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4401 Great America Parkway
Santa Clara, CA 95054

Passport 4460 Supplemental Agency Requirements

NORTEL
NETWORKS™

Notice of Filing

Declaration of CE Conformance (for International sales)

A Declaration of CE Conformance is on file at the Nortel addresses shown below. The declaration lists the models described in this manual. If the unit carries the CE mark, this declaration certifies that it meets the specific EMC standards and safety (LVD) standards required for CE marking. If the product is a module, the module is CE-compliant only if it is placed in a CE-marked base unit.

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Any units not carrying the CE approval are not CE-compliant. Modules placed in these units may not meet emission standards for CE compliance.

Notice



Specifications, tolerances, and design characteristics described in this manual are subject to change without notice.

Trademark Notice

All names or trademarks are the true property of their respective owners.

Safety Warnings and Cautions

Underwriters Laboratories, Inc. (UL) for North America, TÜV for Germany, and C-UL for French, request that the following statements of warning be made in three languages to help in the safe operation of the unit.

	Warning	WARNUNG	AVERTISSEMENT
	English UL	German TÜV	French C-UL
 Warning	<p>Remove power plug from the power socket, or disconnect DC power, before performing any service work on the unit.</p> <p>Ports that are capable of connecting to other apparatus are defined as SELV. To ensure conformity with the EN60950 standard, check that these ports are only connected to ports of the same type on other apparatus.</p>	<p>Vor öffnen des Gerätes, muss der Netzstecker aus der Steckdose gezogen werden.</p> <p>Anschlusse, die mit anderen Geräten verbindet werden können, sind als SELV beschrieben. Um Konformität mit EN 60950 zu versichern, sichern Sie es, daB diese Anschlusse nur mit den des selben Type auf anderen Geräten verbindet werden.</p>	<p>Débrancher la prise de courant avant d'entreprendre aucun travail de réparation de l'appareil.</p> <p>Les ports qui sont susceptibles d'être connectés à des équipements sont désignés comme TBTS. Pour garantir la conformité à la norme EN 60950, n'interconnecte ces ports qu'avec des ports du meme type sur des autres matériels.</p>
 Caution:	<p>Access to the interior of this unit shall be made only by a qualified technician or Nortel Networks trained personnel.</p> <p>Connection to the network is to be disconnected before the main plug is removed.</p>	<p>Der Zugang ins Innere des Gerätes ist nur einem qualifizierten Techniker gestattet.</p> <p>Ehe der Netzstecker aus der Steckdose gezogen wird, müssen sämtliche äusserliche Verbindungen vom Gerät getrennt werden.</p>	<p>Ouverture de cet appareil est permise par un technicien autorisé seulement.</p> <p>Avant de débrancher la prise de courant, assurer que toutes les connexions externes ont été déconnecté de l'appareil.</p>

Notification of FCC Requirements

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the 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 and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Changes or modifications to this product, that could increase the amount of Radio Frequency Emissions from this product, without the expressed written approval of Nortel Networks could cause the product and the user to violate the FCC's Rules and Regulations, thus requiring the product to be turned off or disconnected.

This unit requires use of shielded cables for compliance with FCC Part 15. See the Hardware Installation Manual, 800-1951-40 for specific applications.

Notification of Canadian Requirements

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Government of Canada Department of Industry.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de classe A prescrites dans le règlement sur le brouillage radioélectrique édicté par le Ministère des Industry du Canada.

Agency and Telephone Company Requirements

The following information is for regulatory agency compliance only. For information on installing and using selected modules, refer to the Reference for Passport 4460 Hardware manual, 205677-A.

Agency Requirements

Electromagnetic Compatibility (EMC)

The following label certifies that, when installed in an approved chassis, the associated product meets applicable EMC Level A Standards.



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 adequate measures.

In addition to the Emissions Standard, these products meet and comply with the EN 500824 Immunity Standard.

FCC Part 15, Class A

C.R.C., c, 1374

EN55022: 1994 Class A (Radiated)

EN50082-1, -2, -3, -4: 1995 (Immunity)

EN60555 (Power Harmonics)

IEC 801-2:1991/prEN55024-2: 1992, 3KV, CD, 8KV DA

IEC 801-3:1984/prEN55024-3: 1991, 3 V/m

IEC 801-3:1988/prEN55024-4: 1993, 0.5KV Signal, 1KV Power

Safety Information

Before performing any procedures on a Passport 4400 unit, read the safety information on [page 7](#). When working inside the unit, be sure to take all precautions against electrostatic discharge:

- Wear a grounding strap to protect the equipment while the unit is open.
- To discharge any buildup of static electricity, touch any metal part of the unit before handling any module.
- Avoid working on carpet.

UL 1950	Edition-2, Amendment-4, and C-UL compliance
IEC 950:	1991+A1: A2:1993+A3:1995+A4:1996
TÜV:	EN60 950:1992+A1+A2+A3+A4
BABT 340 (where applicable):	Seventh Edition (Manufacturing)

EU Declaration of Conformity



The above label certifies that, when installed in an approved chassis, the associated product meets following EMC and Safety Standards.

Safety:



LVD: Directive: 73/23/EEC

EMC: Directive 89/336/EEC

Telecom Terminal Equipment: (see individual interface approvals) for
Telecommunications Requirements

Agency Compliances

Underwriters Laboratories, Inc. (UL) for North America, TÜV for Germany, and C-UL for French, request that the following statements of warning be made in three languages to help in the safe operation of the unit.

	Warning	WARNUNG	AVERTISSEMENT
	English UL	German TÜV	French C-UL
 Warning	<p>Remove power plug from the power socket, or disconnect DC power, before performing any service work on the unit.</p> <p>Ports that are capable of connecting to other apparatus are defined as SELV. To ensure conformity with the EN60950 standard, check that these ports are only connected to ports of the same type on other apparatus.</p>	<p>Vor öffnen des Gerätes, muss der Netzstecker aus der Steckdose gezogen werden.</p> <p>Anschlüsse, die mit anderen Geräten verbindet werden können, sind als SELV beschrieben. Um Konformität mit EN 60950 zu versichern, sichern Sie es, daB diese Anschlüsse nur mit den des selben Type auf anderen Geräten verbindet werden.</p>	<p>Débrancher la prise de courant avant d'entreprendre aucun travail de réparation de l'appareil.</p> <p>Les ports qui sont susceptibles d'être connectés à des équipements sont désignés comme TBTS. Pour garantir la conformité à la norme EN 60950, n'interconnecte ces ports qu'avec des ports du meme type sur des autres matériels.</p>
 <small>Caution</small>	<p>Access to the interior of this unit shall be made only by a qualified technician or Nortel Networks trained personnel.</p> <p>Connection to the network is to be disconnected before the main plug is removed.</p>	<p>Der Zugang ins Innere des Gerätes ist nur einem qualifizierten Techniker gestattet.</p> <p>Ehe der Netzstecker aus der Steckdose gezogen wird, müssen sämtliche äusserliche Verbindungen vom Gerät getrennt werden.</p>	<p>Ouverture de cet appareil est permise par un technicien autorisé seulement.</p> <p>Avant de débrancher la prise de courant, assurer que toutes les connexions externes ont été déconnecté de l'appareil.</p>

Repair Instructions

If you experience trouble with this equipment, follow this procedure:

- 1 Determine whether the problem is in your data terminal equipment. If you have other data terminal equipment, connect it in place of the inoperative unit to determine if the data terminal equipment or the line is at fault.
- 2 If you find the problem is in your Nortel equipment, contact your customer service representative.



Warning: Do not attempt to repair the unit. Attempting to repair the unit may cause injury, and may also damage equipment on the telephone network. Attempts to repair the unit are violations of FCC, and/or other applicable approval agencies, rules. Repair to this equipment can only be made by the manufacturer, and its authorized agents, and by others who may be authorized by the FCC.

The telephone company may ask you to disconnect this equipment from the network until the problem has been corrected or you are sure that the equipment is not malfunctioning.

User's Responsibility

You must supply the following information upon request:

- Whether the notification is about a connection or disconnection
- The manufacturer of the device – Nortel Networks
- Model number of the device: Passport 4460AC: 205683-A
- FCC Part 68 (U.S.A.) – (see label on module for registration number)
- CS-03 (Canada)
- Jack to be used – RJ-48C or RJ-11 (see specific module description)

In addition to the above information you will be required to supply the following supplemental information if your system is an XD, DD, DE or OT requiring three or more Central Office lines:

- Sequence in which the trunks are to be connected
- Facility interface codes by position
- Service order codes by position

Connection of this unit to the nationwide telecommunications network must be through a standard network interface connector (RJ-48C or RJ-11) which must be ordered from the telephone company.

Telephone Company Rights and Responsibilities

If your data terminal equipment causes harm to the telephone network the telephone company may discontinue your service temporarily. If possible, they will notify you in advance. But if advance notice is not practical, you will be notified as soon as possible. You will be given the opportunity to correct the situation, and you will be informed of your right to file a complaint with the regulatory agency.

Your telephone company may make changes in its facilities, equipment, operation, or procedures that could affect the proper functioning of your data communications equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted service.

FCC Requirements

You must notify the telephone company whenever the Passport 4460 unit is connected to or disconnected from a telephone company line. This equipment complies with the Federal Communications Commission (FCC) Rules. On the back of this equipment is a label that contains, among other information, the FCC registration number.

Equipment Attachment Limitations for Operation in Canada

CP-01, Part I, Section 10.1

NOTICE: The Canadian Department of Communications label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment. Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.



Warning: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

CP-01, Part I, Section 10.2

NOTICE: The Load Number (LN) assigned to each terminal device denotes the percentage of the total load to be connected to a telephone loop which is used by the device, to prevent overloading. The termination on a loop may consist of any combination of devices subject only to the requirement that the total of the Load Numbers of all the devices does not exceed 100.

Affidavit Requirements for Connections to Digital Services (US)

- An affidavit must be served to the telephone company whenever digital terminal equipment without encoded analog content and billing protection is used to transmit digital signals containing encoded analog content which are intended for eventual conversion into voice band analog signals and retransmitted on the network.
- The affidavit shall affirm that either no encoded analog content or billing information is being transmitted or that the output of the device meets Part 68 encoded analog content or billing protection specification.
- The end user will be responsible for filing an affidavit with the local exchange carrier when connecting unprotected CPE to 1.544 Mbits/s or to Subrate digital services.
- Until such time as subrate terminal equipment is registered for voice applications, the affidavit requirement for subrate services is waived.

AFFIDAVIT FOR CONNECTION OF CUSTOMER PREMISES EQUIPMENT TO 1.544 Mbits/s AND/OR SUBRATE DIGITAL SERVICES

For the work to be performed in the certified territory of _____(Telco Name),
State of _____,
county of _____,

I, _____(name), _____(business
address) _____(telephone number) being duly sworn, state:

I have responsibility for the operation and maintenance of the terminal equipment to be connected to 1.544 Mbits/s and/or _____Subrate digital services. The terminal equipment to be connected complies with Part 68 of the FCC rules except for the encoded analog content and billing protection specifications with respect to analog content and billing protection:

() I attest that all operations associated with the establishment, maintenance, and adjustment of the digital CPE with respect to encoded analog content and encoded billing protection information continuously complies with Part 68 of the FCC Rules and Regulations.

() The digital CPE does not transmit digital signal containing encoded analog content or billing information which is intended to be decoded within the telecommunications network.

() The encoded analog content and billing protection is factory set and is not under the control of the customer.

I attest that the operator(s)/maintainer(s) of the digital CPE responsible for the establishment, maintenance, and adjustment of the encoded analog content and billing information has (have) been trained to perform these functions by successfully having completed one of the following (check appropriate blocks):

- () a. A training course provided by the manufacturer/grantee of the equipment used to encode analog signals; or
- () b. A training course provided by the customer or authorized representative using training materials and instructions provided by the manufacturer/grantee of the equipment used to encode analog signals; or
- () c. An independent training course (e.g., trade school or technical institution) recognized by the manufacturer/grantee of the equipment used to encode analog signal; or
- () d. In lieu of the preceding training requirements, the operation(s)/maintainer(s) is (are) under the control of a supervisor trained in accordance with _____(circle one) above.

I agree to provide _____(telco's name) with proper documentation to demonstrate compliance with the information as provided in the preceding paragraph, if so requested.

_____Signature

_____Title

_____Date

Subscribed and Sworn to before me this ____day of _____,(year)

Notary Public

My commission expires: _____

Passport 4460 Base Module (Part Number 205683-A)

This information applies to the Passport 4460 base module as part of the Passport 4460 unit.

Telecommunication Requirements

BABT: CTR-2

Registration Number: AA607457 (as part of Passport 44xx series units)

WAN Modules Specifications



Warning

Passport 4460 plug-in (WAN) modules are sensitive to electro-static discharge, which can damage components. Only trained, qualified technicians should perform procedures outlined in this guide to ensure proper handling and grounding procedures.

Serial Module (Part Number 205688-A)

This information applies to the Serial Module as part of the Passport 4460 unit.

Telecommunication Requirements

BABT: CTR-2

Registration Number: AA607457 (as part of Passport 44xx series units)

56/64K DSU/CSU Module (Part Number 206506-A)

This information applies to the 56 Kb/s DSU/CSU WAN Module as part of the Passport 4460 unit. This equipment is limited for use on 56 Kb/s lines only.

User's Responsibility

You are required to request service from the telephone company before you connect the unit to a network. When you request service, you must provide the telephone company with the following data:

- Whether the notification is about a connection or disconnection
- The required Universal Service Order Code (USOC) connector: RJ-48C
- FCC Part 68 (U.S.A.) – (see label on module for registration number)
- DOC CS-03 (Canada) (see label on module for registration number)

T1/FT1 DSU/CSU Adapter Module (Part Number 307702-A)

This information applies to the T1/FT1 DSU/CSU Adapter Module with DSU/CSU as part of the Passport 4460 unit. This equipment is limited for use on T1 Digital Service lines only.

User's Responsibility

You are required to request service from the telephone company before you connect the unit to a network. When you request service, you must provide the telephone company with the following data:

- FCC Part 68 (U.S.A.) (see label on module for registration number).
- DOC CS-03 (Canada) (see label on module for registration number).
- Type of interface – 1.544 Mbits/s digital with D4 or ESF framing format
- Required Universal Service Order Code (USOC) connector: RJ-48C

E1/FE1 G.703/G.704 Adapter Module with DSU (Part Number 307732-A)

This information applies to the E1/FE1 G.703/G.704 Adapter Module with DSU as part of the Passport 4460 unit.

Telecommunication Requirements

BABT: CTR-12 A1 and

NTR-4 (75 ohms)

Registration Number: AA609023

ISDN BRI (S/T Interface) Adapter Module (Part Number 307705-A)

This information applies to the ISDN BRI S/T WAN Module as part of the Passport 4460 unit. This equipment is limited for use on ISDN S/T lines only.

Telecommunication Requirements

CTR-3 Standard

ISDN BRI (U Interface) Adapter Module (Part Number 307708-A)

This information applies to the ISDN BRI (U Interface) Adapter Module as part of the Passport 4460 unit.

User's Responsibility

You are required to request service from the telephone company before you connect the unit to a network. When you request service, you must provide the telephone company with the following data:

- Whether the notification is about a connection or disconnection.
- FCC Part 68 (U.S.A.) – see label on module for registration number.
- DOC CS-03 (Canada).
- Required Universal Service Order Code (USOC) connector: RJ-48C

Expansion Modules Specifications



Warning

Passport 4460 plug-in (Expansion) modules are sensitive to electro-static discharge, which can damage components. Only trained, qualified technicians should perform procedures outlined in this guide to ensure proper handling and grounding procedures.

2-Port Serial Data Module (Part Number 206106-A)

This information applies to the 2-Port Serial Data Module as part of the Passport 4460 unit.

Telecommunication Requirements

BABT:	CTR-2
Registration Number:	AA607457 (as part of the Passport 44xx series units)

T1 Voice Module (Part Number 205218-A)

This information applies to the T1 Voice Modules as part of the Passport 4460 unit.

User's Responsibility

You are required to request service from the telephone company before you connect the unit to a network. When you request service, you must provide the telephone company with the following data:

- FCC Part 68 Registration Number: (see module label for registration number)
- Type of Interface: 1.544 digital interface with D4 framing format
- 1.544 digital interface with ESF framing format
- Connector provided: RJ-48C

E1 Voice Module (Part Number 205775-A)

This information applies to the E1 Voice Modules as part of the Passport 4460 unit.

User's Responsibility

You are required to request service from the telephone company before you connect the unit to a network. When you request service, you must provide the telephone company with the following data:

- Type of Interface: 2.048 Mbits/s digital interface
- Connection provided: RJ-48C

Telecommunication Requirements

CETECOM: CTR-12/13
Registration Number: D-801353L



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