NetVanta Business Communications System

SME IP PBX and Unified Communications System

Product Features

- Complete IP communications system: hardware-based IP PBX and software-based unified communications
- IP PBX supports up to 100 SIP stations per site
- Multi–site support for centralized messaging
- SIP trunking and multi-site networking for Off Net Calls
- PBX and key system modes supported
- Includes IP router, PoE switch, firewall, and VPN
- Full unified messaging: voice, fax, email
- Scalable architecture for future growth
- Microsoft Outlook integration with click-to-dial
- Fax server for convenient desktop faxing
- Conference server
- Personal, rule-based call control/redirection
- Text-to-speech
- Find-me/Follow-me
- Easy to create personal assistants with drag-and-drop service creation
- Database integration to streamline business processes
- Inbound/outbound IVR
- ODBC-enabled IVR and CEBP
- Active Directory administration for UC users
- One number for voice and fax for UC users
- UC Virtualization Support
- Presence and Instant Messaging

As a member of the NetVanta® Unified Communications (UC) family, the NetVanta Business Communications System is a bundled system of hardware and software combining the ADTRAN® NetVanta 7000 Series IP PBXs and the NetVanta UC Server software. Together this hardware/software system targets small to medium enterprises requiring full unified communications capabilities with a complete IP-based voice system supporting up to 100 users per device. This feature-rich system offers a complete voice and data solution with advanced UC services like unified messaging, voice mail, integrated messaging, fax server, graphical drag-and-drop service creation, inbound and outbound Interactive Voice Response (IVR) services, personal assistants, one number services, conferencing, click-to-dial, notifications, and auto-attendants.

NetVanta 7000 Series

ADTRAN's NetVanta 7000 Series provides an innovative Voice over IP (VoIP) communications solution for business to simplify the migration to VoIP and resolve complicated network assessments and equipment interoperability issues. A single chassis provides a complete LAN-to-WAN infrastructure, simplifying IP convergence by combining multiple functions in one compact platform: integrated IP PBX, router, Power over Ethernet (PoE) switch, firewall, SIP Gateway, wireless LAN controller and even Virtual Private Networking (VPN).

NetVanta Unified Communications (UC) Server

NetVanta UC Server is a software-only package designed for Microsoft Windows® platforms that provides full UC capabilities with the NetVanta 7000 Series. This feature-rich software offers advanced UC services like unified messaging, voice mail, integrated messaging, fax server, graphical drag-and-drop service creation, inbound and outbound IVR services, personal assistants, one number services, call redirection services, notifications, auto-attendants and mobile support.

Unified Messaging

Unified messaging is the ability to quickly and effectively retrieve and manage voice mail, faxes, and email messages, all from the familiar interface of your email client or from any telephone. The NetVanta Business Communications System integrates with Microsoft Outlook®/Exchange Server™, Lotus Notes®/Domino®, Google® Gmail, and a host of other email clients with Internet Message Access Protocol (IMAP4).

Fax Server

The NetVanta UC Server includes a full fax server. Desktop faxing is available from any Windows application supporting a print function. The built-in fax server provides advanced features such as DID fax, single number voice and fax number, and individual "fax on demand" using the multimedia personal call control capabilities. In addition, the NetVanta UC Server uses standard TIFF or PDF formats so that you can view faxes on any PC.

Text-to-speech Engine

The NetVanta Business Communications System includes a speech engine to provide text-to-speech conversion. This enables you to listen to email messages from any telephone and speak text from your auto-attendants, database-enabled IVR applications, or Personal Assistants.

Auto-attendant and Personal Call Control

The NetVanta Business Communications System provides users the ability to create multiple auto-attendants and Personal Business Assistants (PBAs) using its award-winning drag-and-drop, database-enabled, non-programmatic, graphical service creation environment. PBAs integrate with Microsoft Outlook contacts and internal/external databases, allowing employees to easily configure their own assistants to establish multifaceted business rules for call screening, call routing, find-me/follow-me, and call notifications, all depending on the defined rules like the caller ID, time-of-day/day-of-week, and many others. These assistants provide unprecedented accessibility for employees to their customers, co-workers and partners. Alternatively, the NetVanta Business Communications System allows administrators to create and exclusively assign assistants for each system user.

Smart Solutions for a Connected World.

ADTRAN®

vmware® READY

Message Stores for Voice, Fax and Email
- Microsoft Exchange Server 2010, 2007, and 2003
- IBM Lotus Notes/Domino: Integration with Lotus Notes v6.51 and higher
- Novell® GroupWise®
- Industry standard IMAP4 servers
- Google Gmail
- Local storage on NetVanta Business Communications System

Contact Integration with Calling Line ID Support
- Contact match recorded in message
- Outlook MAPI and Internet mode 2010 (32-bit mode), 2007, 2003, and 2002
- Outlook Express®

Message Retrieval
- Telephone User Interface (TUI)
- Visual message management
  - Microsoft Outlook plug-in
  - Lotus Notes plug-in
  - NetVanta UC Client
- Other clients (provides message waiting light synchronization with Exchange integration)
  - Outlook Web Access (OWA)
  - RIM BlackBerry Enterprise Server (BES)
  - Windows Mobile® based Smartphones
  - Other Smartphone Devices–ActiveSync

Message Management Features
- Manage messages from any telephone
- Listen to voice, fax and email messages (text-to-speech)
- Replay, delete, save, skip, pause or rewind messages
- Forward voice, fax and email messages to another mailbox, contact email address or fax number
- Reply to voice and email message with a voice attachment
- Call back sender of voice or email message
- Calling line ID or contact match recorded in subject of message
- Message archiving for quality and audit purposes
- System and personal distribution lists: Manage lists from UC Client or over the telephone
- Contact searching: Listen to address, email and telephone information from a telephone

Fax Server
- T.38 soft IP fax or supported Dialogic media cards
- Receive fax
- Send fax from desktop
- Send fax from any Microsoft Windows application (supporting printing), database, or NetVanta UC Client
- Fax on demand from prepared faxes or from database
- Choose fax recipients from personal contacts (Outlook, Windows Address Book)
- Incoming DID fax directly to mailbox or database
- Uses standard TIFF/PDF image format when reviewing faxes or forwarding to external email address

Conference Server Features
- Mute self
- Mute others
- Disable entry and exit notifications
- Close conference to other callers
- End the conference
- Audible report of the number of participants

Speech Engine
- Read email messages over the telephone
- Personal contact information using text-to-speech
- Database IVR responses using the results of database queries

Presence and Instant Messaging
- Desktop and telephony presence
- Personal status
- Contact search
- Click-to-dial
- Managed groups
- Speed dials
- Single sign-on

Auto Attendant and Personal Call Control Features
- 42 drag-and-drop service elements
  - 16 basic elements
  - 19 advanced elements
  - 7 database elements
- 27 elements include embedded database integration
- 23 built-in variables for date, time, parsed calling and called party numbers, names, matched contact name, unique identifier generation, etc.

Personal Calling Party ID Routing
- Calling line ID
- Contact integration
- Database access
- Find-me/Follow-me
- Blind transfer
- Assisted transfer (accept or deny)

Message Notification
- Message waiting lights
- Active message delivery
- Send email
- SMS support (email to SMS)
- Pager notification

Auto-Attendant Features
- Dial-by-name or extension
- Time-of-day/day-of-week schedules
- Drag-and-drop visual service editor
- Local user time zone support

NetVanta UC Client Administration
- User administration
- User profiles and messaging
- Extensions and identities
- Authorizations
- Features and system parameters
- Automated attendants and IVR
- Announcements
- Services
- ODBC and personal table data source management
- Faxes, fax cover pages and fax queue
- Logging

Active Directory Administration
- Users and Computers MMC snap-in
- Users profiles and messaging
- Extensions and identities
- Authorizations
- Service discovery
- Global policies
- User information
- Single sign-on
- Authorization and permissions
- Delegation of control
- Authorization Manager (AzMan) role-based authorization
- Auto-populate primary identity address in Active Directory

ODBC-enabled Business and Personal IVR
- Database formats
  - ○ ODBC-compliant databases
  - ○ Built-in personal tables
- Database Capabilities
  - ○ Retrieve, update, add, delete rows
  - ○ Retrieved results navigation (move to first, last, next and previous rows)
  - ○ Dial for data−similar to dial-by-name
  - ○ Multimedia−voice, fax and text-to-speech support
  - ○ Data types−audio, date, day of week, day of year, fax, logical, number, phone number, text, time of day, time range

Router Features
- RIP V1, RIP V2 and Static routes
- PPP, PPPoE, Frame Relay WAN protocols
- DHCP Client/Server
- Class-based Weighted Fair Queuing, Priority Queuing, Weighted Fair Queuing
- Diffserv aware/mark
- MLPPP/MLFR

VPN Features
- Five IPSec tunnels
- DES/3DES/AES encryption

Firewall Features
- Stateful Packet Inspection
- NAT (1:1), NAPT (Many:1)
- Denial of Service (DoS) Protection
- Access Control Lists
- SIP aware (B2BUA)

Ethernet Switch Features
- 10/100Base-T (24)
- 10/100/1000Base-T (2)
- Two SFP slots
- Auto-Rate
- Auto-Duplex
- Auto-MDI/MDI-X
- 802.1d Spanning Tree
- 802.1p Class of Service (CoS) aware/mark
- 802.1Q VLANs
- 802.3af PoE (15.4 watts for each of the 24 ports)

TL9000
TL19.1270

NetVanta Business Communications System

SME IP PBX and Unified Communications System

IP PBX System Features

- Analog Trunks (Loop Start/Ground Start; FSK Capture of Caller ID name/number; two integral, 10 maximum)
- Analog Stations (Loop Start DTMF; 1500 feet over 26 AWG; two integral, 10 maximum)
- Shared Line Appearance (SLA)
- Shared call appearance
- Paging through IP phones
- Busy Lamp Field/Direct Station Select (BLF/DSS)
- System scheduler (seven configurable modes: i.e., night, lunch, weekend)
- Public hold
- Call detail records
- Caller ID name/number override (internal and external)
- Classes of Service
- Codec support includes G.711, G.729, G.722 (wideband)
- Configurable dial plan
- Door relay
- Door phone
- Global call coverage lists
- IP Stations (100 maximum; SIP hard or soft phone)
- Least-cost routing
- Operator groups
- Outgoing number substitution
- PRI or integrated voice/data PRI
- Ring groups (ring all, circular hunt group, UCD, executive)
- System speed dial
- T1 or integrated voice/data T1
- Trunk groups
- Variable length extension numbers (three-digit, four-digit)
- Virtual extensions (20)
- 24 DSP resources
- 64ms echo cancellation for VoIP calls
- Centralized UC server

IP Station Features

- Call Drop
- Call Forward (All, Busy, No Answer)
- Call Forward to Outside Line (cell phone)
- Call Hold
- Call Logs
- Call Waiting
- Hands free intercom
- Do Not Disturb
- Headset jack
- Missed Call Indicator
- Music on Hold
- Overhead Paging
- Redial
- Speakerphone
- Caller ID Name/Number
- Call Park
- Call Park Retrieve
- Call Transfer
- Conferencing (3-person)
- Emergency call override
- Message Waiting Light
- Multiple Call Appearances
- Mute
- Personal Call Routing
- Volume Control

NetVanta Unified Communications Server

- Hardware (minimum)
  - CPU: Intel Pentium Dual-Core (E2140)
  - RAM:
    - 2GB
    - 4GB (Windows Small Business Server 2003)
    - 6GB (Windows Small Business Server 2008)
  - Hard Drive: 80GB (usable space)–7,200 RPM

- Supported Operating Systems
  - Microsoft Windows Server 2008 R2 (x64)
  - Microsoft Windows Small Business Server 2008 (x64)
  - Microsoft Windows Server 2008 (x86, x64)
  - Microsoft Windows Server 2003 R2 SP1, SP2 (x86)
  - Microsoft Windows Server 2003 SP1, SP2 (x86)
  - Microsoft Windows Small Business Server 2003 SP1 (x86)
  - VMware vSphere 4.1/5.0
- Network Card minimum: 100 Mbps
- Peripherals: mouse, keyboard, monitor (opt.), CD ROM

NetVanta 7000 Series Chassis Includes

- 24 10/100 Ethernet (802.3af PoE) ports
- 2 analog station (FXS) ports
- 2 analog trunk (FXO) ports
- 2 10/100/1000 Base-T ports
- 2 SFP slots
- 2 option module slots
- 1 WAN Ethernet for broadband Internet/IP access
- MoH or overhead paging ports

NetVanta 7000 Series Environment Characteristics

- **Operating Temperature:** 0 to 50° C
- **Storage Temperature:** -20 to 70° C
- **Relative Humidity:** Up to 95%, non-condensing

NetVanta 7000 Series Physical Characteristics

- **Chassis:** 1U, 19" rackmountable metal enclosure
- **Dimensions:** 1.7" H, 17.2" W, 12.8" D
- **Weight:** 11 lbs.
- **AC Power:** 100–250 VAC, 50/60 Hz
- **Power:** 450 watts

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