

### Macintosh-To-Novell NetWare With AppleTalk (Part 1 Of 3)

Revised: 5/10/89
Security: Everyone

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This is the first of three parts.

Many users have asked about connecting Macintosh to a Novell network, and for up-to-date information on the status of Macintosh NetWare.

The ability of AppleTalk to communicate over broadband networks is done by using:

- A FastPath (AppleTalk-to-Ethernet converter).
- 2. A broadband multiplexer (like those sold by Allen-Bradley: VistaMap 10MBps).
- 3. Another broadband multiplexer to convert the signal back on to Ethernet.
- 4. A receiving FastPath to convert back onto AppleTalk.

Complete information about NetWare can be obtained by connecting to the Novell demo BBS. The number is (800) 444-4472

Compatibility settings are: 8 bits, parity=none, stops=1, 1200-baud; the access code is NVSOF4.

Here is a brief overview of the Novell information:

With 32 Original Equipment Manufacturers (OEMs) reselling NetWare and with an installed base of over 145,000 file server-based networks, NetWare has become an unofficial standard in the LAN industry.

Netware-Supported Configurations

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The following is a list of NetWare-supported networks.

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#### BASEBAND NETWORKS

Linear Bus Networks

Asher-G AST PCnet II AST-RSN
AST Starport AST Turbostar AT&T StarLAN

Codenoll Ethernet Cordata InterNet Link Cordata InterNet Link 286

Corvus Omninet Gateway G-Net IBM PC Cluster IBM PC Network Baseband MICOM-Interlan Ethernet NEC Omninet

Networth vLAN Networth Elan North Star Dimension

Novell NetWare Ethernet Novell NetWare G-Net Orchid PCnet

Racal-Milgo PLANET Racore LAN Pac Santa Clara PCnet/Ethernet

Texas Instruments Ethernet Torus Ethernet 3Com EtherLink 3Com EtherLink Plus Ungermann-Bass Net/ Unisys Usernet-86

Univation StarLAN One Ethernet Western Digital StarLAN

#### TOKEN-PASSING NETWORKS

Asher-P Star Networks:

Comterm ARCNET

Davong Multilink

IBM Token-Ring

Novell S-Net

Kaypro ARCNET

Nestar PLAN 2000

Proteon ProNET-10
Pure Data ARCNET
Standard Microsyste

Novell NetWare RX-Net Proteon ProNET-4

Standard Microsystems ARCnet

Torus Token-Ring

BROADBAND NETWORKS

Linear Bus Networks

IBM PC Network Sytek System 6000 Allen-Bradley Vista

### IBM Personal System/2

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Advanced NetWare and System Fault Tolerant NetWare provide workstation and file server support for IBM's Personal System/2 series of microcomputer products. Novell also offers a software bridge to link the IBM PC network, the new Token-Ring Network, and other NetWare-supported networks.

Netware Operating System Software

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Just as DOS was designed specifically for standalone workstations, NetWare was designed specifically for networking. The NetWare operating system runs

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in the file server, which manages shared resources. DOS runs in the workstations, allowing for local processing.

A software component called the NetWare "shell" lets the file server communicate with DOS and application software in the workstations. The shell sends DOS functions to the workstation, but sends NetWare functions to the file server to be handled by the LAN operating system. NetWare remains unchanged, regardless of what software is running in the workstations, which is why NetWare can support many hardware types, and can support multiple versions of DOS on the network simultaneously.

NetWare operating system software offers several powerful features, including DOS 3.x compatibility. DOS compatibility allows multiuser software applications that are developed for DOS to run unmodified on NetWare. Another feature, internal bridging, permits as many as four networks to bridge through the file server.

NetWare is fully compatible with NetBIOS, an industry standard that controls the way software interfaces with IBM and IBM-compatible networks. NetWare's NetBIOS compatibility means that NetWare supports all software and hardware designed around NetBIOS, including software and hardware developed for the IBM PC and Token-Ring networks.

This article is continued in "Macintosh-To-Novell Netware With AppleTalk, Part 2 of 3."

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