NeXT CONNECTIVITY SOLUTIONS GUIDE

NeXT Connectivity Solutions Guide Overview

This document describes, in general terms, connectivity products developed by NeXT and third parties that are available for use with NEXTSTEP networks. For specific technical and purchasing information, please refer the vendor contact.

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This guide is updated quarterly. You can use the information retrieval services described below to obtain the latest update.

This guide and many other kinds of information are also available from NeXTanswers, NeXT's free document-retrieval system. For NeXTanswers by fax, call (415) 780-3990 from a touch-tone phone. For NeXTanswers by Internet mail, send e-mail to nextanswers@next.com with the two-word subject: INDEX HELP.

If you would like to learn more about mail connectivity, see the *NeXTmail Connectivity Guide.* For more information on database connectivity,see the *NeXT Database Solutions Guide*. Both guides are available from NeXTanswers.

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NeXT Connectivity Products Guide

Table Legend

PRODUCT	CONTACT	PRICING	AVAILABILITY				PRODUCT DESCRIPTION
			Intel	HP	OS	M68K	

PRODUCT	Product Name
CONTACT	Vendor and contact for literature and detailed information concerning pricing and availability.
PRICING	Type of product and/or pricing information.
AVAILABILITY	Intel = Intel 486/Pentium-based PCs running NEXTSTEP for Intel Processors. HP = HP PA-RISC based Computers running NEXTSTEP for HP PA-RISC OS = OpenStep M68K = NeXT Computers
PRODUCT DESCRIPTION	Brief summary of product capabilities and functionality.

Networking and Connectivity Products

Connectivity and Emulation

PRODUCT	CONTACT	PRICING	AVAILABILITY				PRODUCT DESCRIPTION
			Intel	HP	OS	M68K	
ASCIIVision	Conextions, Inc. 508-689-3570 508-689-2450 fax info@conextions.com	call	Q3 '94	Q3 '94	committed	Q3 '94	ASCIIVision™ is an integrated NEXTSTEP application that provides concurrent terminal access to up to 64 ASCII hosts. ASCIIVision combines full-featured terminal emulation (VT100™, VT220™, VT320™, and others) with advanced productivity options and file transfer facilities. ASCIIVision provides seamless integration of host resources into the NEXTSTEP operating environment. File transfer options include X/Y/Z Modem, Kermit, and FTP protocol support, as well as unattended and batch file transfer facilities. ASCIIVision users can access hosts through a variety of network and dial-up configuration options. The ASCIIVisionAPI™ interface allows users to create their own custom applications that provide seamless integration of AS/400, IBM mainframe, and ASCII host information and resources. ASCIIVision offers its users a variety of methods and options to enhance their interaction with hosts and to increase efficiency and productivity. A drag-and-drop graphical keyboard editor, SoftKeys, UserKey macros, Smart Copy and Paste options, and on-screen keyboard panels give ASCIIVision users the power and flexibility they need for maximum productivity.
BSI-NS6530	Bowden Systems, Inc.. 404-870-9105 404-870-9108 fax 404-870-9005 fax bowden@bsi.com	$489 one user $889 two users $439 additional users	production			production	BSI-ns6530™ is a Tandem terminal emulator that provides full 6530 emulation in the NEXTSTEP environment. This includes both conversational and block-mode support, cut and paste between windows, print screen, and multiple session capabilities. The NEXTSTEP computer is connected to the Tandem by the TCP/IP protocol.
CABLES	Yirrid Inc. 1-800-443-0065 919-968-7858 919-986-7856 fax info@yirrid.com	call	Q4 '94			production	Cables is the definitive terminal emulation and communications application for NEXTSTEP. Cables includes support for VT320/220/102, IBM 3270, ANSI-PC, DG Dasher™ D210, Tektronix™ 4010/4014; UNIX tty, pty, telnet client; remote serial port use; X-, Y-, and ZModem; Kermit; full color; complete and accurate emulations with character sets and keyboard mapping; drag-and-drop configurations; and more. With accuracy, robustness, and ease of use, Cables is the clear choice for your interoperability and legacy application needs. Inquire for additional information, custom work, and objects.

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COAXACCESS-PC	Conextions, Inc. 508-689-3570 508-689-2450 fax info@conextions.com	call	Q4 '94			production	The CoaxAccess-PC™ gateway provides NEXTSTEP computers with easy access to IBM mainframes in traditional SNA networks. The CoaxAccess-PC solution conforms to the Open Systems architecture and supports industry standard 3270 Coax adapter cards from manufacturers such as IBM, Attachmate, and DCA. CoaxAccess-PC employs a client/server architecture and allows multiple NEXTSTEP computers, as well as any other TN3270 clients on the network, to share a CoaxAccess-PC gateway when accessing their IBM mainframe. A "pool" of IBM mainframe sessions is available to any network-attached client on a first-come, first-served basis. The CoaxAccess-PC gateway conforms to the IBM Distributed Function Terminal (DFT) protocol and provides a pool of five IBM mainframe sessions for each 3270 Coax adapter card installed. Each CoaxAccess-PC gateway supports up to four 3270 Coax adapters for a total of 20 pooled sessions offering a single point for network administration, management, and control. An unlimited number of servers can be configured on the same network.
COMMUNICAE	Active Ingredients, Inc. 617-576-2000 617-861-8967 fax info@active.com	$395	production	Q3 '94		production	Communicae™ is a high-performance communication package for NEXTSTEP, including complete DEC VT220 and Tektronix 4010/4014 terminal emulation, and standard file transfer protocols. It can be used as a virtual terminal logged into NEXTSTEP itself, or to log into information services and mainframe systems that are not connected to an Ethernet. Communicae is ideal whenever serial communications are required. Communicae supports all documented VT features, including host computer setup control; region scroll; U.S., graphic, and multinational character sets; VT52 mode; full application keypad support; insert/delete line and character; full printer control; 132-column mode, and true double-high/wide character emulation. Keyboard support includes on-screen keypad, full PC keyboard, key remapping, and user-defined key macros. Communicae's Tektronix emulation intelligently creates PostScript from the often-arbitrary graphic output that the host displays. These images may be cut, pasted, and saved as EPS. XModem, YModem, ZModem, Kermit, ASCII, and external file transfer protocols are supported.

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CONNECT IT!	Black Market Technologies, Inc. 718-522-5090 718-852-4249 fax info@bmt.gun.com Paget Press 1-800-733-2031 206-448-0845 206-448-2350 fax inorders@paget.com	$145	production	Q3 '94	Q1 '95	production	Connect It!™ sets up all UUCP and UNIX files necessary to exchange e-mail with other NEXTSTEP and UNIX computers. Connect It! is easy for even nontechnical users. All you need is a supported modem and a working modem cable. Connect It! sets up UUCP, sendmail, remote dial-in, and other UNIX services. You can schedule your system to check for e-mail even when you're not logged in and can easily customize your connection to access a remote e-mail server through a terminal server. Connect It! supports most Telebit™, Zyxel™, USR Sportster™, Intel, Supra, HSD/Abaton, Dove, and 100 percent Hayes-compatible modems. Best of all, you do not need technical experience to use Connect It! Connect It! is perfect for students and professors with off-campus computers; regional offices that exchange e-mail with the central office; work-at-home managers and programmers; and system administrators who manage e-mail gateways. Academic discounts are available.
CO-XIST	Pencom Software 1-800-736-2664 512-343-6666 512-343-9650 fax co-Xist_info @pencom.com	$195 Base $295 Runtime $445 Developer	production	Q4 '94		production	co-Xist™, a complete implementation of the X Window System™ (X11R5) for NEXTSTEP, allows users to access hundreds of X-based applications on hardware platforms including HP, Sun, DEC, and IBM. Customer-proven and robust, co-Xist offers a range of display options for optimum performance. To meet the varied needs of end users, co-Xist comes in three cost-effective packages. With the most complete user and development environment available, users can build their own X and Motif™ applications or compile existing source to run native. Other features include: full compliance with X11R5 specifications, color and grayscale support, cut-and-paste text capabilities, support for popular window managers, on-line documentation formatted for Digital Librarian™, an application Launch Panel, and context-sensitive help. Fast service and support is available via a toll-free phone, fax, or e-mail. Developed and supported by Pencom Software, a leading Open Systems software services provider and extensive co-Xist user. The Base Package contains X only, the Runtime Package includes X and Motif, and the Developer Package includes the full system.

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CUB'X-WINDOW	Intuitive Systems, Inc. 415-852-0245 415-852-1271 fax cubx@intuisys.com	$250 - $590	production	Q3 '94		production	Cub'X-Window™ Version 4.4 provides the fastest X11R5 X Window client/server solution for computers running NEXTSTEP. Recent evaluations show that Cub'X-Window not only is the fastest X Window solution on NeXT hardware but also maintains its superiority on Intel-based platforms. With its great speed and a wide range of functionalities, Cub'X-Window truly ensures the continuity of your X11 applications on NEXTSTEP. Cub'X-Window allows you to run X applications locally on your computer under NEXTSTEP or to display X applications running on other X Window machines on your network, such as Sun, DEC, and HP. You can also develop or compile X applications on computers under NEXTSTEP with the Cub'X-Window Development Tools module. Cub'X-Window supports Tab Window Manager (twm) and OSF/Motif 1.2. Cub'X-Window provides numerous options to display your X applications in full screen or within the NEXTSTEP environment. Its functionality includes text cut/copy/paste between environments, function key emulation, X Application launcher, host access limitation, manual pages accessible under Digital Librarian, grab of X screens as TIFF files, NEXTSTEP Services, and more. Academic discounts are available.
DAYDREAM	QUIX Computerware AG 201-928-0420 +41(41) 34-88-43 +41(41) 34-86-80 fax quix @applelink.apple.com	$655				production	Daydream™ lets NeXT computer users take advantage of the software written for the Apple Macintosh computer. It allows every kind of Macintosh application, utility, or system software to run on NeXT hardware. By using an off-the-shelf version of Apple's System 7.1™ and licensed AppleROM chips, Daydream is perfectly compatible with existing Macintosh software.It runs more than 500 Macintosh applications, while providing full access to networks, SCSI peripherals (such as scanners and removables), floppy disk drives, modems, and the existing NeXT 400 dpi Laser Printer. Users are impressed by the ease of use and performance when they compare Daydream with Apple's high-end Quadra™ line. For a long time, NeXT customers have demanded access to high-quality, low-cost productivity applications—Daydream now satisfies this requirement. Not only applications, but the entire Apple System 7 runs on your hardware, with services like aliases, publish-and-subscribe, Apple Events, Balloon Help™ and file sharing. Academic and quantity discounts are available.

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EMISSARY	Information Technologies Solutions, Inc. 1-800-394-4487 312-474-7700 312-474-9361 fax info@its.com	call	Q3 '94			Q3 '94	Emissary™ is the NEXTSTEP client for HP OpenMail™, providing complete access to the extensive feature list of the world-class electronic mail system, in addition to being fully compatible with NeXTmail formats. Highlight features include: message categorization (priority/sensitivity/importance); centralized message store; phonetic and wildcard address matching; acknowledgements (delivered/read/forwarded/replied-to/deleted); deferred mailing; loop detection; automatic actions/filing/forward/replies); multiple message parts (including attachments) of unlimited size; nested messages and mail folders; and connectivity with Lotus cc:Mail, Microsoft Mail, and OpenMail on Macintosh, MS-DOS®, MS Windows, HP-UX, and Solaris—plus UNIX mail of just about every kind known today. OpenMail provides standards-based, open system messaging services. OpenMail is built around the X.400 standard and is designed for enterprise-wide electronic information distribution. OpenMail is scalable, reliable, and economical to set up and administer. OpenMail provides dependable and reliable transport of communications between client and server components. Expect on-time delivery to the right recipient, the first time, every time.
EXECUTOR	ARDI 505-766-9115 505-247-1899 fax questions@ardi.com	$500	production	Q3 '94	committed	production	The Executor® emulator is a software emulation of Apple Computer, Inc.'s Macintosh computer. If you come from a Macintosh background, or work with colleagues who do, you should investigate the Executor emulator. Academic pricing is available.
INTEROFFICE MESSAGE EXCHANGE	The Boston Software Works, Inc. 617-482-9898 617-542-7956 fax	$4500 $29,500	Q3 '94			production	Boston Software Works InterOFFICE® Message Exchange products transparently connect a wide variety of office automation and electronic mail systems, such as NeXTmail, Lotus cc:Mail, Microsoft Mail, Banyan® VINES®, StreetTalk™, DEC ALL-IN-1™, IBM OfficeVision™, HP OpenMail, HP DeskManager™, Wang OFFICE™, X.400, and SMTP. Features include automatic and user-transparent directory synchronization, registration of sender addresses, and document conversion.
LIGHTSPEED FOR NEXT	Lightspeed 805-324-4291 805-324-1437 fax sales@macsoft.com	$2000-$18,000	production			production	Lightspeed connects NEXTSTEP users to Wang's VS® line of minicomputers. Up to 32 users may access the VS through a single gateway PC with an installed WLOC card. Lightspeed includes virtual terminal emulation, file transfer, and document conversion to WordPerfect. Lightspeed is tier priced per VS.

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LIGHTSPEED MAIL GATEWAY FOR NEXT	Lightspeed 805-324-4291 805-324-1437 fax sales@macsoft.com	$2000-$18,000	production			production	Lightspeed connects NEXTSTEP users to Wang's VS line of minicomputers. Up to 32 users may access the VS through a single gateway PC with an installed WLOC card. Lightspeed includes virtual terminal emulation, file transfer, and document conversion to WordPerfect. Lightspeed is tier priced per VS.
LORITEL	Lorienne +33 (1 49) 85 03 76 +33 (1 49) 85 05 14 fax contact @lorienne.oleane.com	Standard $ 450 Network $1800	production			production	LORITEL is a VIDEOTEX emulation for the French Teletel standard. Thanks to a V23 Modem, Loritel allows you to be connected over standard telephone line to use the Videotex services. Features include: • Network access • Advanced printing • Service calling-number recording • Session Recording • User customization • Teletel and PAD X3 compatibility
MAPIWARE FOR NEXTSTEP	ISOCOR 310-ISOCOR1 310-476-2671 310-472-1055 fax ISOCOR, Dublin +353 (1) 284-3802 +353 (1) 280-0365 fax	$95-$295 per user	Q4 '94	Q1 '95	committed	Q4 '94	MAPIWARE for NEXTSTEP is a comprehensive set of user and administrative tools providing true multimedia electronic messaging from the desktop using any combination of private or public networks worldwide. Based on the 1988 X.400 standards coupled with the Multipurpose Internet Mail Extensions (MIME), MAPIWARE is a full implementation of the Messaging Application Programming Interface (MAPI) first developed by Microsoft for Windows™ Chicago. Now this rich client/server messaging environment is available to the NEXTSTEP user. ISOCOR offers a user interface called ISOPRO for NEXTSTEP, which brings the X.400 feature set to the screen and can handle transfer of binary files of almost any size and type plus EDI, e-mail, faxing, and security features for commercial and government applications. ISOPRO can be used with ISOCOR's ISOPLEX Directory Services using X.500. MAPIWARE for NEXTSTEP requires ISOCOR's ISOPLEX messaging server or other server accessible via MAPI Provider modules. Pricing is based on the volume licensed.
MICROPHONE PRO	Software Ventures 512-837-9784 512-837-8102 fax product @svcdudes.com	$195	production	Q3 '94	committed	production	MicroPhone™ Pro Version 1.1 for NEXTSTEP lets you easily connect to remote services, send and receive electronic mail, automate your daily communications with scripting, and take advantage of NEXTSTEP features to build your own dynamic front-ends to remote computers. MicroPhone supports multiple sessions and has a 30-day money back guarantee.

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			Intel	HP	OS	M68K	
PARTNER	Information Presentation Technologies, Inc 805-541-3000 805-541-3037 fax info@iptech.com	$395 and up	production			production	Partner™ is the premier solution for networking NEXTSTEP and Macintosh computers. Partner provides NEXTSTEP users with the only available bidirectional file-sharing and printing product on the market. If cross-platform connectivity and interoperability concern you, Partner is your best solution. Partner gives NEXTSTEP users access to AppleShare® volumes and published Macintosh System 7 volumes. Simply select the NET directory, AppleTalk®, the desired AppleTalk Zone, and finally the desired Macintosh volume. Macintosh files will appear as just another folder. With Partner Plus, a NEXTSTEP computer can function as an AppleShare file server, and printing is bidirectional. In addition, Macintosh print jobs are spooled to the NEXTSTEP computer, allowing the Macintosh to get back to work quickly. Partner Plus also provides a simple e-mail interface, allowing the Macintosh to reach out to anywhere the NEXTSTEP computer will reach.
PRANCER	Inherent Technologies, Inc. 503-224-6751 503-274-4622 fax prancer@inherent.com	$89.95	Q3 '94	Q4 '94		production	Prancer™ is a commercial NEXTSTEP terminal interface for Data General mainframes. A fully compatible Data General DASHER™ terminal emulator, Prancer implements a variety of features to ease daily access to a Data General mainframe, as well as easing daily access to the NEXTSTEP command line. There are many features designed with the power user in mind, including keyboard control of the scrollback buffer, a move-to-focus mouse option, dynamic command-line–based title bar configuration, true reverse video, and a simple GUI access to all Preferences settings. The Intel version also supports function key mapping on the keyboard.

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			Intel	HP	OS	M68K	
SOFTPC	Insignia Solutions, Inc. 508-682-7600 508-688-8924 fax Insignia Solutions UK +44 (494) 459 426 +44 (494) 459 720 fax	$549 M68K $249 Intel	production			production	SoftPC® Version 3.1 for NEXTSTEP for Intel Processors lets you use the latest version of your MS-DOS and Windows applications while you run NEXTSTEP on your PC. SoftPC 3.1 is optimized to take advantage of the native Intel hardware, supports all DOS and Windows applications compliant with DPMI (DOS Protect Mode Interface), and includes network support for Novell IPX and LAN Workplace DOS TCP/IP. With SoftPC, you can easily copy and paste text and graphics between NEXTSTEP applications and PC programs such as CorelDraw, dBFast, Excel, and Object Vision. The software includes special Insignia Windows and mouse drivers that optimize the performance of graphics-intensive applications. SoftPC supports extended and expanded memory for DOS applications requiring more than 640 kilobytes, PC floppy disks and PC CD-ROMs, and serial and parallel ports. Support for VGA graphics with 256 colors provides increased display resolution with crisp, vibrant graphics. A special resizable window under Windows allows you to easily expand the window to the display's limits. You can also access PC CD-ROMs in Microsoft CD-ROM extension format, which supports ISO 9660 and High Sierra. A demonstration verion of Soft PC ships with NEXTSTEP Release 3.2. SoftPC 3.0 is available for any 68040-based NeXT computer. In addition to the features listed above, SoftPC for NEXTSTEP emulates an Intel processor in real mode and protected mode, as well as a floating point processor for enhanced math calculations. Quantity discounts are available.
STUART-PRO	Inherent Technologies, Inc. 503 -224-6751 503-274-4622 fax stuartpro@ inherent.techlaw.com	$89.95	Q3 '94	Q4 '94		production	Stuart-Pro™ is a commercial-strength, fully supported and documented version of the popular shareware Stuart terminal emulator. Created by one of the original NEXTSTEP Terminal authors, Stuart-Pro is a fully compatible DEC VT100 terminal emulator, which implements a variety of features to ease day-to-day usage of the NEXTSTEP command line and remote hosts. Many features are designed and implemented with the power user and NEXTSTEP developer in mind, including keyboard control of scrollback buffers, a move-to-focus mouse option, dynamic window title bar configuration, reverse video, and true VT100 graphics characters, including double-high and double-wide lines.

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			Intel	HP	OS	M68K	
SUMMON!	BenaTong 614-276-7859 614-276-7859 fax info@benatong.com	$149.95	production	Q3 '94	committed	production	Summon! is a new application for contacting people when important things happen. You can use it as a desktop application to access the various paging networks to send your paging message. The user interface includes a database that stores clients' different pager numbers and access codes. Individuals can be added into groups for group or mass paging. Mass pages and/or individual pages can all be sent with just a few mouse clicks and button presses. Canned messages, such as "call the office when convenient" or "call immediately," can be stored for even faster, more convenient paging. Summon! also comes with a command-line version so your own custom applications can issue a page when an event occurs. The programmer's application programming interface to Summon! can also be made available for programmatic connection to the paging daemon. Summon! works with alphanumeric, numeric, and Skypage pagers.
TIPTOP	TipTop Software 301-656-3837 301-656-3837 fax tiptop@tiptop.com	$185	production	Q3 '94	committed	production	TipTop™ is an extensible telecommunication and terminal emulation program. ANSI, DEC VT102, and VT220 emulations, all with ANSI color support, are included. TipTop allows multiple serial port (modem) connections and shell sessions. The easy-to-use GUI includes standard NEXTSTEP user interface features. The terminal window features a toolbar, scrollback buffer, find panel, and changeable fonts. The built-in PhoneBook facilitates easy and convenient configuration of communication parameters, window appearance, and other settings. Flexible keyboard mapping allows you to redefine any key as any character, string of characters, or script. TipTop comes with a powerful script programming language based on Tcl, Expect, and Objective-C languages. An automatic script generator makes it easy to create basic scripts. The scripting language can run Michael O'Reilly's term program, which allows simultaneous SLIP-like connections to a remote UNIX site. Bundled file transfer protocols include X-, Y-, and ZModem. Any external transfer protocol can be used with TipTop. The transfer application programming interface included allows external transfer protocols to be fully graphically integrated with TipTop.

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TTYDSP	Yrrid Inc. 1-800-443-0065 919-968-7858 919-968-7856 fax yrrid@world.std.com	$189				production	TTYDSP is a software/hardware combination that converts a NeXT computer DSP into a high-speed asynchronous RS-232 port. Capable of speeds up to 128,000 baud, TTYDSP emulates a NEXTSTEP tty driver providing compatibility for a wide range of communications applications, such as SLIP/PPP and UUCP. High-speed modem and ISDN users will appreciate TTYDSP's efficient use of the DSP, increasing throughput and reliability while decreasing main CPU load. TTYDSP is available only for NeXT 680x0-based hardware with the 56001 DSP.
UNIVERSAL MAIL	Software Services and Solutions, Inc. 203-630-2000 203-630-2020 fax sss@sss.com Paget Press 1-800-733-2031 206-448-0845 206-448-2350 fax inorders@paget.com	$195	production	Q3 '94	committed	production	UniversalMail™ is a mutithreaded, client/server-based electronic mail system that allows NEXTSTEP users to exchange secure multimedia mail with NEXTSTEP and Sun computers, other MIME-based mail hosts, and other systems. UniversalMail consists of a mail agent and associated preprocessing programs that allow delay-free mail access over a slow network, as well as plug-in encryption and multimedia translation modules, and intelligent mail archiving. UniversalMail's database of recipients and their mail readers' capabilities and public keys automates much of the sending and receiving process. Multi-user and site licenses are available at discounts.
VTX FOR NEXTSTEP	AL-Datentechnik +49 (531) 34-38-23 +49 (531) 34-25-94 fax	call	call			production	VTX, a software emulation of a videotex user terminal, allows access to videotex services based on the CEPT standard, such as the German Bildschirmtext system called Datex-J. All terminal functions can be controlled via the keyboard or mouse. The contents of a terminal window can be saved or printed as a PostScript file. Videotex pages stored on disk in CEPT format can also be displayed and converted to PostScript. The functions of a basic alpha-mosaic display are implemented: 335 alphanumeric, 151 mosaic characters, 94/84 DRCS, 32 foreground colors, 32 background colors, 4 character sizes, underlining, inverting, and scrolling. Supported display formats include: 20 x 40, 24 x 48, 20 x 80, and 24 x 80. A minimum of a 1200-baud modem is required. Some videotex services also require a user identification code. VTX is not available in the U.S.

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WE-D320	workstation ag +41 (1) 828-9555 +41 (1) 828-95700 info@wag.ch	call	production	Q3 '94	committed	production	WE-D320® provides VT320 terminal emulation for NeXT and Intel 486/586 systems. WE-D320 implements all the DEC VT100, VT220, and VT320 terminal commands, including oversized characters and foreign fonts. Graphics utilities are provided for keyboard mapping, macro definitions, and color editing. Both printer output and screen hardcopies are converted either to ASCII or PostScript and can be routed to a printer, spooler, or data file. The resizable emulation window can be surrounded with buttons whose functions and labels can be defined by the user. The application interface (WE-DAPI™) and scripting language (WE-DSCRIPT™) provided can be used to implement functions such as auto-logon and automatic answers to system queries. The WE-D320 allows NEXTSTATION™ users access to applications requiring VT320 terminal access.
WE-UTSC/ WE-UTSG	workstation ag +41 (1) 828-9555 +41 (1) 828-95700 info@wag.ch	call	production	Q3 '94	committed	production	workstation ag in Switzerland offers a family of UNISYS® UTS® emulation products for NeXT and Intel 486/586 systems. WE-UTS® emulates all character terminals from the Uniscope to the SVT in 132-column mode.WE-UTSg adds the UTS60® color graphics. Both products provide graphic utilities for keyboard mapping, macro definitions, and color editing. Both printer output and screen hardcopies are converted to ACSII or PostScript and can be routed to a printer, spooler, or data file. The resizable emulation window can be surrounded with buttons whose functions and labels can be defined by the user. The application interface (WE-UAPI™) and script language (WE-USCRIPT™) provided can be used to implement functions such as auto-logon and automatic answers to system queries. The companion WE-COMD™ server emulates the communication protocols required to connect a UNISYS mainframe via TCP/IP.X.25 and UDLC connections to TCP/IP, Token Ring, X.25 (QLLC), and coax (DFT).

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			Intel	HP	OS	M68K	
WE-3179C/ WE-3179G	workstation ag +41 (1) 828-9555 +41 (1) 828-95700 info@wag.ch	call	production	Q3 '94	committed	production	workstation ag in Switzerland offers a family of IBM 3270® emulation products for NeXT and Intel 486/586 systems. A character-only (WE-3179C®) and a graphic (WE-3179G®) version of the terminal are available. 3287™ printer emulation is also provided. All the products provide graphic utilities for keyboard mapping, macro definitions, and color editing. Both printer output and screen hardcopies are converted to ACSII or PostScript and can be routed to a printer, spooler, or data file. The resizable emulation window can be surrounded with buttons whose functions and labels can be defined by the user. IND$FILE file transfer protocol as well as WE-HLLAPI™ (a fairly complete subset of IBM's xHLLAPI) and WE-SCRIPT™ (a script language on WE-HLLAPI) are implemented. The companion WE-COMD™ server emulates the 3174™ controller and allows connections to TCP/IP, Token Ring, X.25 (QLLC), and coax (DFT).
3270BUILDER	Conextions, Inc. 508-689-3570 508-689-2450 fax info@conextions.com	call	production	Q3 '94	committed	production	3270Builder™ is an advanced development tool for building GUI front-ends for legacy mainframe applications. Fully compliant with the NEXTSTEP Database Kit and Application Kit, 3270Builder makes the process of building distributed mainframe applications as easy as dragging and dropping an Interface Builder palette object. Utilizing advanced pattern recognition algorithms, 3270Builder automatically produces Database Kit models for mainframe applications by analyzing 3270 screens and the keystrokes necessary for their traversal. Users simply assign appropriate field names to screen regions on individual or multiple screens. Transparently, 3270Builder builds a sophisticated data access tree and stores it as a Database Kit model for access by Interface Builder and runtime applications. 3270Builder takes advantage of Conextions' CX3270™ object to provide high-performance access to multiple IBM applications concurrently. The result is a powerful, yet, easy-to-use tool for building custom 3270 applications that are fully integrated into the NEXTSTEP environment.

Networking and Connectivity Products

Connectivity and Emulation

PRODUCT	CONTACT	PRICING	AVAILABILITY				PRODUCT DESCRIPTION
			Intel	HP	OS	M68K	
3270VISION	Conextions, Inc. 508-689-3570 508-689-2450 fax info@conextions.com	call	production	Q3 '94	committed	production	3270Vision™ is an integrated NEXTSTEP application that provides transparent IBM mainframe access over SNA and TCP/IP networks. It combines advanced 3270 terminal emulation with NEXTSTEP's power and ease of use and offers a variety of productivity features for seamless integration of mainframe resources into the NEXTSTEP operating environment. 3270Vision users can access their IBM mainframe through a variety of networks and gateways. Conextions' CoaxAccess-PC™ gateway connects NEXTSTEP computers to IBM 3x74 Terminal Controllers in traditional SNA networks. 3270Vision also supports TCP/IP Gateways from vendors such as Apertus, Interlink, IBM, and OpenConnect Systems℠ 3270Vision offers its users a variety of methods and options to enhance their interaction with IBM mainframes and to increase efficiency and productivity. Font management, window resizing, detachable submenus, command-key equivalents, keyboard panels, and User Keys give 3270Vision users the power and flexibility they need for maximum productivity. Comprehensive file transfer services are also provided, including support for unattended and batch jobs.
5250BUILDER	Conextions, Inc. 508-689-3570 508-689-2450 fax info@conextions.com	call	Q3 '94	Q3 '94	committed	Q3 '94	5250Builder™ is an advanced development tool for building GUI front-ends for IBM AS/400 applications. Fully compliant with the NEXTSTEP Database Kit and Application Kit, 5250Builder makes the process of building distributed AS/400 applications as easy as dragging and dropping an Interface Builder palette object. Utilizing advanced pattern recognition algorithms, 5250Builder automatically produces Database Kit models for AS/400 applications by analyzing 5250 screens and the keystrokes necessary for their traversal. Users simply assign appropriate field names to screen regions on individual or multiple screens. Transparently, 5250Builder builds a sophisticated data access tree and stores it as a Database Kit model for access by Interface Builder and runtime applications. 5250Builder takes advantage of Conextions' 5250Adapter™ to provide high-performance access to multiple AS/400 applications on one or more hosts concurrently. The result is a powerful, yet easy-to-use tool for building custom 5250 applications that are fully integrated into the NEXTSTEP environment.

Networking and Connectivity Products

Connectivity and Emulation

PRODUCT	CONTACT	PRICING	AVAILABILITY				PRODUCT DESCRIPTION
			Intel	HP	OS	M68K	
5250VISION	Conextions, Inc. 508-689-3570 508-689-2450 fax info@conextions.com	call	production	Q3 '94	committed	production	5250Vision™ is an integrated NEXTSTEP application that provides transparent access to IBM AS/400 midrange systems over SNA and TCP/IP networks. It combines advanced 5250 terminal emulation with NEXTSTEP's power and ease of use and offers a variety of productivity features for seamless integration of AS/400 resources into the NEXTSTEP operating environment. 5250Vision offers IBM 5250, 5292, and the advanced 3290 Information Display emulation. Both the 5292 and 3290 emulation modes support color and Extended Attributes, including bold, blinking, reverse video, and underscore. Operating in the 3290 mode, users can interact with up to four sessions in a single window. 5250Vision offers its users a variety of methods and options to enhance interaction with AS/400 hosts and to increase their efficiency and productivity. Font management, window resizing, detachable submenus, Command key equivalents, Keyboard panels, and User Keys give 5250Vision users the power and flexibility they need for maximum productivity.

Networking and Connectivity Products

Connectivity and System Administration

PRODUCT	CONTACT	PRICING	AVAILABILITY				PRODUCT DESCRIPTION
			Intel	HP	OS	M68K	
AGENT	Ridgeback Solutions 310-456-6094 310-456-9715 fax errol@ridgeback.com Alembic Systems International 1-800-452-7608 303-799-6223 info@alembic.com	$120	production			production	AGeNT™ is the only extensive SNMP (Simple Network Management Protocol) agent for NEXTSTEP. AGeNT is MIB-II–compliant (RFCs 1213,1213) and allows seamless integration of NEXTSTEP computers into an SNMP managed environment. Its comprehensive private extensions provide detailed information on swap files, file systems, processes, login status, virtual memory status, and CPU utilization. AGeNT is fully compatible with SNMP network management systems such as HP Openview™, SunNet Manager™, and IBM Netview 6000™. AGeNT is tightly integrated with NetWatch™, Ridgeback's highly regarded SNMP monitoring application for NEXTSTEP. Academic discounts and substantial discounts for multiple-unit orders are available.
EMASTER+	Cogent Data Technologies, Inc. 206-378-2929 206-378-2882 fax sales@cogentdata.com	$498 EM935 EISA XL $198 EM960 PCI TP $249 EM960 PCI $698 EM964 PCI	production				Cogent's ultimate-performance eMASTER+ Ethernet adapters for EISA and PCI Local Bus workstations and servers supply the increased bandwidth that mission-critical NEXTSTEP applications require in order to provide timely and accurate information. With the highest throughput and lowest CPU utilization, eMASTER+ adapters are unbeatable for NEXTSTEP networks demanding the greatest performance possible. Cogent's eMASTER+ adapters for NEXTSTEP are available in a variety of models with connectors for thick and thin coax and twisted pair networks. The EM935 EISA XL is the first EISA adapter in the industry to achieve a 33 megabytes-per-second burst data rate, making it the fastest EISA Ethernet adapter available. Cogent's 32-bit EM960 PCI TP and EM960 PCI combo are the first Ethernet adapters available to put the power of PCI on the network. The combo includes connectors for all three cable types (twisted pair, AUI, and BNC). EM964 PCI Quartet, Cogent's new four-port PCI adapter, was recently awarded Best of Show at NetWorld + Interop from McGraw-Hill for its innovative use of PCI technology to maximize server performance. For PCMCIA laptops and portables running NEXTSTEP, the EM595 PCMCIA adapter will be available Q3 1994.

Networking and Connectivity Products

Connectivity and System Administration

PRODUCT	CONTACT	PRICING	AVAILABILITY				PRODUCT DESCRIPTION
			Intel	HP	OS	M68K	
ENTAR	Impact Software Publishing, Inc. 1-800-822-3385 718-472-0600 718-472-0160 fax info@impact.com	call	production			production	enTar™ will painlessly back up your files and directories onto mass storage devices. enTar works with DAT, 8-mm, and other SCSI tape devices, as well as with floppy, optical, and other removable disks. In addition, enTar can back up your data to networked disks. Because enTar automatically configures tape devices, it works with most SCSI tape devices. enTar can back up multiple files and directories into a single file and can browse and selectively restore files within the single backup. enTar also features UNIX data compression and tar formats for backups so that backup data can be exchanged with other UNIX systems, such as Sun or IBM.
FILESYSTEM EXCHANGE	Software Services and Solutions, Inc. 203-630-2000 203-630-2020 fax sss@sss.com Paget Press 1-800-733-2031 206-448-0845 206-448-2350 fax inorders@paget.com	$249	production	Q3 '94	committed	production	FileSystemExchange™ allows your NEXTSTEP-based computer to read disks from Sun and other UNIX workstations. FileSystemExchange provides true universal data interchange between the major UNIX workstation file-system formats. FileSystemExchange is available across a wide variety of platforms and operating systems, and FileSystemExchange supports an ever-expanding set of file-system types. One year of free updates, as new file systems are added, is included. FileSystemExchange is sold under a floating license for maximum convenience to the user. The listed price is for a single-user license to a multi-architecture binary (all architectures). Multi-user and site licenses are available at discounts.
LOADEYE	Aurora Software 1-800-578-4809 608-231-3679 608-231-1183 fax info@as.com Alembic Systems International 1-800-452-7608 303-799-6223 303-799-1435 fax info@alembic.com Paget Press 1-800-733-2031 206-448-0845 206-448-2350 fax inorders@paget.com		production	Q3 '94	committed	production	LoadEye™ is a system load monitor for computers running NEXTSTEP. By displaying continuously updated histograms of system load information, LoadEye allows users and system administrators to readily monitor changes in system load. LoadEye 1.1 features an improved mechanism for monitoring the system load on multiple computers connected to a network. Benefits include operation over non-NetInfo™ networks and elimination of the requirement that LoadEye be installed on remote computers. LoadEye is completely configurable and supports both Mach factor and UNIX system load average. System load information is displayed in the application icon when the application is hidden. A detailed description of how system loads are computed is available through NEXTSTEP Help.

Networking and Connectivity Products

Connectivity and System Administration

PRODUCT	CONTACT	PRICING	AVAILABILITY				PRODUCT DESCRIPTION
			Intel	HP	OS	M68K	
MIX	i•link GmbH +49 (30) 216-2048 +49 (30) 215-8274 fax info@ilink.de	$545 and up	production			production	mix™ is the computer-integrated telephone system that combines fax, modem, telephone service, and voice mail. mix can turn your computer into a powerful telephone-handling system. mix consists of a small hardware box and several software modules. mixdata™ replaces a conventional 2400 bps data modem for e-mail and data transfer. mixfax™ lets you send and receive high-quality fax pages with up to 9600 bps. mixcall™ serves as an advanced digital telephone answering and voice mail system, with extensions such as call forwarding, fax on demand, interactive information providing, order management, and remote control. The fax, voice, and data functions all run in software on the DSP. This concept leads to very high integration and flexibility: all telecommunication services are closely linked to provide features not found in conventional devices. The automatic service detection of mix switches incoming calls to modem, fax, or telephone system. mix for Intel requires the i56 DSP and sound card.
MORNING STAR PPP	Morning Star Technologies, Inc. 1-800-558-7827 614-451-1883 614-459-5054 fax Marketing @MorningStar.com	$795	production	Q4 '94		production	Morning Star PPP products are designed to provide the customer with a reliable package that can be configured as either a client or server for wide-area TCP/IP communications. This means that a single workstation running Morning Star PPP can act as an IP terminal server or router to a number of remote users. The same system can simultaneously initiate a call to another location or network, routing IP packets to the remote destination. PPP includes the following security features: enables link-level peer authentication by PAP or CHAP; filters packets and logs by protocol, source, destination, source routing, and so on; tunnels hidden network via TCP over the Internet; encrypts traffic between known-secure networks; negotiates through security barriers such as SecureID; and returns appropriate ICMP Destination Unreachable codes.
NETINFO EDITIONS	Xedoc Software Development Pty. Ltd. +61 (3) 696-2490 +61 (3) 696-6757 fax netinfo@xedoc.com.au NeXT Computer, Inc. 1-800-848-NeXT 1-800-848-6398 415-424-8500	$2500 and up per server	production			production	NeXT's world-class system administration software is now available for Sun, Auspex, Solbourne, HP Series 700 & 800, SGI, IBM RS/6000, and DEC Alpha. Xedoc NetInfo Editions are developed under license from NeXT and are 100 percent compatible. Use graphical NEXTSTEP Release 3.X tools to administer your entire network centrally, on the server instead of having to purchase dedicated NEXTSTEP systems. NetInfo is ideal for heterogeneous networks of ten or more UNIX or NEXTSTEP workstations. Now with NIS Emulation in version 2.0, NetInfo Editions are completely drop-in-compatible with NIS, providing support for a wider range of UNIX systems than ever before. Call for information about distribution in North America and about quantity discounts.

Networking and Connectivity Products

Connectivity and System Administration

PRODUCT	CONTACT	PRICING	AVAILABILITY				PRODUCT DESCRIPTION
			Intel	HP	OS	M68K	
NETWATCH	Ridgeback Solutions 310-456-6094 310-456-9715 fax errol@ridgeback.com Alembic Systems International 1-800-452-7608 303-799-6223 info@alembic.com	$1,995	production			production	NetWatch™ is the first SNMP (Simple Network Management Protocol) manager for NEXTSTEP. It supports MIB-II compliance (RFCs 1213,1213) and contains comprehensive user-defined hierarchical topology maps with user-defined background graphics and device icons. NetWatch will automatically discover all devices in NetInfo and monitor routers, bridges, concentrators, or any device with SNMP capability. Alarms can be set for any MIB-I or MIB-II variable. All alarm events are written to a detailed alarm log. Actions resulting from alarms include: dial a pager, send e-mail, and run a user program. NetWatch is tightly integrated with Ridgeback's SNMP AGeNT, which enables NetWatch to monitor workstations running NEXTSTEP. AGeNT allows the system administrator to automatically monitor and generate alarms for: a process dying, login status, swap file size, free disk space, virtual memory status, and CPU utilization. NetWatch is fully compatible with HP Openview, SunNet Manager, and IBM Netview 6000 SNMP management systems, allowing seamless integration of computers running NEXTSTEP into an SNMP managed environment. Academic discounts are available.
NETWORK BACKUP MANAGER	Teledia, Inc. 412-321-5850 412-321-5851 fax	Call	production			production	Network Backup Manager™ is an essential system administration tool to automatically back up multiplatform networks. The NEXTSTEP user-friendly interface saves time and helps avoid mistakes. Network Backup Manager's optimized incremental strategies solve network bandwidth problems. Its complete tape management system enables fast recovery of any file or hard drive and handles optical disks as well as magnetic tapes. It allows unattended operation with optional OD juke boxes or tape stackers. The product features: • Backup though a TCP/IP network • Nonproprietary UNIX backup • Customized backup strategies • Optimization of increments and of network traffic • Independence from backup hardware • Tape checking, labeling, and recycling • Communication with operators through electronic mail • Remote control through an application programming interface • Low-level communication protocol that doesn't require NFS • Fast, secure, unattended operation

Networking and Connectivity Products

Connectivity and System Administration

PRODUCT	CONTACT	PRICING	AVAILABILITY				PRODUCT DESCRIPTION
			Intel	HP	OS	M68K	
NIST SYNCHRONICITY	SmartSoft, Inc. 1-800-424-8864 414-964-8864 414-964-8879 fax info@smartsoft.com Alembic Systems International 1-800-452-7608 303-799-6223 info@alembic.com	$30 per user $65 network version $40 per PA-RISC, OPENSTEP user	production	Q3 '94	committed	production	NIST Synchronicity™ is a Preferences panel module that will set your NEXTSTEP system clock or network time to the nation's official time by making a modem call to National Institute of Standards and Technology's cesium clock in Boulder, Colorado. Synchronicity will slowly speed up or slow down the computer's time until it matches the actual time, rather than resetting the computer's clock, which can cause problems with NFS and other network-based protocols. NIST Synchronicity offers a NEXTSTEP interface via the Preferences application, but its functionality can be activated via a cron script or the command line. The software is also able to synchronize the clock to an NTP time server available through the network.
POWER GUARDIAN	BenaTong 614-276-7859 614-276-7859 fax info@benatong.com	$149.95	production	Q3 '94	committed	production	PowerGuardian™ for NEXTSTEP monitors uninterruptable power supplies (UPSes) and performs an unattended, orderly system shutdown. PowerGuardian works with American Power Conversion's Smart-UPS™, Back-UPS™, and network PowerCell™ and with UPSes from Oneac. TrippLite support for BEST will be added soon. PowerGuardian incorporates the following features: • Unattended system shutdown • System shutdown scripts that allow users to specify tasks to perform prior to the automatic orderly shutdown • UPS shutdown after system • Power event logging • Regularly scheduled UPS tests • Power quality logging and data collection • Graphical display of volts, load, and battery capacity Used with APC's Smart UPS series or the Oneac UPS, PowerGuardian utilizes all of the UPS's features for reporting of capacity, use levels, and status. When the status of the UPS changes to battery, the power failure notification and shutdown scripts execute at user-defined set points of capacity and/or time since line voltage failure. Shutdown occurs after all other specified tasks have been completed. Should power resume before system shutdown, the power resume script is executed to notify all clients monitoring the UPS that power has been restored. PowerGuardian takes full advantage of NEXTSTEP's Distributed Objects to allow multiple clients to monitor any UPS on the network.

Networking and Connectivity Products

Connectivity and System Administration

PRODUCT	CONTACT	PRICING	AVAILABILITY				PRODUCT DESCRIPTION
			Intel	HP	OS	M68K	
SAFETYNET	Systemix Software, Inc 1-800-509-0039 410-290-8813 410-290-8934 fax info@systemix.com	$149 Personal $399 Professional	production	Q3 '94		production	SafetyNet™ is the award-winning file system backup and archiving application for computers running the NEXTSTEP operating system. SafetyNet provides sophisticated capabilities with point-and-click simplicity. SafetyNet maintains on-line catalogs so you can browse backup tapes as easily as your hard disk. SafetyNet can retrieve a file in seconds, rather than hours, by using the tape drive's high-speed seeking capability to position the tape. Automatic overnight backups can be scheduled using SafetyNet's drag-and-drop schedule tool. SafetyNet received a *NeXTWORLD* magazine 1993 Best of Breed award. SafetyNet supports all NEXTSTEP platforms and is compatible with all DAT (4-mm) and 8-mm tape drives. SafetyNet is available in both Professional and Personal versions. With SafetyNet-Professional, which is perfect for networks of computers running NEXTSTEP, you can back up any mounted UNIX file system, local or NFS. SafetyNet-Personal will back up any locally mounted UNIX file system.
SCREENCAST	Otherwise 206-647-9436 206-738-6017 fax screencast @otherwise.com	$160	production	Q3 '94	committed	production	ScreenCast™ broadcasts what's on the display of one NEXTSTEP computer to one or more other computers on the same network. Everything that appears on the sender's display—typing, window movements, mouse actions—is simultaneously echoed on the receiving computers. The number of receivers that can participate in a ScreenCast session is limited only by network bandwidth. The receiving computers can do more, however, than just echo the image of the sender's display. Each participant in a ScreenCast session can also interact with the shared image. Typing and mouse actions on any machine in the group appear on all machines. ScreenCast is perfect for providing user support within an organization. Support personnel can troubleshoot problems by viewing a copy of the user's display and watching—or guiding—the user's actions. ScreenCast is invaluable for performing remote system adminstration. The remote computer can be manipulated as if you were there in person. ScreenCast is also great for educational computer labs. Students can easily monitor the instructor's display by watching their individual computer screens.

Networking and Connectivity Products

Connectivity and System Administration

PRODUCT	CONTACT	PRICING	AVAILABILITY				PRODUCT DESCRIPTION
			Intel	HP	OS	M68K	
THE FORMATTER	ABComputers/ Cubiculum Systems 401-521-2829 401-272-2262 fax 412-488-3611 fax info@cubiculum.com rcfa@andi.org	$45	call			production	TheFormatter™ for Wren™ is a highly useful tool to install and optimize the Wren hard disk drives of Seagate™ Technology, Inc. in your NEXTSTEP computer. TheFormatter is designed to give you access to all the advanced features of these reasonably priced, high-performance drives. It allows the user to set all the relevant drive characteristics—such as cache control, defective sector reallocation parameters, and sector size—from an easy-to-use NEXTSTEP user interface. Academic discounts are available.
TRUELINK	Lorienne +33 (1 49) 85 03 76 +33 (1 49) 85 05 14 fax contact @lorienne.oleane.com	Standard $ 720 Network $1800	production			production	TrueLink is a TCP/IP bridge between ethernet networks, through the serial line. TrueLink allows you to connect local networks or an isolated workstation with a modem (300 to 38.400 Bauds). TrueLink is packaged with an installation interface and is NetInfo consistent. TrueLink connects NeXT networks through serial line. All LAN services are available : file sharing, electronic mail, client /server applications, etc.
UUCP MANAGER	Software Services and Solutions, Inc. 203-630-2000 203-630-2020 fax sss@sss.com Paget Press 1-800-733-2031 206-448-0845 206-448-2350 fax inorders@paget.com	$75	production	Q3 '94	committed	production	UUCPManager™ allows system administrators to manage the security and efficiency of their UUCP connections to the world. Outgoing electronic mail and UUCP messages can be examined, reordered for delivery precedence, deleted, or redirected. Adjustable search constraints allow UUCPManager to work as efficiently for large corporate gateways as for single-user machines. UUCPManager provides a summary view of outgoing traffic similar to the NeXTmail viewer. The summary display for the messages can be reconfigured easily to customize UUCPManager for particular tasks. A filter system makes it easy to track groups of UUCP messages, such as all those with a specific destination. A simple drag and drop reorders message delivery precedence. Redirecting traffic to a more efficient route and deleting messages are accomplished with a few clicks of the mouse. UUCPManager is a module for the WANManage™ Open Network Management Framework. UUCPManager can be purchased separately or bundled with WANManage and other networking modules, such as WANConfigure™, as a complete starter solution.

Networking and Connectivity Products

Connectivity and System Administration

PRODUCT	CONTACT	PRICING	AVAILABILITY				PRODUCT DESCRIPTION
			Intel	HP	OS	M68K	
WAN CONFIGURE	Software Services and Solutions, Inc. 203-630-2000 203-630-2020 fax sss@sss.com Paget Press 1-800-733-2031 206-448-0845 206-448-2350 fax inorders@paget.com	$75	production	Q3 '94	committed	production	WANConfigure™ allows any NEXTSTEP user to set up electronic mail connections, without having to know about sendmail, modem configuration, or NetInfo. WANConfigure intelligently configures the Wide Area Network (UUCP) and electronic mail system. The user need only be concerned with e-mail objectives; WANConfigure handles the details of configuration and setup. WANConfigure handles all types of intercomputer and internetwork UUCP connections. Configuration for commercial e-mail services is especially easy with WANConfigure's single-button configuration for UUNET, NETCOM, and other popular services. WANConfigure's exclusive money-saving Call-by-Cost™ feature allows you to gain control of telephone and connectivity expenses by storing mail and only making calls during low-rate periods. WANConfigure knows the rate structures and plans of the primary long-distance carriers and is extensible to learn about additional carriers. WANConfigure is a module for the WANManage Open Network Management Framework. The listed price is for a single-user license to a multi-architecture binary (all architectures). WANConfigure can be purchased separately, or bundled with WANManage and other networking modules, such as UUCPManager, as a complete starter solution.
WANMANAGE	Software Services and Solutions, Inc. 203-630-2000 203-630-2020 fax sss@sss.com Paget Press 1-800-733-2031 206-448-0845 206-448-2350 fax inorders@paget.com	$35	production	Q3 '94	committed	production	WANManage™ provides an open framework for network management. Administrators with WANManage on their dock have a single, well-structured interface to the management tools appropriate for their network. With WANManage, you pay for and add only the network management modules you need. That can mean big savings on a network management suite best suited to your needs. The WANManage Open Network Management Framework has a published interface for new modules. This allows third parties and even users to develop a wide variety of networking modules, such as SNMP consoles and Internet routing managers, for integration with WANManage. WANManage tools have full access to a rich set of networking and display methods, which encourages a standard look and feel across all WANManage tools. The first two WANManange modules, WANConfigure and UUCPManager, are available now from Software Services and Solutions, Inc. The listed price is for a single-user license to a multi-architecture binary (all architectures). Multi-user and site licenses are available at discounts.

Table Legend

	Connectivity Category
HARDWARE	Required hardware components
SOFTWARE	Required software products
FEATURES AND BENEFITS	Overview of features and benefits
SETUP COMMENTS	Additional comments
PROTOCOLS	Support networking protocols
SOLUTIONS	List of supported solution categories

X.25

	X.25
HARDWARE	MorningStar SnapLink
SOFTWARE	MorningStar X.25
FEATURES AND BENEFITS	Allows connectivity into and over X.25 networks
SETUP COMMENTS	Can be used with IP or X.28/X.29 mode, depending on application
PROTOCOLS	tcp/ip, X.3/X.28 PAD interface, X.29
SOLUTIONS	

Printing	File-Sharing	File-Transfer
YES	YES	YES

Dial-UP IP

Dial-Up IP

HARDWARE	Modem on Serial-Port. For more details on modems, see NEXTSTEP Network and System Administration, Menlo Park, CA: Addison-Wesley, 1992
SOFTWARE	MorningStar PPP, Transsys PNI, Lorienne TrueLink
FEATURES AND BENEFITS	Allows LAN to LAN connection, or remote computing
SETUP COMMENTS	gated optional
PROTOCOLS	tcp/ip

SOLUTIONS

Printing	File-Sharing	File-Transfer
YES	YES	YES

Netware

	Netware
HARDWARE	No additional hardware required
SOFTWARE	NUC is part of the NEXTSTEP software release
FEATURES AND BENEFITS	Connectivity to Netware file and printservers
SETUP COMMENTS	See NEXTSTEP Network and System Administration, Menlo Park, CA: Addison-Wesley, 1992
PROTOCOLS	IPX/SPX
SOLUTIONS	

Printing	File-Sharing	File-Transfer
YES	YES	YES

IBM

	IBM
HARDWARE	IBM or compatible Terminal Servers, Conextions CoaxAccess Gateway
SOFTWARE	Conextions 3270/5250 Products, Workstation AG WE-3279C/WE-3179G, Yrrid Cables
FEATURES AND BENEFITS	Connectivity to IBM mainframe and AS400 systems
SETUP COMMENTS	See Conextions' *IBM Connectivity Guide* for details
PROTOCOLS	tcp/ip, SNA
SOLUTIONS	3270 and 5250-Terminal Emulation, File Transfer, and Custom Application Development Tools (Conextions)

WANG

	WANG
HARDWARE	PC gateway (part of Lightspeed for NeXT)
SOFTWARE	MacSoft Lightspeed for NeXT WANG VS TCP Interconnect (doesn't require additional hardware or software)
FEATURES AND BENEFITS	WANG connectivity
SETUP COMMENTS	none
PROTOCOLS	WLOC, tcp/ip
SOLUTIONS	Terminal Emulation

Printing	File-Sharing	File-Transfer
YES	NO	YES

AppleTalk

	AppleTalk
HARDWARE	No additional hardware required
SOFTWARE	IPT Partner
FEATURES AND BENEFITS	Connects NEXTSTEP users to AppleTalk networks
SETUP COMMENTS	none
PROTOCOLS	AppleTalk, AppleShare
SOLUTIONS	

Printing	File-Sharing	File-Transfer
YES	YES	YES

PC

DOS / Windows

HARDWARE

No additional hardware required

SOFTWARE

Pathway Access / Pathway Client NFS / Pathway Server NFS
The Wollongong Group, Inc.
1129 San Antonio Road
Palo Alto, CA 94303
Tel: (415) 962-7100
Fax: (415) 962-5547
E-mail: sales@twg.com

BW-TCP / BW-NFS
Beame & Whiteside Software
706 Hillsborough Street
Raleigh, NC 27603
Tel: (919) 831-8989
Fax: (919) 831-8990
E-mail: sales@bws.com

PC-NFS
SunSelect
Two Elizabeth Drive
Chelmsford, MA 01824
Tel: (508) 442-2300
Fax: (508) 250-2300

Chameleon / ChameleonNFS
NetManage Inc.
10725 North De Anza Blvd.
Cupertino, CA 95014
Tel: (408) 973-7171
Fax: (408) 257-6405

PC/TCP
ftp Software, Inc.
2 High Street
North Andover, MA 01845
Tel: (508) 685-3300
Fax: (508) 794-4488
E-mail: info@ftp.com

FEATURES AND BENEFITS

Allows PCs to connect to tcp/ip based networks and services

SETUP COMMENTS

Most packages available for DOS and Windows; no software is needed on NEXTSTEP

PROTOCOLS

tcp/ip

SOLUTIONS

Printing	File-Sharing	File-Transfer
NO	YES	YES

LAN Manager

HARDWARE	No additional hardware required
SOFTWARE	Microsoft LAN Manager Services for Macintosh (server side) IPT Partner (client side)
FEATURES AND BENEFITS	Connectivity to LAN Manager based networks
SETUP COMMENTS	All communications is based on the appleshare protocol
PROTOCOLS	AppleTalk, AppleShare

SOLUTIONS

Printing	File-Sharing	File-Transfer
YES	YES	YES

Windows NT

	Windows NT
HARDWARE	No additional hardware required
SOFTWARE	NetManage ChameleonNFS
FEATURES AND BENEFITS	Connectivity to Windows NT Advanced Server based networks
SETUP COMMENTS	Software is installed on the Windows NT Advanced Server, no software needed on the NS client
PROTOCOLS	tcp/ip

SOLUTIONS

Printing	File-Sharing	File-Transfer
YES	YES	YES

OS/2

	OS/2
HARDWARE	No additional hardware required
SOFTWARE	IBM TCP/IP for OS/2
FEATURES AND BENEFITS	Allows OS/2 based PCs to connect to tcp/ip based networks and services
SETUP COMMENTS	No software is needed on NEXTSTEP
PROTOCOLS	tcp/ip
SOLUTIONS	

Printing	File-Sharing	File-Transfer
NO	YES	YES

Banyan VINES

Banyan VINES

HARDWARE

No additional hardware required

SOFTWARE

NFS for VINES
UNIX to VINES Printing
Intelligent SNMP Mail Gateway
FTP for VINES

Incognito Software Inc.
#200 1128 Hornby Street
Vancouver, B.C., CANADA V6Z 2L4
Tel: (604) 688-4332
Fax: (604) 688-4339

FEATURES AND BENEFITS

Allows NEXTSTEP users to access Banyan VINES services

SETUP COMMENTS

Server-based software, no special software is needed on NEXTSTEP clients

PROTOCOLS

tcp/ip, VINES

SOLUTIONS

Printing	File-Sharing	File-Transfer
YES	YES	YES

Routers / Bridges / Gateways

HARDWARE

Routers, Bridges, Gateways, and similar products come in a wide variety of flavors. For specific solutions, you might want to investigate some of the vendors mentioned below. This list is by no means complete and does not represent an endorsment by NeXT.

SynOptics Communications, Inc.
4401 Great America Pkwy.
P.O.Box 58185
Santa Clara, CA 95054
Tel: (408) 988-2400
Fax: (408) 988-5525

Cabletron Systems, Inc.
570 South Clearwater West
Post Falls, ID 83854
Tel: (208) 773-1711
Fax: (208) 773-4001
E-mail: sales@ctron.com

Cisco Systems, Inc.
P.O. Box 3075
1525 O'Brien Drive
Menlo Park, CA 94026
Tel: (415) 326-1941
Fax: (415) 326-1989

Telebit Corporation
1315 Chesapeake Terrace
Sunnyvale, CA 94089
Tel: (408) 734-4333
Fax: (408) 734-3333

SOFTWARE

No additional software is needed

FEATURES AND BENEFITS

Building blocks of LAN and WAN networks

SETUP COMMENTS

none

PROTOCOLS

multiple

SOLUTIONS

Printing	File-Sharing	File-Transfer
YES	YES	YES

ISDN

ISDN

HARDWARE

ISDN Modems are connected to the serial ports like analog modems.

NICCY 3000 TI

Dr. Neuhaus Microelektronik GmbH
Tel: +49 (40) 55 304 0
Fax: +49 (40) 55 304 180

Hayes ISDN System Adapter

Hayes Microcopmuter Products, Inc.
(415) 974-5544

SOFTWARE

MorningStar PPP, Transys PNI, or Lorienne TrueLink(see Dial-Up IP for details)

FEATURES AND BENEFITS

Allows for high-speed serial connections over ISDN

SETUP COMMENTS

none

PROTOCOLS

tcp/ip

SOLUTIONS

Printing	File-Sharing	File-Transfer
YES	YES	YES

Terminal Server

Terminal Server

HARDWARE

scsiTerminal Server
Central Data
1602 Newton Drive
Champaign, IL 61821-1098
Tel: (217) 359-8010 x203
Fax: (217) 359-6904

SOFTWARE

MorningStar PPP, Transys PNI, or Lorienne TrueLink (see also Dial-Up IP)

UUCP, tip, and other command-line utilities

FEATURES AND BENEFITS

Allows for high-speed serial connections

SETUP COMMENTS

Device is connected to the SCSI-bus

PROTOCOLS

tcp/ip

SOLUTIONS

Printing	File-Sharing	File-Transfer
YES	YES	YES

Networking and Connectivity Glossary

Glossary

5250 is a terminal family used to connect to IBM AS/400 systems.

3270 is a terminal family and communications environment used with IBM mainframes.

10BaseT is a standard for ethernet technology using twisted-pair media.

AppleTalk is a set of networking protocol developed by Apple Computer.

AppleShare Apple Computer's networking services, such as file sharing and printing.

ATM (Asynchronous Transfer Mode) is a high-speed packet-switching technology that uses fixed-length, 53-byte cells to transmit digital information. ATM will be important for broadband public networks and for corporate networks. It will bring sufficient bandwidth to the desktop to support multimedia applications.

Bridges store and forward frames (Ethernet packets) between local networks.

CCITT (Comité Consulative International Télégraphique et Téléphonique) is an international networking recommendations body. X.25 and V.24 are examples of its recognized standards.

Concentrators permit you to position machines closer together on a network cable than is otherwise possible. If you use twisted-pair cable, you need a concentrator

Dialup-IP allows Internet protocol connections over on-demand networks, such as phone-lines.

Ethernet is a cable and access network standard for LANs set by the IEEE.

Gated is a routing daemon that handles multiple routing protocols.

Gateways store and forward packets between dissimilar networks, typically translating between products.

Hubs See *Concentrator*.

IEEE (Institute for Electical and Electronic Engineers) recommends networking standards.

Internet is an international network that includes virtually every major computer site in the world. A wealth of services are available from Internet providers ranging from electronic mail, public archives, databases to advanced news services.

IPX/SPX are networking protocols used in NetWare.

ISDN (Integrated Services Digital Network) is a data communications standard that includes the integration of data and voice.

ISO (International Standards Organization) recommends networking standards, such as OSI.

LAN (Local Area Network) is a network of computer equipment that allows users to work together. LANs are usually located in one physical location.

Netware is a network operating system by Novell.

PPP (Point to Point Protocol) Internet networking protocol standard. Implements more functionality than SLIP.

Repeaters copy individual bits between cable segments.

Routers connect networks together (LAN-to-LAN, LAN-to-WAN, WAN-to-WAN).

SLIP (Serial Line Internet Protocol) allows IP communications over serial lines.

SNA (System Network Architecture) is a set of networking protocols defined by IBM. Used mostly in the mainframe computing.

TCP/IP is an open protocol suite that allows computers from different manufacturers to communicate with each other.

Token Ring is an IEEE standard for ring technology networks.

Transceivers are ethernet devices that perform carrier detection and collision handling and detection.

UUCP (Unix to Unix Copy) is a facility to transfer data using dial-up connections.

VINES is a network operating system by Banyan.

WAN (Wide Area Network) is a combination of LANs over multiple sites, usually using long-distance networking equipment.

WLOC (Wang LOcal-area Connection) is a set of networking protocols by Wang.

X.25 is a public packet-switched network protocol standard recommended by CCITT and adopted by ISO.