



Application Brief

## Nortel Networks Business Communications Manager IP Telephony

Business Communications Manager delivers a complete, stand-alone solution that provides a smooth migration path to the IP-enabled networks of the future. Whether your company is interested in establishing IP telephony on-premises, extending service to remote sites, or to the home office environment, Nortel Networks can help. Unlike digital telephony equipment, IP phones are connected directly to the data network. This enables your company to capitalize on the economies of a single, simplified wiring system for both data and voice networks. In addition, Business Communications Manager supports a full range of flexible wireless IP solutions designed to streamline your company's operations. Our i2004 and i2002 Internet Telephones are equipped with numerous programmable buttons and a feature-scrolling application that provides easier access to and application of features, driving greater office productivity. Advanced features, such as Hot Desking, allow an office worker to commandeer his IP telephone set and capture it at the visiting office, almost as if the set follows him.

### Flexible, portable network configurations

One of the most interesting benefits of IP telephony is that it offers a truly portable solution. Unlike digital handsets that must be hardwired directly to the PBX, your IP phone will work anywhere on the IP network, even over Frame Relay, ATM, cable, or DSL links to remote sites. IP telephony is also ideal for provisioning phone service into remote areas of your company, such as a warehouse or gatehouse. Instead of being limited to the 4,000-foot cabling restriction imposed by many digital phone systems, your IP connections can be extended over UTP, coaxial, or fiber optic cabling for dramatically increased cabling distances.

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*i2050 Software Phone*

Configurations are also simplified by IP telephony. First, simply connect the Nortel Networks i2004 and i2002 Internet Telephone to any port on the LAN/WAN that delivers sufficient bandwidth. Then either assign a static IP address to the unit, or use Dynamic Host Configuration Protocol (DHCP) to automatically assign an IP address. The i2050 Software Phone can be easily connected in a similar manner. Need to move a user to another location? With IP telephony, moves are as simple as reconnecting the phone to any network port with the required bandwidth. No reconfiguration or recabling is required—one connection and you're done. And with the i2050 Diagnostic tool, you can troubleshoot the network quickly and easily—all the tools with the click of a button.

### **Wireless connectivity solutions**

Wireless IP connectivity delivers a simple, elegant solution. Once configured, your wireless equipment will work anywhere on the network where there's an access point installed, giving you seamless, fully portable connectivity. Even if you're at a remote site residing on the same LAN or WAN, your wireless e-mobility\* handset, laptop, or scanner will connect just as it does in your office. This increases the productivity of your workforce by enabling them to move freely throughout your facilities, streamlining communication and increasing access to corporate resources. With the Symbol Netvision and Netvision Data phone, softkeys provide easy, fast access to features you would normally associate with your desktop set.

### **Cost-effective IP connectivity solutions**

Unlike products from other networking companies, this powerful system provides a fully integrated solution—you won't have to purchase additional external devices such as routers, applications servers, or voice mail servers to realize the benefits offered by IP telephony. Just to start, eliminating these additional expenses can provide your company with savings of \$20,000 or more, not to mention the simplicity of a network with fewer devices to manage.

The savings continue when Business Communications Manager is installed at a multi-site business. IP telephony delivers toll-free service between your branch offices, enabling your employees to make phone calls without incurring long-distance charges. By using the extra bandwidth on your wide area network (WAN) for IP telephony, you leverage the untapped capabilities of your existing data infrastructure to maximize the return on your current network investment. Depending upon your available bandwidth and network configuration, Business Communications Manager is capable of supporting up to 60 simultaneous IP telephony connections.

## Powerful accessories deliver additional flexibility and business-critical reliability

No free LAN ports or LAN cables? No problem—the Nortel Networks i2004 and i2002 Internet Telephones have integrated switch modules designed to split a single 10/100 LAN drop into two separate feeds, supporting both voice and data. In addition, the module automatically prioritizes your voice traffic over data transmissions for consistent performance. No power source available? You can also power the i2004 and i2002 Internet Telephones over the Ethernet, and power is supplied to the IP stations through the BayStack\* 460-24T-PWR Switch. The i2004 and the i2002 have color schemes to meet your needs and have an expanded choice of programmable buttons. Further, we have a feature-scrolling application that enables more office productivity and features that are easily accessed and applied.

## Graceful migration path to IP-enabled environments

Business Communications Manager gives your company the best of both worlds by supporting both digital and IP telephony, enabling you to transition smoothly to the IP architectures of the future. Whether you're looking to extend connectivity from the central site to local or remote facilities, or to harness the power and flexibility of cutting-edge IP-enabled applications and wireless IP telephony, Nortel Networks can help you create IP-based solutions that will help boost the profitability and competitiveness of your business.

**Table 1: IP Client support**

IP Clients	i2004 Internet Telephone
	i2002 Internet Telephone
	i2050 Software Phone
	e-mobility wireless handset
Maximum number of IP Clients	90
Typical number of IP Clients	41 to 73



*i2002 Internet Telephone*



*i2004 Internet Telephone*



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*Nortel Networks is an industry leader and innovator focused on transforming how the world communicates and exchanges information. The company is supplying its service provider and enterprise customers with communications technology and infrastructure to enable value-added IP data, voice and multimedia services spanning Wireless Networks, Wireline Networks, Enterprise Networks, and Optical Networks. As a global company, Nortel Networks does business in more than 150 countries. More information about Nortel Networks can be found on the Web at:*

**[www.nortelnetworks.com](http://www.nortelnetworks.com)**

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

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