Accessing Remote Services as Easily as Local Ones
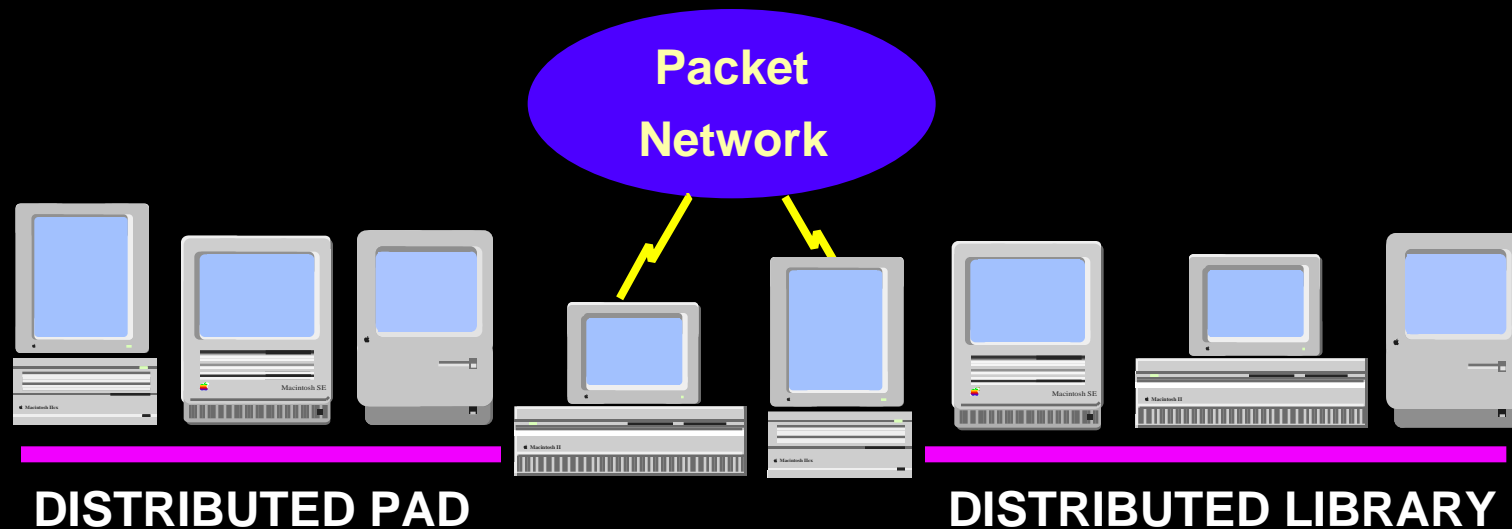
X.25

WAN with PSDN*

Developing Applications on MacX25

*acronym city

What is MacX25

- A server
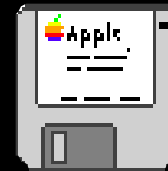- A network integration tool: distributed PAD and programming library

Packet Network

DISTRIBUTED PAD

DISTRIBUTED LIBRARY

MacX25 Consists of ...

The MacX25 Server Kit

Server
Software

MacPAD
Software

Apple

Serial NB Card

Mac II family CPU

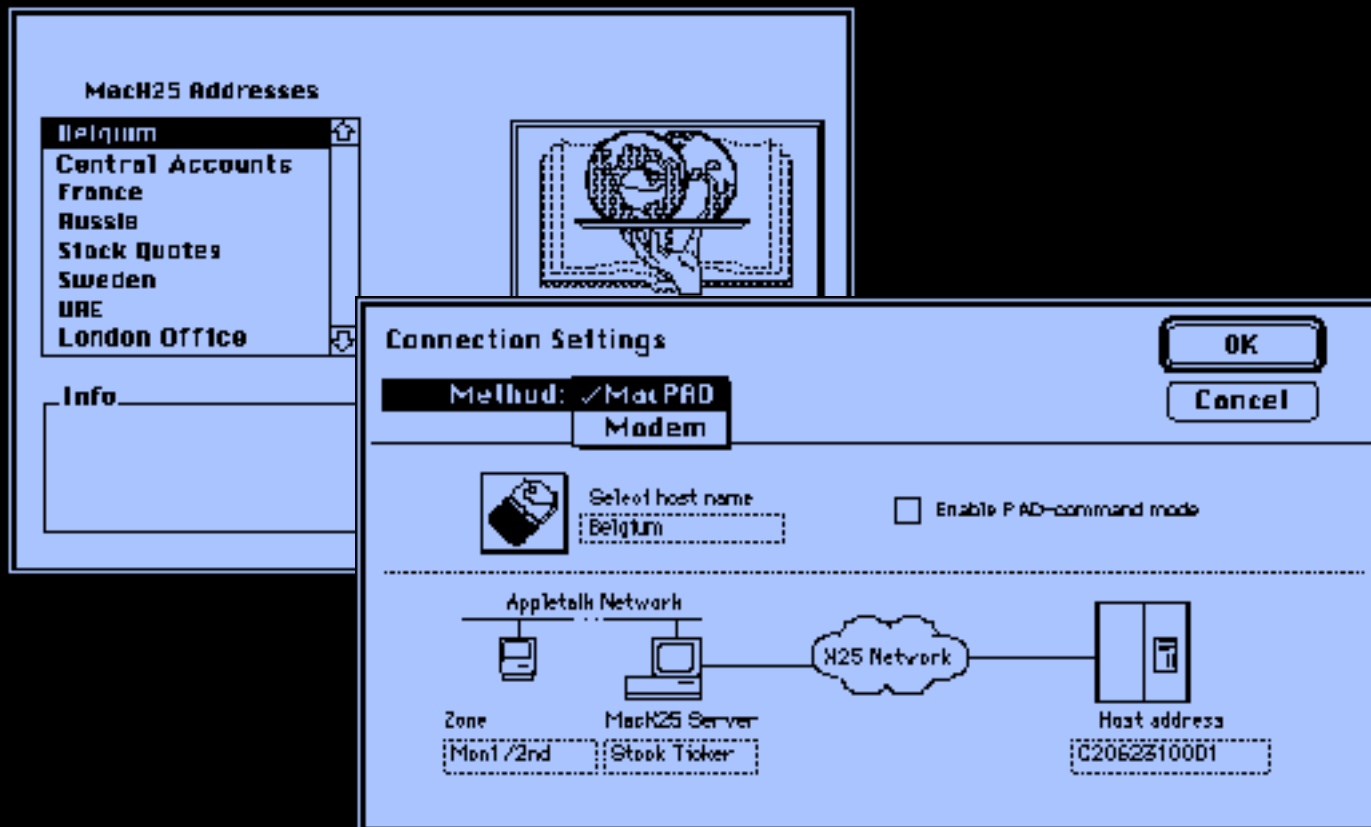AppleTalk LAN

any Macintosh

Easy to Use MacPAD

MacH25 Addresses

- Belgium
- Central Accounts
- France
- Russie
- Stock Quotes
- Sweden
- UAE
- London Office

Info

Connection Settings

OK

Cancel

Method: ✓MacPAD / Modem

Select host name
Belgium

☐ Enable PAD-command mode

Appletalk Network
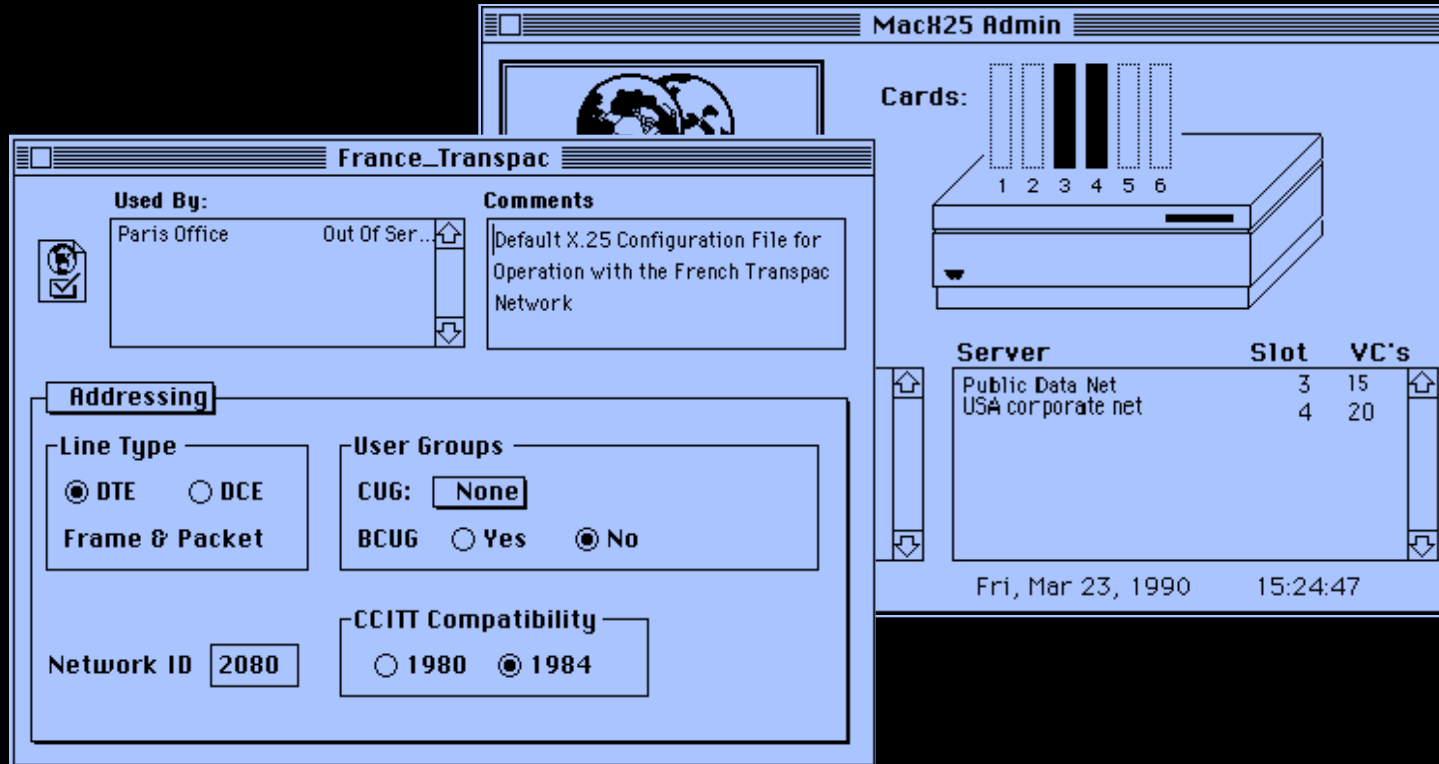
X25 Network

Zone
Mon1/2nd

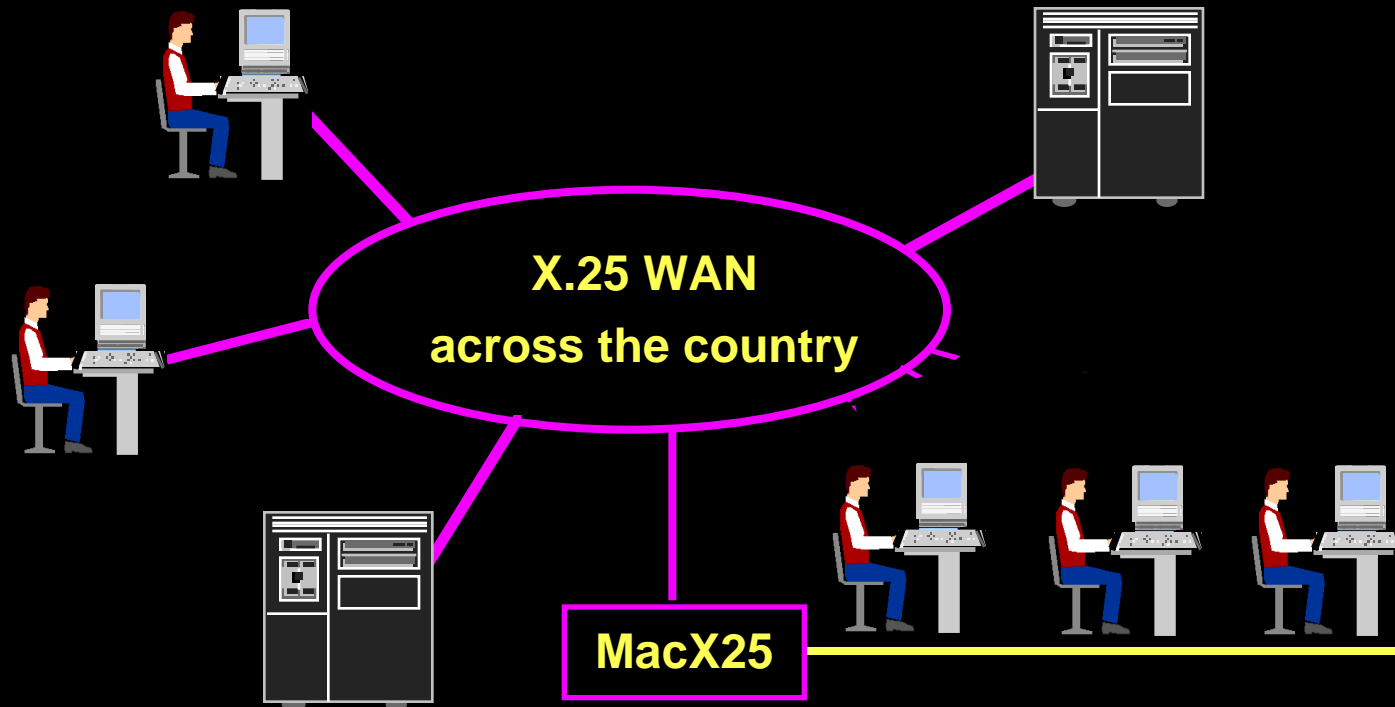MacK25 Server
Stock Ticker

Host address
C20623100D1

Easy Setting Network Configuration Files

Product Specifications

- 64 simultaneous virtual circuits per card
- Operation at up to 64Kbps
- Single link per card/multiple cards per Macintosh II

When to Use X25: Point to Multipoint

X.25 WAN

across the country

MacX25

Opportunities

- Custom applications and front-ends
- Replace slow modem-based solutions
- Sample applications
  - Order entry, reporting
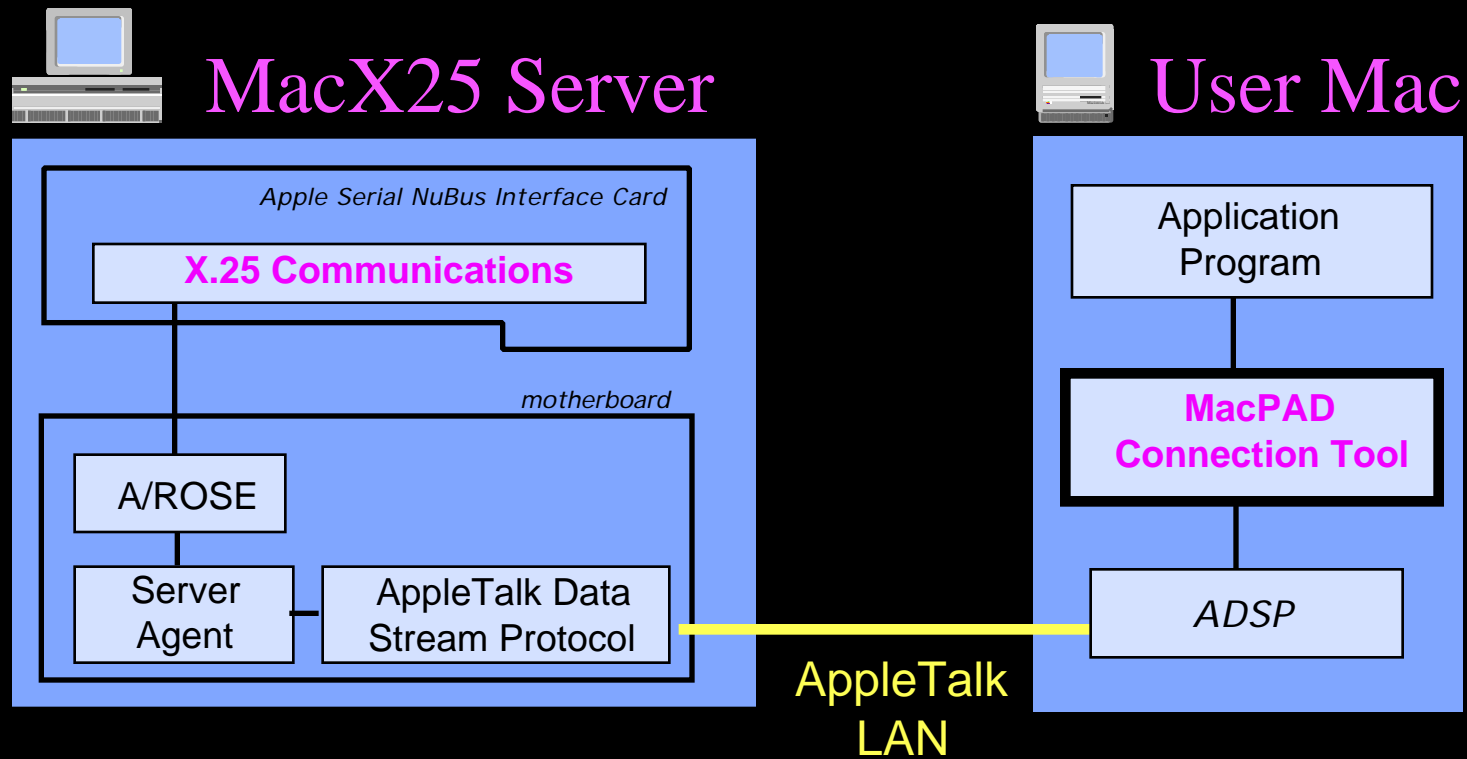 - Data access with custom front end
  - Terminal service

Why MacX25?

- Sophisticated tools–easy to build on
- Powerful platform–flexible
- Friendly interfaces–easier to support
- Cost effective–opens new markets

see Q&A notes

How Applications Use MacX25

- MacPAD: a connection tool for the Communications Toolbox
- Applications can use MacPAD
- Custom applications can use the MacX25 Programming Library

How Does it Work?

MacX25 Server

Apple Serial NuBus Interface Card

X.25 Communications

motherboard

A/ROSE

Server Agent

AppleTalk Data Stream Protocol

User Mac

Application Program

MacPAD Connection Tool

ADSP

AppleTalk LAN

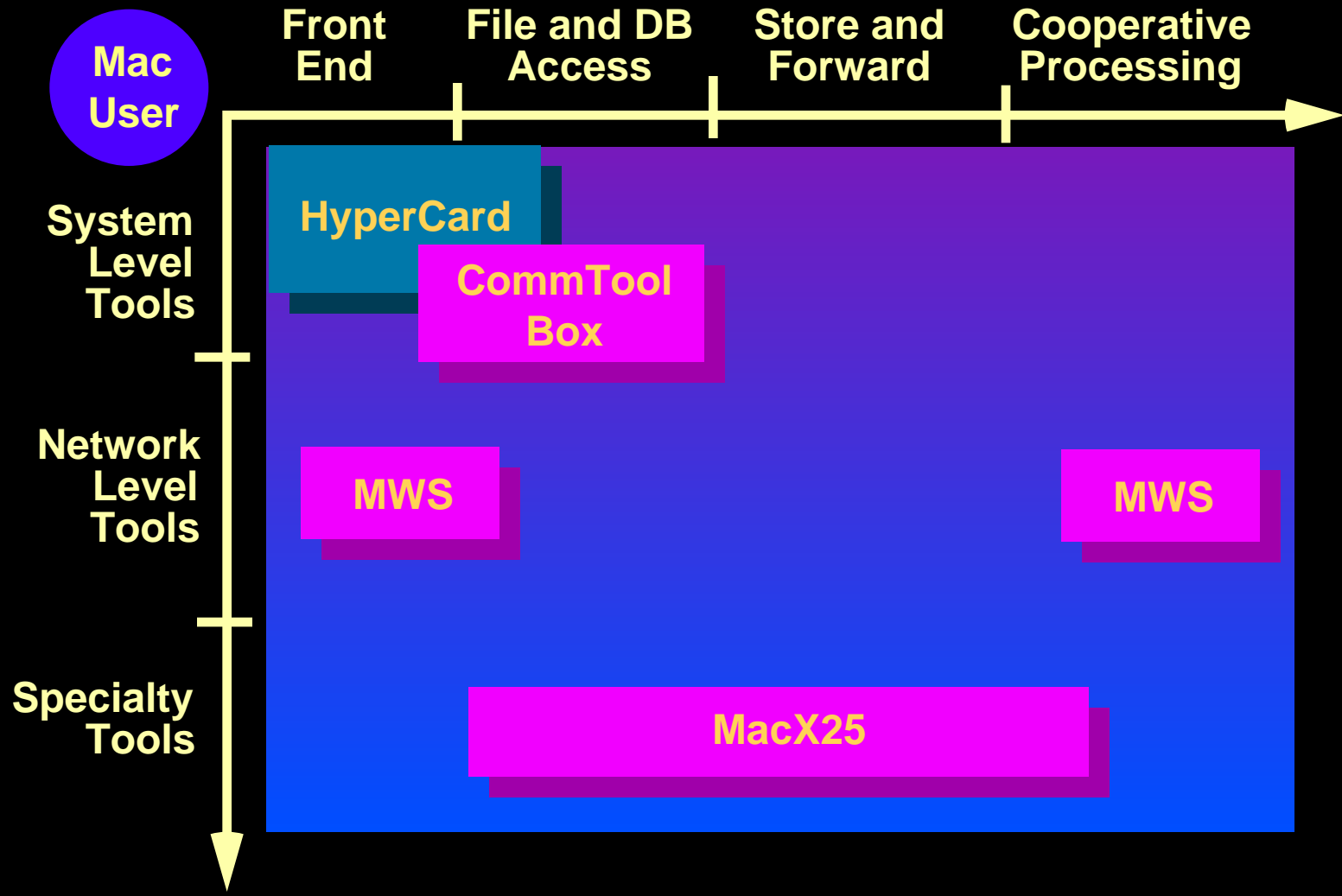# MacX25 Programming Library

- Distributed programming library
- Powerful Packet Level Interface
  - Logical packet interface
  - "Raw" packet interface

**MacX25
Programming Library
Software**

Network Application Tools

	Front End	File and DB Access	Store and Forward	Cooperative Processing
Mac User				
System Level Tools	HyperCard / CommTool Box			
Network Level Tools	MWS			MWS
Specialty Tools		MacX25		

Programming Library or MacPAD?

- MacPAD/Communications Toolbox Flexibility: select MacPAD, Modem or other tool

- MacX25 Programming Library Performance: direct X.25 network level interface
  - Suited towards gateways and transactions oriented applications

Certification

- Certified: Datex-P (Germany), CEPT (Pan-European), ITAPAC (Italy), Austria,Telenet, GEIS, Tymnet (underway)
- MacX25 will be available in U.K., Canada, Australia, France, Sweden, the Netherlands, with additional certifications as may be required
- Complies with CCITT 1980/1984 specifications
- PAD complies with X.3, X.28, X.29

Summary

- Sophisticated development platform
- Easy to use and support
- Complete Apple solution: software and hardware
- Opens new markets

How to Get MacX25 Server and Apple Serial NB Card

- **MacX25 Kits** (software with Serial NB Card)
  - APDA
  - (Apple) System Integrators
  - (Apple) VARs
- Serial NB Card only
  - Apple authorized N&C Dealers

APDA: Complete MacX25 Kits Serial NB Board Included

- MacX25 Server Kit with Serial NB Card ($2124)
  - MacX25 Server Software Kit
  - Serial NB Card with RS232 cable
- MacX25 Developer's Kit ($2324)
  - MacX25 Programming Library Kit
  - MacX25 Server Software Kit
  - Serial NB Card with RS232 cable

Or Software Only...

- MacX25 Server Software Kit ($800)
  - MacX25 Server software
  - MacPAD software
  - Administrator's and User's Guides
- MacX25 Programming Library Kit ($200)
  - Library software and Programmer's Guide (200 page)

Licensing the MacX25 Programming Library

- A license for the distribution of applications incorporating the library
  - Internal Use License: $2500
  - Commercial Use License: $5000
    (or Internal Use License + $2500)
- Apple Computer Software Licensing
  20525 Mariani Avenue, MS 38-I,
  Cupertino, CA 95014

The Following Slides Have Additional Information For Your Use

System Requirements

- MacX25 Server
  - Mac II family CPU; 2M RAM, hard disk
  - System 6.0.4 or later
  - Serial NB Card with RS232 or V.35 cable
  - AppleTalk LAN (LocalTalk, EtherTalk, TokenTalk)

System Requirements (*cont.*)

- User station / MacPAD
  - Mac Plus or more recent CPU, hard disk
  - 2M RAM recommended

Ordering from APDA

- APDA, Apple Computer Inc,
  20525 Mariani Avenue, MS 33-G,
  Cupertino, CA 95014-6299
  or calling:(U.S.)1-800-282-2732(international)1-408-562-3910
  FAX 1-408-562-3971, TELEX 171-576.

- Electronic ordering:
  AppleLink:APDA   MacNet:APDA
  MCI:POSTROM   GEnie:A.DEVELOPER3
  CompuServe:76666,2405

- APDALog: quarterly catalog

Dollars and Sense

- MacX25 Server Software Kit ($800)
  - MacX25 Server software
    - Use on one CPU, multiple cards
  - MacPAD software
    - Use on any number of stations
  - Administrator's and User's Guides
- Apple Serial NB Card ($1199)
  - RS-232 and V.35 cables (sold separately)

Features and Benefits

- Conforms to CCITT X.25: Universal interoperability
- A MacPAD connection tool: Access to services and hosts
- An Address Book Service: Ease of use
- A non-dedicated server: Other applications can run the server
- Friendly Administrator's interfaces: Ease of configuration and administration

Programming Interfaces

- MacX25 Programming Library
  - Routines: X25_Connect, X25_listen, X25_Read/Write, X25_encode_call_req, X25_encode_data, X25_decode_header, X25_Server_Connect, X25_Serve_ Authorize
  - C library
- MacPad Connection Tool
  - CTB programming interfaces

The power to be your best