

Economical, standards-based IP telephony platform with a range of built-in applications, full feature-set and analog central office trunk interfaces

OVERVIEW

The 3Com® NBX® V3000 Analog 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. The system's ability to scale up to 1,500 devices and to support standards-based protocols, including Session Initiation Protocol (SIP), gives organizations the confidence to choose the NBX solution for their current and future telecom needs.

With a built-in analog gateway interface, the platform can connect up to four analog loop-start central office (CO) lines directly to the Public Switched Telephone Network (PSTN), reducing configuration time and its related expense. Additionally, the NBX V3000 Analog solution—in combination with an NBX Expansion Chassis—accommodates further communications options via T1/E1, PRI, analog and BRI trunking.

To increase productivity and reduce operating costs, the solution also features a host of integrated applications, including voice messaging that 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. Email integration, supported on any IMAP4-compliant email system, offers the ability to share a common inbox for email and voice messages. Plus, V3000 Analog solutions let organizations centrally manage IP telephony services via the web with the 3Com NBX NetSet™ management application.

KEY BENEFITS

PROTECT INVESTMENT WITH MULTIPLE PROTOCOL SUPPORT

NBX V3000 Analog 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 platform 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.

ENABLE BUSINESS APPLICATIONS WITH SIP

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



Standards-based 3Com V3000 Analog platforms offer a comprehensive set of features, all in a compact form factor for particularly cost-effective and practical deployment.

KEY BENEFITS (CONTINUED)

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 V3000 Analog 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.

The screenshot displays the 'System Identity' configuration page for an NBX V3000 system. The left sidebar contains a navigation menu with categories like 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, and Country Settings. The main content area shows the following system information:

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, 2005, 12:52:39 PM
System Start Time:	Monday, December 5, 2005, 4:12:45 PM

At the bottom left, the footer indicates: NBX® Version X6_0_18, Copyright © 2005, 3Com® Corporation, All Rights Reserved.

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

MATCH IP PHONE CHOICES TO ANY APPLICATION AND BUDGET

3Com helps organizations leverage existing infrastructure investments by offering a range of IP phone choices, all with robust feature-sets. 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 key-coded 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 with maximum of 720 PSTN lines).

CREATE A SEAMLESS MULTISITE VOICE NETWORK

NBX V3000 Analog solutions connect not only branch sites to corporate offices, but also remote and home office workers to their main office convergence services.

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, SNMP, Multisite Backup Tool and 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, Italian, German and Parisian French

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 V3000 Analog 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: one 10/100 uplink port

ANALOG DEVICES

Support for 2500 series-compatible analog devices, including cordless phones, fax machines, night bells and door ringers; one FXS port included on a V3000 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 VOICEMAIL 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 V3000 Analog platform: 100-120 VAC, 50-60 Hz, 1A
220-240 VAC, 50-60 Hz, 0.5A

POWER DISSIPATION

NBX V3000 Analog platform: 50 W
IP Phones: 5 W (maximum)

CHASSIS/CALL PROCESSOR DIMENSIONS AND WEIGHT

Height: 4.445 cm (1.75 in)
Width: 37.465 cm (14.75 in)
Depth: 48.815 cm (17.25 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
RoHS-compliant

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

IMMUNITY

EN 55024: 1998

ORDERING INFORMATION

PRODUCT DESCRIPTION	3COM SKU
NBX V3000 Analog Platform R6.0	3C10600B
NBX Single-Site Upgrade to R6.0 (includes right-to-use licenses and keys for R4.2, R4.3, R5.0 and R6.0)	3C10503
NBX V3000 512 MB Memory Upgrade Kit (required for more than 250 device licenses and/or to enable SIP)	3C10240

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/voip for more information about 3Com secure converged network solutions.

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