

Internet-Enable HP e3000

With new products, development tools and middleware, Hewlett-Packard Company continues to extend its Internet and e-services capabilities on the HP e3000 even further. With its legendary high reliability and performance, the platform has long been recognized for its easy interoperability with UNIX, Windows NT and other major Internet and intranet platforms.

With distributed computing and accessing the Internet, security is a critical component of your computing solutions. As companies move business processes to the Web, making more and more information available to outsiders, you need to protect key information from unwanted intruders. Building trust in the electronic marketplace and addressing security and privacy are essential to the success of capitalizing on the Internet.

With MPE/iX Release 7.5, system security is built into the operating system, protecting you from unauthorized access and data tampering so that you can be assured that your data will remain confidential and protected as it moves through your internal networks between system users or across the vast reaches of the Internet. Improved security features of the Apache product (updated since 1.3.14) are now bundled into MPE/iX Release 7.5. These features include:

- SSLv 2.0, SSL v3.0, and TLS v 1.0 Protocols. These protocols lie between the HTTP and TCP/IP protocol layers and provide secure, authenticated, encrypted communications between the HP WebWise MPE/iX Secure Web Server and web browser clients.
- X.509 Digital Certificates. Signed by external trusted Certificate Authorities, X.509 certificates provide authentication for both the HP WebWise MPE/iX Secure Web Server and web browser clients.
- Flexible Encryption Cipher Configuration. HP WebWise MPE/iX Secure Web Server permits you to configure a wide variety of encryption ciphers, ranging from high-grade domestic-only algorithms suitable for export.

Many Internet software solutions on MPE/iX such as the, HP WebWise MPE/iX Secure Web Server Samba, LDAP, MPE/iX SDK for Java™ 2 Platform, and the new MPE/iX Release 7.5 operating system are available. The Secure HP WebWise web server replaced the Standard version of the Apache web server free of charge starting with MPE/iX release 7.0. WebWise is fully supported and bundled in the MPE/iX 7.5 release as part of the FOS. Additionally, the Secured version will be released on MPE version 6.5 in April of 2004, replacing the Standard version of the Apache web server.

See **Chapter 5** of this guide for configuration information regarding the MPE/iX operating system. In addition, specific documentation and configuration information for the HP WebWise MPE/iX Secure Web Server, Samba, and LDAP are available on the web at <http://www.docs.hp.com>. Java documentation and configuration information for MPE/iX and the SDK for Java 2 Platform version 1.2 is available on the web at <http://jazz.external.hp.com/src/java/documentation/index.html>. HP WebWise Secure Web Server setup and consulting are available from HP and HP's Internet Consultants. For more information about HP technical assistance visit the web site at <http://businessservers.hp.com/support/hpes.html>

Evolve Your Business into the Internet Age

With the recent explosion of the Internet and the World Wide Web, the HP e3000 has embraced technologies such as:

- Bundled WebWise web server updated to version A.03.00 and replaces Apache in FOS as a no-extra-cost bundled product.
- Sendmail for MPE/iX 7.5. Previously available as unsupported freeware, Sendmail is now bundled into MPE/iX 7.5 FOS as a fully supported product, which allows you to send and receive SMTP-based e-mail. The initial A.01.00 release of Sendmail for MPE/iX is based on the 8.12.1 Internet open source version from Sendmail.org.
- Open Database Connectivity (ODBC—provided via ODBClink/SE from M.B. Foster Associates) for a standard interface to access a variety of databases using SQL such as IMAGE/SQL and ALLBASE/SQL
- Java™ Database Connectivity (JDBC) allows Java applications to access data stored in databases
- Enhanced FTP/iX (File Transfer Protocol)
- DNS BIND/iX
- Berkeley (BSD) Sockets for program-to-program communication
- Telnet/iX Server (for inbound Telnet access) and Telnet/iX Client (for outbound Telnet access) for access between the HP e3000 and computers that support Telnet, such as UNIX-based and NT-based systems
- Open-source SAMBA for seamless interoperability with NT environments

A key way that HP is optimizing Internet, e-services and Java offerings on the HP e3000 is by working closely with leading partners to provide solutions to maximize your business and HP e3000 investments. These offerings span key industries such as e-commerce, healthcare and manufacturing, among others.

Different Scenarios

Evolving current and future business applications forward to the Internet and e-services is an important main focus. Four different scenarios possible for HP e3000 customers include:

- “Webifying” existing applications, for independent, single shops, describes how to leverage core HP e3000 applications to web-based computing. It specifies a development environment to deploy applications quickly with a common, easily maintained browser interface, with little or no effort.
- E-commerce applications, directed toward e-commerce vendors such as e-retailers and e-catalog vendors, focus on how to build and deploy applications quickly, as well as provide high performance and secure access to critical information and business logic residing on the HP e3000. These applications also must be able to handle a large number of simultaneous users and incorporate multiple systems and resources.
- Enterprise solutions refers to large customers who want mission-critical HP e3000 applications to fit into an evolving Internet and web-centric enterprise environment. The enterprise environment is composed of information systems with distributed databases, automated business processes and business practices — all tightly integrated with web-based applications. Such applications use emerging industry standards, protocols and middleware technologies in networking, security and distributed OLTP areas.

Where to Get More Information, Availability and to Purchase Online

For the most up-to-date HP e3000 Internet-related information, visit [http://www.hp.com/go/3000\(customer_accessible\)](http://www.hp.com/go/3000(customer_accessible)) or ESP (internal access at esp.cup.hp.com). Various guides, white papers, presentations, and datasheets (regarding the HP e3000 as the ideal platform for the internet and e-services, various web-enabling technologies running on the HP e3000, enhancing the HP e3000 user interface, using your HP e3000 as a Web or application Server, as well as integrating existing HP e3000 data and applications with the Internet and the World Wide Web) are available for electronic download or hard copy.