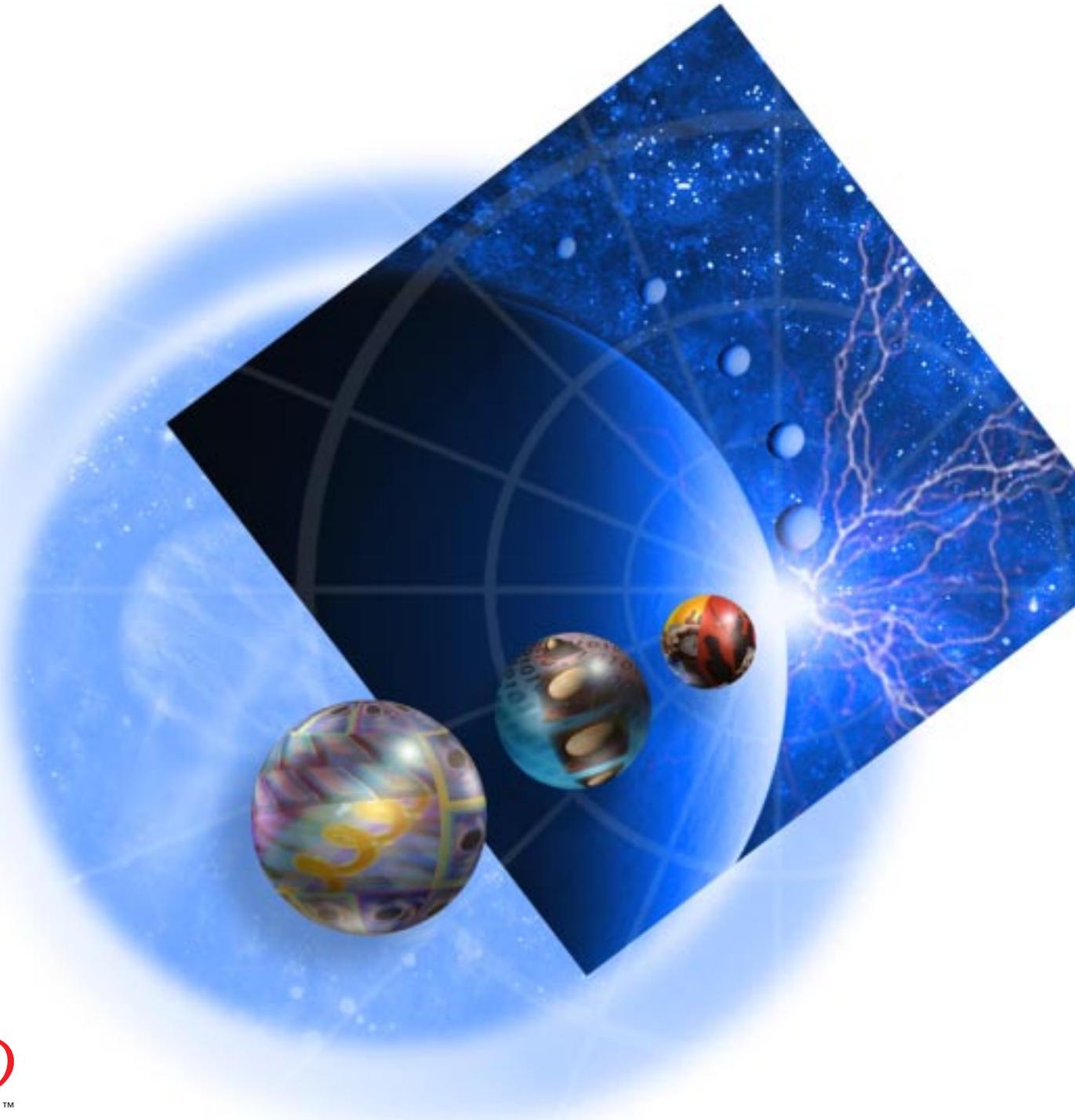


Start simple—grow your e-business fast.



e-business

Leverage legacy data with new e-business solutions

Merging your network with the Web

The Web and its associated technologies offer you virtually unlimited ways to extend the reach of your business information. As a result, providing access to information stored on IBM S/390®, IBM AS/400® and other back-end systems, such as UNIX®, Microsoft® Windows NT® and Microsoft Windows® 2000 system-based servers, is more important than ever. Your critical business information and applications most likely reside on host systems like these. The quantity and quality of your business information, combined with the reach of the Web, affords you a unique opportunity to transform that information into a powerful competitive advantage.

Merging Web technology with your existing information systems defines e-business. And building an e-business means finding a solution that provides a fast and cost-effective way to access, integrate and publish host information to Web-based clients.

With IBM WebSphere® Host Integration Solution, you can start simple and grow your e-business fast, leveraging your legacy data with new e-business solutions to maximize your total return on investment. You get everything you need to create and deploy advanced e-business applications that rely on host systems, in a single offering. Whether you

need to give your host applications a Web look and feel without programming, or integrate multiple legacy applications into a single Web page, IBM WebSphere Host Integration Solution software has the answer. Now with both IBM WebSphere Application Server, Advanced Edition and IBM WebSphere Studio, Professional Edition, you can create and deploy host access e-business applications. You can use any of the host integration programming technologies, such as Host Access Beans for Java, Active X controls, and Host Access Class Libraries to deliver dynamic host content using Java servlets, JavaServer Pages™ (JSP™), XML technology and Enterprise Java Beans™ (EJB) components.

IBM WebSphere Host Integration Solution offers industry-leading host access with unmatched flexibility for any environment. This product portfolio integrates with and leverages the IBM WebSphere software platform, a comprehensive set of award-winning integrated e-business solutions that allow you to quickly meet evolving market needs.

What is IBM WebSphere Host Integration Solution?

IBM WebSphere Host Integration Solution comprises industry-leading IBM software communication clients and servers that you can purchase according to the needs of your network:

- *IBM WebSphere Host On-Demand*
A Java™ technology-based, thin-client terminal emulator supporting 3270, 5250 and VT emulation and an extensive set of programming tools for custom e-business application development
- *IBM Screen Customizer*
A drag-and-drop customization tool that automatically converts host screens into GUIs without any programming
- *IBM WebSphere Host Publisher*
A Web-to-host product, designed to take critical business information to your customers on the Internet. It combines multiple applications and data sources into a single Web page for use by virtually any Web browser
- *IBM WebSphere Application Server*
An e-business application deployment environment built on open standards-based technology. It is the cornerstone of WebSphere software application offerings and services. IBM WebSphere Application Server, Standard Edition lets you use Java servlets, JavaServer Pages and XML to quickly transform static Web sites into vital sources of dynamic Web content. IBM WebSphere Application Server, Advanced Edition is a high-performance EJB server for implementing EJB components that incorporate business logic.

- **IBM WebSphere Studio**
A comprehensive set of tools that reduces the time and effort required to build dynamic and exciting Web Applications. With the industry's first visual layout tool for dynamic Web pages using JSP technology, full HTML, JavaScript and DHTML layout capability, IBM WebSphere Studio allows Web site producers and Web application developers who need dynamic Web site content and logic to quickly and easily develop and maintain e-business applications.

- **IBM Personal Communications**
A comprehensive communications client, including 3270, 5250 and VT emulation, as well as a variety of application programming interfaces (APIs)

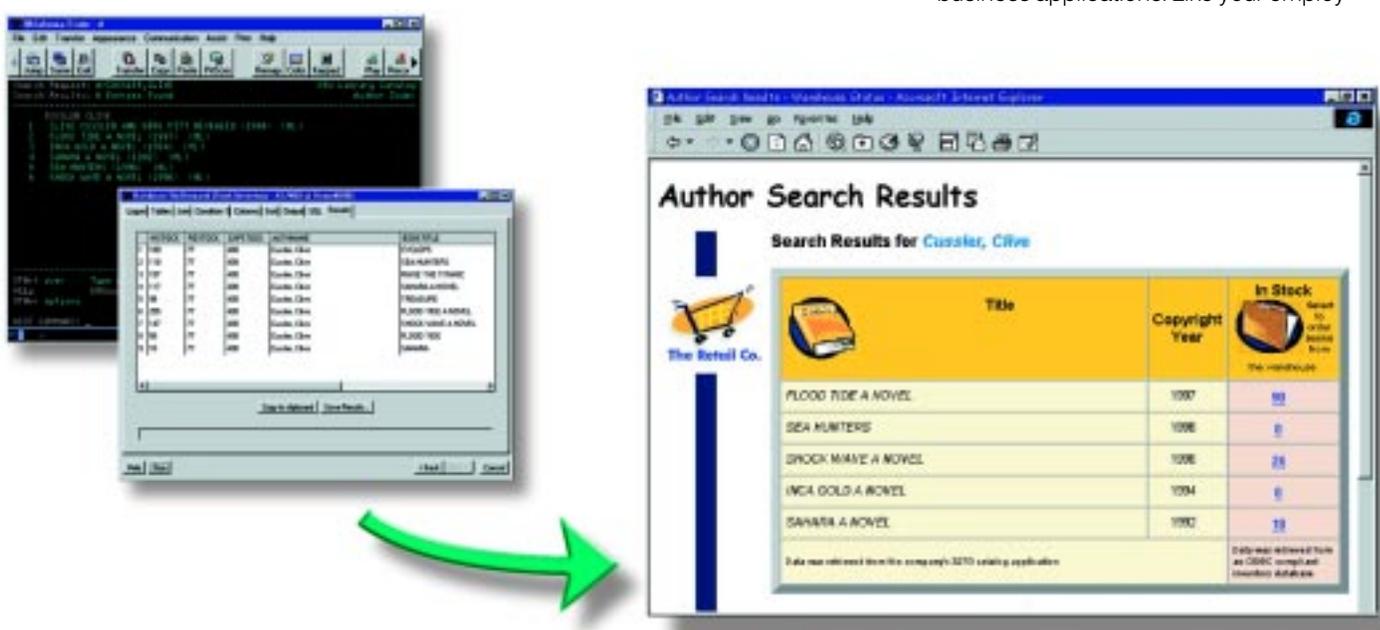
- **IBM Communications Server**
A multipurpose networking server featuring an advanced SNA gateway, a TN server (3270 and 5250) and IBM WebSphere Host Publisher as an option

- **IBM WebSphere Transcoding Publisher***
An easy-to-use, flexible solution for bridging existing data and applications to new environments that extends the reach of IBM WebSphere Host Publisher applications. IBM WebSphere Transcoding Publisher is server-side software that adapts, reformats and filters data so that it is optimally formatted for the destination environment, whether it be a business-to-business transaction, or an emerging pervasive computing device.

Individually, these products are powerful tools, but together they provide a comprehensive solution for deploying host-access, e-business applications across intranets, extranets and the Internet. And all at a modest cost. You can choose the combination of client, server and platform software you need—in a single offering to precisely meet the needs of your business.

Reduce administration costs
The same IBM WebSphere Host Integration Solution that extends the reach of SNA and TCP/IP networks within your enterprise can also enable your employees to access the information and applications they need from Web-based clients. For high-performance access to your business applications across an intranet, IBM WebSphere Host On-Demand lets you use a traditional emulation interface—installed on and distributed from a Web server—to help you save money in product deployment and maintenance. Your intranet needs may also include extending host data to new users who are unfamiliar with traditional *green screens*. With IBM Screen Customizer, you can give that application a Web look and feel without any programming!

Connecting to your business partners and suppliers
Easily connect your business partners, vendors and suppliers to your key business applications. Like your employ-



IBM WebSphere Host Integration Solution— Take host applications to the Web quickly

ees using your intranet, your business partners can generate the same high transaction rates. But unlike your employees, they may not be familiar with a mainframe interface. IBM Screen Customizer automatically converts host screens into a Web-like interface, which is easy to customize without programming, reducing the time and effort required to train new users on host applications.

Available for both IBM WebSphere Host On-Demand and IBM Personal Communications, IBM Screen Customizer is based on innovative screen recognition using drag-and-drop technology, requiring no change to host applications. Users can simultaneously access multiple host sessions, without causing degradation in host response time. After installing IBM Screen Customizer, users will see a friendly, Web-like interface instead of a green screen.

Reaching your customers

The Internet gives you an opportunity to extend the reach of your business to new customers around the world. But, you may have questions that make you reluctant to take advantage of the Internet's potential. For example:

- How do you quickly and easily build a customer-oriented application from multiple sources of data?
- How do you integrate host-based information into existing Web pages?

IBM WebSphere Host Publisher helps you answer these questions. You can reach new customers quickly. You can easily integrate multiple sources of data as part of a single Web page. With IBM WebSphere Host Publisher, you can provide your users with access to host applications and data, regardless of where it resides — 3270, 5250, VT, Java classes and JDBC technology-enabled databases. The resulting Web-based application requires no special training for your customers, and it can run on almost any desktop system with a Web browser. You'll have a new, user-friendly composite application that accesses information from a variety of sources without requiring modifications to your existing business applications.

And, as more and more companies are finding the need to deliver host applications and data to new breeds of handheld devices, IBM WebSphere Host Publisher and IBM WebSphere Transcoding Publisher can dynamically extend the reach of host data and applications beyond the Web to pervasive technologies, such as Smartphone devices and personal digital assistants. Transcoding Publisher is server-side software that adapts, reformats and filters data so that it is formatted for the destination environment, whether it can be a business-to-business transaction, or an emerging pervasive computing device.

Extending your SNA network

Extending the reach of your network to new environments does not mean abandoning your SNA network. To

support SNA connectivity, IBM Communications Server provides a powerful SNA gateway, featuring one of the most advanced SNA networking capability available today — Advanced Peer-to-Peer Networking® (APPN®) and High-Performance Routing (HPR). Client support is provided by IBM Personal Communications, including 3270 and 5250 emulation across an SNA environment.

Extending your TCP/IP network

IBM WebSphere Host Integration Solution is equally capable of extending the reach of your TCP/IP networks. In the TCP/IP environment, IBM Communications Server acts as a Telnet server for both 3270 and 5250 communication. On the client side, Personal Communications and IBM WebSphere Host On-Demand provide the same 3270 and 5250 emulation capabilities and also add VT emulation. The multiprotocol support of IBM Communications Server and IBM Personal Communications enables SNA applications to work with your TCP/IP network and your TCP/IP sockets applications to run over your SNA network with no modification.

Building a flexible solution

Because most enterprises have a variety of hardware, software and networking architectures, IBM WebSphere Host

Integration Solution is designed to accommodate complex networking environments. The client and server products in IBM WebSphere Host Integration Solution are capable of running in a variety of operating environments, like Microsoft Windows, IBM AIX®, IBM OS/2®, UnixWare 7, Sun Solaris™, IBM OS/390®, IBM OS/400® and Linux®. And with the promise of Java technology, IBM WebSphere Host On-Demand can run on nearly any client providing the appropriate JVM support.

IBM WebSphere Host Integration Solution supports multiple networking protocols. IBM Personal Communications and IBM Communications Server offer support for TCP/IP and SNA network environments. Both of these products also provide multiprotocol transport networking (MPTN), which allows applications to run in most network environments. For example, SNA applications can run over TCP/IP networks and sockets (TCP/IP) applications can run over SNA networks. You make decisions about buying applications based on value to your business without being limited by networking dependencies.

Protecting your e-business data

Security is fundamental when extending the reach of critical business information to users across public networks like the

Internet. To address this, IBM WebSphere Host Integration Solution supports Secure Sockets Layer (SSL) authentication and encryption, helping to ensure the secure transport of sensitive information across your network. IBM WebSphere Host Integration Solution works with existing host security systems, such as IBM RACF®.

With client and server authentication support, IBM WebSphere Host On-Demand can present a digital certificate (X.509, Version 3) to a Telnet server, such as IBM Communications Server for OS/390, for authentication. With the new Express Logon feature, 3270 users can logon to a host system without having to enter a user ID or password. IBM WebSphere Host On-Demand uses digital certificates sent to RACF through the IBM Communications Server in place of user IDs and passwords, reducing administration costs and decreasing security risks. IBM WebSphere Host On-Demand can also integrate the SSL client authentication with Tivoli® SecureWay® Trust Authority. This allows enterprises to benefit from industry-standard public key infrastructure (PKI) methods. Users request a certificate form that manages, maintains and ensures certificate validity.

You can combine IBM WebSphere Host Integration Solution with IBM Firewall to maintain the privacy of your business information as you extend your network across the Internet. Using IBM Firewall and IBM Communications Server, you can

build a virtual private network (VPN) to connect remote users and business partners. A VPN extends your enterprise's private intranet across a public network, such as the Internet, using a secure connection known as an encrypted tunnel. This helps you to prevent unauthorized access to your business data while taking advantage of low-cost virtual networks.

Empowering your application developers

To protect your IT investment and provide a powerful application development infrastructure, IBM WebSphere Host Integration Solution contains a comprehensive set of APIs, including Host Access Class Libraries (HACL). This object-oriented set of APIs is contained in all of the host integration products and provides access to 3270, 5250 and VT data streams. With HACL you can use mission-critical information in new ways, such as integrating data from one application with another or replicating information from one data source to another.

Host Access Beans for Java allow your customers and business partners to rapidly develop custom applications that contain the specific functions needed for your e-business processes. And because Host Access Beans for Java components are object-oriented, they can be reused—in an IBM VisualAge® for Java or IBM WebSphere software platform as your e-business needs evolve.

An Industry-leading solution

IBM WebSphere Host Integration Solution can meet your Web-to-host e-business needs today and in the future. IBM WebSphere Host Integration Solution:

- Provides a fast, easy and cost-effective way to take host applications and data to the Web
 - Requires no changes to host applications
 - Requires no scripting or coding
 - Addresses all aspects of an e-business network environment: SNA, TCP/IP, intranet, extranet and the Internet
 - Delivers technology uniquely designed to support specific types of users
 - Enables platform and technology migrations without additional purchases
- Supports a common development infrastructure and the ability to create and deploy host access e-business applications in a WebSphere software platform environment
 - Provides security for your e-business transactions

IBM WebSphere Host Integration Solution offers industry-leading host access solutions with unmatched flexibility for any environment, meeting virtually all of your host access e-business needs.

For more information

To learn more about IBM WebSphere Host Integration Solution, visit:

ibm.com/software/webservers/hostintegration



© Copyright IBM Corporation 2000

IBM Corporation
Department KV4A
3039 Cornwallis Road
Research Triangle Park, NC 27709

Printed in the United States of America
08-00
All Rights Reserved

Advanced Peer-to-Peer Networking, AIX, APPN, AS/400, the e-business logo, IBM, OS/2, OS/390, OS/400, RACF, SecureWay, S/390, VisualAge and WebSphere are trademarks of International Business Machines Corporation in the United States, other countries or both.

Tivoli is a trademark of Tivoli Systems Inc. in the United States, other countries or both.

Microsoft, Windows and Windows NT are trademarks of Microsoft Corporation in the United States, other countries or both.

Java, all Java-based trademarks and logos and Solaris are trademarks of Sun Microsystems, Inc. in the United States, other countries or both.

UNIX is a registered trademark of the Open Group in the United States and other countries.

Linux is a registered trademark of Linus Torvalds.

Other company, product and service names may be trademarks or service marks of others.

* IBM WebSphere Transcoding Publisher is sold separately as a complementary product.



Printed in the United States on recycled paper containing 10% recovered post-consumer fiber.



G325-3785-04