*Putting the power of the Internet to work
for your business*

IBM

Use your SNA or APPN network for intranet and Internet access

Highlights
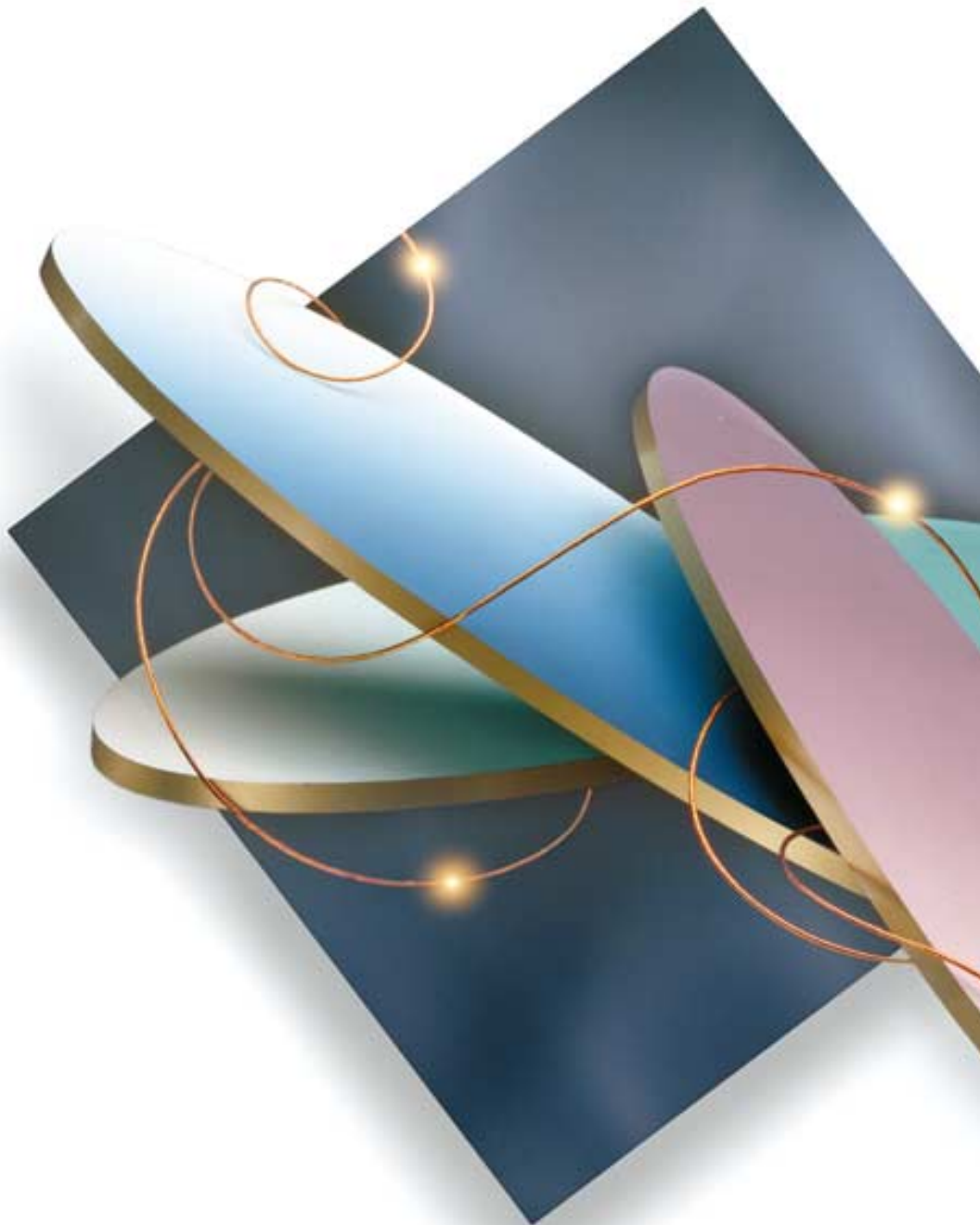
Cruise the Internet over an SNA, APPN, or HPR network with IBM AnyNet multiprotocol technology

Take advantage of the SNA and APPN benefits you value today—efficiency, reliability, data compression, traffic prioritization, congestion control, centralized management—for all your networking activities

Choose applications to fit your business needs without the expense and worry of changing your network infrastructure

Improve connectivity with IBM Communications Server and IBM 2217 Nways Multiprotocol Concentrator, multiprotocol solutions for existing SNA networks

Tap into the power of the Internet

Feel the power of the Internet—the power of communication and multiprotocol collaboration. Connect your business to the World Wide Web (WWW) with the SNA network you already have in place and IBM AnyNet multiprotocol technology. Connect Web servers and browsers over your SNA intranet for workgroup collaboration, or access the WWW from your corporate SNA backbone.

Easy access

The Internet is becoming indispensable for communication and information sharing for businesses, large and small. To gain access to the Internet, many companies install routers and TCP/IP. But you can extend your reach and gain Internet access without the use of TCP/IP or routers.

Do you have an SNA network in place today or access to an SNA network provider, such as IBM Global Network?

If so, you have full access to the Internet with your SNA network.

The Internet is actually a network of networks and your SNA, Advanced Peer-to-Peer Networking (APPN), or High-Performance Routing (HPR) network can be a full participant. HPR combines the best attributes of SNA, APPN, and TCP/IP. With AnyNet technology, integrated in IBM Enterprise Communications software or as an integrated hardware solution using 2217 Nways Multiprotocol Concentrator, you can connect your SNA network to the Internet and take advantage of all Internet services.

The World Wide Web

The WWW is a global repository of documents linked together to form a "web" of information. Documents stored on the WWW can contain images, sound clips, and even animation or video. A special protocol, called HyperText Transfer Protocol (HTTP), is used to transfer the text, graphics, images, and voice information across the Internet—and gives us the term hypermedia.

Using any popular Web browser (even Java-enabled browsers), you can access any information stored on the Web and jump from document to document with a click of your mouse button.

Using the AnyNet solution, you're guaranteed Internet and hypermedia access over SNA—without requiring the installation of TCP/IP on your workstations or your network. In fact, implementing an AnyNet solution requires no modifications to your existing hardware or applications.
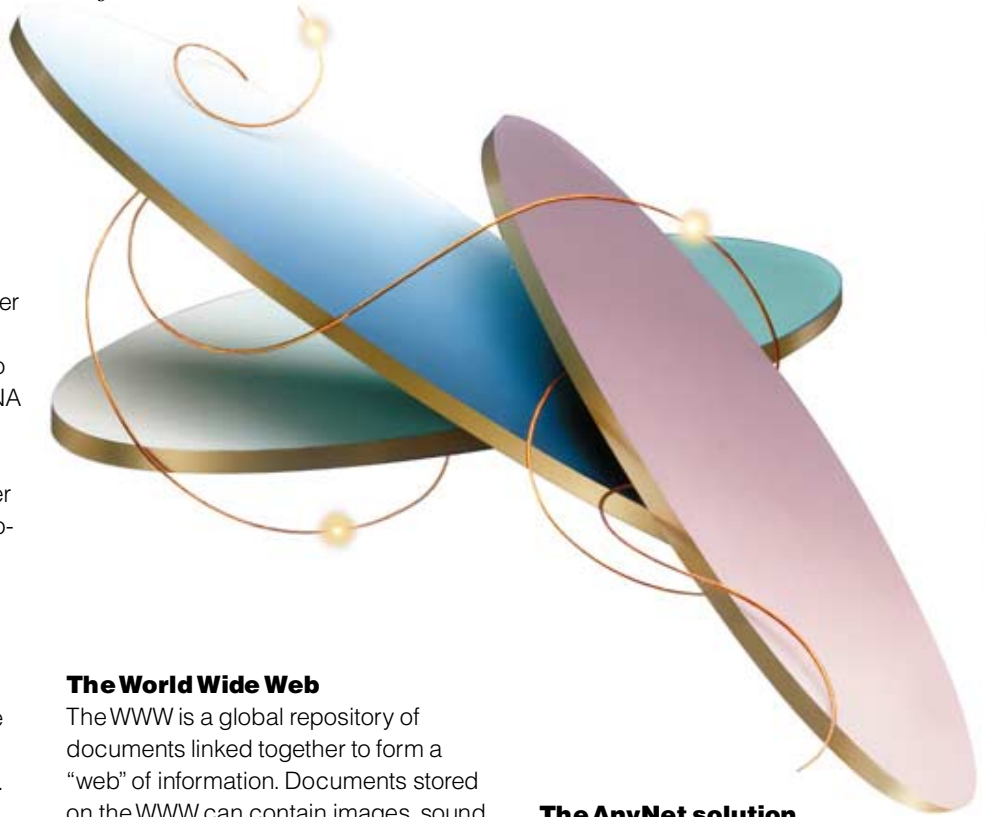
Firewalls and security

Do you need to provide protection and security for your network while you access new information and communicate globally? The AnyNet solution works with the firewall product of your choice, such as IBM Internet Connection Secured Network Gateway for AIX.

The AnyNet solution

With the IBM AnyNet solution, you get all the advantages of the SNA network benefits you value today—predictable response time, traffic prioritization, data compression, and cost-effective bandwidth utilization—and gain the added benefits of running Web servers and browsers or any TCP/IP Sockets application, such as FTP, Lotus Notes, SAP R/3, and Telnet, over your SNA network.

Business scenarios

Take a look at some real-life business scenarios and see how IBM can help you start taking advantage of the power of the Internet.
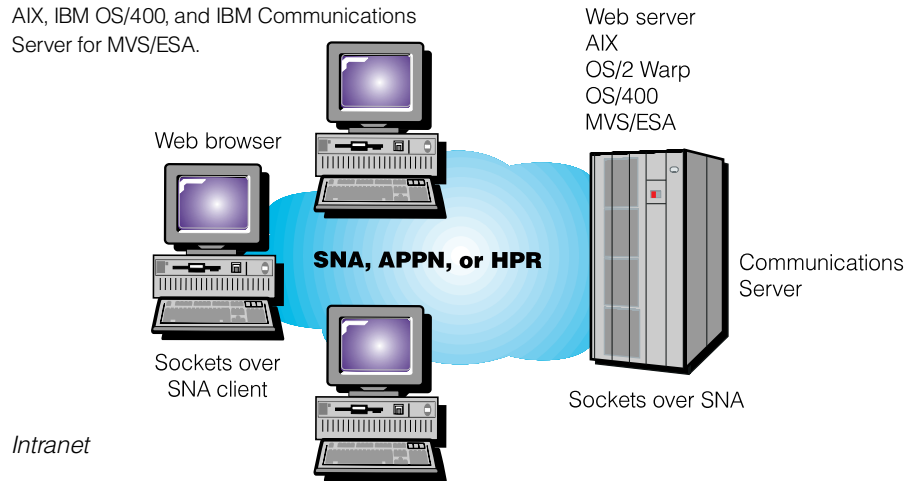
Scenario 1

A company wants to do collaborative hypermedia Web server development on its SNA intranet.

With a Web browser and AnyNet on the client workstations and AnyNet Sockets over SNA on a Web server, such as IBM Internet Connection Server for OS/2 Warp, AIX, or MVS/ESA, this company can use its SNA network to create hypermedia Web pages with HyperText Markup Language (HTML).

The Web page can be browsed from anywhere in the SNA network—installation of TCP/IP is not required.

Sockets over SNA client software is integrated with IBM Communications Server OS/2 Access Feature and IBM Personal Communications for OS/2, Version 4.1.

Sockets over SNA server software is integrated with IBM Communications Server for OS/2 Warp, IBM Communications Server for AIX, IBM OS/400, and IBM Communications Server for MVS/ESA.
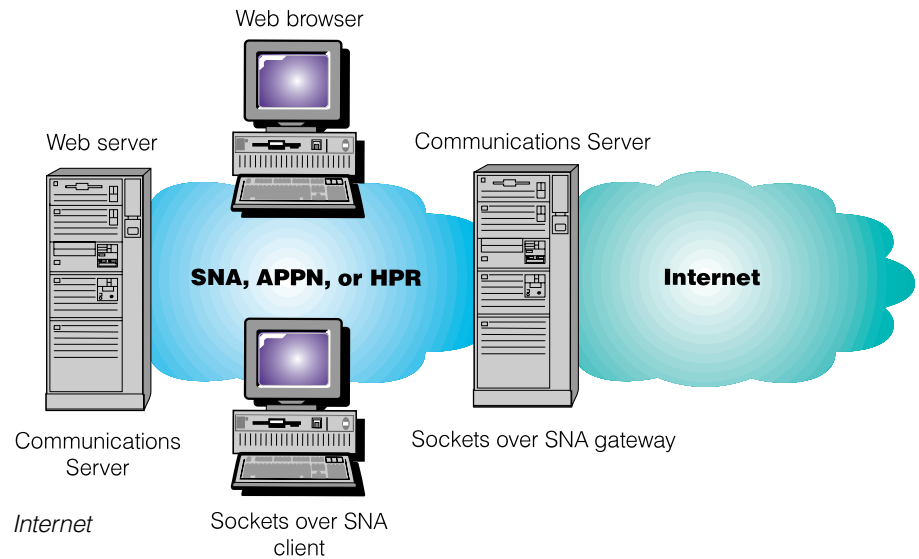
Web browser

SNA, APPN, or HPR

Web server
AIX
OS/2 Warp
OS/400
MVS/ESA

Communications Server

Sockets over SNA client

Sockets over SNA

Intranet

Scenario 2

Another company needs to access the WWW from SNA workstations on a corporate SNA backbone.

Sockets over SNA gateway configuration connects SNA and TCP/IP networks. Users on SNA workstations (with Sockets over SNA client software) can access the WWW using Sockets applications, such as any popular Web browser. Users stay connected to their SNA network and, with minimal changes, can access the WWW. Or, users on the Internet can access a Web server in the company's SNA network.

Sockets over SNA gateway technology is integrated with IBM Communications Server for AIX, IBM Communications Server for OS/2 Warp, and IBM 2217 Nways Multiprotocol Concentrator.
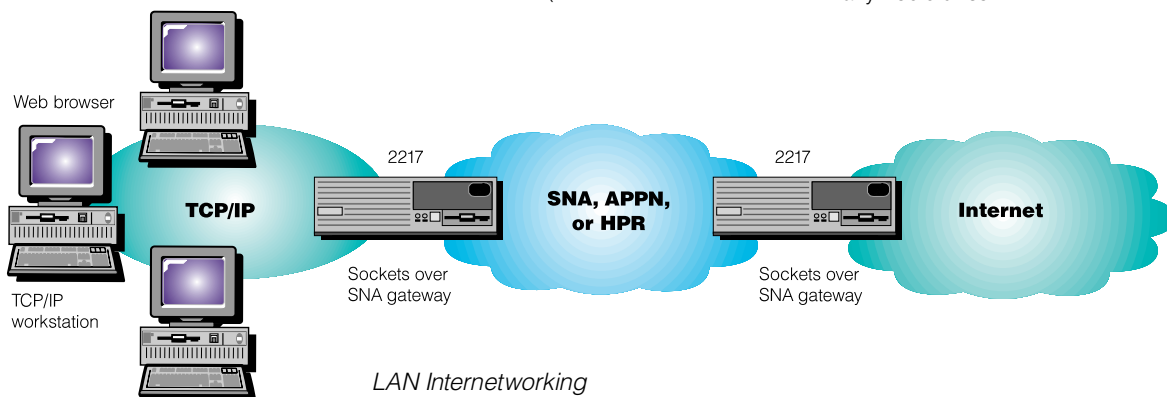
Web browser

Web server

Communications Server

SNA, APPN, or HPR

Internet

Communications Server

Internet

Sockets over SNA client

Sockets over SNA gateway

Scenario 3

A department on a remote IP LAN requires access to Internet services, such as FTP, NewsReader, e-mail, and the WWW.

Paired Sockets over SNA gateways allow Sockets applications on native IP workstations to communicate with similar applications over the SNA backbone (or an SNA network

provider, such as IBM Global Network). Users on the remote IP LAN can access Internet services using Sockets applications, such as any Web browser.

Web browser

TCP/IP

2217

SNA, APPN, or HPR

2217

Internet

TCP/IP workstation

Sockets over SNA gateway

Sockets over SNA gateway

LAN Internetworking

Communications Servers

IBM Communications Servers separate the choice of application from the choice of protocol and platform. Improved multiprotocol connectivity, system availability, and performance help you seamlessly integrate diverse networks and applications. IBM offers the right networking solution for you, whether your system is based on SNA, Internet Protocol (IP), or is a mixed network.

Communications Server for OS/2 Warp is a high-performance, multiprotocol gateway that incorporates the comprehensive support provided in today's Communications Manager/2 (CM/2) and AnyNet technology.

Communications Server for AIX also provides a high-performance, multiprotocol gateway that can be channel-attached to the central computer.

With your existing SNA network and the Sockets over SNA capability of Communications Server for OS/2 and Communications Server for AIX, you can access other sockets applications, such as Lotus Notes, SAP R/3, or Telnet.

2217 Nways Multiprotocol Concentrator

The 2217 Nways Multiprotocol Concentrator (2217) is an SNA-oriented, multiprotocol solution for high-speed LAN interconnection across WAN backbones. For example, the Sockets over SNA gateway is integrated in 2217. With 2217, your LANs have the benefits of SNA, such as traffic prioritization, data compression, cost-effective bandwidth utilization, and proven management. And, 2217 enables all your protocols to take advantage of third-generation technologies—HPR, APPN network node, and dependent logical unit requester (DLUR) function. The 2217 extends the scope of your SNA and APPN backbone to include multiprotocol transport. It lowers the cost of network ownership by reducing network management, administrative support, and bandwidth needs.

Related products and publications

IBM offers complete Internet solutions that include hardware, software, network services, and consulting services.

The following brochures provide additional information to assist you with the development of your Internet solution.

- Communications Server for AIX, G325-3572-02

- Communications Server for OS/2 Warp, G325-3596-01

- 2217 Nways Multiprotocol Concentrator, G325-3515-01

- Connecting your business to a world of new possibilities, G325-3589-00

For more information

IBM provides solutions that allow you to take advantage of the power of the Internet. For more information please contact your IBM representative or authorized reseller. Or, look for us on the WWW at URL:

http://www.raleigh.ibm.com

For Position Only

G325-5102-01