>THIS IS **THE WAY**

**to enhance the human experience
with interactive and adaptive clients**

>THIS IS N✺RTEL

Nortel IP Phone 1100 Series

Overview Presentation

Version 3.0

Nortel's Vision

…**People communicate and collaborate** everyday

…**Secure and reliable data networks connect us**

…**Innovative applications create value through productivity**

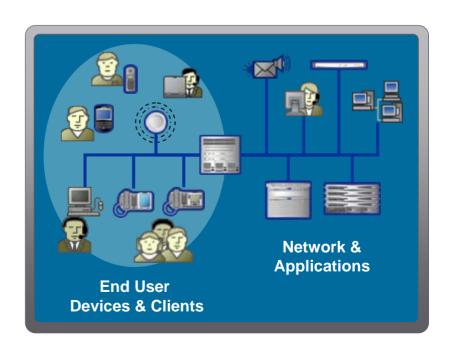*…Nortel is transforming communications*

IP Clients
Critical to communication

>Key to a successful business...

- **"Portal" to business applications**
  - **Deliver access to network intelligence**

- **Directly impacts the quality of the user experience**

- **Positive experience**
  - **Leads to increased usage**
  - **Greater business value**

Network & Applications

End User Devices & Clients

Nortel IP Clients **Current Portfolio Offering**

Desktop

2001   2002   2004   2007   2033 IP Audio Conference Phone

IP Phone 2000 Series (Phase 2)

3rd party H.323 / SIP IP Phones Regionally offered

IP KEM (Key Expansion Module)

Soft Clients

IP Softphone 2050   Mobile USB Adapter   Multimedia PC & Web Clients

Wireless

WLAN Handsets 2210/2211/2212

Mobile Voice Client 2050

- Security
- Voice Quality
- Diagnostics
- Application Gateways

Key Messages

> Increased choice
  - Expanded breadth of portfolio

> Enhanced value
  - Seamless, Reliable, Robust & Feature Rich

Nortel IP Client Expanding the Desktop Portfolio...

Desktop

Introducing the Award Winning IP Phone 1100 Series

IP Phone 1110   IP Phone 1120E   IP Phone 1140E

The IP Phone 2000 Series

2001   2002   2004   2007   2033
                                                         IP Audio
IP Phone 2000 Series (Phase 2)   Conference Phone

3rd party H.323 /
SIP IP Phones Regionally
offered

IP KEM
(Key Expansion Module)

Specifications presented are subject to change

Nortel IP Phone 1110
(Standard)

> **Single line phone**

> **Vertical design for smaller footprint**

> **High-resolution backlit graphical pixel-based display**
>   - **Adjustable five-position tilt-stand from (-5 to + 55°)**

> **Eight fixed keys and four soft-label keys**

> **Key features:**
>   - Integrated 10/100 Base-T switch with PC and LAN Port
>   - Visual Alerting and Feature Status Indicator Lamps
>   - Handsfree (listen-only)
>   - Active Ethernet link LED indication
>   - Secure Tools Menu to facilitate access to preferences & administration
>   - XAS supports data applications and web browsing

> **802.3af PoE (Class 2) or local power option**

> **Global character sets***

> **SIP Ready (via future firmware download)**

> **Desk and Wall Mountable**

> **Color: Graphite with Silver Metallic Bezel**

> **Planned GA: Q2 2006**

Asian Character Sets require firmware and Communication Server development

IP PHONE 1110

- Standard Use IP Phone
- **Light call activity environments**

Nortel IP Phone 1120E
(Intermediate)

> **Multi-line phone**
>> • **Four programmable line/feature key appearances**
>
> **High-resolution backlit graphical pixel-based display**
>> • **Adjustable five-position tilt-stand (-5 to + 55°)**
>
> **Vertical design for smaller desktop footprint**
>
> **Fourteen fixed keys and four soft keys**
>
> **Key Functional Attributes:**
>> • 10/100/1000 Base-T with integrated PC & LAN Ports
>> • XAS/G-XAS supports data applications and web browsing
>> • USB port for enhanced navigation and productivity
>> • Expansion Module/Console Port
>> • Visual Alerting and Feature Status Indicator Lamps
>> • Integrated headset port for optional wired Headset
>> • Active Ethernet link LED indication
>> • Secure Tools Menu facilitates access to preferences & administration
>
> **802.3af PoE (Class 3) or local power options**
>
> **Global character sets***
>
> **SIP Ready (via future firmware download)**
>
> **Desk and Wall Mountable**
>
> **Color: Graphite with Silver Metallic Bezel**
>
> **Planned GA: Jan 2006**

*Asian Character Sets require firmware and Communication Server development

IP PHONE 1120E

• Intermediate Use IP Phone

• **Ideal for office users**

Nortel IP Phone 1140E
(Professional)

BEST OF INTERNET TELEPHONY CONFERENCE & EXPO. LOS ANGELES, CA 2005

> **Multi-line phone**
> - **Up to twelve programmable line/feature keys***

> **High-resolution backlit graphical pixel-based display**
> - **Adjustable five-position tilt-stand (-5 to +55°)**

> **Fourteen fixed keys and four soft keys**

> **Key Functional Attributes:**
> - Integrated Bluetooth radio for office and home-based mobility
> - 10/100/1000 Base-T with integrated PC & LAN Ports
> - XAS/G-XAS supports data applications and web browsing
> - USB port for enhanced navigation and productivity
> - Visual Alerting and Feature Status Indicator Lamps
> - Expansion Module/Console Port
> - Integrated headset port for optional wired Headset
> - Active Ethernet link LED indication
> - Secure Tools Menu facilitates preferences & administration

> **Global Character Sets****

> **802.3af PoE or local power option**

> **SIP Ready (via future firmware download)**

> **Color: Graphite with Silver Metallic Bezel**

> **Available Now!**

IP PHONE 1140E

- **Professional Use IP Phone**
- **Ideal for knowledge workers**

*Varies by Nortel Communication Server

**Asian Character Sets Requires firmware and Communication Server development

Expansion Module for IP Phone 1100 Series
(Line/Feature Expansion)

> **Compatible with:**
> - IP Phone 1120E (Intermediate)
> - IP Phone 1140E (Professional)

> **Busy Lamp Field & Direct Station Selection**

> **Eighteen display-based soft keys**
> - Additional 18 keys using "shift" function*

> **Backlit display**
> - If desired, the IP Phone must use its 48v local power supply

> **Attaches to right side of the IP phone**
> - Powered directly from the IP phone
>   - Power at 3.3v per Expansion Module
> - Up to seven can be cascaded from IP Phone*
> - Planned GA: Q2 2006

- **IP Phone line and/or feature expansion**

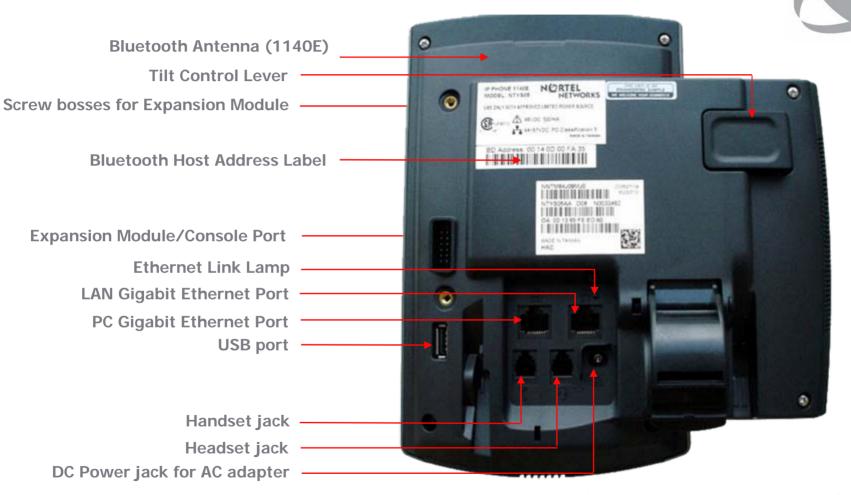* Support varies by Nortel Communication Server

Nortel IP Phone 1140E
Main Features

Feature Status Lamp

Visual Alerting LED / Message Waiting Indication

6 Line/Feature Keys self labeling (4 on 1120E)

Six Feature Keys (Services, Messages/Inbox, Shift/Outbox, Copy, Quit and Directory)

240x160 FSTN Mono Grayscale with LED Backlight (240x80) on 1120E

4 softkeys and labels

New handset

Navigation cluster

New "Enter" key

Volume Keys

Goodbye/Release

Mute Key & indicator

External Application launch key (XAS or 3rd party apps)

Handsfree Key & LED indicator

Headset key & indicator

Hold

Nortel IP Phone 1140E
Connection Features

Bluetooth Antenna (1140E)

Tilt Control Lever

Screw bosses for Expansion Module

Bluetooth Host Address Label

Expansion Module/Console Port

Ethernet Link Lamp

LAN Gigabit Ethernet Port

PC Gigabit Ethernet Port

USB port

Handset jack

Headset jack

DC Power jack for AC adapter

Back features – stand removed for clarity

IP Phone 1100 Series

Key Benefits

Superior Displays

- **High resolution backlit graphical**
- **Pixel-based with predefined fonts**
- **Optimized for web-centric apps as phones support XAS/G-XAS**

USB Port
(1120E/1140E)

- **Input device choice simplifies application & tool menu navigation**
  - **Configuration, Diagnostics, Statistics, Preferences**
- **Boosts personal productivity**
- **Increases Flexibility**
- **Foundation for expanding communications potential**

Gigabit Ethernet
(1120E/1140E)

- **Integrated Gigabit Switch for single drop to desktop**
  - **Future safe for PC collocation**
  - **Consolidates cabling infrastructure**
  - **Reduces costs**
  - **Supports 802.3af for remote powering**
- **More than bandwidth – its connectivity**

IP Phone 1100 Series
Benefits (cont)

Mobility

- Freedom within the office and at-home
- Tighter integration for advanced feature sets
- Positions 1140E for other Bluetooth services

Bluetooth

Admin

- Attached footstand out-of-the-box
  - Used for both desktop and wall mounting
- Integrated cord management:
- Active Ethernet indicator LED
- Factory default "Full DHCP" setting
- Password protected Tools Menu

Ergonomic Design

- Positioned for IP Services
- Reduced desktop footprint
- Adjustable tilt stand from
  - Supports 5-positions from -5° to +55°

Building on a Solid Foundation

Customer Focused Solutions…

> **Our vision enables the Enterprise with IP client innovations that…**

1   **Leverage Standards**

USB, Gigabit Ethernet, 802.3af, 802.1p/Q, 802.1x...

2   **Enhance the Human Experience**

Advanced navigation, graphical displays, Bluetooth mobility & more...

3   **Ease Administration**

Integrated Footstand, Cord Management, Tools Menu...

Nortel IP Phone Portfolio

Current IP Phone 2000 Series & New IP Phone 1100 Series

	IP Phone 2001	IP Phone 1110	IP Phone 2002	IP Phone 1120E	IP Phone 2004	IP Phone 1140E	IP Phone 2007
Display Size / Type	3x24 Character LCD	144x32 Pixels Graphical LCD	4x24 Character LCD	240x80 Pixels Grayscale LCD	8x24 Character LCD	240x160 Pixels Grayscale LCD	320x240 Pixels Color Touchscreen LCD
Feature Keys (Excluding Enter + NAV)	11	12	21	22	24	24	9 Fixed + Touchscreen
# of Lines	1	1	4	4	6+ Varies w/config	6+ Varies w/config	6+ Varies w/config
Headset Jack	0	0	1	1	1	1	1
Handsfree	Listen only	Listen only	Yes	Yes	Yes	Yes	Yes
802.3af PoE Classification	Class 2	Class 2	Class 2	Class 3	Class 2	Class 3	Class 3
Two Port Switch	No	Yes	Yes	Yes	Yes	Yes	Yes
Gigabit Ethernet	No	No	No	Yes	No	Yes	No
USB Ports	0	0	0	1	0	1	Yes
Support for Expansion Module Attachment	No	No	Yes (Current 200x KEM)	Yes (new 11xx EM)	Yes (Current 200x KEM)	Yes (new 11xx EM)	No
XAS (Application Gateway) support	Yes	Yes	Yes	Yes	Yes	Yes	Yes