IBM

Enable secure universal access to anyone, anywhere.
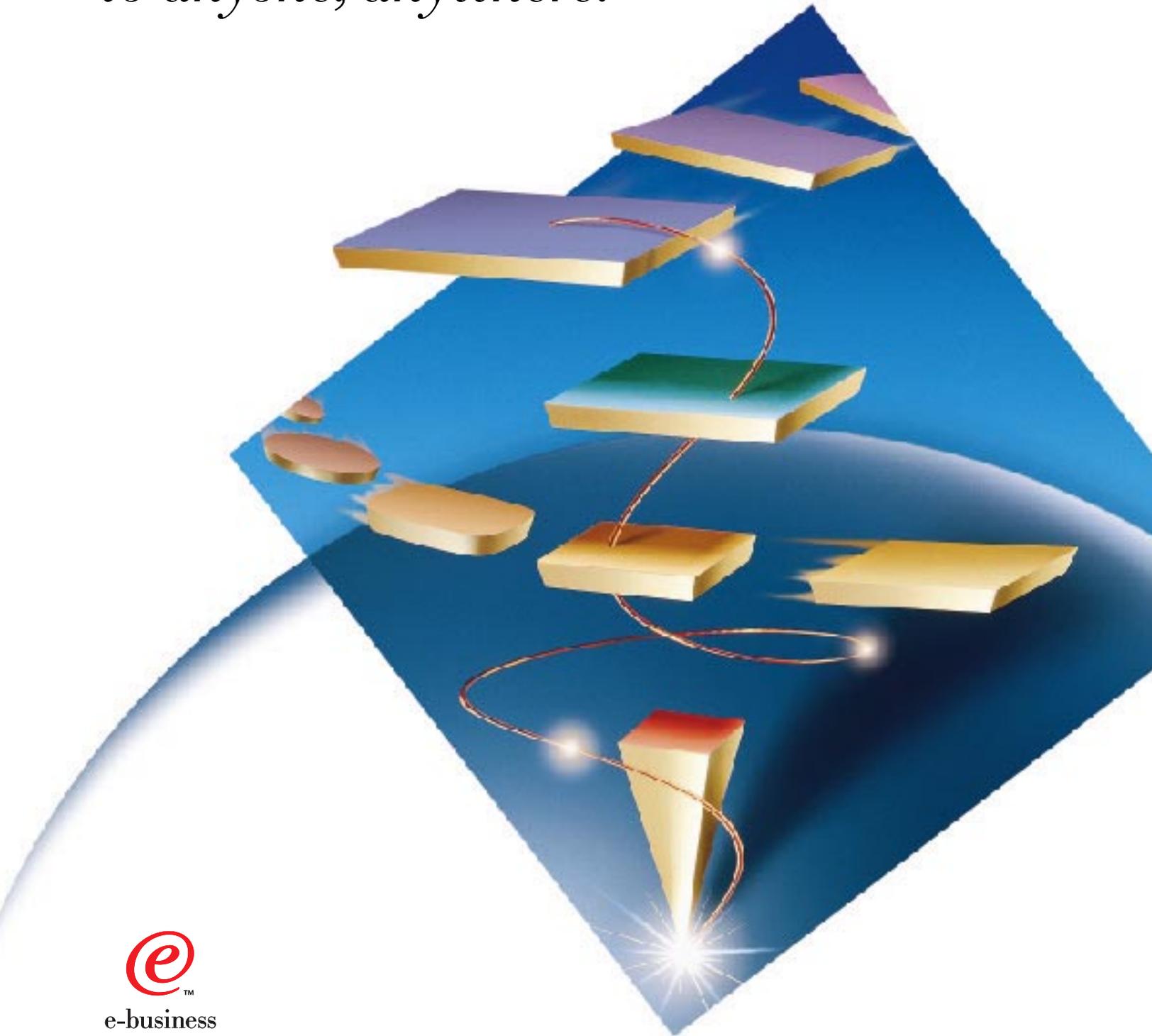
e-business

Build on what you have

Merging your network with the Web?

The Web and its associated technologies make extending the reach of your business information virtually limitless. As a result, providing access to information on IBM® System/390®, AS/400® and other back-end systems, such as UNIX®- and Windows NT®- 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, coupled 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 system defines e-business. And building an e-business means finding a solution that provides a fast and cost-efficient way to access, integrate and publish host information to Web-based clients. A complete solution for building an e-business infrastructure must be capable of:

- Seamlessly integrating your SNA and TCP/IP networks using Web technology

- Building intranets and extranets to provide your employees and business partners with Web-based access to applications and data

- Extending your business to new customers using the Internet

- Scaling to meet the needs of your changing business environment

- Securing your business applications and information from unauthorized access

The IBM eNetwork™ Host Integration Solution is designed to deliver all aspects of the e-business infrastructure.

What is the eNetwork Host Integration Solution?

The eNetwork Host Integration Solution allows you to choose a combination of IBM eNetwork communication clients and servers based on numbers of users, effectively eliminating the complexities of evaluating, buying and building your e-business infrastructure. You can choose from the following industry-leading client and server software:

- *eNetwork Host On-Demand for Windows 95, Windows NT and AIX®.* A 100 percent pure Java™ emulator supporting 3270, 5250 and VT emulation in a thin-client mode and an extensive set of Host Access Class Libraries and JavaBeans

- *eNetwork Personal Communications for Windows, Windows 95, Windows NT and OS/2®.* A comprehensive communication client, including 3270, 5250 and VT emulation, as well as a variety of application programming interfaces (APIs)

- *eNetwork Communications Server for Windows NT, AIX, OS/2 and UnixWare 7.* A multipurpose networking server featuring the industry's most advanced SNA gateway, a TN server (3270 and 5250) and a host publisher

Individually, these products are powerful tools, but together they provide an unparalleled solution for delivering host-based business information and applications across intranets, extranets and the Internet. And while this solution can't be matched, the cost is modest. You can choose the combination of eNetwork Host Integration Solution software you need, at a single price per user, to precisely meet the needs of your business. As your business grows, you can eliminate the risks inherent in capacity planning, by scaling the eNetwork Host Integration Solution – always for a single price per user.

Extend the reach of your network

Extending your SNA network

Extending the reach of your network to new environments does not mean abandoning your SNA network. To support SNA connectivity, Communications Server provides a powerful SNA gateway, featuring the most advanced SNA networking capability available today – Advanced Peer-to-Peer Networking® (APPN®) and High-Performance Routing (HPR). Client support is provided by Personal Communications, including 3270 and 5250 emulation across an SNA environment.

Extending your TCP/IP network

The eNetwork Host Integration Solution is equally capable of extending the reach of your TCP/IP networks. In the TCP/IP environment, Communications Server acts as a Telnet server for both 3270 and 5250 communication. On the client side, Personal Communications provides the same 3270 and 5250 emulation capability and adds VT emulation as well. And the multiprotocol support of Communications Server and Personal Communications enables SNA applications to work over your TCP/IP network and your TCP/IP sockets applications to run over your SNA network with no modification.

Building your intranet

The same eNetwork 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. When accessing your business applications also means generating substantial transaction rates across the intranet, Host On-Demand is the client of choice. Host On-Demand lets you use a traditional emulation interface, which is installed on and served from a Web server, to save you money in product deployment and maintenance.
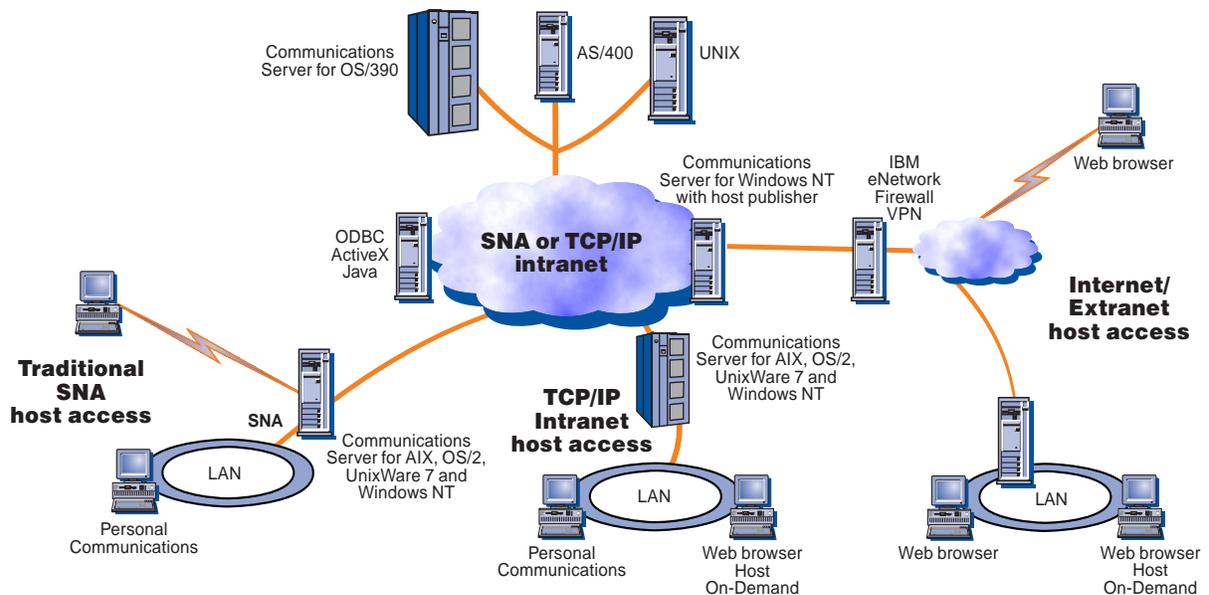
Host integration solution

Building your extranet

Your extranet connects your business partners, vendors and suppliers to your business applications. Like your employees using the intranet, your business partners can generate high transaction rates. But unlike your employees, they may not be familiar with a traditional mainframe interface or green screen. Once again, the eNetwork Host Integration Solution is the answer. Host On-Demand can automatically convert any 3270, 5250 or VT green screen into a user-friendly, point-and-click graphical interface – no need to modify your applications. You can even customize the graphical interface of your applications and filter information for different business partners and user groups.

The lower speed lines that your business partners or remote employees use, can make downloading large files, such as Java applets, time consuming and frustrating. The Host On-Demand local caching option lets you download once and save. The thin-client option downloads a basic emulator subset of files and saves it. Both of these options alleviate the problem of low-speed transmission lines.

Reaching your customers

The Internet gives you a chance to extend the reach of your business to new customers around the world. But, you may face inhibitors, which can prevent you from taking advantage of the Internet's potential. For example:

- How do you build a customer-oriented application from multiple sources of data?

- How do you determine what software is running on the customer's desktop?

- How do you deliver host-based information to untrained users?

Communications Server for Windows NT helps you overcome these obstacles to instantly reach new customers. The host publisher feature of Communications Server for Windows NT allows you to easily integrate multiple sources of data and publish them on a Web browser. With host publisher, you can integrate and publish Java applications, ActiveX applications, DB2® and any ODBC-compliant database information. The resulting Web-based application requires no special training for your new customers, and it can run in a Web browser on any desktop system. You'll have a new, user-friendly composite application that mines information from a variety of sources without requiring modifications to your existing business applications or data sources.

Building a flexible solution

Recognizing the fact that most enterprises have a variety of hardware, software and networking architectures, the eNetwork Host Integration Solution is designed to accommodate the most complex networking environment. The client and server products in the eNetwork Host Integration Solution are capable of running on a variety of platforms, including Windows® environments, AIX, OS/2, UnixWare 7, Sun Solaris and OS/390®. And with the promise of Java – write once, run anywhere – Host On-Demand can, when downloaded from any one of the supported servers, run on any client providing JVM support.

Flexibility also includes supporting multiple networking protocols. Personal Communications and Communications Server offer support for TCP/IP and SNA network environments. In addition, both of these products provide multiprotocol transport networking (MPTN), which allows applications to run in any network environment. 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.

Securing your business data

Security is fundamental when extending the reach of critical business information to users across public networks like the Internet. To address this, all of the products within the eNetwork Host Integration Solution support Secure Sockets Layer (SSL) authentication and encryption. This ensures the secure transport of sensitive information and access across your network. In addition, the eNetwork Host Integration Solution works with existing host security systems, such as RACF.

You can combine the eNetwork Host Integration Solution with the eNetwork Security Solution to ensure the privacy of your business information as you extend your network across the Internet. Using the IBM eNetwork Firewall and 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 enables you to prevent unauthorized access to your business data while benefitting from low-cost virtual networks.

Empowering your application developers

To protect your IT investment and provide a powerful application development infrastructure, eNetwork Software 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 eNetwork Software host integration products and provides access to 3270, 5250 and VT data streams. HACL allows you to 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 On-Demand JavaBeans provides emulator functions which allow customers and business partners to rapidly develop custom applications that contain the specific functions needed for your business processes. And because Host On-Demand JavaBeans is object-oriented, it can be reused – reducing development expenses. Also included in the eNetwork Software Host Integration Solution is the software developer's toolkit for host publisher. This toolkit allows you to integrate information from unique applications and data sources with the standard sources supported by host publisher.

A comprehensive solution

The eNetwork Host Integration Solution is the only solution available today that:

- 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

- Ensures the security of your e-business transactions

These factors, in combination with your ability to purchase the eNetwork Host Integration Solution for a single price per user, mean that the IBM eNetwork Host Integration Solution offers the most comprehensive network communication solution for the lowest total cost of ownership.

For more information

To find out more about the IBM eNetwork Host Integration Solution, contact your IBM representative or IBM business partner or visit the eNetwork Software Web site at *www.software.ibm .com/enetwork/.*

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