



› THIS IS THE WAY

TO EXTEND IP TELEPHONY TO YOUR
DELL AXIM X50v PDA

› THIS IS NORTEL™

Nortel Mobile Voice Client 2050

Free trial demo for Dell Axim X50v PDA



Dell, in conjunction with Nortel, is pleased to bring converged application access, with support of Wireless LAN IP Telephony, directly to your Dell™ Axim™ X50v PDA!

Nortel Mobile Voice Client 2050 is an IP Softphone that is optimized to run on your Dell Axim X50v PDA with Windows Mobile 2003 Second Edition software. With Mobile Voice Client 2050 and an 802.11b private or public network connection to a Nortel Communication Server, you have secure access to a rich suite of business telephony features and data applications all from one single device — your Dell Axim X50v PDA. Now you can stay in touch with colleagues and customers regardless of your location.

Here is the best news of all. You can check out Mobile Voice Client 2050 for a free 30-day trial period. Read the following product brief for more information on Mobile Voice Client 2050 and the equipment required to support it. Then, go to the Nortel Web site at www.nortel.com/mvc2050dell and follow the instructions to download the client software to your PDA. Then you can proceed to call a colleague and test out the voice quality and telephony features. Experience how Nortel and Dell can expand your business potential —advancing personal productivity, increasing revenue opportunities and enhancing customer satisfaction.

Product Brief — Nortel Mobile Voice Client 2050

Extend IP Telephony to your Dell Axim X50v PDA with a free trial demo.

Mobility is paramount in today's workplace

In today's enterprise, support of a mobile workforce is becoming critical. Industry analyst research suggests that today, 87 percent of employees are no longer located at their campus headquarters.¹ In addition, 40 percent of workers now travel for business—with this figure projected to increase to 66 percent by the end of 2006, according to industry analyst IDC.²

As a mobile worker, how do you make sure you are using the right solution to maximize your effectiveness in the workplace? Nortel Mobile Voice Client 2050, in conjunction with the Dell Axim X50v PDA, provides you with the tools you need to collaborate with colleagues and customers by delivering access to the telephony features you need, whenever you need them. With Mobile Voice Client 2050, simplicity and efficiency in your communications and network access is maintained, maximizing your productivity while in turn not exposing your business to security risks.



Transcriber System Input Panel

"Mobile" in Mobile Voice Client 2050

With Mobile Voice Client 2050, extending a rich suite of IP Telephony features and services from Nortel Communication Servers to you — whether you are mobile within campus, casually telecommuting for the day or while in transit on the road — is now possible. Leveraging IEEE 802.11b wireless technology, delivered with the Dell Axim X50v PDA and the 802.11b WLAN infrastructure within your corporate network, Mobile Voice Client 2050 delivers telephony feature sets to you as if they were located at your primary desk phone. Personal productivity and convenience are maximized as a single device — the PDA — can now deliver both voice and data communications access with quality and reliability.

Telephony features as if you were at your desk

Mobility shouldn't result in having to sacrifice services. With Mobile Voice Client 2050, it doesn't. Mobile Voice Client 2050 is a multi-line software phone that supports from six to twelve programmable line/feature key appearances.³

You can place calls, receive calls, transfer and forward calls, conference parties and park calls. Calling Line ID and visual incoming call indication are supported. Programmable line keys can even be set up to contact the colleagues you call most often (referred to as speed dial). In fact, almost all of the business telephony features available to users of Nortel IP and Digital Phones are avail-

able to you with Mobile Voice Client 2050. Access to features is simple as well — with easy-to-use touch screens supporting icons and/or text-based pull-down menus.

That's just the basics, however. More sophisticated features are also available. You can leverage your PDA contacts list to dial from your directory using Mobile Voice Client 2050. Or, imagine being on a conference call and being asked to conference in a colleague or customer whose number you are given on the call. No need for a separate notepad with Mobile Voice Client 2050. With use of the PDA stylus and the Transcriber System Input Panel, you can record a number on the display screen of Mobile Voice Client 2050 and then have it dial that number. That's increasing efficiency and productivity!

Mobile Voice Client 2050 can also be configured to support multiple appearances. When you are away from your desk, both the phone at your desk and your Mobile Voice Client 2050 can be set up to ring concurrently — extending the reach of your network and offering increased presence to colleagues and customers.

Network access with Mobile Voice Client 2050

How do you access the network with Mobile Voice Client 2050? 802.11b WLAN Access Points within the campus extend the reach of the network while you are in-campus. Nortel WLAN Access Point 2220 and Nortel WLAN Access Ports 2230 and 2231 along with

¹ Nemertes Research, June 2004

² Wall Street Journal

³ Twelve appearances achieved with use of "shift" function — available with Communication Server 1000 (formerly know as Succession* 1000) and Meridian 1* servers.

the Nortel WLAN Security Switch 2270 all support the Mobile Voice Client 2050. In addition, Mobile Voice Client 2050 offers basic interworking capability with selected third-party Access Points.

When you're working from home, any third-party 802.11b WLAN DSL/Cable Modem Router can be used to provide WLAN access into your corporate network. The same 802.11b WLAN infrastructure within the campus supports traversal of the wireless communications to the Nortel Communication Server, which delivers the telephony features to your Dell Axim X50v.

Even when you are on the road, you can connect back to your corporate network via wireless service from public hot spots.⁴ Connections are secure with IPSec standards-based Virtual Private Network (VPN) clients supported on the PDA and Nortel's portfolio of VPN Routers (formerly known as Contivity* Secure IP Services Gateways) at the edge of your corporate network for stateful firewall and VPN support.

IPSec secures communications

As a mobile worker remote to your campus, you can take comfort in knowing that both your voice and data communications are secure. Mobile Voice Client 2050 supports two Virtual Private Network (VPN) clients for PDAs, delivering support for IEEE IPSec standards-based communications. Nortel VPN Client for Pocket PC (formerly known as Contivity VPN Client) provides secure remote access for the Dell Axim X50v PDA over Nortel VPN Routers and Nortel VPN Gateway 3050. You can even roam across network boundaries (i.e., from Wireless LAN to Fixed LAN) with Nortel VPN Client for Pocket PC within the campus. In addition, Nortel offers Dell Axim X50v PDA users the flexibility to securely access their enterprise portal environment directly from their PDA Web browser via SSL VPN.

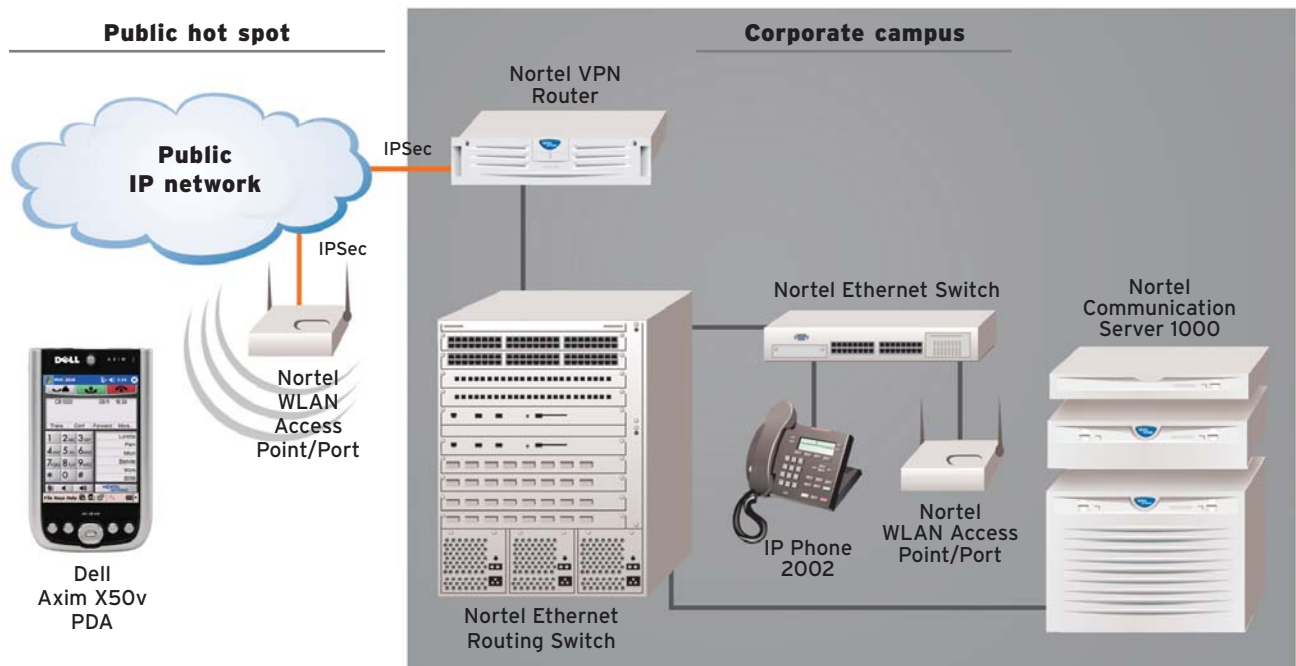
Global IP Sound boosts voice quality

Nortel has embedded within Mobile Voice Client 2050, as standard, Global IP Sound[®] (GIPS) NETEQ software to enhance the quality of voice communications. NETEQ provides compensation for high packet loss environments (up to 30 percent concealment in laboratory findings). It comes automatically enabled with Mobile Voice Client 2050 and does not require any user intervention.

Boost your presence, increase productivity and extend the reach of your network — all while remaining mobile. Find out more information about MVC 2050 today!

⁴ A hot spot is a small geographic area of several hundred square feet in which individuals can access an 802.11b wireless local area network. Hot spots can exist in homes, airport lounges, libraries, coffee shops, boardrooms, businesses etc. Businesses are adding Wireless Fidelity networks (Wi-Fi) to allow for easy Internet access from conference rooms and temporary work stations and are looking to these 802.11 networks to avoid the hefty costs in both time and money of wiring an office.
— *Newton's Telecom Dictionary, 2004*

Figure 1. Mobile Voice Client 2050 public hot spot network diagram



Technical specifications

- > **Pocket PC System Software**
 - Microsoft® Windows® Mobile 2003 Second Edition AKU2 or later supported
- > **CPU**
 - Intel(r) XScale(tm) PXA270 Processor at 624 MHz
- > **Memory**
 - 64 MB SDRAM and 128 MB Intel(r) StrataFlash(r) ROM
- > **Audio interface options**
 - Dell headset (Dell supplied)
- > **Standards**
 - Codec support: G.711 a-law and μ -law
 - IPSec VPN support with Nortel VPN Client for Pocket PC or movianVPN® from Certicom®
 - Integrated 802.11b Wireless LAN protocol supported
 - Mobile Voice Client 2050 in tandem with proxy and gateway servers can interoperate with MGCP, SIP, H.323 and legacy PSTN devices
 - Bluetooth integrated within the Dell Axim X50v
- > **Languages**
 - English
- > **WLAN Access Points**
 - Nortel WLAN Access Point 2220 Release 1.3.0.2 and later
 - Nortel WLAN Access Port 2230 Release 2.0.152 and later
 - Nortel WLAN Access Port 2231 Release 2.0.152 and later
 - Nortel WLAN Security Switch 2270 Release 2.0.152 and later
 - Interworks with selected industry-standard 802.11 third-party Access Points
- > **Call quality**
 - Global IP Sound® GIPS NetEQ for packet loss concealment
- > **Mobile Voice Client 2050 Software**
 - Release 1.2 or later required
- > **Communication Servers (formerly known as Succession* 1000)**
 - Communication Server 1000 with Release 3.0 or later software
 - Meridian 1 with Release 3.0 or later software
 - Business Communications Manager Release 3.6 software (patch required on BCM 3.6 systems)
 - Survivable Remote Gateway 1.0 software (patch required on SRG 1.0 systems)
- > **IP Line functionality**
 - Communication Server 1000 and Meridian 1 require one or more of the cards which provide Gateway functionality to ensure the ability to transcode from IP to TDM using these as DSP resources
 - Meridian 1 and Communication Server 1000 systems on Release 3.0 software must have deployed IP Line 3.10.81 and/or Signaling Server 2.10.81 or later
 - Communication Server 1000 Release 4.0 software must have deployed IP Line 4.0 and/or Signaling Server 4.00.31 or later
- > **Feature support**
 - Up to 500 telephony features supported (number of features is Communication Server dependent)
 - Supports up to twelve programmable/line feature keys
- > **User license**
 - Requires an unused/available IP Software User License for each Mobile Voice Client 2050 deployed on Communication Server 1000, Meridian 1, Business Communications Manager and Survivable Remote Gateway
- > **Installation**
 - Installation via CDROM. Requires Microsoft® ActiveSync to be installed on PC for transfer of Mobile Voice Client 2050 program to the PDA
- > **Control protocol**
 - Nortel UNISlim subset over UDP with reliability layer



Take advantage of the free trial demo and find out more information about the Mobile Voice Client 2050 by visiting: www.nortel.com/mvc2050dell



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For more information, contact your Nortel representative, or call 1-800-4 NORTEL or 1-800-466-7835 from anywhere in North America.

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