WebSphere® software
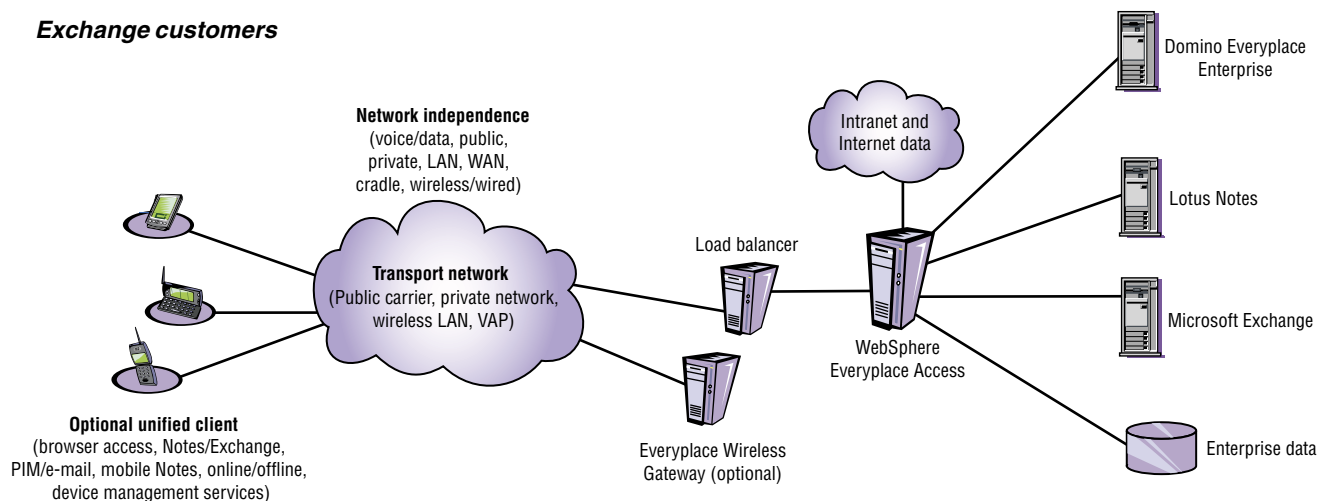
IBM WebSphere Everyplace Access, Version 4.2

Highlights

■ *Provides a mobile application platform to extend access to business-critical data and processes to mobile employees*

■ *Offers a robust application development environment featuring a comprehensive toolkit integrated with WebSphere Studio Site Developer, as well as application enablement features through open APIs, tools and samples*

■ *Provides easily deployable Personal Information Manager (PIM) and e-mail for Lotus Notes and Microsoft Exchange customers*

■ *Enables IBM Business Partners and IT application developers to extend new and existing value solutions to the mobile e-business world*

■ *Offers a scalable platform that can integrate with existing IT infrastructure, based on proven WebSphere Application Server and WebSphere Portal technology*

■ *Leverages open standards, such as SyncML, for synchronization of e-mail and PIM applications between the enterprise and mobile devices*

We are accustomed to efficiently working from an office with immediate access to information, people and applications. But today's fast-paced society requires more employees to work outside the office. To remain competitive, you need to make sure that your mobile workers have access to office services — like e-mail, calendars and information stored in the enterprise. The enterprise today must be able to communicate the right information to your mobile employees and customers at the right time.

Network independence
(voice/data, public, private, LAN, WAN, cradle, wireless/wired)

Transport network
(Public carrier, private network, wireless LAN, VAP)

Optional unified client
(browser access, Notes/Exchange, PIM/e-mail, mobile Notes, online/offline, device management services)

Load balancer

Everyplace Wireless Gateway (optional)

Intranet and Internet data

WebSphere Everyplace Access

Domino Everyplace Enterprise

Lotus Notes

Microsoft Exchange

Enterprise data

WebSphere Everyplace Access provides a scalable, mobile-enablement platform for enterprise applications by consolidating synchronization, notification, security and transcoding services that leverage open standards.

Wireless technologies help you reach employees away from their desktops, with pervasive computing devices that go where they go, increasing their productivity and providing better customer service. With pervasive computing solutions, employees who are constantly on the go can access the information they need as though they were sitting in front of their desktop computers. Convenience, quick access to information and ease of use make mobile devices key to maintaining enterprise productivity.

Bridging the gap to pervasive computing
Enterprises have a rich computing environment served by a variety of applications. Internally developed applications, trading partner packages and a mix of software products tuned to serve specific company needs—like e-mail and PIM applications. Any of these enterprise applications are candidates for mobile business. IBM WebSphere® Everyplace™ Access, Version 4.2 is a platform that can bridge the existing enterprise application environment with the mobile computing needs of enterprise employees and trading partners.

WebSphere Everyplace Access aggregates services and functions for the mobile user into a single deliverable on a common, open, wireless infrastructure. WebSphere Everyplace Access provides

a complete, focused, mobile-enablement platform for the enterprise and independent software vendor (ISV) developer. The offering is designed to allow enterprises to expand to a richer set of wireless application functions as business demands evolve.

WebSphere Everyplace Access provides a variety of services that enable an enterprise to mobilize quickly and easily. WebSphere Everyplace Access components include a rich set of server-based functions, a unified client for personal digital assistant (PDA) devices and the Everyplace Toolkit that can expedite the development and deployment of enterprise wireless solutions.

Improve personal productivity
To ensure a successful deployment experience, WebSphere Everyplace Access provides a personal productivity function that enables you to start using the product immediately. WebSphere Everyplace Access supports robust PIM and e-mail functions for Lotus® Notes® and Microsoft® Exchange users to native PDA clients utilizing SyncML-compliant services for intermittently connected and offline operations. In addition, WebSphere Everyplace Access provides productivity portlets, such as e-mail, calendar, address book, to do's and memos, that support Wireless Markup Language (WML)-enabled connected access to Notes and Exchange.

Mobilize business processes with WebSphere Everyplace Access
Beyond personal productivity applications, WebSphere Everyplace Access provides the components required to make your business processes mobile. WebSphere Everyplace Access is built on proven IBM technologies, including IBM WebSphere Application Server and IBM WebSphere Portal server. These technologies provide the foundation for a reliable and scalable mobile application platform and help provide a robust set of services, such as administration, directory and authentication.

The offering can integrate with an existing IT infrastructure by plugging into third-party authentication and directory services. Single sign-on support allows users to sign on once to enabled applications to access the enterprise applications and services. In addition, content adaptation services are included that can allow the applications to concentrate on the business logic and not the characteristics of the device.

As part of the portal infrastructure, WebSphere Everyplace Access provides the use of portlets and the portlet-programming model to extend e-business applications and content to browser-enabled mobile devices. Enabling the caching of Web content to mobile devices supports offline portal browsing.

Included in WebSphere Everyplace Access is the Everyplace Sync Server. A SyncML component provides access to PIM and e-mail data while the IBM DB2® Everyplace sync server provides access to ODBC-compliant data back ends, synchronizing critical business data to the pervasive device. For Lotus Domino™ users, Domino Everyplace Enterprise is also provided to bring mobile access to Domino databases and applications.

WebSphere Everyplace Access also includes Intelligent Notification Services (INS). INS delivers notifications to users via their mobile devices, utilizing multiple delivery channels, based on user preferences and subscriptions. Users subscribe to information such as news, weather, and stock, and notifications are sent via a delivery channel such as SMS, e-mail or instant messaging. Developers can also extend INS features to include additional delivery channels and subscriptions.

WebSphere Everyplace Access manages pervasive devices, including the ability to configure the device, distribute software to the device, and collect inventory information such as application, hardware and configuration information.

Ease development and deployment of applications with the unified client Included with WebSphere

WebSphere Everyplace Access provides a set of deployable services for PDAs that complement the server-side services. These client services include a SyncML client for full operational access to Lotus Notes and Microsoft Exchange PIM and e-mail. The DB2 Everyplace client is also provided and works with the Everyplace Sync Server to enable access to Open Database Connectivity (ODBC)-enabled databases. The Mobile Notes client is provided to allow access to Domino technology-based applications and databases. And there is also a device management client with WebSphere Everyplace Access to enable such device management services as software distribution, configuration and inventory. By providing this capability, devices normally will not have to be recalled when new server-side capabilities are added.

Tools and resources to streamline application development

WebSphere Everyplace Toolkit is a set of plug-ins to WebSphere Studio Site Developer that supports the development of mobile e-business applications powered by IBM middleware. The WebSphere Everyplace Toolkit provides select content creation, adaptation tools, portlet samples, an external annotation editor and portlet development tools for the WebSphere Everyplace Access environment. It also provides markup editors for WML and cHTML with

functions that are relevant to mobile e-business application development. The toolkit supports the IBM pervasive computing programming model, which promotes portals as mechanisms for aggregating information and accessing enterprise services. It can enable extension of existing applications for deployment on multiple devices. The toolkit includes function for the following:

- *Portal and portlet Integrated Development Environment (IDE) — provides capabilities to create, test, debug and deploy individual portlets and Web content. The portal framework can allow greater flexibility and customization in the use and deployment of wireless applications to your end users.*
- *Content creation and adaptation tools — include device markup editors to create content in various markup languages.*
- *Device emulation interface — can view, test and debug previously created content on emulators of most popular devices.*
- *Samples and examples of pervasive computing applications.*

WebSphere Everyplace Access, Version 4.2 at a glance

Server

The following are recommended hardware requirements:
- 1GHz or higher Intel® Pentium® III processor
- A minimum of 1GB of memory (1GB is recommended)
- 1GB or more hard-drive space for application installation (more may be needed as the application operates)
- 1GB or more hard-drive space for application data storage (storage space depends on the amount of data you have)

The following are recommended software requirements:
- Microsoft Windows® 2000 Server with Service Pack 2
- Microsoft Windows 2000 Advanced Server with Service Pack 2
- AIX V5.1

Client

Supported client devices include:
- Pocket PC 2000 (ARM devices)
- Pocket PC 2002 (Phone Edition and xScale processors)
- Palm OS 4.0 or 4.1
- Selected SyncML and WML devices

Requirements

- For Pocket PC devices, a minimum of 32MB device memory
- For Palm devices, a minimum of 8MB device memory
- Wireless or wired connectivity to the server

Build on a firm foundation

WebSphere Everyplace Access provides the functionality required to extend existing or new business applications to the wireless world. Independent Software Vendors, system integrators and in-house application developers are enabled to create, vertically integrated, high-value solutions. WebSphere Everyplace Access provides a consistent and rapid programming model to create and extend e-business applications.

The open, extensible framework of WebSphere Everyplace Access provides the building blocks to meet future wireless workforce requirements. With IBM development tools, technical services, installation base, experience, expertise and products, you can rapidly integrate and deploy pervasive computing solutions — helping to preserve and extend your enterprise application investment.

For more information

To learn more about IBM pervasive computing and WebSphere Everyplace Access, Version 4.2, visit **ibm.com**/pvc