

## Internet, e-services and Java Solutions

### Web/Internet-Enable the HP e3000

The explosion of the Internet and the World Wide Web affords the HP e3000 the opportunity to evolve as a web and application server and a serious interoperability player by embracing new key web-enabling technologies such as the HP WebWise MPE/iX Secure Web Server (now bundled in MPE/iX Release 7.5), LDAP, ODBC, JDBC, Java Platform 2 on MPE/iX, SAMBA, message-oriented middleware, and SSL. HP e3000 users can access data and do business (i.e., e-commerce, e-services) reliably and securely over the Internet. These web-enabling technologies leverage existing investments on the HP e3000 platform and applications developed using MPE/iX and can be integrated easily and in a seamless manner into an existing IT infrastructure that also may include other operating systems such as UNIX and NT.

### HP WebWise MPE/iX Secure Web Server

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 and heterogeneous computing environments. MPE/iX Release 7.5 and now FOS bundled WebWise product suite of web-enabling technologies running on the A- and N-Class servers deliver just this kind of seamless interoperability with UNIX, NT and other major Internet and intranet platforms, now available at the core FOS level!

With MPE/iX Release 7.5 system security is built into the operating system, protecting you from unauthorized access and data tampering so 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. Now bundled into MPE/iX Release 7.5 are the improved security features of the Apache product, updated since 1.3.14. 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.

### Secure Sockets Layer Protocol

Secure Sockets Layer (SSL) is the most widely used protocol for transmitting data securely over the Internet and addresses the fundamental Internet communication requirements of authentication, confidentiality and message integrity.

### Lightweight Directory Access Protocol

Lightweight Directory Access Protocol (LDAP) is a protocol that runs over TCP/IP. LDAP has emerged as the de-facto Internet standard for directory access. LDAP C-SDK/iX enables Internet directory access from the HP 3000, cross-platform connectivity to any LDAP server, provides generic APIs for application portability and free client applications from considerations of directory organization and location.

## Java

MPE/iX SDK for Java™ 2 Platform version 1.2 on 6.5, and version 1.3 on 7.5 add new functionality and enhancements that enable faster, more secure, and more interoperable Internet and e-services environments. MPE/iX supports a 100% Java compatible environment to develop and effectively deploy Java applications.

## Open Database Connectivity

ODBC is an application-programming interface (API) defined by Microsoft (Windows NT) and provides for a standard interface to access a variety of databases using SQL such as IMAGE/SQL and ALLBASE/SQL. An application that uses the ODBC interface (Windows NT) can connect to any database over the network that has an ODBC driver, usually with no changes to the application. ODBC Link/SE from M.B. Foster Associates Ltd. is bundled with 6.5 and later and fully supported by HP.

## Samba

Samba is open-source software that provides file/printer sharing services using the SMB protocol (server message block), which is mainly used by Microsoft LanManager and compatible products. SAMBA is used for seamless interoperability with NT environments.

## Message-Oriented Middleware

Message-Oriented Middleware allows applications on different computing platforms and networks to exchange data reliably and securely. For example, message-oriented middleware lets mainframe, Unix or Windows NT applications communicate by sending data messages to message queues. Geneva Message Queuing (GMQ) from Level 8 provides for the linking of HP e3000 applications with Windows and Windows NT applications via Microsoft's Message Queuing Service (MSMQ). IBM's MQSeries (MQSeries client available from Willow Technology for the HP e3000) enables users to exchange information between applications across different platforms such as mainframes to PCs.

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. The white paper, "Web-Enabling your HP e3000 Applications and Data Access," explains how the HP e3000 platform works with web-enabling technologies and key partners to seamlessly integrate e-services solutions. The HP e3000 has all the tools, including the MPE/iX Software Developer's Kit for Java 2 Platform, needed to build web and Java applications. Please request the white paper, "Web-Enabling your HP e3000 Applications and Data Access," from your local HP representative, reseller or channel partner, or visit [www.hp.com/go/3000](http://www.hp.com/go/3000) to download the most current copy.

## Web Server Ordering

### Secure Apache Web Server for MPE/iX

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.

## BSAFE SSL-C Toolkit Ordering

BSAFE SSL-C Toolkit for MPE/iX can be ordered directly from RSA Australia for development, marketing and distribution purposes. It is also now available from HP at no charge for **development purposes** only and can be downloaded from [www.jazz.external.hp.com](http://www.jazz.external.hp.com). It is a software development suite for building SSL-enabled applications, combined with a full suite of RSA encryption. It provides a set of APIs in C to interface with the SSL library. For more information, call 61-7-330-39380; send e-mail to [info@aus.rsa.com](mailto:info@aus.rsa.com); or visit the website at <http://www.aus.rsa.com>.

## LDAP Ordering

LDAP C-SDK is bundled with and available for MPE/iX 6.5 and the new 7.5 release and fully supported by HP.

## SAMBA Ordering

SAMBA is bundled with and available for MPE/iX 6.5 and version 2.0.7 is available in the new 7.5 release and fully supported by HP.

## Java Ordering

The MPE/iX Software Developer's Kit (SDK) for the Java 2 Platform (the release formerly known as JDK 1.2) is available and bundled with MPE/iX 6.5 release and fully supported by HP. Version 1.3 and MPE/iX HotSpot Virtual Machine is available in MPE/iX Release 7.5.

## Java Database Connectivity (JDBC) Ordering

The HP JDBC is bundled with and available for MPE/iX 6.0 and later and fully supported by HP. Other JDBC drivers are available from HP e3000 partners such as the JDBC driver from MiniSoft at [www.minisoft.com](http://www.minisoft.com).

## Open Database Connectivity (ODBC)

ODBC Link/SE from M.B. Foster Associates Ltd. is bundled with and available for MPE/iX 6.5 and later and fully supported by HP. Other ODBC drivers are available from other HP e3000 partners such as ODBC/32 from MiniSoft at [www.minisoft.com](http://www.minisoft.com).

## Messaging Middleware Ordering

GMQ (Windows NT) is available directly from Level 8 System. For more information, visit their website at [www.level8.com](http://www.level8.com).

MQSeries is available directly from Willow Technology. For more information, visit their website at [www.willowtech.com](http://www.willowtech.com).

## For More Information

For more information about these various solutions and other partner offerings, please request the new Internet and e-services Solution Guide and/or the white paper, "Web-Enabling your HP e3000 Applications and Data Access," from your local HP representative, reseller or channel partner, or visit the website for the most current information at [www.hp.com/go/3000](http://www.hp.com/go/3000).

