

Part No. 316340-B
May 2004

4655 Great America Parkway
Santa Clara, CA 95054

Important Information about the 8600 Series Switch Modules

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This is to certify that the Nortel Networks 8000 Series chassis and components installed within the chassis were evaluated to the international regulatory standards for electromagnetic compliance (EMC) and safety and were found to have met the requirements for the following international standards:

- EMC - Electromagnetic Emissions – CISPR 22, Class A
- EMC - Electromagnetic Immunity – CISPR 24
- Electrical Safety – IEC 60950, with CB member national deviations

Further, the equipment has been certified as compliant with the national standards as detailed below.

National electromagnetic compliance (EMC) statements of compliance

FCC statement (USA only)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy. If it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case users will be required to take whatever measures may be necessary to correct the interference at their own expense.

ICES statement (Canada only)

Canadian Department of Communications Radio Interference Regulations

This digital apparatus (8000 Series chassis and installed components) does not exceed the Class A limits for radio-noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

Règlement sur le brouillage radioélectrique du ministère des Communications

Cet appareil numérique (8000 Series chassis) respecte les limites de bruits radioélectriques visant les appareils numériques de classe A prescrites dans le Règlement sur le brouillage radioélectrique du ministère des Communications du Canada.

CE marking statement (Europe only)

EN 55 022 statements

This is to certify that the Nortel Networks 8000 Series chassis and components installed within the chassis are shielded against the generation of radio interference in accordance with the application of Council Directive 89/336/EEC. Conformity is declared by the application of EN 55 022 Class A (CISPR 22).

Warning: This is a Class A product. In a domestic environment, this product may cause radio interference, in which case, the user may be required to take appropriate measures.

Achtung: Dieses ist ein Gerät der Funkstörgrenzwertklasse A. In Wohnbereichen können bei Betrieb dieses Gerätes Rundfunkstörungen auftreten, in welchen Fällen der Benutzer für entsprechende Gegenmaßnahmen verantwortlich ist.

Attention: Ceci est un produit de Classe A. Dans un environnement domestique, ce produit risque de créer des interférences radioélectriques, il appartiendra alors à l'utilisateur de prendre les mesures spécifiques appropriées.

EN 55 024 statement

This is to certify that the Nortel Networks 8000 Series chassis is shielded against the susceptibility to radio interference in accordance with the application of Council Directive 89/336/EEC. Conformity is declared by the application of EN 55 024 (CISPR 24).

EC Declaration of Conformity

This product conforms to the provisions of the R&TTE Directive 1999/5/EC.

VCCI statement (Japan/Nippon only)

This is a Class A product based on the standard of the Voluntary Control Council for Interference (VCCI) for information technology equipment. If this equipment is used in a domestic environment, radio disturbance may arise. When such trouble occurs, the user may be required to take corrective actions.

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

BSMI statement for 8010, 8006 and 8003 chassis (Taiwan only)

This is a Class A product based on the standard of the Bureau of Standards, Metrology and Inspection (BSMI) CNS 13438, Class A.

警告使用者：

這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

MIC notice for 8010, 8006, 8003 chassis (Republic of Korea only)

This device has been approved for use in Business applications only per the Class A requirements of the Republic of Korea Ministry of Information and Communications (MIC). This device may not be sold for use in a non-business application.



명 칭 (모델명) : Switch (Passport 8600)
 인증번호 : E-E011-02-0015 (A)
 인증받은자의상호 : Nortel Networks Ltd.
 제조일 : 별도표기
 제조자(제조국) : Nortel Networks Ltd.(미국)

National safety statements of compliance

CE marking statement (Europe only)

EN 60 950 statement

This is to certify that the Nortel Networks 8000 Series chassis and components installed within the chassis are in compliance with the requirements of EN 60 950 in accordance with the Low Voltage Directive. Additional national differences for all European Union countries have been evaluated for compliance. Some components installed within the 8000 Series chassis may use a nickel-metal hydride (NiMH) and/or lithium-ion battery. The NiMH and lithium-ion batteries are long-life batteries, and it is very possible that you will never need to replace them. However, should you need to replace them, refer to the individual component manual for directions on replacement and disposal of the battery.

NOM statement 8010, 8006, and 8003 chassis (Mexico only)

The following information is provided on the devices described in this document in compliance with the safety requirements of the Norma Oficial Mexicana (NOM):

| | |
|-----------|---|
| Exporter: | Nortel Networks, Inc. 4655 Great America Parkway Santa Clara CA 95054 USA |
| Importer: | Nortel Networks de México, S.A. de C.V. Avenida Insurgentes Sur #1605 Piso 30, Oficina Col. San Jose Insurgentes Deleg.-Benito Juarez México D.F. 03900 |
| Tel: | 52 5 480 2100 |
| Fax: | 52 5 480 2199 |
| Input: | (8003 Chassis only) 100 to 240 VAC, 50 to 60 Hz, 9 A max. per power supply single supply, or + one redundant supply configurations |
| Input: | (8006 and 8010 Chassis only) 100 to 240 VAC, 50 to 60 Hz, 12 A max. per power supply -48 to -60 VDC, 29 A max. per power supply single supply, two supplies, or two supplies + one redundant supply configurations |

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La información siguiente se proporciona en el dispositivo o en los dispositivos descritos en este documento, en cumplimiento con los requisitos de la Norma Oficial Mexicana (NOM):

| | |
|-------------|--|
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Col. San Jose Insurgentes
Deleg-Benito Juarez
México D.F. 03900

Tel: 52 5 480 2100

Fax: 52 5 480 2199

Embarcar a: (8003 Chassis)

100 to 240 V CA, 50 to 60 Hz, 9 A max. por fuente de poder
una fuente o una + configuraciones de una fuente redundante

Embarcar a: (8006 and 8010 Chassis)

100 to 240 V CA, 50 to 60 Hz, 12 A max. por fuente de poder
-48 to -60 V CD, 29 A max. por fuente de poder
una fuente, dos fuentes o dos + configuraciones de una fuente redundante

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Introduction

This document discusses the following topics:

- [“Important notice about apparent module failure,”](#) next
- [“Determining hardware and software compatibility”](#) on page 10
- [“Locating your software”](#) on page 14
- [“Reading path”](#) on page 14
- [“How to get help”](#) on page 17

The information in this document is current up to Passport 8000 Switch Series Software Release 3.7. Always look for the most current revisions of any documentation described in this document by following the instructions described in [“Reading path”](#) on page 14.

Important notice about apparent module failure

To prevent apparent failures of properly functioning modules, after you install the modules in a chassis, make sure you securely tighten all the module retaining screws to ensure a good connection between the module and the backplane.

If a module failure occurs, check for possible backplane connection problems as a cause. Make sure the module is correctly seated in the backplane connector and the retaining screws are securely tightened. If the module still fails to operate, contact Nortel Networks™ customer support for assistance.

Determining hardware and software compatibility

The matrix below describes your hardware and the minimum Passport 8000 Switch Series software version required to support the hardware.

| Chassis & switching fabric | | Minimum software version | Part number |
|---------------------------------------|--|---------------------------------|--------------------|
| 8010co chassis | 10-slot chassis | 3.1.2 | DS1402004 |
| 8010 chassis | 10-slot chassis | 3.0.0 | DS1402001 |
| 8006 chassis | 6-slot chassis | 3.0.0 | DS1402002 |
| 8003 chassis | 3-slot chassis | 3.1.2 | DS1402003 |
| 8690SF | Discontinued, see 8691SF or 8692SF | 3.0.0 | DS1404001 |
| 8690SF/SF | 8690SF with 256MB SDRAM installed. Discontinued. See 8691SF or 8692SF | 3.0.0 | DS1404089 |
| 8691SF | Switching fabric | 3.1.1 | DS1404025 |
| 8691SF/256 | 8691SF/256 with 256 SDRAM installed | 3.1.1 | DS140490 |
| 8692SF | Switching fabric | 3.7.0 | DS1404065 |
| Upgrade Kits | | | |
| 256MB CPU upgrade kit | This memory upgrade may be required for the 3.5 and 3.7 software to run properly. ¹ | 3.5.0 | DS1404016 |
| MAC upgrade kit | Use this kit to add Media Access Control (MAC) addresses to your system. This kit is required for routed interface scaling beyond 500. | 3.5.0 | DS1404015 |

¹ With the Passport 8000 Switch Series Software Release 3.5 and 3.7 you must upgrade the 8190SM and the 8690SF to 256MB. Nortel Networks recommends that you upgrade the 8691SF to 256MB.

| 8600 modules and components | | Minimum software version | Part number |
|------------------------------------|--|--|--------------------|
| Security module | | | |
| 8661SSL Acceleration Module (SAM) | High Performance SSL Acceleration Module secures web-based applications and business communications ¹ | 3.3.1 ² | DS1404070 |
| Layer 4-7 module | | | |
| Web Switching Module (WSM) | 4-Port Gigabit Ethernet SX or 10/100TX | 3.1.3 ³ , 3.2.1 ⁴ , 3.3.0 ⁵ | DS1404045 |

| 8600 modules and components (continued) | | Minimum software version | Part number |
|--|---|---------------------------------|--------------------|
| Ethernet modules | | | |
| 8608GB module | Discontinued, see 8608GBE module | 3.0.0 | DS1404015 |
| 8608GT module | Discontinued, see 8608GTE module | 3.1.0 | DS1404012 |
| 8608SX module | Discontinued, see 8608SXE module | 3.0.0 | DS1404003 |
| 8624FX module | Discontinued, see 8624FXE module | 3.0.0 | DS1404005 |
| 8648TX module | Discontinued, see 8648TXE module | 3.0.0 | DS1404002 |
| Ethernet E-modules:⁶ | | | |
| 8608GBE module | 8-port Gigabit Ethernet GBIC | 3.1.1 | DS1404038 |
| 8608GTE module | 8-port Gigabit Ethernet 1000TX | 3.1.1 | DS1404044 |
| 8608SXE module | 8-port Gigabit Ethernet SX | 3.1.1 | DS1404036 |
| 8616SXE module | 16-port Gigabit Ethernet SX | 3.1.0 | DS1404011 |
| 8616GTE module | 16-port Gigabit Ethernet TX | 3.3.0 | DS1404034 |
| 8624FXE module | 24-port 100FX | 3.1.1 | DS1404037 |
| 8648TXE module | 48-port 10/100 TX | 3.1.1 | DS1404035 |
| 8632TXE module | 32-port 10/00TX (2 GBICs) | 3.1.2 | DS1404024 |
| Ethernet M modules⁷ | | | |
| 8608GBM module | 8-port Gigabit Ethernet GBIC | 3.3.0 | DS1404059 |
| 8608GTM module | 8-port Gigabit Ethernet 1000TX | 3.3.0 | DS1404061 |
| 8632TXM module | 32-port 10/00TX (2 GBICs) | 3.3.0 | DS1404055 |
| 8648TXM module | 48-port 10/100 TX | 3.3.0 | DS1404056 |
| 10 Gigabit Ethernet M modules⁷ | | | |
| 8681XLW module ⁸ | 1-port 10 Gigabit Ethernet (1310nm WAN serial) | 3.3.0 | DS1404052 |
| 8681XLR module ⁸ | 1-port 10 Gigabit Ethernet (1310nm LAN serial) | 3.3.0 | DS1404053 |
| ATM/ATME/ATMM modules | | | |
| 8672ATM module | Discontinued, see 8672ATME module | 3.1.0 | DS1304001 |
| 8672ATME module | ATME module ⁶ . | 3.1.1 | DS1304008 |
| 8672ATMM module | ATMM module ⁷ . | 3.3.0 | DS1304009 |

| 8600 modules and components (continued) | | Minimum software version | Part number |
|--|--|---------------------------------|--------------------|
| ATM/ATME/ATMM module components⁹ | | | |
| DS-3 MDA | 2-port 75 ohm coaxial | 3.3.0 | DS1304002 |
| OC-12c/STM-4 MDA | 1-port MMF | 3.1.0, 3.1.1, 3.3.0' | DS1304004 |
| OC-12c/STM-4 MDA | 1-port SMF | 3.1.0, 3.1.1, 3.3.0' | DS1304005 |
| OC-3c/STM-1 MDA | 4-port MMF | 3.1.0, 3.1.1, 3.3.0' | DS1304006 |
| OC-3c/STM-1 MDA | 4-port SMF | 3.1.0, 3.1.1, 3.3.0' | DS1304007 |
| POS/POSE/POSM modules | | | |
| 8683POS module | Discontinued, see 8683POSM module | 3.1.0 | DS1404016 |
| 8683POSE module | Discontinued, see 8683POSM module | 3.1.1 | DS1404043 |
| 8683POSM module | M module ⁷ | 3.3.0 | DS1404060 |
| POS/POSE/POSM MDAs¹⁰ | | | |
| OC-3c/STM-1 MDA | 2-port MMF | 3.1.0, 3.1.1, 3.3 | DS1333003 |
| OC-3c/STM-1 MDA | 2-port SMF | 3.1.0, 3.1.1, 3.3 | DS1333004 |
| OC-12c/STM-4 MDA | 1-port MMF | 3.1.0, 3.1.1, 3.3 | DS1333001 |
| OC-12c/STM-4 MDA | 1-port SMF | 3.1.0, 3.1.1, 3.3 | DS1333002 |
| 8600 compatible GBICs¹¹ | | | |
| 1000BASE-SX GBIC | 850 nm, short wavelength, Gigabit Ethernet | 3.0.0 | AA1419001 |
| 1000BASE-LX GBIC | 1300 nm, long wavelength, Gigabit Ethernet | 3.0.0 | AA1419002 |
| 1000BASE-T GBIC | Category 5 copper unshielded twisted pair (UTP) | 3.5.0 | AA1419041 |
| 1000BASE-XD GBIC | 50k, SC duplex SMF, Gigabit Ethernet | 3.0.0 | AA1419003 |
| 1000BASE-ZX GBIC | 70k, SC duplex SMF, Gigabit Ethernet | 3.0.0 | AA1419004 |
| Gray CWDM GBIC | Discontinued, see Gray CWDM APD GBIC | 3.1.2 | AA1419005 |
| Violet CWDM GBIC | Discontinued, see Violet CWDM APD GBIC | 3.1.2 | AA1419006 |
| Blue CWDM GBIC | Discontinued, see Blue CWDM APD GBIC | 3.1.2 | AA1419007 |
| Green CWDM GBIC | Discontinued, see Green CWDM APD GBIC | 3.1.2 | AA1419008 |
| Yellow CWDM GBIC | Discontinued, see Yellow CWDM APD GBIC | 3.1.2 | AA1419009 |

| 8600 modules and components (continued) | | Minimum software version | Part number |
|---|--|--------------------------|-------------|
| Orange CWDM GBIC | Discontinued, see Orange CWDM APD GBIC | 3.1.2 | AA1419010 |
| Red CWDM GBIC | Discontinued, see Red CWDM APD GBIC | 3.1.2 | AA1419011 |
| Brown CWDM GBIC | Discontinued, see Brown CWDM APD GBIC | 3.1.2 | AA1419012 |
| Gray CWDM APD GBIC | 1470nm | 3.1.4 | AA1419017 |
| Violet CWDM APD GBIC | 1490nm | 3.1.4 | AA1419018 |
| Blue CWDM APD GBIC | 1510nm | 3.1.4 | AA1419019 |
| Green CWDM APD GBIC | 1530nm | 3.1.4 | AA1419020 |
| Yellow CWDM APD GBIC | 1550nm | 3.1.4 | AA1419021 |
| Orange CWDM APD GBIC | 1570nm | 3.1.4 | AA1419022 |
| Red CWDM APD GBIC | 1590nm | 3.1.4 | AA1419023 |
| Brown CWDM APD GBIC | 1610nm | 3.1.4 | AA1419024 |

- 1 The 8661 SAM is used in conjunction with the Web Switching Module to intelligently accelerate secure business communication and confidential data by off-loading Secure Sockets Layer (SSL) Processing.
- 2 The 8661 SAM and Web Switching Module security solution also require WebOS version 10.0.27.3 or newer. Passport 8000 Series Switch Series Software Release 3.3.1 was specifically designed to introduce the 8661 SAM module. Release 3.3.1 is the only 3.3.x release that supports the 8661 SAM module. The 8661 SAM module is supported in Release 3.5.
- 3 Passport 8000 Switch Series Software Release 3.1.3 is the first and only release in the 3.1.x software branch that supports the Web Switching Module.
- 4 Passport 8000 Switch Series Software Release 3.2.1 (and later) supports the Web Switching Module.
- 5 Passport 8000 Switch Series Software Release 3.3.0 introduced support for WebOS 10.0 on the Web Switching Module.
- 6 E-modules are required to support Egress port mirroring and Enhanced Operational Mode.
- 7 M modules offer additional memory to support large routing tables such as those found in BGP implementations. The Passport 8000 Series Software Release 3.3 introduced a new mode, called M Mode, or 128K records mode, which requires the 8691SF module. When enabled, this mode allows M modules to use their full capabilities (128K records). When this mode is disabled, the M modules work in 32K mode (case of non E and E modules). If the chassis includes one 8690SF module, the mode default backs to 32K mode. To be effective, this mode requires that all modules installed in the same chassis support 128K records (M modules) and that the SF/CPU are 8691SF. If one, or more modules installed in the chassis is a 32K records module (non M module), these modules will be disabled if the chassis is configured to operate in M Mode (For instructions on enabling MMode, see *Managing Platform Operations and Using Diagnostic Tools*).
- 8 Nortel Networks recommends that if you are using a 10 Gigabit Ethernet Module: 8681XLR or 8681XLW with 3.3.x software code that you upgrade to the Passport 8000 Series Switch Software Release 3.5.0 or greater.
- 9 ATM MDAs inserted into an 8672ATME module require Passport 8000 Switch Series Software Release 3.1.1 or higher. ATM MDAs inserted into a 8672ATMM module require Passport 8000 Switch Series Software Release 3.3.0 or higher.
- 10 POS MDAs inserted into a 8683POSE module require Passport 8000 Switch Series Software Release 3.1.1 or higher, and POS MDAs inserted into a 8683POSM module require Passport 8000 Switch Series Software Release 3.3.0 or higher.

11 Non-supported GBICs are displayed in the CLI and Device Manager as “GBIC-other.”

Locating your software

You can obtain the Passport 8000 Switch Series Software License Kit by ordering the latest version of product number DS1410001 for the Passport 8100 and DS1410003 for the Passport 8600.

You may download the most current software image from the Nortel Networks™ Customer Support Web site at <http://www130.nortelnetworks.com/cgi-bin/eserv/cs/main.jsp?>; select Passport > Passport 8000 Ethernet Switch Series > **Software**.

You can find a comprehensive list of the required file names and how to upgrade your software in the *Release Notes for the Passport 8000 Series Switch Software Release 3.7*. For instructions on how to access this document, see “[Reading path](#),” next.

Reading path

This section lists the documentation specific to the Passport 8000 Switch Series platform. You can find your documentation on the Nortel Networks customer support Web site, www.nortelnetworks.com/documentation; select Passport > Passport 8000 Ethernet Switch Series > **Documentation**. Always look for the latest revision of your requested document on the Web.

You can print the listed technical manuals and release notes free, directly from the Internet. Use Adobe* Acrobat Reader* to open the manuals and release notes, search for the sections you need, and print them on most standard printers. Go to Adobe Systems at the www.adobe.com URL to download a free copy of the Adobe Acrobat Reader.

Important information, Read Me document, and release notes

- *Important Security Information for the 8000 Series Switch* (part number 314997-B)

- *Important Information about the 8600 Series Switch Modules* (part number 316340-B)
- *Release Notes for the Passport 8600 Switch Series Software Release 3.7* (part number 316811-A)

Upgrading your switch

- *Upgrading to Passport 8600 Switch Series Software Release 3.7* (part number 317176-A)
- *Installing a CPU Memory Upgrade* (part number 314832-B)
- *Adding MAC Addresses to the Passport 8000 Series Chassis* (part number 312486-B)

Chassis and module installation

- *Installing and Maintaining the 8000 Series Chassis and Components* (part number 316314-D)
- *Installing 8600 Switch Modules* (part number 312749-H)
- *Installing the 8661 SSL Acceleration Module (SAM) for the 8600 Series Switch* (part number 316315-A)
- *Installing the Web Switching Module for Passport 8600 Series Switches* (part number 314619-B)

Solution overview

Using the SSL acceleration module with the Web switching module for the 8600 Series switch (part number 316350-A)

Module configuration

- *Configuring the Web Switching Module with Device Manager (Passport 8000 Series Software Release 3.3)* (part number 314995-A)
- *Configuring the SSL acceleration module for the 8600 series switch* (part number 316351-A)
- *(Alteon) Web OS Switch Software 10.0 Application Guide* (part number 212777-A)

- *(Alteon) Web OS Switch Software 10.0 Command Reference* (part number 212778-A)

Engineering notes

- *Understanding the Passport 8600 & Web Switching Module (WSM)* (part number 316437-A)
- *Deviating from the Passport 8600 and Web Switching Module (WSM) Factory Defaults* (part number 316436-A)
- *Configuring Basic Server Load Balancing (SLB) with a Passport 8600 Web Switching Module (WSM)* (part number 316434-A)
- *Getting Started with a Web Switching Module for the Passport 8600* (part number 316435-A)

Related publications

This section describes common documentation related to the Passport 8000 Series Switch.

Tools

- *System Messaging Platform Reference Guide* (part number 315015-C)
- *Using the Packet Capture Tool* (part number 315023-C)

Hardware

- *Installing the Breaker Interface Panel for the 8010co Chassis* (part number 312755-E)
- *Installing 8600 Switch Modules* (part number 312749-H)
- *Installing Media Dependent Adapters for the 8683POSM Module* (part number 313072-B)
- *Installing Media Dependent Adapters for the 8672ATME and 8672ATMM Modules* (part number 313071-B)
- *Installing a DC Power Supply in an 8000 Series Switch* (part number 313070-C)
- *Installing an AC Power Supply in an 8000 Series Switch* (part number 312751-C)
- *Installing a Fan Tray in an 8000 Series Switch* (part number 312752-C)

- *Replacing an Air Filter in the 8010co Chassis* (part number 313592-C)
- *Installing Gigabit Interface Converters* (part number 316342-A)
- *Installing Media Dependent Adapters (MDAs)* (part number 302403-G)
- *Installation and Networking Concepts for Optical Routing* (part number 212257-B)

Software

- *Getting Started* (part number 313189-D)
- *Configuring and Managing Security* (part number 314724-C)
- *Managing Platform Operations* (part number 315545-C)
- *Installing and Using Device Manager* (part number 316341-B)
- *Configuring Network Management* (part number 314723-C)
- *Configuring QoS and IP Filtering* (part number 316433-C)
- *Configuring IP Routing Operations* (part number 314720-D)
- *Configuring VLANs, Spanning Tree, and Link Aggregation* (part number 314725-C)
- *Configuring BGP Services* (part number 314721-C)
- *Configuring IP Multicast Routing Protocols* (part number 314719-C)
- *Configuring Internet membership Group Authentication Protocol (IGMP)* (part number 316343-B)
- *Configuring IPX Routing Operations* (part number 314722-B)
- *Network Design Guidelines* (part number 313197-D)
- *Using Diagnostic Tools* (part number 317359-A)
- *Using the 10 Gigabit Ethernet Modules: 8681XLR and 8681XLW* (part number 315893-C)
- *Using the 8672ATME and 8672ATMM Modules* (part number 209195-E)
- *Using the 8683POSM Module* (part number 209564-B)

How to get help

If you purchased a service contract for your Nortel Networks product from a distributor or authorized reseller, contact the technical support staff for that distributor or reseller for assistance.

If you purchased a Nortel Networks service program, contact one of the following Nortel Networks Technical Solutions Centers:

| Technical Solutions Center | Telephone |
|-----------------------------------|---------------------------------|
| Europe, Middle East, and Africa | (33) (4) 92-966-968 |
| North America | (800) 4NORTEL or (800) 466-7835 |
| Asia Pacific | (61) (2) 9927-8800 |
| China | (800) 810-5000 |

Additional information about the Nortel Networks Technical Solutions Centers is available from the www.nortelnetworks.com/help/contact/global URL.

An Express Routing Code (ERC) is available for many Nortel Networks products and services. When you use an ERC, your call is routed to a technical support person who specializes in supporting that product or service. To locate an ERC for your product or service, go to the <http://www130.nortelnetworks.com/cgi-bin/eserv/common/essContactUs.jsp> URL.