



# Apple Remote Access MultiPort Server

## Features

### Ease of installation and use

- Takes only minutes to set up a server and to add users or ports as needed
- Provides built-in context sensitive help

### Multilevel security

- Provides a variety of sophisticated security features, making it one of the most secure remote access servers available
- Is supported by leading third-party security vendors, so administrators can choose to augment its built-in capabilities with additional security modules

### Scalable solution

- Turns a single Macintosh computer into a server that can support from 4 to 16 simultaneous dial-up connections<sup>1</sup>
- Runs on a variety of Macintosh computers, so you can choose the system that's appropriate for your needs

### Powerful administrative capabilities

- Allows flexible port configurations
- Offers comprehensive, user management facilities
- Supports industry-standard SNMP
- Tracks resource usage and automatically generates an activity log that can be exported for further analysis

### Flexible client capabilities

- Supports a variety of connections, including cellular, X.25 and ISDN<sup>2</sup>
- Is fully integrated with Macintosh System 7™, so remote users can work with such familiar tools as the Chooser, Alias Manager and the Finder™

<sup>1</sup>The Apple Remote Access MultiPort Server includes support for 4 ports. Support for 8, 12 or 16 ports requires purchase of 1, 2 or 3 Apple Remote Access MultiPort Server 4-Port Expansion Kits respectively.

<sup>2</sup>X.25, ISDN and cellular connections require additional Apple or third-party products.

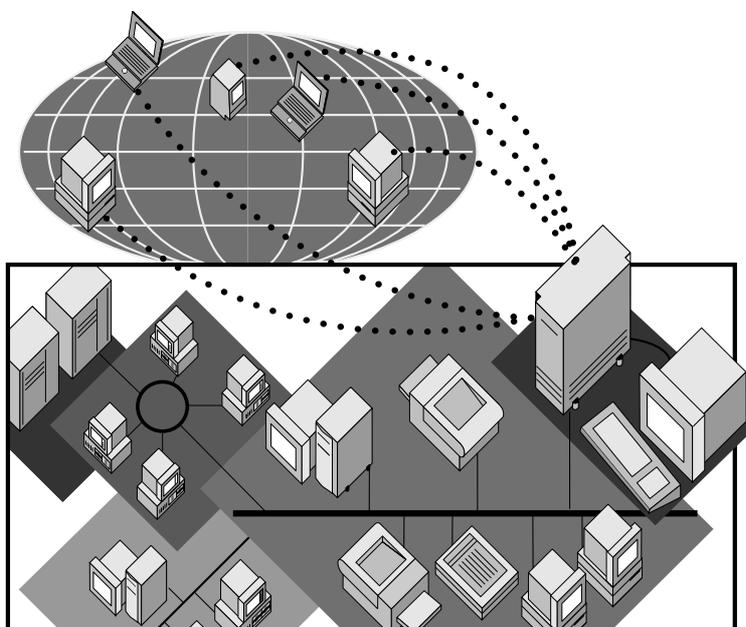
The Apple™ Remote Access MultiPort Server provides a flexible, scalable and secure way to offer network access to large numbers of remote or mobile users. Used in conjunction with one or more Apple Remote Access Serial Cards, it converts a single Apple Macintosh™ computer into a server that can support from 4 to 16 simultaneous dial-up connections.<sup>1</sup> This makes it an ideal solution for workgroups or entire organisations that want to enable employees to work productively and efficiently no matter what their location — whether they're at home, out of town or even out of the country.

Unlike conventional complex server software, the Apple Remote Access MultiPort Server is designed to streamline administrative tasks, while maximising administrator productivity and control. The software installs in minutes and features sophisticated management capabilities, including industry-standard Simple Network Management Protocol (SNMP) support. This allows administrators to flexibly manage and maintain connections. Adding ports is simple, and the server

features an automatically generated activity log that can be exported to a variety of programs for further analysis.

On the client side, the Apple Remote Access Client for Macintosh software is also designed with efficiency and productivity in mind. From its single step installation to such productivity enhancing features as full System 7 integration and extensive connection management capabilities, it provides everything users need to help them get their work done easily and efficiently — wherever they are.

Users can also be confident that their work will be secure. The Apple Remote Access MultiPort Server offers a host of sophisticated security features that allow administrators to maintain the integrity of the network. These features — such as password aging, location validation and the ability to filter access to services — make it one of the most secure remote access servers available. And because its security architecture is supported by leading third-party security vendors, administrators can choose to augment the server's built-in security features with additional challenge-and-response security modules.





# Apple Remote Access MultiPort Server

## Ordering Information

### Apple Remote Access MultiPort Server

- Apple Remote Access MultiPort Server software and installer (includes support for four ports)<sup>1</sup>
- 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 Administrator's Guide*
- *Apple Remote Access Modem Scripting Guide*
- *Apple Remote Access Client for Macintosh User's Guide* (four copies)

### Apple Remote Access MultiPort Server 4-Port Expansion Kit

*(Includes Apple Remote Access Serial Card and Apple RS-232 Cable)*

Expands your Apple Remote Access MultiPort Server by four ports — up to a maximum of 16 ports<sup>2</sup>

### Apple Remote Access MultiPort Server X.25 Extension

Adds X.25 dial-in capability to your Apple Remote Access MultiPort Server and Client software

### Apple Remote Access Client for Macintosh (single-pack)

### Apple Remote Access Client for Macintosh 10 Pack

### Apple Remote Access Client for Macintosh (Volume Licensing)

Client software can be volume licensed separately through the ClarisPlus programme. Consult your local distributor for purchasing information.

<sup>1</sup>The Apple Remote Access MultiPort Server includes support for 4 ports. Support for 8, 12 or 16 ports requires purchase of 1, 2 or 3 Apple Remote Access MultiPort Server 4-Port Expansion Kits respectively.



Mac OS

Claris International, Inc. is a distributor of Apple software products.

For further information, please call 0800 422322

## 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, 9600 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 adaptor
- 9600 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 Apple Authorised Reseller 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<sup>2</sup>
  - X.25<sup>2</sup>
  - ISDN<sup>2</sup>

### Error detection/Data compression

- Includes several built-in components that allow for error-free and optimised delivery of data
  - Smart buffering (developed by Apple Computer, Inc.) for data transfer optimisation
  - 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

### Operating requirements

#### For the server side

- A Macintosh computer with one or more NuBus™ slots and at least 5MB of RAM (for configurations with more than four ports, additional memory is required, and a high performance system is recommended)<sup>3</sup>
- 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, 9600 bps/V.32 or higher-speed modems
- Apple Remote Access Client software version 2.0

#### For the client side

- A Macintosh Plus or later model with at least 4MB of RAM
- Macintosh system software version 7.0 or later
- A hard disk drive
- An Apple or other Hayes compatible modem (2400 bps minimum; 9600 bps or higher recommended) and appropriate modem cable, if needed

<sup>2</sup>X.25 support requires purchase of Apple Remote Access MultiPort Server X.25 Extension; ISDN or cellular support requires additional third-party products.

<sup>3</sup>Support for Macintosh computers that require 7 inch NuBus cards may not be available at this time; consult your Apple Authorised Reseller or representative.

