

Overview

The SNA-ps[®] Gateway, Apple's implementation of Systems Network Architecture protocols and services, is an integrated 3270, Advanced Program-to-Program Communications (APPC), and Advanced Peer-to-Peer Networking (APPN) gateway. The SNA-ps Gateway can be configured as a personal gateway for direct SNA connectivity or as an AppleTalk[®] network gateway to enable any Apple[®] Macintosh[®] personal computer to communicate with IBM systems running the VM, MVS, OS/400, and OS/2 operating systems.

The SNA-ps Gateway is a comprehensive solution for SNA access, featuring flexibility and high performance. Flexibility for users and system administrators is offered through support for multiple expandable interface cards, tunable performance parameters, and combined 3270 and APPC configurations. These features provide access to existing 3270 terminal-based applications and provide the user with Macintosh user interfaces to host applications, databases, and Office Vision services while furnishing a simple

migration path to emerging distributed applications based on APPC and APPN.

The SNA-ps Gateway is designed for high performance, offering parallel sessions and independent LU support, and is implemented on an intelligent NuBus[®] card. This design frees the main Macintosh processor to run other LAN applications that provide file, mail, and database services. The gateway can also be upgraded to support new features and future releases without hardware changes or complex and time-consuming upgrade and installation procedures.

Features

Benefits

- Implementation of IBMSNALU2, LU6.2, and NT2.1 protocols

- Provides compatibility with IBM3270, APPC, and APPN Low Entry Networking (LEN) SNA standards.

- Integrated SNA access

- Enables the installation of a single software/hardware product for access to any IBM SNA-based system—VM, MVS, OS/400, or OS/2.

- SAA compliant

- Ensures interoperability with current and future IBM environments and applications.

- AppleTalk Gateway

- Enables AppleTalk network users to access host resources with minimal additional hardware.

- 3270 and APPC support

- Provides convenient migration and coexistence between existing 3270 applications and new APPC cooperative and distributed applications.

- Tunable performance parameters

- Allows the gateway to be optimized based on application, environment, and user requirements.

- Hardware independence

- Provides the flexibility to choose among standard SNA connections—Token Ring, SDLC, or coax/DFT.

- NetView alert support

- Allows client applications or system administrators to send/filter alerts to NetView.

Product Details

SNA Protocols

The SNA-ps Gateway protocols are a complete implementation of IBM LU2, LU6.2, and NT2.1.

AppleTalk Gateway

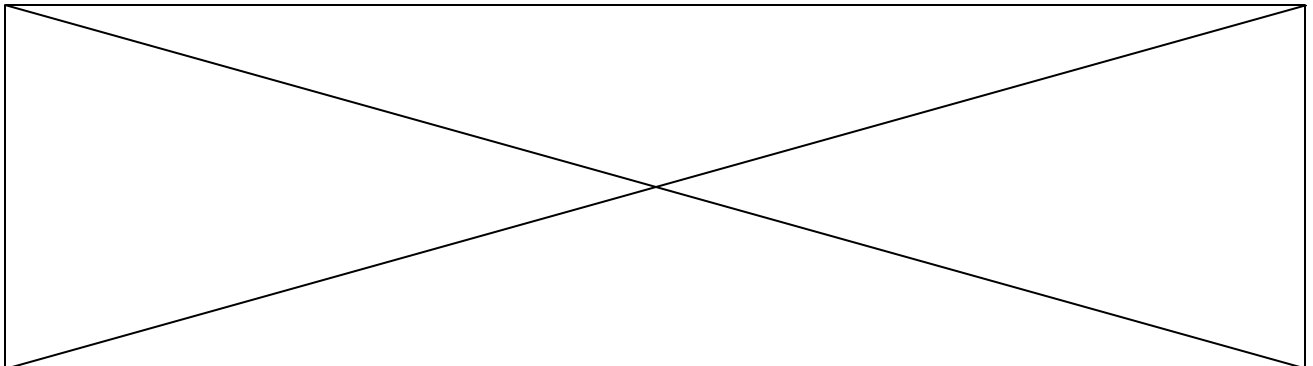
In AppleTalk network environments, the SNA-ps Gateway serves as a network resource for Macintosh applications such as SNA-ps 3270 or third-party SNA-ps-compatible applications.

Server Administration

These Macintosh applications, which can be run on the Macintosh containing the SNA-ps Gateway or on a Macintosh connected to the Gateway via AppleTalk, are used to initialize and manage local and remote SNA-ps Gateways: SNA-ps 3270 Manager allows SNA-ps Gateway configuration where only 3270 terminal emulation is needed for a single connection to a single host.

SNA-ps Config allows SNA-ps Gateway configuration for more complex environments that may involve multiple lines, multiple hosts, and APPC connections. SNA-ps Admin provides a complete set of management features for SNA-ps Gateways running any configuration created by SNA-ps 3270 Manager or SNA-ps Config.

SNA-ps architecture



Related Products

- Apple Coax/Twinax Card
Order No. M0261
- Apple TokenTalk NB Card
Order No. M0237
- Apple Serial NB Card
Order No. M0264
- Macintosh Coprocessor
Platform[®] Memory Expansion Kit
Order No. M0145LL/A

Programming Tools

- Contact APDA[®] (Apple Programmer's and Developer's Association) for 3270 and APPC programming interfaces, documentation, and sample programs:

APDA

Apple Computer, Inc.
20525 Mariani Avenue,
MS33-G
Cupertino, CA 95014-6299 U.S.A.
800-282-2732 (United States)
800-637-0029 (Canada)
408-562-3910 (International)
AppleLink[®] address: APDA

Product Support

Ninety days of free software support is included from Apple's Technical Coordinator Answerline. After the initial 90-day period, annual support contracts are available for a fee.



SNA-psGateway

System Requirements

To use the SNA-psGateway, you need:

- A Macintosh II system with a minimum of 1 MB of RAM (Additional RAM on the Macintosh

- II logic board will not affect gateway performance.)
- System software version 6.0.5 or later

- An Apple Coax/Twinax Card, Apple TokenTalk NB Card, or Apple Serial NB Card

Ordering Information

Gateway Software

- The SNA-psGateway is available in three versions depending on the desired number of SNA sessions:

- SNA-psGateway/8*
Order No. M1037LL/A
- Provides support for up to 8 3270 or APPC sessions.
 - Runs on the Apple TokenTalk NB and Apple Serial NB Card with support for up to 8 3270 or APPC sessions.
 - Runs on the Apple Coax/Twinax Card but is limited to 5 3270 sessions.

- SNA-psGateway/32*
Order No. M1038LL/A
- Provides support for up to 32 3270 or APPC sessions.
 - Runs on the Apple Serial NB Card with support for up to 18 sessions. Requires the Macintosh Coprocessor Platform Memory Expansion Kit on the Apple Serial NB Card to support 19 to 32 sessions.
 - Runs on the Apple TokenTalk NB Card with support for up to 8 3270 and APPC sessions.
 - Runs on the Apple Coax/Twinax Card with support for up to 5 3270 sessions.

- SNA-psGateway/64*
Order No. M1039LL/A
- Provides support for up to 64 3270 or APPC sessions.
 - Runs on the Apple Serial NB Card with support for up to 18 sessions. Requires the Macintosh Coprocessor Platform Memory Expansion Kit on the Apple Serial NB Card to support 19 to 64 sessions.
 - Runs on the Apple TokenTalk NB Card with support for up to 8 3270 and APPC sessions.
 - Runs on the Apple Coax/Twinax Card with support for up to 5 3270 sessions.

- Each of the above packages includes:
- SNA-psGateway software
 - SNA-psAdmin and Config programs
 - SNA-ps system files
 - *SNA-ps Administrator's Guide*
 - Registration card for 90 days of free telephone support from Apple's Technical Coordinator Answerline

Client Software

- To use the gateway for host access, you need an application that supports the SNA-ps Gateway's 3270 or APPC interfaces. SNA-ps 3270, Apple's 3270 terminal emulation application, is available separately for the Macintosh Plus and later systems.

- SNA-ps 3270*
Order No. M0499LL/A
- For connecting to IBM mainframes directly or through an SNA-psGateway
 - Includes a 5-session DFT gateway and CUT and NLCA drivers

- SNA-ps 3270 GC*
Order No. M1220LL/A
- For connecting to IBM mainframes through an SNA-psGateway
 - Includes only the SNA-ps 3270 application software for access to an SNA-psGateway