



A Pure Internet Architecture for EAS Applications Using z900

*A Business Value and
Technical Overview*



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Powerful Combination

The IBM® @server zSeries 900 and the new 100% pure Internet architecture for PeopleSoft applications together have created a powerful solution for the world's largest and most demanding customers. Without PeopleSoft code required on the client, customers can now use an inexpensive thin client, Internet browser to gain access to all applications from PeopleSoft's web-enabled solutions. PeopleSoft's e-Human Resources, e-Financials and e-CRM solutions, can support the ever-increasing IT requirements characterized by the Internet world, all executed on the revolutionary IBM @server.

In the fall of 2000, PeopleSoft 8 delivered a totally new architecture with over fifty innovative applications. This completed PeopleSoft's transformation from that of pioneer in the client server application arena to leader in the Internet applications market. At the same time, IBM announced the zSeries 900, which raised the bar on enabling the largest customers worldwide to cost effectively run Web-based applications while flawlessly managing:

- Unpredictable workload spikes
- Demanding security requirements
- Significantly higher network traffic
- Substantially more access to databases

The zSeries with z/OS follows in the footsteps of the trusted S/390® and OS/390® based systems which customers have relied upon for the last four decades. The strengths of the zSeries 900 and S/390 platforms will match the dynamic needs of the most demanding customers that are implementing PeopleSoft 8 solutions.

Customers requiring the ultimate in scalability and availability can run PeopleSoft solutions on both z/OS and OS/390 in a Parallel Sysplex® environment with DB2® datasharing.

Note: In 1999, PeopleSoft completed the purchase of the Vantive Corp, a leading supplier of CRM applications. This paper discusses the new PeopleSoft Internet architecture for the EAS and Business Intelligence (Analytic Applications) applications supported by PeopleTools. It does not address the new PeopleSoft CRM Internet solution (formerly Vantive) architecture in any detail because the supporting infrastructure components are different than the current PeopleSoft EAS solutions. However, the essential characteristics of the Internet-based solution running on z900 servers are basically the same as those of the CRM suite. The strengths of the z900 servers will ensure that the customer benefits are valid for all combination of PeopleSoft applications.



Highlights

Customers who choose PeopleSoft applications to support their businesses will now be able to use a thin client, open architecture-based, server-centric solution to deliver simple access to PeopleSoft applications from anywhere with a browser, thus enabling open flow of information between systems.

PeopleSoft Delivers

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Other advantages of PeopleSoft 8 applications include:

- Low cost of deployment
- Easier upgrades
- Architecture flexibility
- Unicode enablement for global solutions with multiple languages
- 31 decimal precision support

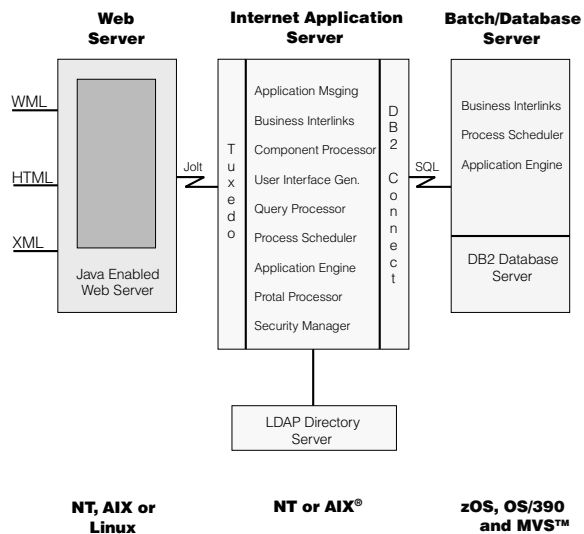
Powerful e-business solutions from PeopleSoft use the following Internet technologies for integration with other applications:

- Application Messaging
 - XML messages are delivered over HTTP connections for asynchronous integration into and out of PeopleSoft applications
- Components Interfaces
 - Object oriented component architecture for third party applications to invoke PeopleSoft business logic synchronously
- Business Interlinks
 - Plug-in framework to invoke third party applications through an API over the Internet
- Application Engine
 - High volume application processor for large scale batch



PeopleSoft 8 Internet Solutions using PeopleTools 8.12 can be implemented on z900 servers as shown below.

The newly rewritten Application Engine on the z900 and S/390 servers executes far more sophisticated batch processing than prior Application Engine code and keeps batch processing on the zSeries platform for most customers.



There are certainly other potential combinations, but this one is typical. Note that Business Interlinks, Process Scheduler and Application Engine functions can execute both on the Application Server and Batch/Database Server platforms.

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Leading Server for Large PeopleSoft Customers—z900

IBM @server introduced the zSeries in October 2000. The z900 provides exceptional value to all customers and particularly to PeopleSoft 8 customers. Several of these key benefits include:

- Automatic, nondisruptive growth: Server Intelligent Resource Director automatically adjusts the system capacity to handle spikes in e-business workloads



DB2 V6 contains a significant set of enhancements that will improve the PeopleSoft Database server performance.

- Self-managing optimization: Maximum utilization of hardware (CPU, Memory, I/O)
- Fast, secure Internet transactions: 2,000 Secure Sockets Layer (SSL) transactions per second
- Processing capacity: New 64-bit z/Architecture with 16 processors handles 50% more
- Greater bandwidth: Internal bandwidth of 24 gigabytes per second (GB)
- Workload License Charges: Allows customers to pay only for the software needed
- Support for open standards: Full support for Java® and LINUX® solutions

zSeries 900—Designed for e-business

Database serving is provided by:

DB2 Universal Database™ for z/OS (OS/390)

DB2 V6 contains a significant set of enhancements that will improve the PeopleSoft Database server performance. Some noteworthy values (created by both PeopleSoft and IBM) include:

- Fewer ODBC calls by the PeopleSoft application
- Use of the deferred prep capability to reduce network traffic by 40%
- Extensive use of statement cache
- DB2 enhancements to query performance

The shift in underlying technology to provide a foundation for e-business integration, transformation, and growth

Leveraging the IBM @server with PeopleSoft

The shift in underlying technology to provide a foundation for e-business integration, transformation, and growth includes:

- Non disruptive growth with assured availability
- Balanced system
- End-to-end system integration
- Security leadership
- Self-managed and optimized
- Cross-system connectivity
- Openness for flexibility
- Workload-based pricing and asset protection solution



The zSeries is first in the new generation of the IBM @server brand for customers demanding near zero downtime. IBM also introduced the pSeries (RISC) and xSeries (Intel) product lines with outstanding price/performance that are capable of performing application and web serving functions in the leading edge PeopleSoft architecture. This comprehensive PeopleSoft and IBM solution will satisfy the mission critical needs of customers requiring a high performance, flexible and trusted solution.

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Prerequisites

- OS/390 R8 or later OR z/OS R1 (Product Number 5647-A01)
- DB2 Universal Database for OS/390 V6 (Product Number 5645-DB2)
Current service level. For more details, please refer to Informational APAR II12343.
- DB2 Connect™ V6 (Product Number 5801-AAR) OR V7 Prod Number 5648-D38)
V6 with Fixpack 06 and APAR PQ36584
V7 with Fixpack 02
- IBM COBOL for OS/390 & VM V2R2 (Product Number 5648-A25)
With the following LE PTFs installed: UQ47026, UQ47307 and UQ49776.

For more information

For more information, contact your IBM representative or visit:

ibm.com/eserver/zseries/a10

ibm.com/software/data/db2/os390

ibm.com/software/data/db2/db2connect

To visit PeopleSoft:

peoplesoft.com/en/us/products/applications/index.html

peoplesoft.com/en/us/products/technology/ia/product_content.html

- To access the PeopleSoft Internet Architecture White Paper, register at: peoplesoft.com/whitepapers/internetarchitecture.pdf



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This equipment is subject to all applicable FCC rules and will comply with them upon delivery.

Information concerning non-IBM products was obtained from the suppliers of those products. Questions concerning those products should be directed to those suppliers.

All customer examples described are presented as illustrations of how those customers have used IBM products and the results they may have achieved. Actual environmental costs and performance characteristics may vary by customer.

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