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**1990 Worldwide  
Developers Conference**

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**Veronica Dullaghan**

N&C Product Marketing  
Product Manager

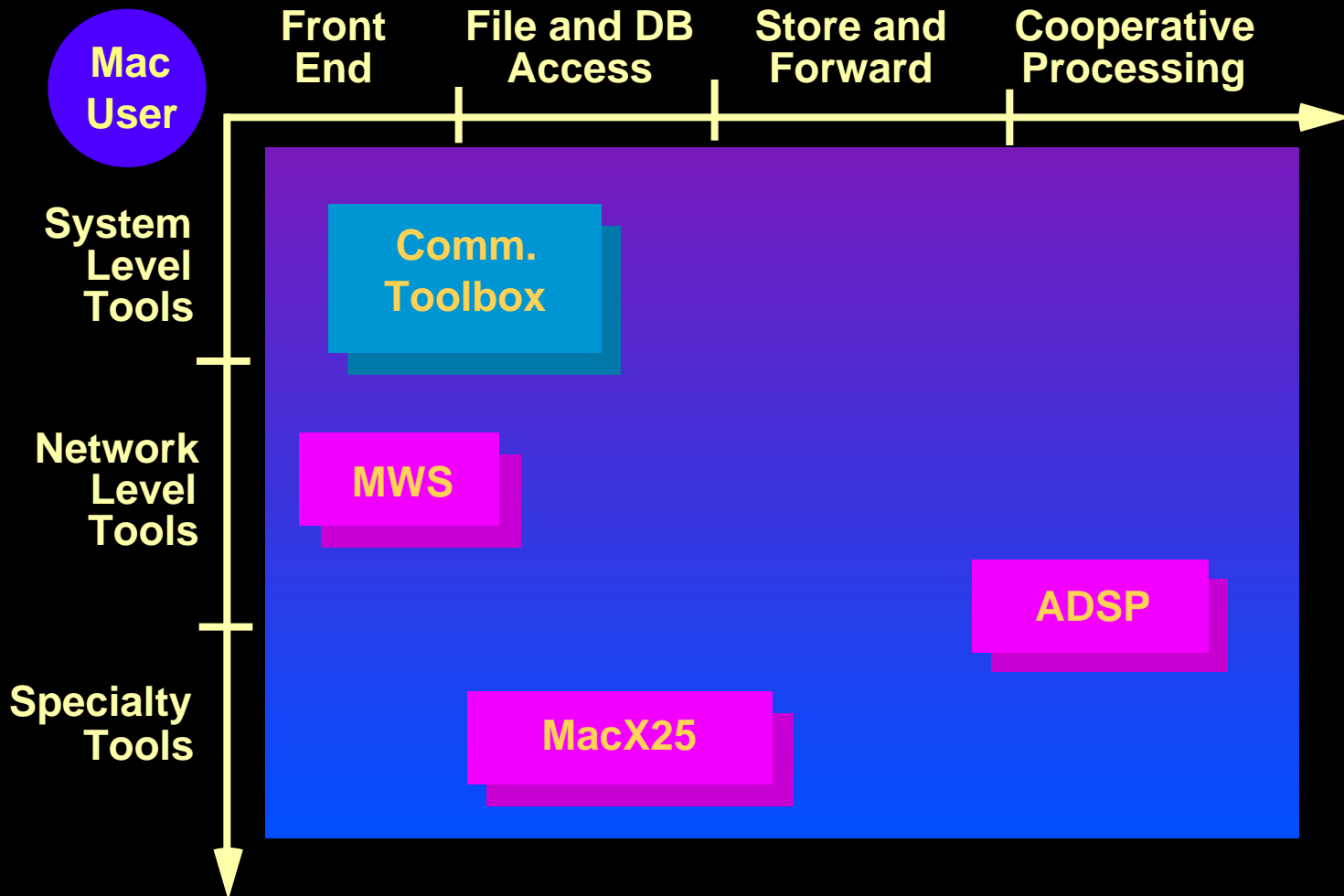
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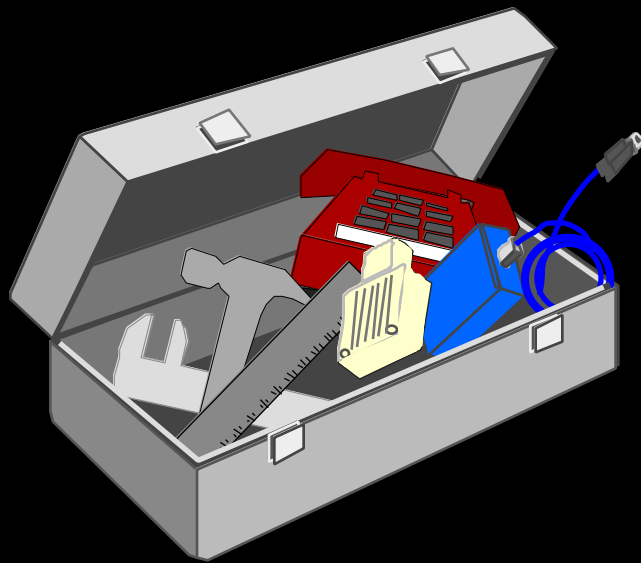
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# Macintosh Communications Toolbox

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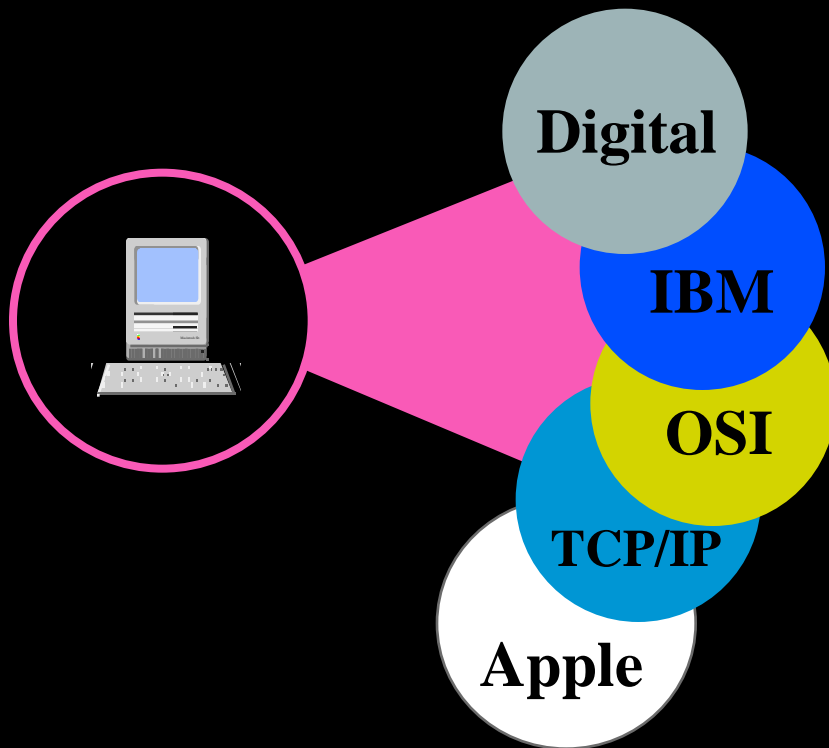


# Macintosh Communications Toolbox Integrated Into System 7.0



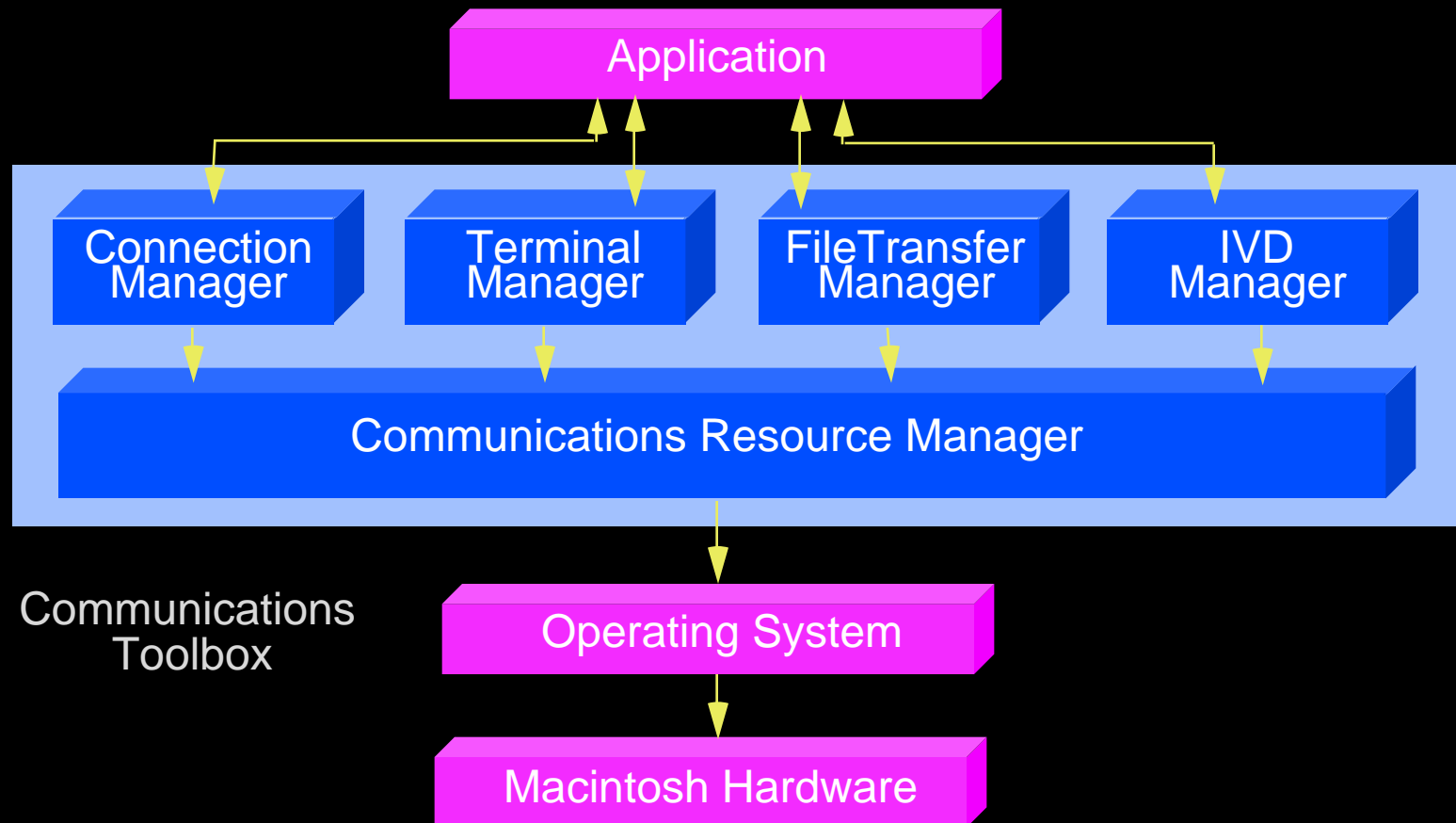
- Data connections
- Terminal emulations
- File transfer services

# Objective

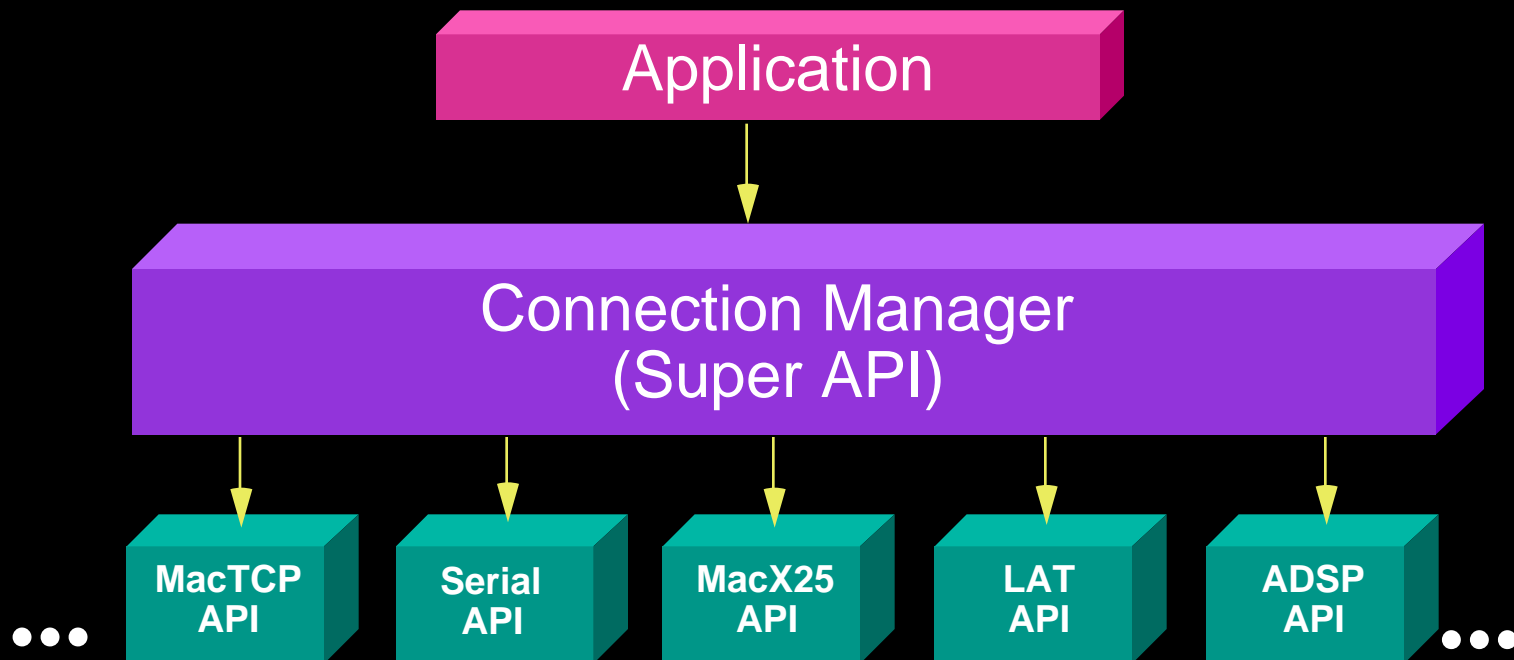


- To provide developers with standard access to networking and communications services
- Support key multivendor environments

# High Level Flowchart



# Connection Manager



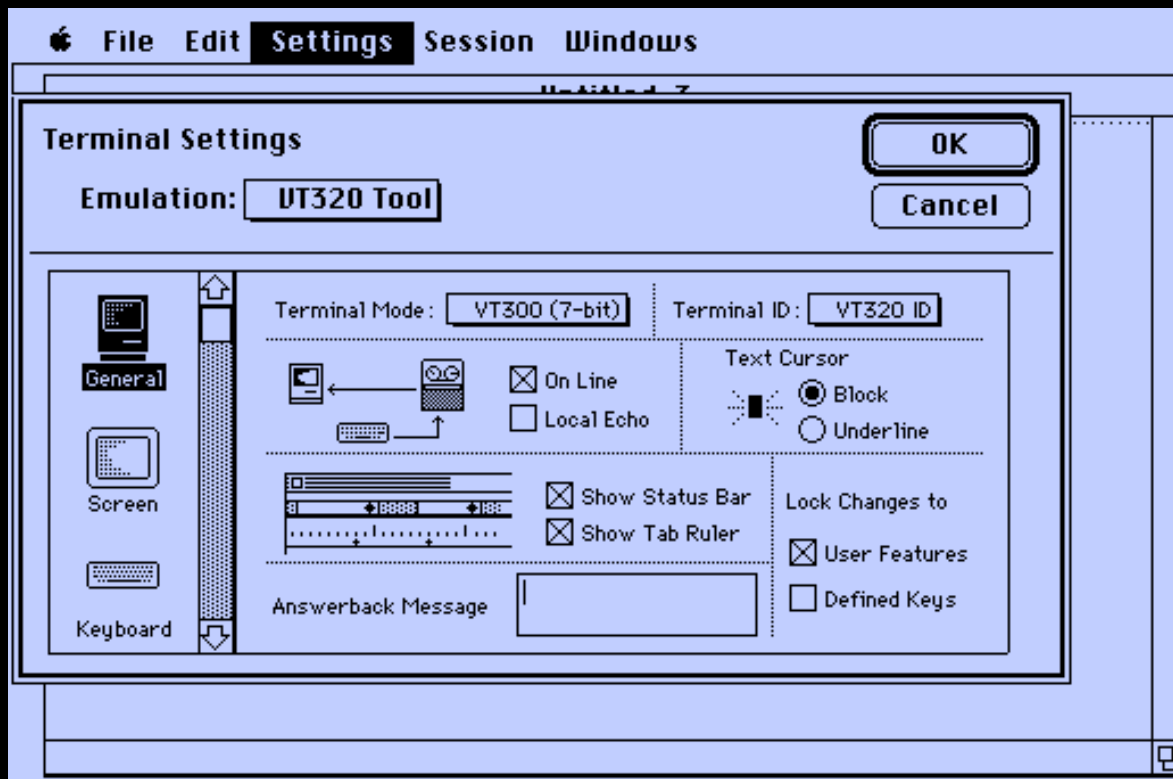


# Significance

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- Easier to add networking and communications functions to applications
  - Standard APIs
  - Extensible architecture
  - Built into system software 7.0
  - Consistent and intuitive user interfaces

# Set-Up Dialog for VT320 Tool



## Best Used When You...

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- Require flexibility in choice of networking and communications protocols
- Want to avoid low-level plumbing
- Want standard access to more serial ports

# Access API Directly When You...

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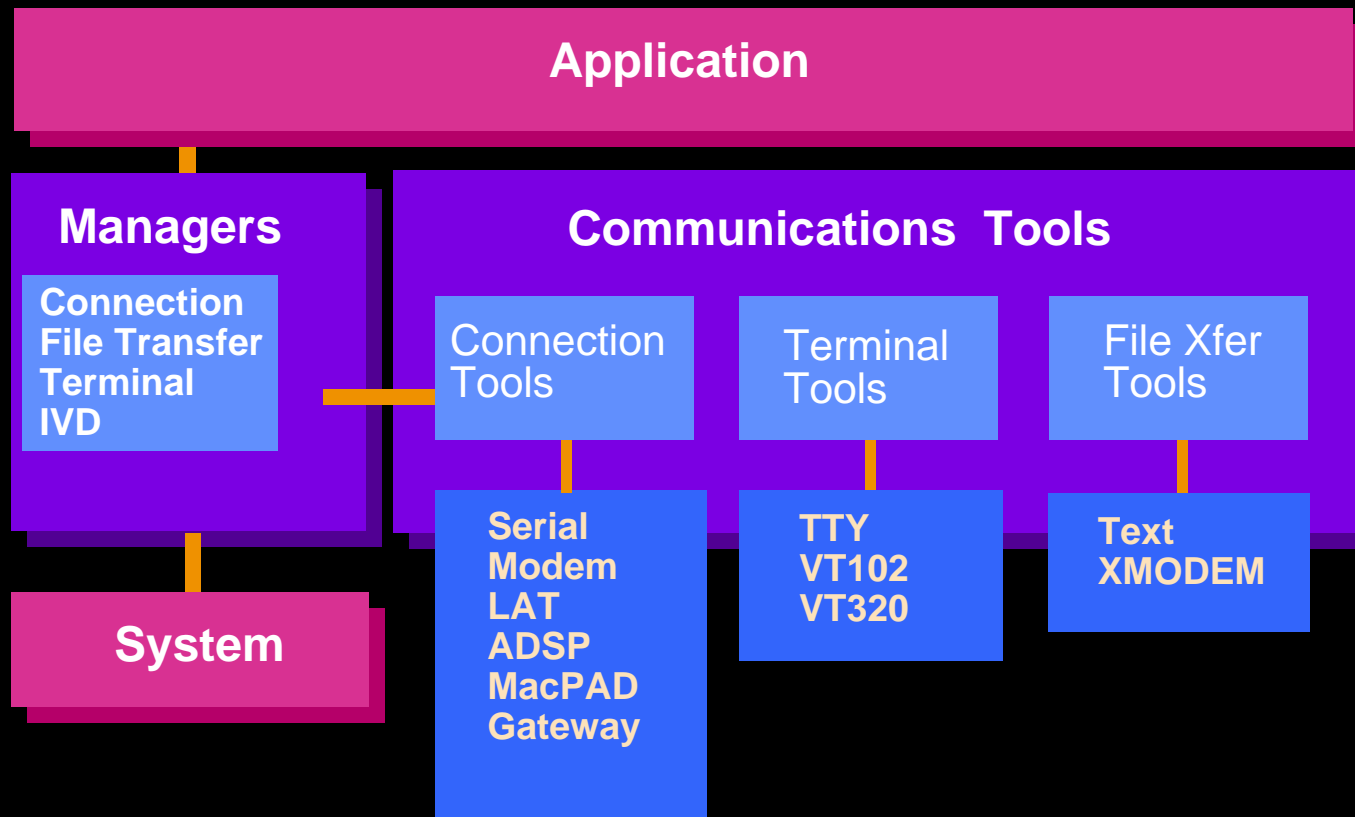
- Want to use only a single connection protocol

# Managers and Tools

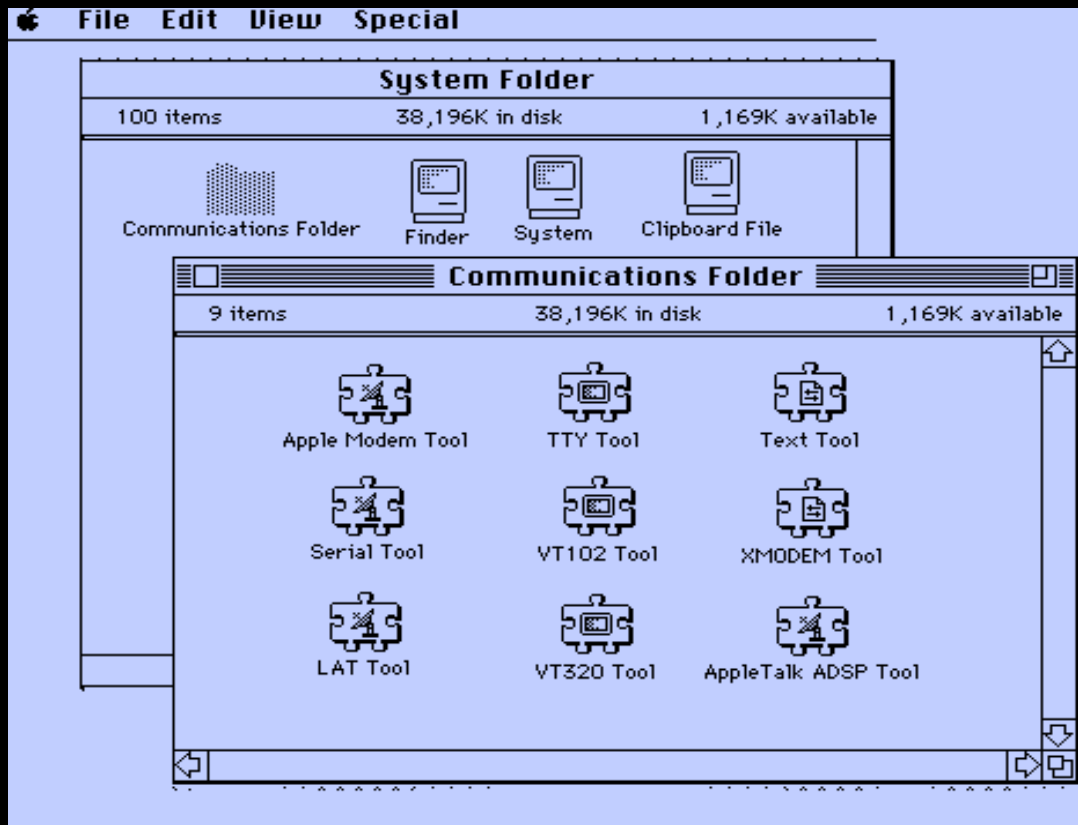
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- Managers provide applications with **access to classes** of functionality
- Tools **perform all functionality** associated with a given network or communications service

# Managers and Tools



# Tools



# Communications Resource Manager

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- Identifies NuBus Communication cards
- Provides multiple session support



# First Apple Products Using CTB

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- MacX
- MacX25
- MacTerminal 3.0
- ISDN
- DEC LanWORKS for Macintosh
- Data Access Language

## Some 3rd-Party Applications...

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- VersaTerm 4.1 and VersaTerm Pro (Abelbeck)
- PacerTerm (Pacer)
- Acknowledge (Lamir)
- Mac240/241 (White Pines)
- AlisaTerm (Alisa Systems)
- Timbuktu (Farallon)
- Konnect FAST! (Number One Graphics)

## Some 3rd-Party Tools/Hardware

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- TCPack Tool (Advanced Software Concepts)
- ASC3270 Terminal tool (ASC)
- CommCard (Taniwha Systems)
- Fax and data modems (Xecom)
- Hayes Modems (Hayes)
- Comm. Cards (Creative Solutions)
- Digichannel (Digiboard)

# Areas of Opportunity

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- SNA/IBM connection, terminal and file transfer tools
- Graphics terminal tools
- Kermit and other file transfer tools
- Tools supporting other environments
  - HP, Wang, Honeywell, Tandem

# Communications Toolbox Futures

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- Integrated Voice and Data (ISDN)
- Further SNA investigations
- International issues
- Libraries of objects for use with OP languages (C++, Object Pascal)
- HyperCard Toolkit
- More source code examples

# Availability

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- Order from APDA or Developer Tools Express
- Commercial and site licenses through Apple SW licensing
- Partners can Link MACDTS for assistance

## Tool Status

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- Serial Tool - Final
- TTY Tool - Final
- Apple Modem Tool - 5/30
- Text Tool - 5/30
- XMODEM Tool - 5/30
- VT320 Tool- 5/30
- AppleTalk ADSP Tool - 5/30
- VT102 Tool - 6/30
- LAT Tool - 7

# Marketing

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- List your shipping tools in APDA Log and Developer Tools Express
- Communicate with others on AppleLink Bulletin Board
- Indicate that your product “Supports the Macintosh Communications Toolbox”





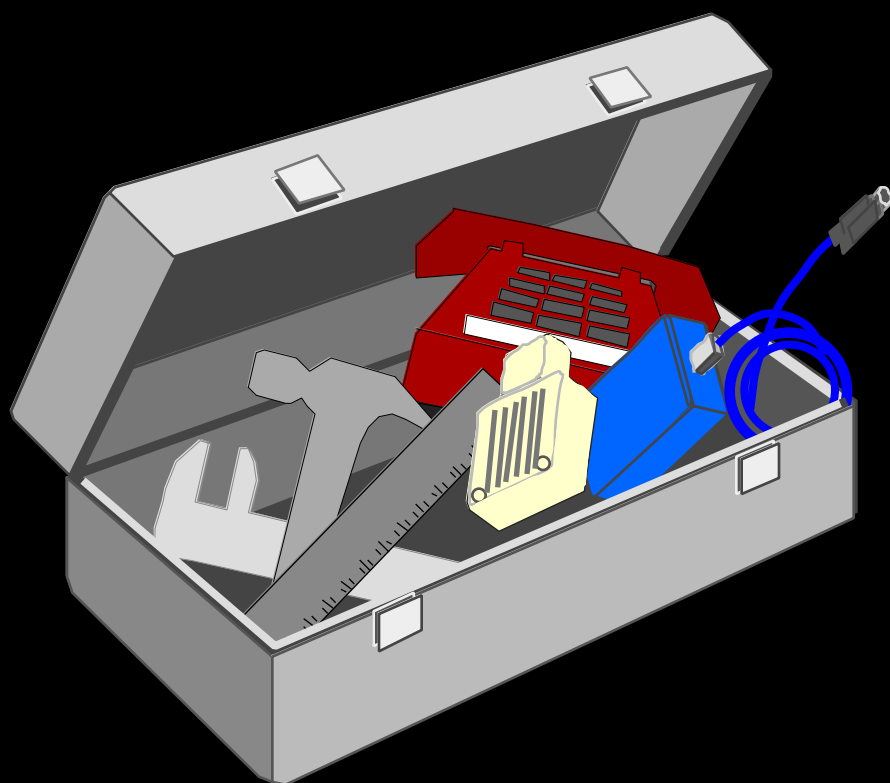
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**Byron Han**

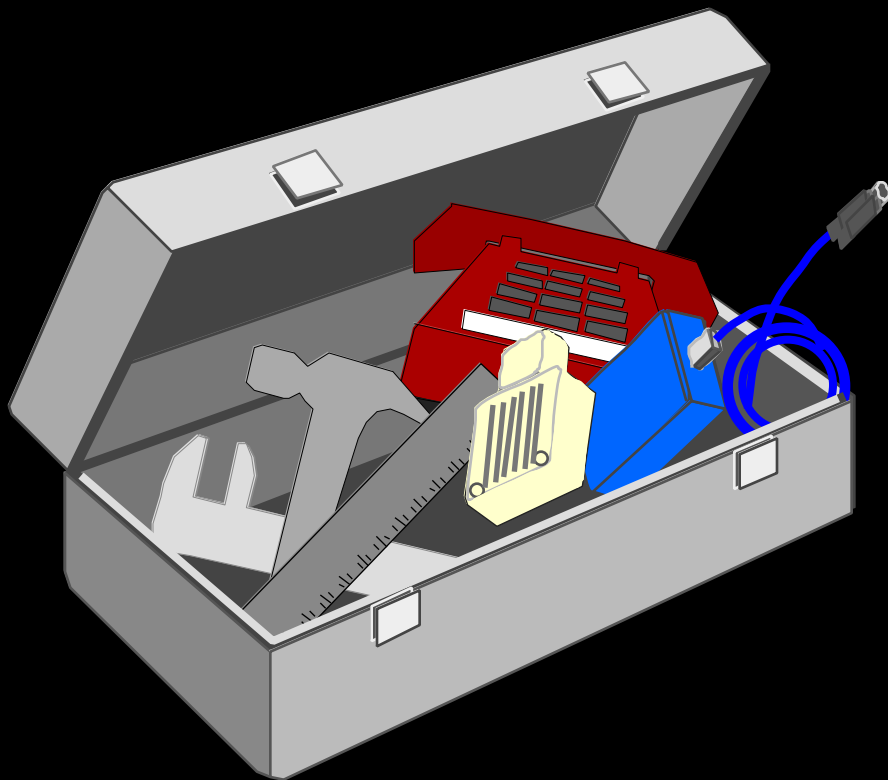
Communications Toolbox  
Project Scapegoat

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# Demonstration



# Questions?





The power to be your best