

3COM® NBX® V3001 BRI-ST PLATFORM

Economical, standards based IP telephony platform with a range of built-in applications, full feature-set and direct connection to BRI trunking



Standards-based 3Com NBX V3001 BRI-ST platforms deliver comprehensive features in a compact form factor for particularly cost-effective and practical deployment.

OVERVIEW

The 3Com® NBX® V3001 BRI-ST platform is a full-featured IP telephony solution designed for small- and medium-sized organizations moving to a Voice over Internet Protocol (VoIP) architecture. Its ease of use allows non-technical personnel to make individual or system-wide changes with the click of a mouse using the 3Com NBX NetSet™ web-based management utility.

The system, able to scale up to 1,500 devices, supports industry standards, including Session Initiation Protocol (SIP), to give organizations the investment protection of a solution that meets their current and future telecom needs.

To reduce configuration time and its related costs, a built-in BRI gateway interface allows direct connection to the Public Switched Telephone Network (PSTN) of up to four lines (eight channels) of BRI-ST central office (CO) trunking. Additionally, the V3001 BRI-ST platform—in combination with an NBX Expansion Chassis—accommodates further communications options via T1/E1, PRI, analog and BRI digital trunking.

To further increase productivity and reduce operating costs, the solution also features a variety of integrated applications, including voice messaging. It provides a voice mailbox with auto-setup for every user, call center software that enhances the efficiency of agents in a queue, as well as easy to set-up hunt groups, auto-attendant, supervisory monitoring and call reporting. Additionally, e-mail integration, supported on any IMAP4-compliant e-mail system, lets users share a common inbox for e-mail and voice messages.

KEY BENEFITS

PROTECT INVESTMENTS WITH MULTIPLE PROTOCOL SUPPORT

NBX V3001 BRI-ST platforms with R6.0 and higher system software can operate in either of two modes: Standard NBX or SIP mode. Standard NBX mode utilizes the traditional protocol

on which six generations of 3Com NBX applications have been built since 1998, while SIP mode allows the NBX to communicate with third-party SIP-compliant devices and applications. 3Com's goal of ensuring its customers access to continuously evolving telecom standards, maximizes functionality and the return on investment (ROI) from NBX solutions.

KEY BENEFITS (CONTINUED)

ENABLE BUSINESS APPLICATIONS WITH SIP

SIP support unlocks access to advanced applications that optimize the productivity-enhancing benefits of Voice over IP (VoIP) technology and facilitates employee communications with collaborative tools such as IP Messaging and IP Conferencing applications.

INCREASE PRODUCTIVITY WITH BUILT-IN NBX AUTOMATIC CALL DISTRIBUTION (ACD)

Call center hotline, help desk and telesales staff work more efficiently with NBX ACD software included in the V3001 BRI-ST platform. Two agent licenses are packaged with each platform and additional licenses are available with key-code activation. Supervisors obtain real-time, up-to-the-minute vital statistics on call center performance via voice monitoring or on their computer screens with PC-based software.

EASE IP TELEPHONY IMPLEMENTATION

Standards-based design, including support for switched IEEE 802.3af Power over Ethernet (PoE), facilitates seamless integration with existing network infrastructure. The web-based NBX NetSet management utility, hosted by the NBX platform, provides intuitive system configuration that lets organizations avoid the need to train personnel in using command line interfaces or new programming languages.

MATCH IP PHONE CHOICES TO ANY APPLICATION AND BUDGET

To optimize infrastructure investments, 3Com gives organizations a range of IP phone choices, all with robust feature-sets. Communications options include 10/100/1000 Mbps Ethernet/IP phones, softphones, receptionist consoles and cordless phones that run in either standard NBX or SIP call control mode. Where secure connectivity needs to be maintained while roaming through a business location, 3Com also offers the SIP-based 3108 Wireless Phone, an 802.11b/g-compliant wireless handset in a flip-phone form factor.

COST-EFFECTIVELY EXPAND TO MEET EVOLVING NEEDS

Organizations can boost capacity or add functionality with practical keycoded software upgrades that let them align their needs and budget. With cost-saving incremental licensing, they can scale their NBX system up to 1,500 devices (lines/stations; maximum of 720 PSTN lines).

CREATE A SEAMLESS MULTISITE VOICE NETWORK

NBX V3001 BRI-ST solutions connect not only branch sites to corporate offices, but also remote and home office workers to their main office convergence services.

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- System-Wide Settings >
- Feature Settings >
- System Maintenance >
- Telephone Configuration >
- User Configuration >
- Call Distribution Groups >
- PSTN Gateway Configuration >
- NBX Messaging >
- SIP Applications >
- Dial Plan >
- Virtual Connections >
- Downloads >
- Licensing and Upgrades >
- Reports >
- Network Management >
- Country Settings >

NBX® V3001
System-Wide Settings > System Identity

System Identity

Help for Main menu System Configuration
Tab menu System Settings is displayed here

Software Version:	X6_0_18
System Serial #:	0752200400
Host Name:	V3000
IP Address:	192.168.1.190
Default Gateway:	0.0.0.0
Subnet Mask:	255.255.255.0
Network Protocol:	Ethernet Only
MOH MAC Address:	00:e0:bb:1d:7c:ab
Free Memory (in bytes):	32,245,832
Memory Upgrade Installed:	NO (117,436,416 byte)
Date and Time:	Tuesday, December 6, 2007; 12:52:39 PM
System Start Time:	Monday, December 5, 2007; 4:12:45 PM

NBX® Version X6_0_18
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The NBX NetSet management interface provides point-and-click setup for the most basic or the most complex telephony features.

FEATURE HIGHLIGHTS

Support for traditional voice and multimedia communications

Embedded applications including voice messaging, auto-attendant, and call center software

Interoperability with SIP-compliant devices, applications and endpoints

Browser-based NBX NetSet management tool to ease system setup and maintenance

Compliance with Section 508 of the United States Rehabilitation Act that regulates electronic and information technology accessibility for persons with disabilities

Management options that include SYSLOG, SNMP, SNTIP, NBX Multisite Backup Tool and NBX Dial Plan Editor

Inclusion of 15 phone licenses with base system purchase

Multilingual NBX NetSet end-user support for United States English, Latin American Spanish, Brazilian Portuguese and Italian

SPECIFICATIONS

PLATFORM

Can operate in either Standard mode using the NBX call control protocol or in SIP mode with NBX R6.0 or higher software

SYSTEM REQUIREMENTS

100BASE-TX or switched Ethernet LAN

3Com NBX V3001 BRI-ST platform

Minimum of two 3Com IP phones

SYSTEM CAPACITY

Support for up to 1,500 devices (lines/stations), including up to 720 PSTN CO lines and 48 Virtual Tie Lines (NBX Standard mode) or up to 300 SIP trunks (NBX SIP mode with R6.0 or higher software)

PSTN GATEWAY OPTIONS

Loop-start analog, T1/PRI, E1/PRI, ISDN BRI-ST, Q.SIG/PRI

Support for SIP analog and digital gateways in SIP mode with NBX R6.0 or higher software

PORT CONNECTIONS

WAN: via external router with IP-ToS support

LAN: dual, redundant LAN 10/100 uplink ports

ANALOG DEVICES

Support for 2500 series-compatible analog devices, including cordless phones, fax machines, night bells and door ringers; two FXS ports included on a V3001 platform with optional support for additional analog devices via the NBX Expansion Chassis and Analog Station card

NETWORK, PRIORITIZATION AND AUDIO COMPRESSION STANDARDS

H.323, G.711, G.729a/b, ADPCM, G.722, 802.1d, 802.1p, 802.1q, 802.2, 802.3af, 802.11, IP, IP-ToS, DiffServ, TCP/IP, UDP/IP, DHCP, DNS

APPLICATION STANDARDS

SIP, TAPI 2.1, TAPI/WAV, IMAP4, HTTP, H.323, SMTP/MIME, VPIM

MANAGEMENT

Built-in 3Com NBX NetSet utility; 3Com Network Supervisor support

NBX VOICE-MAIL LANGUAGES/DIALECTS

Chinese (Cantonese), Chinese (Mandarin), English (Australian), English (United Kingdom), English (United States), French (Parisian), German, Hebrew, Italian, Spanish (Castilian), Spanish (Latin American), Russian

POWER REQUIREMENTS

NBX V3001 BRI-ST platform: 100-120 VAC, 50-60 Hz, 1A
220-240 VAC, 50-60 Hz, 0.5A

POWER DISSIPATION

NBX V3001 BRI-ST platform: 50 W

IP Phones: 8 W (maximum)

CHASSIS/CALL PROCESSOR

DIMENSIONS AND WEIGHT

Height: 4.445 cm (1.75 in)

Width: 48.815 cm (17.25 in)

Depth: 37.465 cm (14.75 in)

Weight: 5.68805 kg (11.54 lb)

ENVIRONMENTAL RANGES

Operating temperature: 0° to 40°C (32° to 104°F)

Storage temperature: -40° to +70°C (- 40° to +158°F)

Humidity: 5 to 85% noncondensing

NETWORK ACCESS STANDARDS

National Requirements FCC Part 68 (United States), CS03 (Canada), CTR4/A1 Commission Decision 98/520 (European Community)

SAFETY

UL/CUL 1950 Third Edition

IEC 60950: 1991 + A1, A2, A3, A4; National deviations for Europe and Australia

EMISSIONS

FCC Part 15 Class A and B

EN 55022: 1994/A1, 1995/A2, 1997/Class A

VCCI Class A

AS/NZS 3548: 1995/Class A

RoHS-compliant

IMMUNITY

EN 55024: 1998

ORDERING INFORMATION

PRODUCT DESCRIPTION	3COM SKU
NBX V3001 BRI-ST Platform	3CR10801A
NBX V3001 BRI-ST 2-port to 4-port Upgrade	3C10166
NBX V3001 512 MB Memory Upgrade Kit (required for more than 250 device licenses and/or to enable SIP)	3C10245

3Com authorized partners can access design tools and voice-specific services which will deliver an optimal solution to meet any enterprise communications requirements. Preliminary quotes using a simplified set of user-defined requirements can be obtained using the web-based 3Com Voice Solution Finder tool at www.3com.com/voipfinder.

Visit www.3com.com for additional information.

3Com Corporation, Corporate Headquarters, 350 Campus Drive, Marlborough, MA 01752-3064
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