



Hewlett Packard
Enterprise

HPE FlexNetwork MSR1000 & MSR2000 Router Series Telecommunications & Certification Manual



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Contents

| | |
|--|---|
| General Statements | 1 |
| European Declaration of Conformity | 2 |
| USA – FCC Part 68 Compliance | 4 |
| Canada – Industry Canada Compliance | 5 |
| Canada – Conformité aux normes d'Industrie Canada | 6 |
| Japan – Ordinance 31 Compliance /日本 – 条例 31 の順守 | 7 |
| New Zealand – Interface Compliance | 8 |
| Singapore – Info-Communications Development Authority (IDA) Compliance | 9 |

General Statements

The routers must be installed and used in strict accordance with the manufacturer's instruction as described in the user documentation that comes with this product.

This product contains encryption. It is unlawful to export out of the U.S without obtaining a U.S. export license.

This product does not contain any user serviceable components. Any unauthorized product changes or modifications will invalidate HPE's warranty and all applicable regulatory certifications and approvals.

Warning: This equipment will be inoperable when the mains power fail or is removed. The equipment will not support emergency dialing in this situation.

European Declaration of Conformity

The following products covered by this manual comply with the European Radio & Telecommunications Terminal Equipment Directive 1999/5/EC

A signed copy of the European Declaration of Conformity for the routers and associated modules and accessories can be downloaded from:

www.hpe.com/support/hpesc

Intended use: Data router with WAN and LAN interfaces

RTTE Directive declaration statements:

| | |
|--------------------------|---|
| Česky [Czech] | Hewlett Packard Enterprise Coporation tímto prohlašuje, že tento Router je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES. |
| Dansk [Danish] | Undertegnede Hewlett Packard Enterprise Corporation erklærer herved, at følgende udstyr Router overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF. |
| Deutsch [German] | Hiermit erklärt Hewlett Packard Enterprise Corporation, dass sich das Gerät Router in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet. |
| Eesti [Estonian] | Käesolevaga kinnitab Hewlett Packard Enterprise Corporation seadme Router vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele. |
| English | Hereby, Hewlett Packard Enterprise Corporation, declares that this Router is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. |
| Español [Spanish] | Por medio de la presente Hewlett Packard Enterprise Corporation declara que el Router cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE. |
| Ελληνική [Greek] | ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Hewlett Packard Enterprise Corporation ΔΗΛΩΝΕΙ ΟΤΙ Router ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/EK. |
| Français [French] | Par la présente Hewlett Packard Enterprise Corporation déclare que l'appareil Router est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE. |
| Italiano [Italian] | Con la presente Hewlett Packard Enterprise Corporation dichiara che questo Router è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE. |
| Latviski [Latvian] | Ar šo Hewlett Packard Enterprise Corporation deklarē, ka Router atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem. |
| Lietuvių [Lithuanian] | Šiuo Hewlett Packard Enterprise Corporation deklaruoja, kad šis Router atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas. |
| Nederlands [Dutch] | Hierbij verklaart Hewlett Packard Enterprise Corporation dat het toestel Router in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG. |
| Malti [Maltese] | Hawnhekk, Hewlett Packard Enterprise Corporation, jiddikjara li dan Router jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn rilevanti li hemm fid-Dirrettiva 1999/5/EC. |
| Magyar [Hungarian] | Alulírott, Hewlett Packard Enterprise Corporation nyilatkozom, hogy a Router megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak. |
| Polski [Polish] | Niniejszym Hewlett Packard Enterprise Corporation oświadcza, że Router jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC. |

| | |
|---------------------------|---|
| Português [Portuguese] | Hewlett Packard Enterprise Corporation declara que este Router está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE. |
| Slovensko [Slovenian] | Hewlett Packard Enterprise Corporation izjavlja, da je ta Router v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES. |
| Slovensky [Slovak] | Hewlett Packard Enterprise Corporation týmto vyhlasuje, že Router spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES. |
| Suomi [Finnish] | Hewlett Packard Enterprise Corporation vakuuttaa täten että Router tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen. |
| Svenska [Swedish] | Härmed intygar Hewlett Packard Enterprise Corporation att denna Router står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG. |
| Íslenska [Icelandic] | Hér með lýsir Hewlett Packard Enterprise Corporation yfir því að Router er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 1999/5/EC. |
| Norsk [Norwegian] | Hewlett Packard Enterprise Corporation erklærer herved at utstyret Router er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF. |

* For the most up to date list of products please download a copy of the European Union Declaration of Conformity.

USA – FCC Part 68 Compliance

The products listed below comply with Part 68 of the FCC Rules and the requirements adopted by ACTA. On the bottom of this equipment is a label that contains, among other information, a product identifier in the format US:AAAEQ##TXXXX. If requested this number must be provided to the telephone company.

| Equipment | USOC (Universal Service Ordering Codes) | SOC (Service Order Codes) | FIC (Facility Interface Codes) |
|---|---|---------------------------|--|
| SIC T1-F SIC 1VT1 | RJ48C | 6.0N | 04DU9.BN, 04DU9.DN, 04DU9.1KN, 04DU9.1SN |
| SIC 1FXS SIC 2FXS SIC 1FXO SIC 2FXO SIC 2FXS1FXO DSIC 4FXS1FXO | RJ11C | 9.0F | METALLIC |
| SIC 1ADSL DSIC 1SHDSL-8W | RJ11C | 9.0Y | METALLIC |
| SIC 1ADSL-I | RJ41 | 6.0N | 02IS5 |

This equipment contains FCC compliant modular jacks. It is designed to be connected to the telephone network or premise wiring using compatible modular plugs and cabling that comply with the requirements of Part 68 rules.

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

For repair or warranty information please contact Hewlett Packard Enterprise Corporation. See "OBTAINING SUPPORT FOR YOUR PRODUCT" in your Installation Manual. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

Only the manufacturer or its authorized agents can make repairs to this equipment. In the event that this equipment requires service, contact your equipment vendor or the manufacturer.

This equipment does not contain any parts that can be repaired by the user.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

Canada – Industry Canada Compliance

CS-03 Compliance

The products listed below meet the applicable Industry Canada technical specifications.

| Model Number | Description |
|----------------|--|
| SIC T1-F | 1-port T1 / Fractional T1 SIC Module |
| SIC 1VT1 | 1-port Voice T1 SIC Module |
| SIC 1FXS | 1-port FXS SIC Module |
| SIC 2FXS | 2-port FXS SIC Module |
| SIC 1FXO | 1-Port FXO SIC Module |
| SIC 2FXO | 2-Port FXO SIC Module |
| SIC 2FXS1FXO | 2-port FXS + 1-port FXO SIC Module |
| DSIC 4FXS1FXO | 4-Port FXS, 1-Port FXO DSIC Module |
| SIC 1ADSL | 1-port ADSL2+ SIC Module |
| DSIC 1SHDSL-8W | 1-Port 8-wire G.SHDSL DSIC Module |
| SIC 1ADSL-I | 1-Port ADSL over ISDN BRI U SIC Module |

NOTICE: The Industry Canada (IC) label identifies certified equipment. This certification means that the equipment meets the telecommunications network protective, operational, and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The department does not guarantee the equipment will work 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. The user should be aware that compliance with the above conditions might not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative 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.

This equipment does not contain any parts that can be repaired by the user.

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

The Ringer Equivalence Number (REN) is an indication of the maximum number of devices allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the RENs of all the devices does not exceed five.

Canada – Conformité aux normes d'Industrie Canada

SC-03 – Conformité

Les produits énumérés ci-dessous sont conformes aux spécifications techniques applicables d'Industrie Canada.

| Numéro de modèle | Description |
|------------------|---|
| SIC T1-F | Module SIC à 1 port T1 / fractionnel T1 SIC |
| SIC 1VT1 | Module à 1 port Voice T1 SIC |
| SIC 1FXS | Module à 1 port FXS SIC |
| SIC 2FXS | Module à 2 ports FXS SIC |
| SIC 1FXO | Module à 1 port FXO SIC |
| SIC 2FXO | Module à 2 ports FXO SIC |
| SIC 2FXS1FXO | Module à 2 ports FXS + 1 port FXO SIC |
| DSIC 4FXS1FXO | Module à 4 ports FXS et à 1 port FXO DSIC |
| SIC 1ADSL | Module à 1 port ADSL2+ SIC |
| DSIC 1SHDSL-8W | Module à 1 port 8 câbles G.SHDSL DSIC |
| SIC 1ADSL-I | Module à 1 port ADSL sur ISDN BRI U SIC |

AVIS : La signature visuelle d'Industrie Canada (IC) identifie l'équipement certifié. Cette certification signifie que l'équipement est conforme aux exigences visant la sécurité, l'exploitation et la protection des réseaux de télécommunications comme le stipulent le(s) document(s) appropriés visant les exigences techniques relatives au matériel terminal. Le ministère ne garantit pas que l'équipement fonctionnera à la satisfaction de l'utilisateur.

Avant d'installer le présent équipement, les utilisateurs doivent s'assurer qu'ils ont l'autorisation de se raccorder aux installations de la société locale de télécommunications. L'équipement doit également être installé au moyen d'une méthode acceptable de raccordement. L'utilisateur doit être conscient que la conformité aux conditions ci-dessus peut ne pas prévenir la dégradation du service dans certaines situations.

Les réparations effectuées sur l'équipement certifié doivent être coordonnées par un représentant désigné par le fournisseur. Toute réparation ou modification apportée par l'utilisateur au présent équipement, ou toute défectuosité de l'équipement, peut donner à la société de télécommunications le droit d'exiger le débranchement de l'équipement par l'utilisateur.

Le présent équipement ne contient aucune pièce qui puisse être réparée par l'utilisateur.

Les utilisateurs doivent s'assurer, pour leur propre protection, que la mise électrique à la terre des services électriques, lignes téléphoniques et réseaux hydrauliques métalliques internes, le cas échéant, a été raccordée. Cette précaution s'avère particulièrement importante dans les régions rurales. Attention : L'utilisateur ne doit pas tenter de faire ces raccordements lui-même; il doit avoir recours à un service d'inspection des installations électriques ou à un électricien, selon le cas.

L'indice d'équivalence de la sonnerie (IES) sert à indiquer le nombre maximal de terminaux pouvant être raccordés à une interface téléphonique. La terminaison d'une interface peut consister en une combinaison quelconque de dispositifs, à la seule condition que la somme des IES de tous les dispositifs n'excède pas cinq.

Japan – Ordinance 31 Compliance / 日本 – 条例 31 の順守

The following FXO interface modules should not be used on lines with greater than 1300Ohms of DC resistance (typically 7.7km in length).

次の FXO インターフェース モジュールは直流抵抗 1300Ohm 以上のラインにて使用しないでください (通常長さにして 7.7km)。

| Module Number / モジュール番号 | Module Number / モジュール番号 |
|-------------------------|-------------------------|
| SIC 1FXO | SIC 2FXO |

New Zealand – Interface Compliance

Configuring the ADSL2+ interface for the first time

If you are using the SIC-1ADSL module in New Zealand, please do the following to install and configure the router:

Follow the installation instructions provided with the router.

On a computer that is connected to the router via the console port type the following:

```
System <cr>
ACL number 2000<cr>
rule permit<cr>
quit<cr>
interface virtual-template 1<cr>
ppp pap local-user username@domain name password simple password<cr>
ip address ppp-negotiate<cr>
nat outbound 2000<cr>
quit<cr>
Interface ATM 2/0 <cr>
PVC 0/100<cr>
encapsulation aal5mux<cr>
map ppp virtual-template 1<cr>
ctrl-z
save<cr>
y<cr>
<cr>
```

Singapore – Info-Communications Development Authority (IDA) Compliance

**Complies with
IDA Standards
DB100427**