defining LDAP Server Software Requirements

The following are LDAP Server software requirements:

- Oracle Internet Directory 10.1.2
- Novell NDS eDirectory using any Novell supported operating system
- Sun Java System Directory Server and higher using any Sun Java System supported operating system
- Microsoft Active Directory on Windows Server 2003

See Also

PeopleSoft Customer Connection (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise)

Defining LDAP Server Hardware Requirements

It is difficult to determine hardware requirements because each implementation is different. Server sizing depends upon variables such as the number of entries in the directory and the directory schema. Also, all directory vendors have their own sets of requirements and recommendations. Please see the documentation provided by the vendor of your Directory Server for specific information.

The following are Novell's recommendations for NDS eDirectory:

Intel based implementations (NetWare, Windows 2000):

Objects	Processor	Memory	Hard Disk
100K	Pentium III 450 or above MHz (Single)	384 MB	144 MB

Objects	Processor	Memory	Hard Disk
1 Million	Pentium III 450 or above MHz (Dual)	2 GB	1.5 GB
10 Million	Pentium III 450 or above MHz (2 to 4)	2 GB +	5 GB

Sparc-based implementations (Solaris):

Objects	Processor	Memory	Hard Disk
100K	Sun Enterprise 4500	384 MB	144 MB
1 Million	Sun Enterprise 5500	2 GB	1.5 GB
10 Million	Sun Enterprise 6500 with multiple processors	2 GB +	5 GB

Using Performance Monitor

This section discusses:

- Understanding Performance Monitor
- Defining Sizing Requirements for Performance Monitor

Understanding Performance Monitor

PeopleSoft Performance Monitor is an optional application that delivers an integrated infrastructure to support the monitoring of performance throughout your PeopleSoft systems. PeopleSoft Performance Monitor collects and stores performance data on *events,* and *Performance Measurement Units* (PMUs). Event data reports system resources, such as CPU and memory usage. PMU data reports key metrics on user transactions, such as duration of a transaction and response size.

Note. PeopleSoft does not support the self-monitoring implementation for production systems. For a production system, you must set up the PeopleSoft Performance Monitor in a separate database.

See Also

Enterprise PeopleTools 8.49 PeopleBook: PeopleSoft Performance Monitor

Defining Sizing Requirements for Performance Monitor

Performance Monitor database sizing estimates are based on the sum of space requirements for events and performance measurement units (PMUs) performance data. Use the information in the Performance Monitor PeopleBook to estimate the space required for your PeopleSoft Performance Monitor database server based on your system setup and predicted usage.

For example, suppose a company uses Performance Monitor to monitor two PeopleSoft Enterprise Applications, Financial and HCM. Both applications use DB2 UDB for z/OS Unicode databases. It is decided the performance history data will be kept for a 7-day period. Each system has two web server domains, two application server domains, and two process scheduler domains. The implementation team decides to use medium application server configuration for both domains. There is one master scheduler for each of the system.

It is estimated that, on average, 10,000 user sessions will be logged per day in each of the systems. During each session, 50 user interactions (clicking buttons, tab to next field or page, etc.) will occur. The Performance Monitor database server in this scenario will require 1,024 MB for event data and 232,032 MB for PMU data, a total of 233,056 MB.

See Also

Enterprise PeopleTools 8.49 PeopleBook: Performance Monitor, "Administering the Performance Monitor"

Defining Support for Enterprise Resource Planning Connectors

You can run iWay SOAPswitch on the following operating systems:

- Solaris 9 and 10
- AIX 5.3
- Windows Server 2003
- HP-UX 11.11 and 11.23 PA RISC
- HP-UX 11.23 Itanium 64-bit
- Red Hat Enterprise Linux (RHEL) 4.0
- SUSE Linux 9

See Supported Platforms, PeopleSoft Customer Connection, (Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise).

APPENDIX A

PeopleSoft Business Analysis Modeler Hardware and Software Requirements

This appendix discusses:

- Understanding BAM Requirements
- Defining BAM Database Server Requirements
- Defining BAM Server Requirements
- Defining Requirements for the BAM Windows Client (Model Designer)
- Defining BAM Web Client Requirements
- Defining BAM Spreadsheet Add-In Requirements

Understanding BAM Requirements

This appendix describes general hardware and software requirements for the PeopleSoft Business Analysis Modeler (BAM) components. Refer to Supported Platforms on Customer Connection for up to date and specific information about certified release levels (including details on certified service packs and fixpacks).

To access the BAM platform communication for your release log onto PeopleSoft Customer Connection and choose Implement, Optimize + Upgrade. Then choose Implementation Guide, Supported Platforms, Platform Communications. Choose the hyperlink "Link" at the bottom of the page to go to all archived Platform Communications. Expand the General Category. Here you will find a platform communication for your BAM release.

Defining BAM Database Server Requirements

Supported Database Servers:

- Microsoft SQL Server 2000
- Oracle 8i, Oracle 9i, and Oracle 10g
- DB2/UDB for UNIX and Windows 7.2 and 8

Defining BAM Server Requirements

The BAM server can take advantage of multi-processors.

- The server should have 4 GB RAM. Requirements for use with specific applications will vary; this is a baseline.
- Disk space requirements vary by the nature of the application (model) and the customer-specific volumes populating the model. As a baseline, the server should have at least 10 GB.
- Windows Server.
- Microsoft Internet Information Server (IIS), including the Internet Service Manager component.

  Note. Use of the IIS Lockdown Utility is not supported.

- Database client software enabling connectivity to the BAM Database Server, depending on your implementation, either:
  - Microsoft SQL Server 2000, running on Windows 2000.
  - Oracle 8i, Oracle 9i, or Oracle 10g client connectivity package. The Oracle ODBC Driver is required.
  - IBM DB2 Connect 8 *(BAM 8.2 and higher only)*.
- Restricted location. In a production system the Web server will access production data. As such, you might want to restrict physical access to the server depending on the sensitivity of your data.

Defining Requirements for the BAM Windows Client (Model Designer)

The requirements for the Windows client include:

- Workstation should have at least 256 MB RAM.
- Windows OS
- Workstation should also have database client software enabling connectivity to the BAM Database Server. Depending on your implementation, either:
  - Microsoft SQL Server 7 or SQL Server 2000 client, running on Windows NT4/2000.
  - Oracle 8i or Oracle 9i client connectivity package. The Oracle ODBC Driver is required.
  - IBM DB2 Connect 7.1 and 8.1*(BAM 8.2 and higher only)*.

Defining BAM Web Client Requirements

BAM requires the use of Internet Explorer for web access. Refer to the BAM 8.8 platform communication on PeopleSoft Customer Connection for details on certified versions of Internet Explorer.

Defining BAM Spreadsheet Add-In Requirements

Spreadsheet Add-In works with Microsoft Excel versions starting with Excel 2000. Refer to the BAM 8.8 platform communication on PeopleSoft Customer Connection for details on certifications for Excel and Windows combinations.

APPENDIX B

End User Mobile Hardware and Software Requirements

This appendix discusses:

- Understanding PeopleTools Mobile Agent
- Defining Hardware Requirements for PC-Based Mobile Users
- Defining Software Requirements for PC-Based Mobile Users
- Defining Hardware Requirements for Pocket PC PDAs
- Defining Software Requirements for Pocket PC PDAs

Understanding PeopleTools Mobile Agent

The PeopleTools Mobile Agent dynamically generates HTML from data stored in a local database. Think of PeopleTools Mobile Agent as a mini web server that runs on your system and lets you access your mobile applications using a web browser even when you are not connected to your corporate LAN or internet. Mobile applications are built and customized using PeopleTools and therefore are upgradeable and fully global, supporting multi-lingual and multi-currency operations.

Note. This chapter provides the current information at the time of its release. For the most current support information, check PeopleSoft Customer Connection. (Go to PeopleSoft Customer Connection, select Implement, Optimize + Upgrade, Implementation Guide, Supported Platforms, PeopleSoft Enterprise.) PeopleSoft Customer Connection is password protected. Contact your PeopleSoft Account Executive to obtain a password.

Defining Hardware Requirements for PC-Based Mobile Users

Mobile workstation hardware requirements are as follows:

- 256 MB RAM (minimum)
- Pentium II, 400 MHz (minimum) or comparable chip
- Minimum 25 MB of free disk space, depending on the application
- Modem or network interface card
- Mouse or other pointing device

As in the PeopleSoft Pure Internet Architecture, PeopleTools Mobile Agent uses a web browser to render the HTML generated dynamically on the user's local machine. The CPU speed and amount of memory on the system influence how fast mobile pages are rendered. Depending on the mobile application, HTML pages can get quite complex.

PeopleTools Mobile Agent stores a small executable and images used to render HTML on the mobile user's machine. This requires approximately 4 MB of disk space. In addition, PeopleTools Mobile Agent stores application data in a local database running on the end user's machine. Depending on the application and amount of data the end user wishes to have access to while they are not connected to a network, additional disk space is required to store data locally. The amount of data stored on the end user's machine is usually a very small subset of the data stored on the corporate database. Therefore, disk space requirements on the mobile user's machine should be minimal.

Although PeopleTools Mobile Agent does not require a network connection during normal use, a network connection is required to initialize the local database and to synchronize data between the user's local database and the corporate database server. PeopleTools Mobile Agent uses HTTP 1.1, the same protocol used to browse the web. HTTP 1.1 requires that a TCP/IP connection be established between the client machine and the Internet or corporate intranet. Therefore, the end user's PC must have suitable hardware to establish a network connection using TCP/IP. This can either be a dial-up modem or an Ethernet network interface card. The higher the modem speed the better.

Defining Software Requirements for PC-Based Mobile Users

PeopleTools Mobile Agent software requirements:

Operating system platform:

Windows XP with Service Pack 2

Web Browser:

Microsoft Internet Explorer 6.x

Network Connectivity:

TCP/IP (only required during initialization and synchronization)

Defining Hardware Requirements for Pocket PC PDAs

The following Pocket PC models have been certified to work with PeopleTools Mobile Agent on PeopleTools 8.4:

Any device that has Pocket PC 2003 (First Edition and Second Edition) with a minimum of 64 MB of RAM.

One of the following for network connectivity:

- USB cradle
- Serial cable
- Ethernet adapter (wired or wireless)
    - Bluetooth™ wireless

- Modem

Defining Software Requirements for Pocket PC PDAs

The Pocket PC models supported by PeopleTools Mobile Agent (see above) come pre-configured with Microsoft Pocket PC 2003. This is the only Pocket PC operating system currently supported by PeopleTools Mobile Agent.

Pocket PC 2003 also comes standard with Pocket Internet Explorer. Just like PC-based users, PeopleTools Mobile Agent uses a browser to interact with mobile applications on Pocket PC PDAs.

In addition, Microsoft ActiveSync v3.8 must be installed on the host PC connecting to the Pocket PC device. Pocket PC devices use ActiveSync to establish network connectivity through the host PC's network connection with ActiveSync's "pass through" feature. This allows the PeopleTools Mobile Agent running on a Pocket PC to exchange data with PeopleSoft applications running on the corporate server using HTTP protocol. Microsoft ActiveSync software usually comes packaged with the Pocket PC hardware. It can also be downloaded from Microsoft's web site.

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