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NORTEL

Product Brief

Nortel Digital Mobility Solution for Norstar and Business Communications Manager

Virtual Data Center

It's a surprising but very real statistic: 50 to 70 percent of office space is unoccupied during normal business hours, according to the International Telework Association and Council. Where are these people? Some are elsewhere in the building or visiting another company site. Others are working at home or on the road. With the widespread adoption of telecommuting, wireless and various other "virtual office" technologies, this trend will only increase.

How can companies ensure that time and distance do not become barriers to productive collaboration? What's the best way to provide connectivity for employees who are always on the move, such as healthcare professionals, plant supervisors and sales associates in large retail stores?

Wherever employees must stay in touch across a building or campus — with clear voice and a full set of telephony features — Nortel has a mobility solution to fit.

- Our Digital Mobility Solutions work seamlessly with Nortel Norstar Compact Integrated Communications System, Norstar Modular Integrated Communications System and Nortel Business Communications Manager 50, 200, 400 and 450 platforms.

Digital mobility made easy and affordable for 1 to 64 users

Blend wired and wireless worlds

Seamlessly extend the features and applications of Norstar and Business Communications Manager communications systems into the wireless realm.

When your mobile users roam the premises, their services follow them on rugged, reliable wireless handsets. Messaging, contact center skillset routing, caller ID, conferencing... these features and more will work just the same as on users' desktops. In fact, users can switch between mobile and desktop phones during a call with a simple call transfer (from mobile to desktop or vice versa). Best of all, there are no airtime charges, because the system uses your own private segment of spectrum, which doesn't have to be registered with authorities.



Build for scalability using a modular architecture

For small sites with up to eight mobile users, you can deploy a cost-effective Nortel Digital Mobility Controller 080 with wireless connections up to two base stations and eight handsets. You can link two controller modules together to double that capacity and serve 16 simultaneous users.

For medium-sized sites, the Nortel Digital Mobility Controller 320 supports up to eight base stations and 32 handset users. A Digital Mobility Controller 320 can be linked to a Digital Mobility Controller 080 or another Digital Mobility Controller 320 for even more capacity. With this modular architecture, your mobility solution can easily expand, up to 64 users, to meet future growth.

Grow your coverage up to 1.5 million square feet

Each base station can serve up to 50,000 square feet (in a typical environment) and can be located up to 5,000 feet from the control module. A fully-configured Digital Mobility Controller 080 module provides coverage throughout 180,000 square feet of building space. A dual-module configuration covers nearly 1.5 million square feet — that’s three football fields.

Extend basestation coverage up to 50 percent

You can extend service beyond the reach of a base station or to obstructed areas using wireless repeaters — up to six repeaters per base station. Each locally powered repeater provides 25,000 square feet of coverage and extends support to four simultaneous conversations.

An optional, external antenna can be used with a repeater to create isolated coverage zones up to a kilometer away (.62 miles) — ideal for providing mobile coverage on a campus with multiple buildings.

Enjoy secure, clear conversations and continuous coverage

With this solution, there are no “dead zones”, no static or fading, so people may not realize you’re talking on a portable phone. You won’t have to worry about security and confidentiality. Users can be registered to the system with passwords; and with security features like Secure DES and frequency hopping, nobody can cut in on their service or accidentally tune into their conversations.

Enjoy a rich set of features on rugged, reliable wireless handsets

Nortel offers a choice of stylish handsets designed for serious use, with sophisticated features such as backlit displays, programmable “softkeys”, memory for up to 80 names and numbers, support for caller ID, user-selectable ring tones and vibrate setting, adjustable volume, headset jack and more.

- Nortel Digital Mobility Handsets 7439 (equivalent model numbers for the 7439 outside North America are 7434, 4135 and 4136) offers a solid basic value at a low cost, with a rugged design ideal for industry, warehouse and retail environments that don’t need special features like a headset jack, hands-free or vibrate-alert.
- The Nortel Digital Mobility Handset 7449 (equivalent model numbers for the 7449 outside North America are 7444, 4145 and 4146) is a full-featured, rugged, high-quality set with IP 54 classification, meaning it is well protected from dust and splashing water. The 7449 is designed for high traffic and/or more rugged environments, such as “big-box” retail stores, hospitals or even car dealerships, as well as power users in more dynamic office environments or customer contact centers.

Digital Mobility – Designed for maximum scalability					
Configuration	Basestations	Users	Simultaneous calls	Coverage (square feet)	Coverage (square meters)
DMC080	2	8	8	180,000	20,000
DMC080 plus DMC080	4	16	16	360,000	40,000
DMC320	8	32	32	720,000	80,000
DMC320 plus DMC080	10	40	40	900,000	100,000
DMC320 plus DMC320	16	64	64	1.5 million	160,000

Nortel Digital Mobility Handsets: North America



Features	7439	7449	
Display	Graphic	Graphic	
Handset specific	Hands-free	No	Yes
	Vibrate alert	No	Yes
	Headset jack	No	Yes
	Multiple languages	11	11
	Rugged design	Yes	Yes
	IP 54 classification (dust and splashing water protected)	No	Yes
	Coverage and scalability	Up to 64 mobile users supported, range is up to 1000 ft/300 M (line of sight to Basestation)	
Common attributes	Weight (grams)	130	130
	Size (mm)	148x50x28	148x50x28
	Norstar/BCM features	Comprehensive Norstar and BCM feature integration including Caller Identification (CLID), conferencing, voicemail and many more	
	Extensive battery life	Speech (16 hrs), Standby (150 hrs), Recharge (3.5 hrs)	
	Flexible sound settings adjustable ringer volume, 9 different ring tones	Including vibrate alert, silent mode, microphone mute,	
	Additional features	3 Soft Keys, CLID, Key Lock, Redial, Telephone Book (80 names/numbers),	
Frequency/modulation/security	1.9GHz (DECT)/GMSK/Secure DES		

Languages supported include English, German, French, Italian, Spanish, Dutch, Portuguese, Turkish, Danish, Swedish and Norwegian

Nortel Digital Mobility Handsets: Europe, Australia and South America

Features	4135, 4136 and 7434	4145, 4146 and 7444	4145Ex and 4146Ex	
Display	Graphic	Graphic	Graphic	
Handset specific	Hands-free	No	Yes	Yes
	Vibrate alert	No	Yes	Yes
	Headset jack	No	No	Yes
	Multiple languages	11	11	11
	Rugged design (vibration tested)	Yes	Yes	Yes
	IP 54 classification (dust and splashing water protected)	No	Yes	Yes
	ATEX classification	No	No	Yes
Common attributes	Coverage and scalability	Up to 64 mobile users supported, range is up to 1000 ft/300 M (line of sight to Basestation)		
	Norstar/BCM features	Comprehensive Norstar and BCM feature integration including Caller Identification (CLID), conferencing, voicemail and many more		
	Extensive battery life	Speech (16 hrs), Standby (150 hrs), Recharge (3.5 hrs)		
	Flexible sound settings	Including vibrate alert, silent mode, microphone mute, adjustable ringer volume, 9 different ring tones		
	Weight (grams) and size (mm)	130 grams, 148x50x28 millimeters		
	Additional features	3 Soft Keys, CLID, Key Lock, Redial, Telephone Book, Frequency Hopping (to filter background noise and enhanced security)		
Frequency/modulation/security	1.8GHz/DECT/Secure DES			

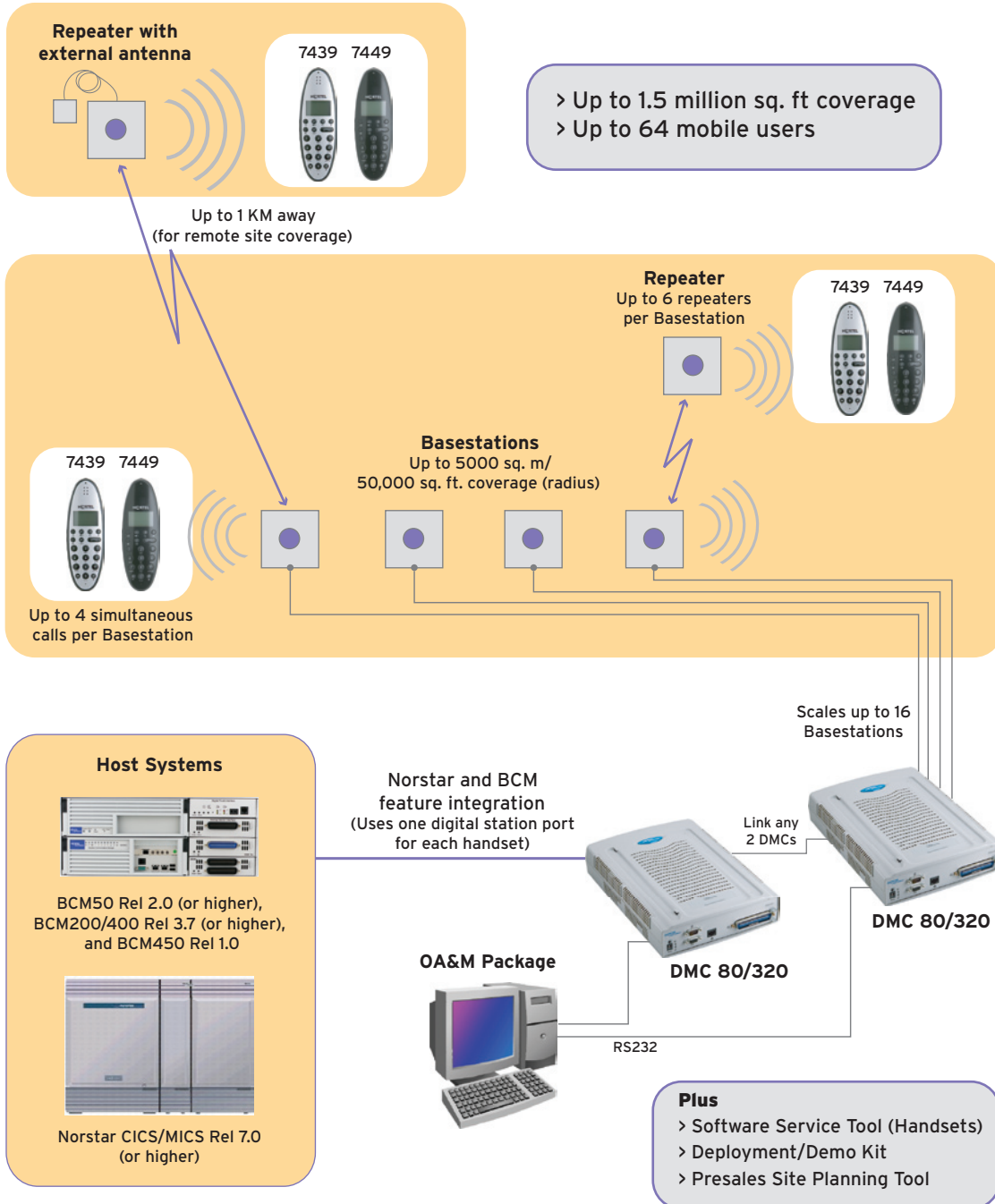
Work all day without recharging batteries

A fully charged battery can sustain up to 16 hours of talk time, 150 hours of standby time. That means these mobile phones easily work a full day

before they need to be recharged.

Quick-charging docking stations even accelerate recharge time and use temperature-compensated charging to prolong battery service life.

Figure 1. Nortel Digital Mobility



A few industry applications

Retail

- “Always Mobile” workers
- Improve price accuracy/efficiency
- Increase employee productivity
- Improve customer service

Hospitality and hotels

- Avoid cellular/pager charges
- Improve employee collaboration
- Room updates (vacant/clean/under repair)
- Increase productivity

Manufacturing

- Collaboration/faster problem resolution
- Improve safety
- Improve inventory management
- Increase employee productivity

Healthcare

- Improve patient care
- Improve safety
- Increase employee productivity
- Increase collaboration

Rest easy with a 100-percent Nortel solution

One of the strongest advantages of Nortel Digital Mobility Solutions is that they are developed, marketed, serviced and supported by Nortel. You know you will benefit from leading quality, world-class service and support, and rock-solid compatibility with the core communications products and features.

WLAN interference concerns — no worries here!

- Digital Mobility has been designed to operate in the “voice only” spectrum, which means customers completely avoid other potentially congested frequency bands like WLAN.

Global Digital Mobility Portfolio

Countries	Frequency	Supported Products
Canada, U.S.	N/A	DMC080 DMC320
Global	N/A	DMC081 DMC321
Canada, U.S.	1920-1930 MHz	Basestation 19 Repeater 49 External Antenna 51 Handset 74x9
EMEA, Hong Kong, Australia, New Zealand	1880-1900 MHz	Basestation 15 Repeater 25 Repeater 45 External Antenna 51 Handset 41x5 Handset 41x6 (Australia, New Zealand)
South America	1900-1930 MHz	Basestation 14 Repeater 24 External Antenna 51 Handset 74x4

For small applications, you could also use Norstar Business Series Terminal T7406E cordless phones with a Norstar or Business Communications Manager core platform. This economical option enables one to eight mobile users (each basestation supporting 4 handsets) per site up to 1,000 feet (line of sight).

* This product is available in North America, Mexico and Caribbean countries (except for Jamaica and Trinidad) only.



Business Series Terminal T7406E

To find out more about how Nortel Digital Mobility Solutions can redefine the way your workplace communicates, contact your local reseller or visit us on the Web at www.nortel.com/digitalmobility.



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