Tech Info Library

ARA 2.0.1 MultiPort Server: Specifications (5/94)

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Revised:        5/2/94
Security:       Everyone
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TOPIC ---

This article provides the technical specifications and order information for Apple Remote Access (ARA) 2.0.1 MultiPort Server.

DISCUSSION --

Technical Specifications

Administrator control and monitoring
• Ability to monitor and manage server activity by port and user
• Ability to broadcast messages or send them to selected users
• Ability to adjust connection time by user
• Ability to disconnect any single user or all users
• Built-in Simple Network Management Protocol (SNMP), enabling you to
  monitor the server from any SNMP-based network management station

Security
• User name and password authentication
• Adjustable password length
• Filtering of network services by account
• Ability to disallow client use of Save Password option
• Account disable after specified number of password failures
• Password aging
• External security architecture (for example, for providing
  challenge-and-response authentication through a third-party security
  module)
• Callback feature that verifies the user's identity by returning calls to
  a predetermined phone number
• Activity log for recording user and server activities
• Administrative password option

Modem support and scripts
• Supports any Hayes-compatible 9,600-bps or higher-speed modem with the

appropriate script. Modem scripts for many popular modems are included:
- V.fast modems: Motorola Codex 3260 Fast
- V.32bis modems (14,400 bps): Hayes Ultra 144, Motorola Codex 3260, US Robotics Courier V.32bis
- V.32 modems (9,600 bps): Hayes Ultra 96, Telebit T1600, UDS/Motorola 3225, UDS/Motorola 3227, US Robotics Sportster, US Robotics Worldport
- ISDN support: Hayes ISDN adapter
- 9,600-bps or higher-speed scripts included with the Apple Remote Access Client for Macintosh can also be used with the Apple Remote Access MultiPort Server
- Additional scripts may be available. Contact an authorized Apple reseller or representative or your modem manufacturer for more details.
- Administrators or other programmers familiar with connection control languages (CCLs) can also write the necessary scripts using the Apple Remote Access Modem Scripting Guide and Modem Workshop software, which are included with the Apple Remote Access MultiPort Server.

Network types supported
- Support for any AppleTalk network; the most common network choices include:
  - LocalTalk
  - Ethernet
  - Token Ring

Connection types supported
- Support for a range of connection types:
  - Standard telephone
  - Cellular*
  - X.25*
  - ISDN*

Error detection/Data compression
- Includes several built-in components that allow for error-free and optimized delivery of data
  - Smart buffering (developed by Apple Computer, Inc.) for data-transfer optimization
  - MNP, an industry standard for error detection
  - V.42bis, an industry standard for data compression

Specifications
- Maximum number of simultaneous connections: 16
- User name maximum length: 31 characters
- Password maximum length: 8 characters
- Total number of user records: 8,192
- Maximum connect time: selectable
- Maximum number of activity log entries: 32,767

Licensing information
- Comes with license to install Apple Remote Access MultiPort software on a single Macintosh and to install Apple Remote Access Client for Macintosh software on up to four systems
- Additional client software must be purchased or licensed separately; consult your authorized Apple reseller or representative for information

Operating requirements
For the server side
• A Macintosh computer with one or more NuBus slots and at least 5MB of
  RAM, a Power Macintosh computer, or a Workgroup Server. For
  configurations with more than four ports, additional memory is required,
  and a high-performance system is recommended**.
• Macintosh system software version 7.0 or later (version 7.1 or later
  recommended)
• A hard disk drive and an Apple SuperDrive floppy disk drive
• Apple Remote Access Serial Card and Apple RS-232 Cable
• One or more Hayes-compatible 9,600 bps/V.32 or higher-speed modems
• Apple Remote Access Client for Macintosh

For the client side
• A Macintosh Plus or later model with at least 4MB of RAM or a Power
  Macintosh computer
• Macintosh system software version 7.0 or later
• A hard disk drive
• An Apple or other Hayes-compatible modem (2,400 bps minimum; 9,600 bps or
  higher recommended) and appropriate modem cable, if needed

* X.25 support requires purchase of Apple Remote Access MultiPort Server
  X.25 Extension; ISDN or cellular support requires additional third-party
  products.

** Support for Macintosh computers that require 7-inch NuBus cards may not
   be available at this time; consult your authorized Apple reseller or
   representative.

Ordering Information

Apple Remote Access MultiPort Server
Order No. M5214Z/B
• Apple Remote Access MultiPort Server software and installer (includes
  support for four ports)
• Apple Remote Access Client for Macintosh software and installer (with
  license to install software on up to four client systems); additional
  client software can be purchased separately
• Apple Remote Access Serial Card
• Apple RS-232 Cable

Apple Remote Access MultiPort Server 4-Port Expansion Kit
(Includes Apple Remote Access Serial Card and Apple RS-232 Cable)
Order No. M2384Z/B
  Expands your Apple Remote Access MultiPort Server by four ports—up to a
  maximum of 16 ports

Apple Remote Access MultiPort Server X.25 Extension
Order No. M1998Z/A
  Adds X.25 dial-in capability to your Apple Remote Access MultiPort Server
  and Client software. (Not available for Power Macintosh computers or
  Workgroup Servers 6150, 8150, or 9150.)

Apple Remote Access Client for Macintosh (single-pack)
Order No. M5227Z/B

Apple Remote Access Client for Macintosh 10-Pack
Order No. M2692Z/B

Apple Remote Access Client for Macintosh (Volume Licensing)
  Client software can be volume licensed separately for quantities of 50 or
  more users; consult your authorized Apple reseller or representative for
  purchasing information.

Support Information Services

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