

Alcatel-Lucent 7368

INTELLIGENT SERVICES ACCESS MANAGER ONT

G-240W-B PRODUCT GUIDE

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This document was originally written in English. If there is any conflict or inconsistency between the English version and any other version of a document, the English version shall prevail.

Preface

This preface provides general information about the documentation set for optical network terminals (ONTs).

Scope

This documentation set provides information about safety, features and functionality, ordering, hardware installation and maintenance, and software installation procedures for the current release.

Audience

This documentation set is intended for planners, administrators, operators, and maintenance personnel involved in installing, upgrading, or maintaining the ONTs.

Required knowledge

The reader must be familiar with general telecommunications principles.

Acronyms and initialisms

The expansions and optional descriptions of most acronyms and initialisms appear in the glossary.

Assistance and ordering phone numbers

Alcatel-Lucent provides global technical support through regional call centers. Phone numbers for the regional call centers are available at the following URL: <u>http://www.alcatel-lucent.com/myaccess</u>.

For ordering information, contact your Alcatel-Lucent sales representative.

Alcatel-Lucent quality processes

Alcatel-Lucent's ONT manufacturing, testing, and inspecting practices are in compliance with GR-1252-CORE and TL 9000 requirements. These requirements are documented in the Operations Quality Plan 8BD-00023-4204-QRZZA, the Alcatel North American Quality Manual 8BD-00001-0000-QRZZA, and the Wireline Network Quality Manual 8AB-83179-0001-QRAAA.

The quality plans and practices adequately ensure that technical requirements and customer end-point requirements are met. The customer or its representatives may be allowed to perform on-site quality surveillance audits, as agreed upon during contract negotiations.

Safety information

For safety information, see the appropriate safety guidelines chapter.

Documents

Documents are available using ALED or OLCS.

Procedure 1 To download a ZIP file package of the customer documentation

- 1 Navigate to <u>http://www.alcatel-lucent.com/myaccess</u> and enter your user name and password. If you are a new user and require access to this service, please contact your Alcatel-Lucent sales representative.
- 2 From the Technical Content for drop-down menu, choose the product.
- 3 Click on Downloads: Electronic Delivery.
- 4 Choose Documentation from the drop-down menu and click Next.
- 5 Select the image from the drop-down menu and click Next.
- 6 Follow the on-screen directions to download the file.

Procedure 2 To access individual documents

Individual PDFs of customer documents are also accessible through the Alcatel-Lucent Customer Support website.

- 1 Navigate to <u>http://www.alcatel-lucent.com/myaccess</u> and enter your user name and password. If you are a new user and require access to this service, please contact your Alcatel-Lucent sales representative.
- 2 From the Technical Content for drop-down menu, choose the product.
- 3 Click on Manuals and Guides to display a list of customer documents by title and part number. You can filter this list using the Release drop-down menu.
- 4 Click on the PDF to open or save the file.

Special information

The following are examples of how special information is presented in this document.



Danger – Danger indicates that the described activity or situation may result in serious personal injury or death; for example, high voltage or electric shock hazards.

Danger indique que l'activit éou la situation d écrite peuvent entra îner des blessures corporelles graves ou mortelles; par exemple, haute tension ou de risques d'dectrocution.



Warning – Warning indicates that the described activity or situation may, or will, cause equipment damage or serious performance problems.

Warning indique que l'activit é ou la situation d érite ne peut, ou la volont é des dommages mat ériels de cause ou de graves problèmes de performance



Caution – Caution indicates that the described activity or situation may, or will, cause service interruption.

Caution indique que l'activit éou la situation d écrite peut, ou la volont é le service de la cause interruption.



Note – A note provides information that is, or may be, of special interest.

Une note fournit des informations qui est, ou peut âre, d'un int ér à particulier.

Procedures with options or substeps

When there are options in a procedure, they are identified by letters. When there are required substeps in a procedure, they are identified by roman numerals.

Procedure 3 Example of options in a procedure

At step 1, you can choose option a or b. At step 2, you must do what the step indicates.

- 1 This step offers two options. You must choose one of the following:
 - a This is one option.
 - b This is another option.
- 2 You must perform this step.

Procedure 4 Example of required substeps in a procedure

At step 1, you must perform a series of substeps within a step. At step 2, you must do what the step indicates.

- 1 This step has a series of substeps that you must perform to complete the step. You must perform the following substeps:
 - i This is the first substep.
 - ii This is the second substep.
 - iii This is the third substep.
- 2 You must perform this step.

Multiple PDF document search

You can use Adobe Reader Release 6.0 and later to search multiple PDF files for a common term. Adobe Reader displays the results in a single display panel. The results are grouped by PDF file, and you can expand the entry for each file.



Note – The PDF files in which you search must be in the same folder.

Les fichiers PDF dans lequel vous recherchez doivent âre dans le même dossier

Procedure 5 To search multiple PDF files for a common term

- 1 Open Adobe Acrobat Reader.
- 2 Choose Edit \rightarrow Search from the Acrobat Reader main menu. The Search PDF panel appears.
- 3 Enter the search criteria.

- 4 Click on the All PDF Documents In radio button.
- 5 Select the folder in which to search using the drop-down menu.
- 6 Click on the Search button.

Acrobat Reader displays the search results. You can expand the entries for each document by clicking on the + symbol.

ETSI ONT safety guidelines

This chapter provides information about the mandatory regulations that govern the installation and operation of the optical network terminals (ONTs).

Safety instructions

This section describes the safety instructions that are provided in the ONT customer documentation and on the equipment.

Safety instruction boxes

The safety instruction boxes are provided in the ONT customer documentation. Observe the instructions to meet safety requirements.

The following is an example of the Danger box.



Danger – Possibility of personal injury. Possibilit éde blessures.

The Danger box indicates that the described activity or situation may pose a threat to personal safety. It calls attention to a situation or procedure which, if not correctly performed or adhered to, may result in death or serious physical harm.

Do not proceed beyond a Danger box until the indicated conditions are fully understood and met.

The following is an example of the Warning box.



Warning 1 – Possibility of equipment damage. Possibilit é de dommages mat ériels.

Warning 2 – Possibility of data loss. Possibilit é de perte de donn és. The Warning box indicates that the described activity or situation may, or will, cause equipment damage, loss of data, or serious performance problems. It identifies a possible equipment-damaging situation or provides essential information to avoid the degradation of system operations or data.

Do not proceed beyond a warning until the indicated conditions are fully understood and met.

The following is an example of the Caution box.



Caution 1 – Possibility of service interruption. Possibilit éd'interruption de service.

Caution 2 – Service interruption. Interruption de service

The Caution box indicates that the described activity or situation may, or will, cause service interruption.

Do not proceed beyond a caution until the indicated conditions are fully understood and met.

The following is an example of the Note box.



Note – Information of special interest. L'information d'int ét à sp écial.

The Note box provides information that assists the personnel working with ONTs. It does not provide safety-related instructions.

Safety-related labels

The ONT equipment is labeled with the specific safety instructions and compliance information that is related to a variant of the ONT. Observe the instructions on the safety labels.

Table 1 provides sample safety labels on the ONT equipment.

Table	e 1	Safety	labels
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Description	Label text
ESD warning	Caution: This assembly contains an electrostatic sensitive device.
Laser classification	Class 1 laser product
PSE marking	These power supplies are Japan PSE certified and compliant with Japan VCCI emissions standards.

Figure 1 shows the PSE certification.

Figure 1 PSE certification

Warning	This is a Class B product based on the standard of the Voluntary Control Council for Interference from Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.
警告	VCCI準拠クラスB機器(日本) この機器は、Information Technology EquipmentのVoluntary Control Council for Interference (VCCI) の規格に準拠したクラスB製品です。この機器をラジオやテレビ受信機の近くで使用した場合、 混信を発生する恐れがあります。本機器の設置および使用に際しては、取扱い説明書に従って ください。

19841

Safety standards compliance

This section describes the ONT compliance with the European safety standards.

EMC, EMI, and ESD compliance

The ONT equipment complies with the following EMC, EMI, and ESD requirements:

- EN 300-386 V1.3.2 (2003-05): Electromagnetic Compatibility and Radio Spectrum Matters (ERM): Telecommunications Network Equipment; Electromagnetic Compatibility (EMC) requirements; Electrostatic Discharge (ESD) requirements
- EN 55022 (1998): Class B, Information Technology Equipment, Radio Disturbance Characteristics, limits and methods of measurement
- EN 55024 (1998): Information Technology Equipment, Immunity Characteristics, limits and methods of measurement
- European Council Directive 2004/108/EC
- EN 300-386 V1.4.1: 2008
- EN 55022:2006 Class B (ONTs)
- EN EN 61000-3-2:2006
- EN EN 61000-3-3:2008
- IEC 61000-4-2:2001
- IEC 61000-4-3:2006
- IEC 61000-4-4:2004
- IEC 61000-4-5:2005
- IEC 61000-4-6:2003/A1:2004/A2:2006
- IEC 61000-4-11:2004

Equipment safety standard compliance

The ONT equipment complies with the requirements of EN 60950-1, Safety of Information Technology Equipment for use in a restricted location (per R-269).

Environmental standard compliance

The ONT equipment complies with the EN 300 019 European environmental standards.

Laser product standard compliance

For most ONTs, the ONT equipment complies with EN 60825-1 and IEC 60825-2 for laser products. If there is an exception to this compliance regulation, you can find this information in the standards compliance section of the unit data sheet in this Product Guide.

Resistibility requirements compliance

The ONT equipment complies with the requirements of ITU Recommendation K.21 for resistibility of telecommunication equipment installed in customer premises to over voltage and overcurrents.

Acoustic noise emission standard compliance

The ONT equipment complies with EN 300 753 acoustic noise emission limit and test methods.

Electrical safety guidelines

This section provides the electrical safety guidelines for the ONT equipment.



Note 1 – The ONTs comply with the U.S. National Electrical Code. However, local electrical authorities have jurisdiction when there are differences between the local and U.S. standards.

Les ONT sont conformes à la US National Electrical Code. Cependant, les autorit és locales dectriques ont comp dence quand il ya des diff érences entre les normes locales et am éricaines.

Note 2 – The ONTs comply with BS EN 61140. Les ONT sont conformes à la norme BS EN 61140

Power supplies

The use of any non-Alcatel-Lucent approved power supplies or power adapters is not supported or endorsed by Alcatel-Lucent. Such use will void any warranty or support contract with Alcatel-Lucent. Such use greatly increases the danger of damage to equipment or property.

Cabling

The following are the guidelines regarding cables used for the ONT equipment:

- All cables must be approved by the relevant national electrical code.
- The cables for outdoor installation of ONTs must be suitable for outdoor use.
- POTS wiring run outside the subscriber premises must comply with the requirements of local electrical codes. In some markets, the maximum allowed length of the outside run is 140 feet (43 m). If the outside run is longer, NEC requires primary protection at both the exit and entry points for the wire.

Protective earth

Earthing and bonding of the ONTs must comply with the requirements of local electrical codes.

ESD safety guidelines

The ONT equipment is sensitive to ESD. Operations personnel must observe the following ESD instructions when they handle the ONT equipment.



Caution – This equipment is ESD sensitive. Proper ESD protections should be used when you enter the TELCO Access portion of the ONT.

Cet équipement est sensible ESD. Protections relatives aux décharges dectrostatiques doivent êre utilis és lorsque vous entrez dans la partie d'acc ès TELCO de l'ONT

During installation and maintenance, service personnel must wear wrist straps to prevent damage caused by ESD.

Laser safety guidelines

Observe the following instructions when you perform installation, operations, and maintenance tasks on the ONT equipment.

Only qualified service personnel who are extremely familiar with laser radiation hazards should install or remove the fiber optic cables and units in this system.



Danger – There may be invisible laser radiation at the fiber optic cable when the cable is removed from the connector. Avoid direct exposure to the laser beam.

Il peut y avoir un rayonnement laser invisible sur le câble à fibre optique lorsque le câble est retir é du connecteur. Éviter l'exposition directe au rayon laser.

Observe the following danger for laser hazard. Eyes can be damaged when they are exposed to a laser beam. Take necessary precautions before you plug in the optical modules.



Danger – Possibility of equipment damage. Risk of eye damage by laser radiation.

Possibilit é de dommages mat ériels. Risque de l ésions oculaires par un rayonnement laser.

Laser classification

The ONT is classified as a Class 1 laser product based on its transmit optical output.

Laser warning labels

The following figures show the labels related to laser product, classification and warning.

Figure 2 shows a laser product label.

Figure 2 Laser product label



18455

Figure 3 shows a laser classification label. Laser classification labels may be provided in other languages.





Figure 4 shows a laser warning label and an explanatory label for laser products. Labels and warning may be provided in other languages. The explanatory label provides the following information:

- a warning that calls attention to the invisible laser radiation
- an instruction against staring into the beam or viewing directly with optical instruments
- wavelength
- normal output power
- maximum output power



Figure 4 Laser warning labels

Laser Warning Label

18993

Transmit optical output

The maximum transmit optical output of an ONT is +5 dBm.

Normal laser operation

In normal operation, fiber cable laser radiation is always off until it receives signal from the line terminal card.

Eyes can be damaged when they exposed to a laser beam. Operating personnel must observe the instructions on the laser explanatory label before plugging in the optical module.



Danger – Risk of eye damage by laser radiation.

Risque de l ésions oculaires par un rayonnement laser.

Location class

Use cable supports and guides to protect the receptacles from strain.

Environmental requirements

See the ONT technical specification documentation for more information about temperature ranges.

During operation in the supported temperature range, condensation inside the ONT caused by humidity is not an issue. To avoid condensation caused by rapid changes in temperature and humidity, Alcatel-Lucent recommends:

- The door of the ONT not be opened until temperature inside and outside the enclosure has stabilized.
- If the door of the ONT must be opened after a rapid change in temperature or humidity, use a dry cloth to wipe down the metal interior to prevent the risk of condensation.
- When high humidity is present, installation of a cover or tent over the ONT helps prevent condensation when the door is opened.

ETSI environmental and CRoHS guidelines

This chapter provides information about the ETSI environmental China Restriction of Hazardous Substances (CRoHS) regulations that govern the installation and operation of the optical line termination (OLT) and optical network termination (ONT) systems. This chapter also includes environmental operation parameters of general interest.

Environmental labels

This section describes the environmental instructions that are provided with the customer documentation, equipment, and location where the equipment resides.

Overview

CRoHS is applicable to Electronic Information Products (EIP) manufactured or sold and imported in the territory of the mainland of the People's Republic of China. EIP refers to products and their accessories manufactured by using electronic information technology, including electronic communications products and such subcomponents as batteries and cables.

Environmental related labels

Environmental labels are located on appropriate equipment. The following are sample labels.

Products below Maximum Concentration Value (MCV) label

Figure 1 shows the label that indicates a product is below the maximum concentration value, as defined by standard SJ/T11363-2006 (Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products). Products with this label are recyclable. The label may be found in this documentation or on the product.

Figure 1 Products below MCV value label



18986

Products containing hazardous substances above Maximum Concentration Value (MCV) label

Figure 2 shows the label that indicates a product is above the maximum concentration value, as defined by standard SJ/T11363-2006 (Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products). The number contained inside the label indicates the Environment-Friendly User Period (EFUP) value. The label may be found in this documentation or on the product.



Figure 2 Products above MCV value label

18985

Together with major international telecommunications equipment companies, Alcatel-Lucent has determined it is appropriate to use an EFUP of 50 years for network infrastructure equipment and an EFUP of 20 years for handsets and accessories. These values are based on manufacturers' extensive practical experience of the design, manufacturing, maintenance, usage conditions, operating environments, and physical condition of infrastructure and handsets after years of service. The values reflect minimum values and refer to products operated according to the intended use conditions. See "Hazardous Substances Table (HST)" for more information.

Hazardous Substances Table (HST)

This section describes the compliance of the OLT and ONT equipment to the CRoHS standard when the product and subassemblies contain hazardous substances beyond the MCV value. This information is found in this user documentation where part numbers for the product and subassemblies are listed. It may be referenced in other OLT and ONT documentation.

In accordance with the People's Republic of China Electronic Industry Standard Marking for the Control of Pollution Caused by Electronic Information Products (SJ/T11364-2006), customers may access the Alcatel-Lucent Hazardous Substance Table, in Chinese, from the following location:

 <u>http://www.alcatel-sbell.com.cn/wwwroot/images/upload/private/1/media/ChinaR</u> <u>oHS.pdf</u>

Other environmental requirements

Observe the following environmental requirements when handling the P-OLT or ONT equipment.

ONT environmental requirements

See the ONT technical specification documentation for more information about temperature ranges.

Storage

According to ETS 300-019-1-1 - Class 1.1, storage of OLT equipment must be in Class 1.1, weather-protected, temperature-controlled locations.

Transportation

According to EN 300-019-1-2 - Class 2.3, transportation of the OLT equipment must be in packed, public transportation with no rain on packing allowed.

Stationary use

According to EN 300-019-1-3 - Class 3.1/3.2/3.E, stationary use of OLT equipment must be in a temperature-controlled location, with no rain allowed, and with no condensation allowed.

Thermal limitations

When the OLT is installed in the CO or CEV, install air filters on the P-OLT. The thermal limitations for OLT operation in a CO or CEV are:

- operating temperature: 5°C to 40°C (41°F to 104°F)
- short-term temperature: -5°C to 50°C (23°F to 122°F)
- operating relative humidity: 5% to 85%
- short-term relative humidity: 5% to 95%, but not to exceed 0.024 kg of water/kg

Material content compliance

European Union (EU) Directive 2002/95/EC, "Restriction of the use of certain Hazardous Substances" (RoHS), restricts the use of lead, mercury, cadmium, hexavalent chromium, and certain flame retardants in electrical and electronic equipment. This Directive applies to electrical and electronic products placed on the EU market after 1 July 2006, with various exemptions, including an exemption for lead solder in network infrastructure equipment. Alcatel-Lucent products shipped to the EU after 1 July 2006 comply with the EU RoHS Directive.

Alcatel-Lucent has implemented a material/substance content management process. The process is described in: Alcatel-Lucent process for ensuring RoHS Compliance (1AA002660031ASZZA). This ensures compliance with the European Union Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS2). With the process equipment is assessed in accordance with the Harmonised Standard EN50581:2012 (CENELEC) on Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.

End-of-life collection and treatment

Electronic products bearing or referencing the symbol shown in Figure 3, when put on the market within the European Union (EU), shall be collected and treated at the end of their useful life, in compliance with applicable EU and local legislation. They shall not be disposed of as part of unsorted municipal waste. Due to materials that may be contained in the product, such as heavy metals or batteries, the environment and human health may be negatively impacted as a result of inappropriate disposal.



Note – In the European Union, a solid bar under the symbol for a crossed-out wheeled bin indicates that the product was put on the market after 13 August 2005.

Dans l'Union europ éenne, un bar solide sous le symbole d'une poubelle sur roues barr ée d'une croix indique que le produit a té mis sur le march éapr ès le 13 Août 2005.

Figure 3 Recycling/take back/disposal of product symbol



At the end of their life, the OLT products are subject to the applicable local legislations that implement the European Directive 2002/96EC on waste electrical and electronic equipment (WEEE).

There can be different requirements for collection and treatment in different member states of the European Union.

In compliance with legal requirements and contractual agreements, where applicable, Alcatel-Lucent will offer to provide for the collection and treatment of Alcatel-Lucent products bearing the logo shown in Figure 3 at the end of their useful life, or products displaced by Alcatel-Lucent equipment offers. For information regarding take-back of equipment by Alcatel-Lucent, or for more information regarding the requirements for recycling/disposal of product, contact your Alcatel-Lucent account manager or Alcatel-Lucent take back support at takeback@alcatel-lucent.com.

ANSI ONT safety guidelines

This chapter provides information about the mandatory regulations that govern the installation and operation of the optical network terminals or units (ONTs or ONUs) in the North American or ANSI market.

Safety instructions

This section describes the safety instructions that are provided in the ONT customer documentation and on the equipment.

Safety instruction boxes in customer documentation

The safety instruction boxes are provided in the ONT customer documentation. Observe the instructions to meet safety requirements.

The following is an example of the Danger box.



Danger – Possibility of personal injury. Possibilit éde blessures

The Danger box indicates that the described activity or situation may pose a threat to personal safety. It calls attention to a situation or procedure which, if not correctly performed or adhered to, may result in death or serious physical harm.

Do not proceed beyond a Danger box until the indicated conditions are fully understood and met.

The following is an example of the Warning box.



 Warning 1 – Possibility of equipment damage. Possibilit éde dommages mat ériels
 Warning 2 – Possibility of data loss. Possibilit éde perte de donn és.

The Warning box indicates that the described activity or situation may, or will, cause equipment damage, loss of data, or serious performance problems. It identifies a possible equipment-damaging situation or provides essential information to avoid the degradation of system operations or data.

Do not proceed beyond a warning until the indicated conditions are fully understood and met.

The following is an example of the Caution box.



Caution 1 – Possibility of service interruption. Possibilit éd'interruption de service

Caution 2 – Service interruption. Interruption de service.

The Caution box indicates that the described activity or situation may, or will, cause service interruption.

Do not proceed beyond a caution until the indicated conditions are fully understood and met.

The following is an example of the Note box.



Note – Information of special interest. L'information d'int é à sp écial.

The Note box provides information that assists the personnel working with ONTs. It does not provide safety-related instructions.

Safety-related labels

The ONT equipment is labeled with specific safety compliance information and instructions that are related to a variant of the ONT. Observe the instructions on the safety labels.

Table 1 provides examples of the text in the various ONT safety labels.

Description	Label text
UL compliance	Communication service equipment US listed. Type 3R enclosure - Rainproof.
TUV compliance	Type 3R enclosure - Rainproof.
ESD warning	Caution: This assembly contains electrostatic sensitive device.

Description	Label text
Laser classification	Class 1 laser product
Laser product compliance	This laser product conforms to all applicable standards of 21 CFR 1040.10 at date of manufacture.
FCC standards compliance	Tested to comply with FCC standards for home or office use.
CDRH compliance	Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007
Operation conditions	This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Canadian standard compliance (modular ONT)	This Class A digital apparatus complies with Canadian ICES-003.
Canadian standard compliance (outdoor ONT)	This Class B digital apparatus complies with Canadian ICES-003.
CE marking	There are various CE symbols for CE compliance.

(2 of 2)

Figure 1 shows a sample safety label on the ONT equipment.





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Safety standards compliance

This section describes the ONT compliance with North American safety standards.



Warning – Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Les changements ou modifications de cette unit é non express ément approuv és par la partie responsable de la conformit épourraient annuler l'autorit éde l'utilisateur àutiliser l'équipement.

EMC, EMI, and ESD standards compliance

The ONT equipment complies with the following requirements:

- Federal Communications Commission (FCC) CFR 47, Part 15, Subpart B, Class A requirements for OLT equipment
- GR-1089-CORE requirements, including:
 - Section 3 Electromagnetic Interference, Emissions Radiated and Conducted
 - Section 3 Immunity, Radiated and Conducted
 - Section 2 ESD Discharge Immunity: System Level Electrostatic Discharge and EFT Immunity: Electrically Fast Transients

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is needed.
- Consult the dealer or an experienced radio/TV technician for help.

Equipment safety standard compliance

The ONT equipment complies with the requirements of UL60950-1, Outdoor ONTs to "Communication Service Equipment" (CSE) and Indoor ONTs to Information Technology Equipment (ITE).

Environmental standards compliance

The ONT equipment complies with the following standards:

- GR-63-CORE (NEBS): requirements related to operating, storage, humidity, altitude, earthquake, office vibration, transportation and handling, fire resistance and spread, airborne contaminants, illumination, and acoustic noise
- GR-487-CORE: requirements related to rain, chemical, sand, and dust
- GR-487 R3-82: requirements related to condensation
- GR-3108: Requirements for Network Equipment in the Outside Plant (OSP)
- TP76200: Common Systems Equipment Interconnections Standards

Laser product standards compliance

The ONT equipment complies with 21 CFR 1040.10 and CFR 1040.11, except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007" or to 21 CFR 1040.10 U.S. Center for Devices and Radiological Health (CDRH) of the Food and Drug Administration (FDA) Laser Notice 42 for ONTs containing Class 1 Laser modules certified by original manufactures.

Per CDRH 21 CFR 10.40.10 (h) (1) (iv) distributors of Class 1 laser products, such as ALU ONTs shall leave the following Laser Safety cautions with the end user.

a) "Class 1 Laser Product"

b) "Caution – Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure."

Figure 2 shows a laser product label.

Figure 2 Sample laser product label showing CDRH 21 CFR compliance



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Resistibility requirements compliance

The ONT equipment complies with the requirements of ITU Recommendation K.21 for resistibility of telecommunication equipment installed in customer premises to overvoltage and overcurrents.

Laser safety guidelines

Only qualified service personnel who are extremely familiar with laser radiation hazards should install or remove the fiber optic cables and units in this system.

Observe the following warnings when you perform installation, operations, and maintenance tasks on the ONT equipment.



Danger – There may be invisible laser radiation at the fiber optic cable when the cable is removed from the connector. Avoid direct exposure to beam.

Il peut y avoir un rayonnement laser invisible sur le câble à fibre optique lorsque le câble est retir é du connecteur. Éviter l'exposition directe au rayon Observe the following danger for a laser hazard. Eyes can be damaged when they are exposed to a laser beam. Take necessary precautions before you plug in the optical modules.



Danger – Possibility of equipment damage. Risk of eye damage by laser radiation.

Possibilit éde dommages mat ériels. Risque de l ésions oculaires par un rayonnement laser.

Per CDRH 21 CFR 10.40.10 (h) (1) (iv) distributors of Class 1 laser products, such as ALU ONTs shall leave the following Laser Safety cautions with the end user.

a) "Class 1 Laser Product"

b) "Caution – Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure."

Laser warning labels

The following figures show sample labels related to laser product, classification and warning.

Figure 3 shows a laser product label.





18455

Figure 4 shows a laser classification label. Laser classification labels may be provided in other languages.





Figure 5 shows a laser warning label and an explanatory label for laser products. Explanatory labels may be provided in other languages. The explanatory label provides the following information:

- a warning that calls attention to the invisible laser radiation
- an instruction against staring into the beam or viewing directly with optical instruments
- wavelength
- normal output power
- maximum output power



Figure 5 Laser warning labels

CLASS 1 LASER PRODUCT RAYONNEMENT LASER CLASSE 1 RAYONNEMENT LASER INVISIBLE EVITER TOUTE EXPOSITION AU FAISCEAU NE PAS DEMONTER. FAIRE APPEL A UN PERSONNELL QUALIFIE CLASE 1 DELLASER RADIACION DE LASER INVISIBLE. EVITAR CUALOUIER EXPOSICION AL RAYO LASER. NO DESMONTAR. LLAMAR A PERSONAL AUTORIZADO INVISIBLE LASER RADIATION PRESENT AT FIBER OPTIC CABLE WHEN NOT CONNECTED. AVOID DIRECT EXPOSURE TO BEAM.

Laser Warning Label

18993

Laser classification

The ONT is classified as a Class 1 laser product based on its transmit optical output.

For Class 1 laser products, lasers are safe under reasonably foreseeable conditions of operation, including the use of optical instruments for intrabeam viewing.

Figure 6 shows a sample laser product safety label on the ONT equipment.

Figure 6 Sample laser product safety label on the ONT equipment



18532

Transmit optical output

The maximum transmit optical output of an ONT is +5 dBm.

Normal laser operation

In normal operation, fiber cable laser radiation is always off until it receives signal from the line terminal card.

Operating personnel must observe the instructions on the laser explanatory label before plugging in the optical module.



Danger – Risk of eye damage by laser radiation.Risque de l ésions oculaires par un rayonnement laser.

Location class

Use cable supports and guides to protect the receptacles from strain.

Electrical safety guidelines

This section provides the electrical safety guidelines for the ONT equipment.



Note – The ONTs comply with the U.S. National Electrical Code. However, local electrical authorities have jurisdiction when there are differences between the local and U.S. standards.

Les ONT sont conformes à la US National Electrical Code. Cependant, les autorit és locales dectriques ont comp dence quand il ya des diff érences entre les normes locales et am éricaines.

Power supplies

The use of any non-Alcatel-Lucent approved power supplies or power adapters is not supported or endorsed by Alcatel-Lucent. Such use will void any warranty or support contract with Alcatel-Lucent. Such use greatly increases the danger of damage to equipment or property.

Cabling

The following are the guidelines regarding cables used for the ONT equipment:

- Use only cables approved by the relevant national electrical code.
- Use cables suitable for outdoor use for outdoor installation of ONTs.
- The ONTs have been evaluated for use with external POTS wiring without primary protection that may not exceed 140 ft (43 m) in reach. However, the power cable must not exceed 100 ft (31 m).

Protective earth

Earthing and bonding of the ONTs must comply with the requirements of NEC article 250 or local electrical codes.

ESD safety guidelines

The ONT equipment is sensitive to ESD. Operations personnel must observe the following ESD instructions when they handle the ONT equipment.



Caution – This equipment is ESD sensitive. Proper ESD protections should be used when entering the TELCO Access portion of the ONT.

Cet équipement est sensible ESD. Protections ESD appropri és doivent êre utilis és lors de l'entr é de la partie TELCO acc ès de l'ONT

During installation and maintenance, service personnel must wear wrist straps to prevent damage caused by ESD.

Alcatel-Lucent recommends that you prepare the site before you install the ONT equipment. In addition, you must control relative humidity, use static dissipating material for furniture or flooring, and restrict the use of air conditioning.

Environmental requirements

See the ONT technical specification documentation for temperature ranges for ONTs.

During operation in the supported temperature range, condensation inside the ONT caused by humidity is not an issue. To avoid condensation caused by rapid changes in temperature and humidity, Alcatel-Lucent recommends:

- The door of the ONT not be opened until temperature inside and outside the enclosure has stabilized.
- If the door of the ONT must be opened after a rapid change in temperature or humidity, use a dry cloth to wipe down the metal interior to prevent the risk of condensation.
- When high humidity is present, installation of a cover or tent over the ONT helps prevent condensation when the door is opened.

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1.1 G-240W-B part numbers and identification

Table 1-1 provides part numbers and identification information for the G-240W-B indoor ONT.

Mnemonic	Ordering kit part number	Provisioning number	Description	CLEI	CPR	ECI/ Bar code
G-240W-B	3FE 56636 AA	3FE 56756 BAAA	Package P 2 POTS ports, 4 10/100/1000 Base-T Ethernet interfaces, and 802.11b/g/n/ac Wi-Fi radio with on/off switch. This ONT also has 2 USB ports, 1 USB 3.0 and 1 USB 2.0. Includes 3-pin wall-mounted US AC/DC adapter.	-	_	_
	3FE 56636 BA	3FE 56756 AABA	Package P 2 POTS ports, 4 10/100/1000 Base-T Ethernet interfaces, and 802.11b/g/n/ac Wi-Fi radio with on/off switch. This ONT also has 2 USB ports, 1 USB 3.0 and 1 USB 2.0. Includes 2-pin wall-mounted European (EU) AC/DC adapter.	-	-	_
	3FE 56636 CA	3FE 56756 AABA	Package P 2 POTS ports, 4 10/100/1000 Base-T Ethernet interfaces, and 802.11b/g/n/ac Wi-Fi radio with on/off switch. This ONT also has 2 USB ports, 1 USB 3.0 and 1 USB 2.0. Includes 3-pin wall-mounted British (UK) AC/DC adapter.	-	-	_
	3FE 56636 CB Customer-spe cific	3FE 56756 ABBA	Package P 2 POTS ports, 4 10/100/1000 Base-T Ethernet interfaces, and 802.11b/g/n/ac Wi-Fi radio with on/off switch. This ONT also has 2 USB ports, 1 USB 3.0 and 1 USB 2.0. Includes 3-pin wall-mounted British (UK) AC/DC adapter.	_	_	_

Table 1-1 Identification of G-240W-B indoor ONTs

Table 1-2 provides power supply ordering information about the G-240W-B ONT. For more information on power supplies, see the 7368 ISAM ONT Power Supply and UPS Guide.

Power model	Power information	Customer category or country compliance tested for	Notes
Mass Power	36 Watt AC/DC power adapter	ANSI municipality United States, Canada	

Table 1-2 G-240W-B power supply

1.2 G-240W-B general description

G-240W-B indoor ONTs provide the subscriber interface for the network by terminating the PON interface and converting it to user interfaces that directly connect to subscriber devices. The ONT is compatible with all existing subscriber equipment, including analog phones with both tone and rotary dial capabilities, cordless phones, modems, fax machines, and caller ID boxes (Type I, Type II, and Type III).

G-240W-B indoor ONTs provide the following functions:

- Single fiber GPON interface with 1.244Gbit/s upstream and 2.488Gbit/s downstream data rates
- Advanced data features such as VLAN tag manipulation, classification, and filtering.
- Traffic classification and QoS capability
- Analog Telephone Adapter (ATA) function integrated based on SIP (RFC3261) and H.248, with various CLASS services supported, including Caller ID, Call Waiting, Call Forwarding, and Call Transfer
- 5 REN per line
- Multiple voice Codec
- MDI/MDIX auto-negotiation
- Line Rate L2 traffic
- Internal Switch
- UPnP IGD1.0 support
- Bridged mode or routed mode per LAN port
- Optics that support received signal strength indication (RSSI)
- Internal DHCP server, with configurable DHCP pool and gateway
- WPS on wireless authorization support
- Configurable Wi-Fi tx power from 100mw to 500mw, in 100mw increments.
- Enhanced ONT; SSH-Telnet-FTP and http server are disabled from the WAN side
- Concurrent 802.11n 3x3 MIMO in 2.4GHz and 802.11ac 4x4 MIMO in 5GHz
- 64/128 WEP encryption
- WPA, WPA-PSK/TKIP
- WPA2, WPA2-PSK/AES

1 – G-240W-B unit data sheet

- support for multiple SSIDs (private and public instances); contact your ALU representative for further details.
- WLAN on/off push button
- WPS/PBC buttons (for 2.4G and 5G)
- Ethernet-based Point-to-Point (PPPoE)
- Network Address Translation (NAT)
- Network Address Port Translation (NAPT)
- ALG and UpnP port forwarding
- DMZ
- IP/MAC filter
- Multi-level firewall
- DNS server
- DHCP client/server
- support for HT40 mode for increased channel bandwidth
- support for up to 20 simultaneous wireless connections
- External USB HD (Hard Drive) support, accessible to all LAN devices

1.3 G-240W-B software and installation feature support

For information on installing or replacing the G-240W-B see:

- Install a G-240W-B indoor ONT
- Replace a G-240W-B indoor ONT

For information on the following topics, see the 7368 ISAM ONT Product Overview Guide:

- ONT and MDU general descriptions of features and functions
- Ethernet interface specifications
- POTS interface specifications
- RSSI specifications
- Wi-Fi specifications
- ONT optical budget
- SLID entry via Ethernet port
- ONT management using an ONT interface

1.4 G-240W-B interfaces and interface capacity

Table 1-3 describes the supported interfaces and interface capacity for G-240W-B indoor ONTs.

ONT type	Maximum capacity								
	POTS	10/ 100 BASE-T	10/ 100/ 1000 BASE-T	RF video (CATV)	MoCA	VDSL2	E1/T1	Local craft	GPON SC/ APC
G-240W-B ⁽¹⁾	2	-	4	-	-	—	-	_	1

Table 1-3 G-240W-B indoor ONT interface connection capacity

Note

⁽¹⁾ The G-240W-B ONTs provide Wi-Fi service that is enabled and disabled using a Wi-Fi on/off switch.

G-240W-B connections and components

Figure 1-1 shows the physical connections for G-240W-B indoor ONTs,



Figure 1-1 G-240W-B indoor ONT physical connections

Table 1-4 describes the physical connections for G-240W-B indoor ONTs.

Table 1-4 G-240W-E	3 indoor ONT	physical	connections
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Connection ⁽¹⁾	Description
USB ports	This connection is provided through 2 USB ports, 1 USB 3.0 and 1 USB 2.0. The ONT supports external USB hard drives that can be made accessible to all LAN devices.

(1 of 2)

Connection ⁽¹⁾	Description
POTS ports	This connection is provided through RJ-11 ports. Up to two POTS connections are supported. The POTS ports support voice services.
Ethernet ports	This connection is provided through Ethernet RJ-45 connectors. Up to four 10/100/1000 Base-T Ethernet interfaces are supported. The Ethernet ports can support both data and in-band video services on all four interfaces.
WPS buttons	The Wi-Fi Protected Setup buttons are labeled WPS2.4G and WPS5G. These buttons enable and disable WLAN data encryption.
WLAN button	Wi-Fi service is compliant with IEEE 802.11 standards and is enabled and disabled using the WLAN button.
Reset button	This button resets the ONT to the factory defaults.
Power input	This connection is provided through the power connector. A power cable fitted with a barrel connector is used to make the connection.
On/Off button	This button turns the ONT on or off.

(2 of 2)

Note

⁽¹⁾ The primary path for the earth ground for these ONTs is provided by the 12V Return signal in the power connector.

1.5 G-240W-B LEDs

Figure 1-2 shows the G-240W-B indoor ONT LEDs.



Figure 1-2 G-240W-B indoor ONT LEDs

24615



Table 1-5 G-240W-B indoor ONT LEDs

Indicator	LED color and behavior	LED behavior description
Power	Green solid Red solid Off	Power on Light failed on startup (for example corrupt flash), or self test failed on startup, or self test failed during regular operation or when executed over OMCI Power off
BTR	Off Green	Battery alarm set or battery not provisioned (not affected by AC power failure) Battery charged; no battery alarms
Link	Green solid Off	GPON link between ONT and OLT is operating normally GPON link is down or no link connected
Auth	Green solid Green flashing Off	ONT is authorized ONT is process of ranging or synchronizing on OMCI ONT is not authorized
LAN 1 to 4	Green solid Green flashing Off	Ethernet is linked LAN activity is present (in either direction) ONT power is off or Ethernet is not connected
TEL 1 to 2	Green solid Green flashing Off	Off hook Call in or talking On hook
VOIP	Green solid Off	VOIP service is OK VOIP service is not OK
WPS 2.4G and 5G	Green solid Green flashing Off	Wireless LAN link is up Wireless LAN link activity Wireless LAN link is down or no link is connected
WLAN 2.4G and 5G	Green solid Green flashing Off	Wireless is enabled There is traffic on wireless interface Wireless is down or no link is connected
USB	Green solid Green flashing Off	At least one USB device is connected There is traffic activity on at least on USB device No USB device is connected
INTERNET	Green solid Green flashing	HSI WAN is connected: a) the device has an IP address assigned from IPCP, DHCP, or static, and no traffic has been detected; b) the session is dropped due to idle timeout but the PON link is still present. PPPoE or DHCP connection in progress
	Off	HSI WAN is not connected: a) there is no physical interface connection; b) the device is in bridged mode without an assigned IP address; c) the session has been dropped for reasons other than idle timeout.

1.6 G-240W-B detailed specifications

Table 1-6 lists the physical specifications for G-240W-B indoor ONTs.

Description	Specification
Length	11.8 in. (300 mm)
Width	7.3 in. (185 mm)
Height	1.4 in. (36 mm)
Weight [within ± 0.5 lb (0.23 kg)]	1.33 lb (0.61 kg)

Table 1-6 G-240W-B indoor ONT physical specifications

Table 1-7 lists the power consumption specifications for G-240W-B indoor ONT.

Table	1-7	G-240W-B	indoor	ONT	power	consumption	specifications
Iupie	• •	0 2 10 11 2	maoor		P0	companyperon	specifications

Mnemonic	Maximum power (Not to exceed)	Condition	Minimum power	Condition
G-240W-B (3FE 56525 AAAA)	30 W	2 POTS off-hook, 4 10/100/1000 Base-T Ethernet, Wi-Fi operational	12 W	2 POTS on-hook, other interfaces/services not provisioned

Table 1-8 lists the environmental specifications for G-240W-B indoor ONT.

Table 1-8 G-240W-B indoor ONT	environmental specifications
-------------------------------	------------------------------

Mounting method	Temperature range and humidity	Altitude
On desk or wall mounted	Operating: 23°F to 113°F (-5°C to 45°C) ambient temperature 10% to 90% relative humidity, non-condensing	Contact your Alcatel-Lucent technical support representative for more information
	Storage: Contact your Alcatel-Lucent support representative for more information	

1.7 G-240W-B GEM ports and T-CONTs

Table 1-9 lists the maximum number of supported T-CONTs and GEM ports. See the appropriate release Customer Release Notes for the most accurate list of supported devices.

ONT or MDU	Maximum	Notes
Package P ONTs		
GEM ports per indoor or outdoor ONT	64	_

Table 1-9 G-240W-B indoor OI	NT capacity for	GEM ports and T-CONTs
------------------------------	-----------------	------------------------------

(1 of 2)

ONT or MDU	Maximum	Notes
T-CONTs per indoor or outdoor ONT	32	_

(2 of 2)

1.8 G-240W-B performance monitoring statistics

The following section identifies the supported performance monitoring statistics for G-240W-B ONTs. A check mark indicates the statistic is supported on that ONT. An empty cell indicates the statistic is not supported. The following tables are categorized by supported alarm types:

- Table 1-10 provides statistics for ONTENET type counters
- Table 1-11 provides statistics for ONTL2UNI type counters
- Table 1-12 provides statistics for PONONTTC, PONONTMCTC, PONONTTCHSI, PONONTTCCES, PONONTTCFLOW, and PONONTTCVOIP type counters
- Table 1-13 provides statistics for PONONTTC aggregate type counters



Note – If you have trouble accessing G-240W-B ONTs performance monitoring statistics using TL1, please contact your Alcatel-Lucent support representative for more information about how to access and retrieve performance monitoring type counters.

Si vous avez des difficult & àacc éder statistiques de suivi de la performance G-240W-B ONT utilisant TL1, se il vous pla î contacter votre repr ésentant de support d'Alcatel-Lucent pour plus d'informations sur la fa çon d'acc éder et de r écup érer des compteurs de performance de type de surveillance.

Table 1-10 Package P ONTs ONTENET	performance monitoring st	tatistics
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ONT	ONTENET statistics													
	FCSE	EC	ГC	RBO	SCF	MCF	DT	IMTE	CSE	AE	IMRE	Ę	TBO	SQE
G-240W-B ⁽¹⁾	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Note

⁽¹⁾ A 5 second polling window limitation exists on the ONT, therefore the margin of error for each 15-min window is 5 seconds

ONT	ONTL2UNI statistics										
	FRAMES	BYTES	MCFRAMES	DSDRPDFRMS	USDRPDFRMS	USFRAMES	DSFRAMES	USBYTES	DSBYTES	USMCFRAMES	DSMCFRAMES
G-240W-B (1)	1	1	1	1	1	1	1	1	1	1	1

Table 1-11 Package P ONTs ONTL2UNI performance monitoring statistics

Note

⁽¹⁾ A 5 second polling window limitation exists on the ONT, therefore the margin of error for each 15-min window is 5 seconds

Table 1-12 Package P ONTs PONONTTC	, PONONTMCTC	, PONONTTCHSI,	PONONTTCCES,
PONONTTCFLOW, PONONTTC	VOIP performan	ce monitoring st	atistics

ONT	PONONTTC, PONONTMCTC, PONONTTCHSI, PONONTTCCES, PONONTTCFLOW, PONONTTCVOIP statistics							
	TXBLOCKS	TXFRAGS	RXBLOCKS	RXFRAGS	LOSTFRAGS	BADGEMHDRS		
G-240W-B ⁽¹⁾	1	1	1	1	1			

Note

⁽¹⁾ A 5 second polling window limitation exists on the ONT, therefore the margin of error for each 15-min window is 5 seconds

Table 1-13 Packade P ONTs	PONONTTC aggregate performance	monitoring statistics
Table I-ISTackage I Ollis	i ononi i c aggi egate periormance	mornioring statistics

ONT	PONONTTC (aggregate) statistics							
	TXBLOCKS	TXFRAGS	RXBLOCKS	RXFRAGS	LOSTFRAGS	BADGEMHDRS		
G-240W-B ⁽¹⁾	1	1	1	1	1			

Note

⁽¹⁾ A 5 second polling window limitation exists on the ONT, therefore the margin of error for each 15-min window is 5 seconds

1.9 G-240W-B functional blocks

G-240W-B indoor ONTs are single-residence ONTs that support Wireless (Wi-Fi) service. Wi-Fi service on these ONTs is compliant with the IEEE 802.11 standard and enabled or disabled using a WLAN button. In addition to the Wi-Fi service, these ONTs transmit Ethernet packets to four RJ-45 Ethernet ports and voice traffic to two RJ-11 POTS ports. These ONTs also feature fiber optic, USB, and power connectors.

Figure 1-3 shows the functional blocks for G-240W-B indoor ONT.

Figure 1-3 Single-residence Wi-Fi ONT with Gigabit Ethernet and POTS and without RF video



ONT SoC technology serves as the main hardware block for these ONTs; see Figure 1-4.

Figure 1-4 G-240W-B ONT hardware block



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ONT SoC technology consists of five key elements:

• GPON MAC

The Gigabit Passive Optical Network Media Access Control (GPON MAC) element on the SoC terminates the GPON interface using an optical diplexer. This interface supports GPON as described in G.984.3 (GPON TC Layer) ITU specification.

- Ethernet MAC The SoC provides up to four GE MACs.
- DSP interface

The Digital Signal Processor (DSP) provides voice processing for 2 POTS lines with 3-way calling. The DSP has a dedicated 64 kbyte instruction cache and shares a 32 kbyte data cache with the Control Processor. It provides up to 4 network processor cores, each at 800MHz.

Control Processor

The Control Processor features an integral memory management unit that supports a dedicated 64 kbyte instruction cache and shares a single 32 kbyte data cache with the DSP. The Control Processor and DSP also include a single channel Data Management Application (DMA) controller with a 4 kbyte read ahead low-latency Dynamic Random Access Memory (DRAM) access port. The processors typically run at 500 MHz.

Switch matrix

The Switch matrix provides an integrated data channel between the four GE MACs, the GPON MAC, the DSP, the control processor, and the other integrated elements such as flash memory, DRAM, and the local bus controller.

These ONTs can also interact with additional hardware components to support functionality not provided by the SoC technology.

1.10 G-240W-B standards compliance

G-240W-B indoor ONTs are compliant with the following standards:

- 802.1p marking and VLAN based pbit is supported
- G.711 support for FAX and modem connection
- G.984 support GPON interface (framing)
- G.984.2 support for Amd1, class B+
- G.984.3 support for activation and password functions
- G.984.3 support for AES with operator enable/disable on per port-ID level
- G.984.3 support for FEC in both upstream and downstream directions
- G.984.3 support for multicast using a single GEM Port-ID for all video traffic
- G984.4 and G.983.2 support for OMCI v1 and v2 interface for ONT management and provisioning

FCC statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and consider removing the no-collocation statement.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1 this device may not cause harmful interference, and
- 2 this device must accept any interference received, including interference that may cause undesired operation.



Caution – Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Les changements ou modifications non express ément approuv és par la partie responsable de la conformit é pourraient annuler l'autorit é de l'utilisateur à utiliser l'équipement.

1.11 G-240W-B special considerations

G-240W-B is a package P ONT.

Wi-Fi service

G-240W-B indoor ONTs feature Wi-Fi service as well as voice and data services. Wi-Fi is a wireless networking technology that uses radio waves to provide wireless HSI and network connections. This ONT complies with the IEEE 802.11 standards, which the Wi-Fi Alliance defines as the basis for Wi-Fi technology.

Wi-Fi physical features

G-240W-B indoor ONTs have the following physical features that assist in providing Wi-Fi service:

- WLAN button for enabling and disabling Wi-Fi service
- two internal antennae
- two Wi-Fi Protected Setup (WPS) push buttons (one each for 2.4G and 5G) for adding WPS-enabled wireless devices

Wi-Fi standards and certifications

The Wi-Fi service on G-240W-B indoor ONTs supports the following IEEE standards and Wi-Fi Alliance certifications:

- compliant with IEEE 802.11 standards
- certified for IEEE 802.11b/g/n standards
- WPA support including WPA-PSK
- certified for WPA2-Personal and WPA2-Enterprise

Wi-Fi GUI features

G-240W-B indoor ONTs have HTML-based Wi-Fi configuration GUIs.

G-240W-B ONT considerations and limitations

Table 1-14 lists the considerations and limitations for Package P G-240W-B ONTs.

Table 1-14 G-240W-B ONT considerations and limitations

Considerations and limitations

Call History Data collection (ONTCALLHST) is supported, except for the following parameters: RTP packets (discarded), far-end RTCP and RTCP-XR participation, RTCP average and peak round trip delay, MOS, average jitter, number of jitter-buffer over-runs and under runs.

Some voice features are configurable on a per ONT basis, including Call Waiting, Call Hold, 3-Way Calling, and Call Transfer.

The following voice features / GSIP parameters are configurable on a per-Client/ per-ONT basis (not per-Subscriber):

- Enable Caller ID and Enable Caller Name ID
- Digitmap and the associated Interdigit and Critical timers and Enter key parameters
- Warmline timer is enabled per subscriber, but the warmline timer value is configured per ONT and must have a lower value than the Permanent time
- Miscellaneous timers: Permanent, Timed-release, Reanswer, Error-tone, and CW-alert timers
- Features / functions: Message waiting mode, WMWI refresh interval, DTMF volume level
- Service Codes for the following features: CCW, Call Hold and Warmline

The Molex interface is not operational.

2 – Install a G-240W-B indoor ONT

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- 2.2 General 2-2
- 2.3 Prerequisites 2-2
- 2.4 Recommended tools 2-2
- 2.5 Safety information 2-3
- 2.6 Procedure 2-4

2.1 Purpose

This chapter provides the steps to install a G-240W-B indoor ONT.

2.2 General

The steps listed in this chapter describe mounting and cabling for G-240W-B indoor ONTs.

2.3 Prerequisites

You need the following items before beginning the installation:

• all required cables

2.4 Recommended tools

You need the following tools for the installation:

- #2 Phillips screwdriver
- 1/4 in. (6 mm) flat blade screwdriver
- wire strippers
- fiber optic splicing tools
- RJ-45 cable plug crimp tool
- voltmeter or multimeter
- optical power meter
- drill and drill bits
- paper clip

2.5 Safety information

Read the following safety information before installing the unit.



Danger 1 — Hazardous electrical voltages and currents can cause serious physical harm or death. Always use insulated tools and follow proper safety precautions when connecting or disconnecting power circuits.

Tensions et courants dectriques dangereuses peuvent causer des dommages ou la mort physique grave. Toujours utiliser des outils isol és et suivre les préautions de s écurit éad équates pour connecter ou d éconnecter les circuits de puissance.

Danger 2 – Make sure all sources of power are turned off and have no live voltages present on feed lines or terminals. Use a voltmeter to measure for voltage before proceeding.

Assurez-vous que toutes les sources d'alimentation sont éteints et ne ont pas de tensions vivants présents sur les lignes d'alimentation ou de terminaux. Utilisez un voltmètre pour mesurer la tension avant de procéder.

Danger 3 – Always contact the local utility company before connecting the enclosure to the utilities.

Toujours contacter la compagnie d' dectricit é locale avant de brancher l'enceinte pour les services publics.



Warning – This equipment is ESD sensitive. Proper ESD protections should be used when removing the fiber access cover of the indoor ONT.

Cet équipement est sensible ESD. Protections ESD appropri és doivent êre utilis és pour retirer le couvercle de l'ONT à l'int érieur d'acc ès en fibre.



Caution – Keep indoor ONTs out of direct sunlight. Prolonged exposure to direct sunlight can damage the unit.

Gardez ONT int érieur hors du soleil direct. Une exposition prolong ée aux rayons du soleil peut endommager l'appareil.



Note 1 – Observe the local and national laws and regulations that may be applicable to this installation.

Respecter les lois et r églementations locales et nationales qui peuvent êre applicables à cette installation.

Note 2 – Observe the following:

- The indoor ONT should be installed in accordance with the applicable requirements of the NEC or CEC. Local authorities and practices take precedent when there is conflict between the local standard and the NEC or CEC.
- The indoor ONT must be installed by qualified service personnel.
- Indoor ONTs must be installed with cables that are suitably rated and listed for indoor use.
- See the detailed specifications in the G-240W-B unit data sheet for the temperature ranges for these ONTs.

Respectez les consignes suivantes:

- L'ONT int érieure doit êre install ée en conformit éavec les exigences applicables de la NEC ou CEC. Les autorit és et les pratiques locales prennent pr éc édent quand il ya conflit entre la norme locale et le NEC ou CEC.
- L'ONT int érieure doit être install épar un personnel qualifi é
- ONT int érieure doit être install ée avec des c âbles qui sont convenablement évalu és et class és pour une utilisation int érieure.
- Voir les sp écifications d faill és dans la fiche de donn és de l'unit éG-240W-B pour les plages de temp frature pour ces ONT.

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2.6 Procedure

Use this procedure to install a G-240W-B indoor ONT.

- 1 Place the indoor ONT unit:
 - a On the flat surface, such as a desk; go to step 3.



Note — The G-240W-B cannot be stacked with another ONT or with other equipment. The ONT mounting requirements are:

- allow a minimum 100 mm clearance above the top cover
- allow a minimum 50 mm clearance from the side vents
- do not place any heat source directly above the top cover or below the bottom cover

Le G-240W-B ne peut être empilé avec un autre ONT ou avec d'autres équipements. Les exigences de montage ONT sont:

- Laisser un espace minimum de 100 mm au-dessus du capot supérieur
- Laisser un espace minimum de 50 mm à partir des prises d'air latérales
- Ne placez pas une source de chaleur directement au-dessus du capot supérieur ou inférieur à la couverture inférieure
- b On a wall, go to step 2.
- 2 Mount the G-240W-B indoor ONT on a wall.
 - i The G-240W-B indoor ONT can be mounted in either a horizontal or vertical position, as shown in Figure 2-1. If possible, mount the ONT on a wall stud.





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- ii Mark the wall with the location of the mounting holes. These holes should be the same distance apart as the distance between the centers of the keyholes on the ONT.
- iii Drill the two holes in the wall where the ONT will be mounted and then drive the mounting screws into the holes.

The recommended length of mounting screw is 1.15 in. (3.8 cm).

Do not drive the screw into the wall completely. Leave approximately 1/8 in. (6 mm) between the screw head and the wall surface.

- iv Slide the wall mount keyholes on the ONT enclosure or fiber storage tray down over the mounting screws until the ONT is securely seated.
- 3 Review the connection locations as shown in Figures 2-2.



Figure 2-2 G-240W-B indoor ONT connections (back view)

- 4 Connect the Ethernet cables to the RJ-45 ports; see Figure 2-2 for the location of the RJ-45 ports.
- 5 Route the POTS cables directly to the RJ-11 ports as per local practices.

The POTS port to the left is labeled 1 for Line 1 while the port on the right is labeled 2 for Line 2, as shown in Figure 2-2.

6 Connect the fiber optic cable with SC/APC adapter into the SC/APC connector; see Figure 2-2 for the location of the SC/APC connector.



Danger — Fiber cables transmit invisible laser light. To avoid eye damage or blindness, never look directly into fibers, connectors, or adapters.

Câbles de fibres transmettent la lumière laser invisible. Pour éviter des lésions oculaires ou la cécité, ne jamais regarder directement dans les fibres, les connecteurs ou adaptateurs.



Warning — Be careful to maintain a bend radius of no less than 1.5 in. (3.8 cm) when connecting the fiber optic cable. Too small of a bend radius in the cable can result in damage to the optic fiber.

Veillez à maintenir un rayon de courbure d'au moins 1,5 po. (3,8 cm) lors de la connexion du câble de fibre optique. Trop petit d'un rayon de courbure dans le câble peut entraîner des dommages à la fibre optique.



Note — Fiber cable preparation varies depending on the type and size of the inside or outside plant fiber cable being spliced to the SC/APC fiber optic pigtail cable.

Préparation du câble de fibres varie en fonction du type et de la taille de l'intérieur ou de câble de fibres de plante extérieur étant assemblés bord à bord pour la SC/APC câble en queue de cochon à fibres optiques.

7 Install the power supply according to manufacturer specifications.



Note – Observe the following:

- Units must be powered by a Listed or CE approved and marked limited power source power supply with a minimum output rate of 12 V dc, 1.25 A.
 - Respectez les onsignes suivantes:
- Les unités doivent être alimentés par une alimentation de source d'alimentation limitée répertoriés ou homologués CE et sont marqués d'un taux de sortie minimum de 12 V cc, 1,25 A
- 8 Connect the power cable to the power connector.
- 9 Power up the ONT unit by using the power switch.
- 10 If used, enable the Wi-Fi service.
 - i Locate the WLAN button on the ONT; see Figure 2-2 for location of the WLAN button.
 - ii Press the WLAN button to change the status of the Wi-Fi service.
- 11 Verify the ONT LEDs, voltage status, and optical signal levels; see the 7368 Hardware and Cabling Installation Guide.
- 12 Activate and test the services; see the 7368 Hardware and Cabling Installation *Guide*.
- **13** If used, configure the SLID; see the 7368 ISAM ONT Configuration, Management, and Troubleshooting Guide.
- 14 If necessary, reset the ONT.
 - i Locate the Reset button on a G-240W-B indoor ONT as shown in Figure 2-2.
 - ii Insert the end of a straightened paper clip or other narrow object into the hole in the Reset button to reset the ONT.
- 15 STOP. This procedure is complete.

3 – Replace a G-240W-B indoor ONT

- 3.1 Purpose 3-2
- 3.2 General 3-2
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- 3.4 Recommended tools 3-2
- 3.5 Safety information 3-3
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3.1 Purpose

This chapter provides the steps to replace G-240W-B indoor ONTs.

3.2 General

The steps listed in this chapter describe mounting and cabling for G-240W-B indoor ONTs.

3.3 Prerequisites

You need the following items before beginning the installation:

• all required cables

3.4 Recommended tools

You need the following tools for replacing the ONT:

- #2 Phillips screwdriver
- 1/4 in. (6 mm) flat blade screwdriver
- wire strippers
- fiber optic splicing tools
- RJ-45 cable plug crimp tool
- voltmeter or multimeter
- optical power meter
- drill and drill bits

3.5 Safety information

Read the following safety information before replacing the unit.



Danger 1 – Hazardous electrical voltages and currents can cause serious physical harm or death. Always use insulated tools and follow proper safety precautions when connecting or disconnecting power circuits.

Tensions et courants dectriques dangereuses peuvent causer des dommages ou la mort physique grave. Toujours utiliser des outils isol és et suivre les préautions de s écurit éad équates pour connecter ou d éconnecter les circuits de puissance.

Danger 2 – Make sure all sources of power are turned off and have no live voltages present on feed lines or terminals. Use a voltmeter to measure for voltage before proceeding.

Assurez-vous que toutes les sources d'alimentation sont éteints et ne ont pas de tensions vivants présents sur les lignes d'alimentation ou de terminaux. Utilisez un voltmètre pour mesurer la tension avant de procéder.

Danger 3 – Always contact the local utility company before connecting the enclosure to the utilities.

Toujours contacter la compagnie d'électricit é locale avant de brancher l'enceinte pour les services publics.



Warning – This equipment is ESD sensitive. Proper ESD protections should be used when removing the fiber access cover of the indoor ONT.

Cet équipement est sensible ESD. Protections ESD appropri és doivent êre utilis és pour retirer le couvercle de l'ONT à l'int érieur d'acc ès en fibre



Caution – Keep indoor ONTs out of direct sunlight. Prolonged exposure to direct sunlight can damage the unit.

Gardez ONT int érieur hors du soleil direct. Une exposition prolong ée aux rayons du soleil peut endommager l'appareil.



Note 1 – Observe the local and national laws and regulations that may be applicable to this installation.

Respecter les lois et r églementations locales et nationales qui peuvent êre applicables à cette installation

Note 2 – Observe the following:

- The indoor ONT should be installed in accordance with the applicable requirements of the NEC or CEC. Local authorities and practices take precedent when there is conflict between the local standard and the NEC or CEC.
- The indoor ONT must be installed by qualified service personnel.
- Indoor ONTs must be installed with cables that are suitably rated and listed for indoor use.
- See the detailed specifications in the G-240W-B unit data sheet for the ONT temperature ranges for these ONTs.

Respectez les consignes suivantes:

- L'ONT int érieure doit âre install ée en conformit éavec les exigences applicables de la NEC ou CEC. Les autorit és et les pratiques locales prennent pr éc édent quand il ya conflit entre la norme locale et le NEC ou CEC.
- L'ONT int érieure doit être install épar un personnel qualifi é
- ONT int érieure doit êre install ée avec des c âbles qui sont convenablement évalu és et class és pour une utilisation int érieure.
- Voir les spécifications d'éaill és dans la fiche de donn és de l'unit éG-240W-B pour les plages de temp érature pour ces ONT ONT.

3.6 Procedure

Use this procedure to replace a G-240W-B indoor ONT.

1 Deactivate the ONT services at the P-OLT.

If you are using the SLID feature, this step is not required. The ONT and the services can remain in service (IS).

i Use the RTRV-ONT command to verify the ONT status and th associated services. Record the serial number or the SLID of the ONT displayed in the command output.

Example:

RTRV-ONT::ONT-1-1-1-1;

ii If the ONT is in service, place the ONT in OOS state.

Example:

ED-ONT::ONT-1-1-1-1;

2 If used, disable the Wi-Fi service by pressing the WLAN button; see Figure 3-1 for the location of the WLAN button.



Figure 3-1 G-240W-B indoor ONT connections

- 3 Power down the unit by using the on/off power switch.
- 4 Disconnect the POTS, Ethernet, and power cables from the ONT; see Figure 3-1 for the connector locations on the G-240W-B indoor ONT.

5 Disconnect the fiber optic cables.



Danger — Fiber cables transmit invisible laser light. To avoid eye damage or blindness, never look directly into fibers, connectors, or adapters.

Câbles de fibres transmettent la lumière laser invisible. Pour éviter des lésions oculaires ou la cécité, ne jamais regarder directement dans les fibres, connecteurs ou adaptateurs

- i Unplug the fiber optic cable with SC/APC connector from the ONT; see Figure 3-1 for the location of the fiber optic port.
- ii Attach a fiber dust cover to the end of the SC/APC connector.
- 6 Replace the ONT with a new unit:
 - **a** On a flat surface, such as a desk, substitute the new ONT for the old ONT on a flat surface, horizontally resting on its four feet.
 - **b** On a wall.
 - i Slide the old ONT off of the mounting screws until the ONT is free of the wall.
 - ii Slide the wall mount holes on the ONT enclosure over the mounting screws until it is securely seated.
- 7 Connect the Ethernet cables directly to the RJ-45 ports; see Figure 3-1 for the location of the RJ-45 ports.
- 8 Connect the POTS cables directly to the RJ-11 ports as per local practices; see Figure 3-1 for the location of the RJ-11 ports.

The RJ-11 port to the left is labeled 1 for Line 1 while the port on the right is labeled 2 for Line 2.

9 If required, have approved service personnel who are trained to work with optic fiber clean the fiber optic connection. See the *7368 ISAM ONT Configuration, Management, and Troubleshooting Guide* for more information about fiber optic handling, inspection, and cleaning.



Danger — Fiber optic cables transmit invisible laser light. To avoid eye damage or blindness, never look directly into fibers, connectors, or adapters.

Câbles de fibre optique transmettent la lumière laser invisible. Pour éviter des lésions oculaires ou la cécité, ne jamais regarder directement dans les fibres, les connecteurs ou adaptateurs.

10 Connect the fiber optic cable with SC/APC adapter into the SC/APC connector. Figure 3-1shows the location of the SC/APC connector.



Danger — Fiber cables transmit invisible laser light. To avoid eye damage or blindness, never look directly into fibers, connectors, or adapters.

Câbles de fibre optique transmettent la lumière laser invisible. Pour éviter des lésions oculaires ou la cécité, ne jamais regarder directement dans les fibres, les connecteurs ou adaptateurs.



Warning – Be careful to maintain a bend radius of no less than 1.5 in.

(3.8 cm) when connecting the fiber optic cable. Too small of a bend radius in the cable can result in damage to the optic fiber.

Veillez à maintenir un rayon de courbure d'au moins 1,5 po. (3,8 cm) lors de la connexion du câble de fibre optique. Trop petit d'un rayon de courbure dans le câble peut entraîner des dommages à la fibre optique.

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Note – Fiber cable preparation varies depending on the type and size of the inside or outside plant fiber cable being spliced to the SC/APC fiber optic pigtail cable.

Préparation du câble de fibres varie en fonction du type et de la taille de l'intérieur ou de câble de fibres de plante extérieur étant assemblés bord à bord pour la SC/APC câble en queue de cochon à fibres optiques.

11 Install the power supply according to manufacturer specifications.



Note – Observe the following:

Units must be powered by a Listed or CE approved and marked limited power source power supply with a minimum output rate of 12 V dc, 1.25 A.

Respectez les consignes suivantes:

- Les unit & doivent âre aliment & par une alimentation de source d'alimentation limit é répertori és ou homologu és CE et sont marqu és d'un taux de sortie minimum de 12 V cc. 1.25 A.
- 12 Connect the power cable to the power connector.
- **13** Power up the unit by using the power switch.
- 14 If used, enable the Wi-Fi service by pressing the WLAN button; see Figure 3-1 for the location of the WLAN button.
- 15 If used, configure the SLID; see the 7368 ISAM ONT Configuration, Management, and Troubleshooting Guide for more information.



Note – A new SLID or the old SLID may be used with the replacement ONT. If a new SLID is used, the new SLID must also be programmed at the P-OLT using TL1 or a network manager. If the old SLID is used, no changes need to be made at the P-OLT; see the operations and maintenance documentation for the OLT for more details.

Une nouvelle EDTR ou le vieux EDTR peut être utilisé avec l'ONT de remplacement. Si une nouvelle EDTR est utilisé, le nouveau EDTR doit également être programmé à la classe P-OLT utilisant TL1 un gestionnaire de réseau. Si l'ancien EDTR est utilisé, aucune modification ne est à apporter à la classe P-OLT; voir les opérations et la documentation de maintenance pour le BTA pour plus de détails.

- 16 Verify the ONT LEDs, voltage status, and optical signal levels; see the 7368 Hardware and Cabling Installation Guide.
- 17 Activate and test the services; see the 7368 Hardware and Cabling Installation Guide.
- **18** If necessary, reset the ONT.
 - Locate the Reset button on a G-240W-B indoor ONT as shown in Figure 3-1. i
 - ii Insert the end of a straightened paper clip or other narrow object into the hole in the Reset button to reset the ONT.
- **19** STOP. This procedure is complete.

4 – Configure a G-240W-B indoor ONT

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- 4.2 HGU mode GUI configuration 4-2
- 4.3 SFU mode GUI configuration 4-39
- 4.4 Operator ID 4-44

4.1 General

Please refer to the configuration information provided with your OLT for the software configuration procedure for a G-240W-B ONT.

For HTTP configuration procedures, please refer to the 7368 ISAM ONT Configuration, Management, and Troubleshooting Guide.

4.2 HGU mode GUI configuration

Use the procedures below to use the web-based GUI for the G-240W-B in HGU mode. This mode is preset at delivery.

A home gateway unit (HGU) is a home networking device, used as a gateway to connect devices in the home through fiber to the Internet. An HGU provides a variety of features for the home network including routing and firewall capability. By using the HGU, users can connect all smart equipment in their home, including personal computers, set-top boxes, mobile phones, and other consumer electronics devices, to the Internet.

Login

Use the procedure below to login to the web-based GUI for the G-240W-B.

Procedure 4-1 Login to web-based GUI

1 Open a web browser and enter the IP address of the ONT in the address bar.

The login window appears.

The default gateway IP address is http://192.168.1.1. You can connect to this IP address using your web browser after connecting your PC to one of Ethernet ports of the ONT. The static IP address of your PC must be in the same subnet as the ONT.

2 Enter your username and password in the Log in window, as shown in Figure 4-1.

The default username and password are printed on the ONT. The default user name is userAdmin. The default superuser name is adminGPON. Contact Alcatel-Lucent for the superuser password.

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Figure 4-1 Web login window



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Caution — If you reset the router to recover the default username and password, all other router configuration settings will also be restored to their factory default values.

Si vous réinitialisez le routeur pour récupérer le nom d'utilisateur et mot de passe par défaut, tous les autres paramètres de configuration du routeur seront aussi restaurés à leurs valeurs par défaut d'usine.



Note — If you forget the current username and password, press the reset button for 5 s and the default values for the username and password will be recovered at startup.

Si vous oubliez le nom d'utilisateur et mot de passe actuel, appuyez sur le bouton de réinitialisation pendant 5 s et les valeurs par défaut pour le nom d'utilisateur et mot de passe seront récupérés au démarrage.

- 3 Click Login.
- 4 STOP. This procedure is complete.

Device and connection status

G-240W-B ONTs support the retrieval of a variety of device and connection information, including:

- device information
- LAN status
- WAN status
- WAN status IPv6
- Home networking information
- Optics module status

Procedure 4-2 Device information retrieval

1 Select Status > Device Information from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-2.

← → C 🗋 192.168	1.254				1	2
	GPON Home Gateway		Logout	English (Español		
	Status>Device Information					
Status						
Device Information	Device Name	I-240W-A				
LAN Status WAN Status	Vendor	Alcatel_Lucent				
Home Networking	Serial Number	ALC187654321				
Optics Module Status	Hardware Version	3FE54945				
Network Security	8oot Version	U-Boot Dec-17-201314:27:09				
Application	Software Version	3FE54869ACEA23				
[#] Maintain	Chipset	BL23570				
	Device Running Time	0 hour 9 minutes 34 seconds				

Figure 4-2 Device Information window

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Table 4-1 describes the fields in the Device Information window.

Field	Description
Device Name	Name on the ONT
Vendor	Name of the vendor
Serial Number	Serial number of the ONT
Hardware version	Hardware version of the ONT
Boot version	Boot version of the ONT
Software version	Software version of the ONT
Chipset	Chipset of the ONT
Device Running Time	Amount of time the device has run since last reset in hours, minutes, and seconds

- 2 Click Refresh to update the displayed information.
- **3** STOP. This procedure is complete.

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Procedure 4-3 LAN status retrieval

1 Select Status > LAN Status from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-3.

← → C 🗋 192.168	1.254			会
	GPON Home Gateway		Logout English (Españo)	
	Status>LAN Status			
Status				
Device Information	Wireless Information			
LAN Status	Wireless Status	cn		
UNAN Chatra	Wireless Channel	1		
WAN Status	SSID1 Name [m]	INFINITUM4321		
Home Networking	Wireless Encryption Status	WPA-PSK		
Optics Module Status	Wireless Rx Packets	P		
Network	Wireless Tx Packets	6		
* Security	Infordada To Butes	Č.		
Application	Power Transmission/mWI	50		
*Maintain	Ethernet Information			
	Ethernet Status	ир		
	Ethernet IP Address	192.168.1.254		
	Ethernet Subnet Mask	255.255.255.0		
	Ethernet MAC Address	A8:AD:3D:00:00:04		
	Ethernet Rx Packets	641		
	Ethernet Tx Packets	1699		

Figure 4-3 LAN status window

Table 4-2 describes the fields in the LAN status window.

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Field	Description		
Wireless Information			
Wireless Status	Indicates whether the wireless is on or off		
Wireless Channel	Wireless channel number		
SSID Name	Name of each SSID		
Wireless Encryption Status	Encryption type used on the wireless connection		
Wireless Rx Packets	Number of packets received on the wireless connection		
Wireless Tx Packets	Number of packets transmitted on the wireless connection		
Wireless Rx Bytes	Number of bytes received on the wireless connection		
Wireless Tx Bytes	Number of bytes transmitted on the wireless connection		
Power Transmission (mW)	Power of the wireless transmission, in mW		
Ethernet Informatio	n		
Ethernet Status	Indicates whether the Ethernet connection is on or off		
Ethernet IP Address	IP address of the Ethernet connection		

Table 4-2 LAN status parameters

(1 of 2)

Field	Description
Ethernet Subnet Mask	Subnet Mask of the Ethernet connection
Ethernet MAC Address	MAC address of the Ethernet connection
Ethernet Rx Packets	Number of packets received on the Ethernet connection
Ethernet Tx Packets	Number of packets transmitted on the Ethernet connection
Ethernet Rx Bytes	Number of bytes received on the Ethernet connection
Ethernet Tx Bytes	Number of bytes transmitted on the Ethernet connection

(2 of 2)

- 2 Click Refresh to update the displayed information.
- 3 STOP. This procedure is complete.

Procedure 4-4 WAN status retrieval

1 Select Status > WAN Status from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-4.

	GPON Home Gateway		Logout English (Español	
	Status>WAN Status			
Status		1 INTERNET TROSS VOIP OTHER B VID	881 -	
LAN Status	Connection Mode	Dynamic DHCP		
WAN Status Home Networking	Enable/Disable	91		
Optics Module Status	VLAN	881		
Network	WAN Link Status	Down		
Application	Pon Link Status	Down		
Maintain	Tx Packets	0		
	Rx Packets	0		
	Tx Dropped	0		
	Rx Dropped	0		
	Fac Products	n		

Figure 4-4 WAN status window

Table 4-3 describes the fields in the WAN status window.
Table 4-3 WAN status parameters

Field	Description
WAN connection list	Drop-down menu listing all WAN connections. The connection shown is the connection for which WAN status will be shown.
Connection Mode	Connection mode of the WAN connection
Enable/Disable	Select this checkbox to enable the WAN connection
VLAN	VLAN ID
WAN Link Status	Whether the WAN link is up or down
Pon Link Status	Whether the PON link is up or down
Tx Packets	Number of packets transmitted on the WAN connection
Rx Packets	Number of packets received on the WAN connection
Tx Dropped	Number of packets dropped on the transmit WAN connection
Rx Dropped	Number of packets dropped on the receive WAN connection
Err Packets	Number of errored packets on the WAN connection

- 2 Click Refresh to update the displayed information.
- **3** STOP. This procedure is complete.

Procedure 4-5 WAN status IPv6 retrieval

1 Select Status > WAN Status IPv6 from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-5.

	GPON Home Gatewa	ау	Logout	English (Español
	Status>WAN Status IPv6			
Status				[
Device Information	WAN Connection List	•		
LAN Status	Connection Mode			
WAN Status	Enable/Disable			
WAN Status IPv6	Enable/Disable			
Home Networking	VLAN			
Optics Module Status	WAN Link Status			
■Network Security	IPv4 Address			
Application	Netmask			
Maintain	Gateway			
	Primary DNS			
	Second DNS			
	Pon Link Status	Down		
	Tx Packets			
	Rx Packets			
	Tx Dropped			
	Rx Dropped			
	Err Packets			
		Refresh		

Figure 4-5 WAN status IPv6 window

Table 4-4 describes the fields in the WAN status IPv6 window.

Table 4-4 WAN status IPv6 parameters

Field	Description
WAN connection list	Drop-down menu listing all WAN connections. The connection shown is the connection for which WAN status will be shown.
Connection Mode	Connection mode of the WAN connection
Enable/Disable	Select this checkbox to enable the WAN connection
VLAN	VLAN ID
WAN Link Status	Whether the WAN link is up or down
IPv6 Address	IPv6 address that identifies the device and its location
Netmask	Network mask
Gateway	Gateway address
Primary DNS	Primary Domain Name Server
Second DNS	Secondary Domain Name Server
Pon Link Status	Whether the PON link is up or down

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Field	Description
Tx Packets	Number of packets transmitted on the WAN connection
Rx Packets	Number of packets received on the WAN connection
Tx Dropped	Number of packets dropped on the transmit WAN connection
Rx Dropped	Number of packets dropped on the receive WAN connection
Err Packets	Number of errored packets on the WAN connection

(2 of 2)

- 2 Click Refresh to update the displayed information.
- 3 STOP. This procedure is complete.

Procedure 4-6 Home networking information retrieval

1 Select Status > Home Networking from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-6.



Figure 4-6 Home networking information window

Table 4-5 describes the fields in the Home networking window.

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Table 4-5 Home networking parameters

Field	Description
Local Interface	
Ethernet	Table displays the number of Ethernet connections and their settings
Wireless	Table displays the number of wireless connections and their settings
Wireless Settings	
<u>.</u>	

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	-
Field	Description
Network Name	Name of the wireless network
Access Point	Hexadecimal address of the wireless access point
Local Devices	
Table entry	Each entry indicates the connection type, device name, IP address, hardware address, and IP address allocation of each connected local device.

(2 of 2)

- 2 Click Delete to delete a particular local device connection.
- 3 Click Refresh to update the displayed information.
- 4 STOP. This procedure is complete.

Procedure 4-7 Optics module status retrieval

1 Select Status > Optics Module Status from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-7.

	GPON Home Gateway	Logout English (Español	
	Status>Optics Module Status		
Status			
Sevice Information	Laser Bias Current(ONT ANI-ONT-Side Optical Measurements):	14316 uA	
AN Status NAN Status	Optics Module Voltage(ONT ANI-ONT-Side Optical Measurements):	3.33 V	
tome Networking	Optics Module Temperature(ONT ANI-ONT-Side Optical Measurements):	45.70 C	
Optics Module Status	Rx Optics Signal Level at 1490 nm(ONT ANI-ONT-Side Optical Measurements):	No input	
Network Security	Tx Optics Signal Level at 1310 nm(ONT ANI-ONT-Side Optical Measurements):	-0.41dbm	
Application	Lower(ONT ANI-ONT-Side Optical Measurements-Optical Threshold):	-30dbm	
Maintain	Upper(ONT ANI-ONT-Side Optical Measurements-Optical Threshold):	-5dbm	

Figure 4-7 Optics module status window



Table 4-6 describes the fields in the Optics module status window.

Table 4-6 Optics module status parameters

Field	Description
Laser Bias Current (ONT ANI-ONT-Side Optical Measurements)	Laser bias current, measured in uA
Optics Module Voltage (ONT ANI-ONT-Side Optical Measurements)	Optics module voltage, measured in V

(1 of 2)

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Field	Description
Optics Module Temperature (ONT ANI-ONT-Side Optical Measurements)	Optics module temperature, measured in C
Rx Optics Signal Level at 1490 nm (ONT ANI-ONT-Side Optical Measurements)	Received optics signal level at 1490 nm, measured in dBm
Tx Optics Signal Level at 1310 nm (ONT ANI-ONT-Side Optical Measurements)	Transmitted optics signal level at 1310 nm, measured in dBm
Lower (ONT ANI-ONT-Side Optical Measurements-Optical Threshold)	Lower optical threshold, measured in dBm
Upper (ONT ANI-ONT-Side Optical Measurements-Optical Threshold)	Lower optical threshold, measured in dBm

(2 of 2)

- 2 Click Refresh to update the displayed information.
- **3** STOP. This procedure is complete.

Network configuration

G-240W-B ONTs also support network configuration, including:

- LAN
- LAN IPv6
- WAN
- WiFi 2.4G
- WiFi 5G
- Routing
- DNS
- TR-069

Procedure 4-8 LAN networking configuration

1 Select Network > LAN from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-8.

← → C □ 192.16	58.1.254			
	GPON Home Gateway		Logout English (Español	
	Network>LAN			
Status Network	Port Mode All Fort to L2 Mode			
LAN WAN	Porti	Route Mode		
WIFI	Port2	Route Mode		
touting DNS TR-069	Port3 Port4	Route Mode		
Security Application		Save		
Maintain	IP Address	192 168 1 254		
	Subnet Mask	255 255 255 0		
	DHCP Enable	15		
	meaning man a small a discourse	192 168 1 64		

Figure 4-8 LAN network window

Table 4-7 describes the fields in the LAN network window.

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Table 4-7 LAN network parameters	5
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Field	Description
Port Mode: All Port to L2 Mode	Select this checkbox to set all ports to L2 mode
Port Mode Port 1 - 4	Drop-down port mode for each port: Route mode or bridge mode
IPv4 Address	IP Address of the ONT
Subnet Mask	Subnet mask of the ONT
DHCP enable	Select this checkbox to enable DHCP
DHCP Start IP Address	Starting DHCP IP address
DHCP End IP Address	Ending DHCP IP address
DHCP Lease Time	DHCP lease time (in min)
Bind MAC Address	MAC address to associate to the LAN
Bind IP Address	IP address to associate to the bound MAC address

- 2 Select the mode for each port.
- 3 Click Save.
- 4 Enter the DHCP configuration information.

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- 5 Click Save.
- 6 Bind a MAC address to the LAN by entering the MAC and IP addresses and then clicking Add. Repeat for all MAC addresses to be bound.
- 7 STOP. This procedure is complete.

Procedure 4-9 LAN IPv6 networking configuration

1 Select Network > LAN_IPv6 from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-9.

Logout English
•

Figure 4-9 LAN IPv6 network window

Table 4-8 describes the fields in the LAN IPv6 network window.

Table 4-8 LAN IPv6 network parameters

Field	Description
DNS Server	Choose a DNS server from the drop-down menu.
prefix config	Choose a prefix config option from the drop-down menu, either WANConnection (prefix will be obtained from the WAN) or Static (enables you to enter the prefix).
prefix	This field appears if you selected the "Static" option for the "prefix config" field. Type a connection.
Interface	This field appears if you selected the Wan Connection option for the "prefix config" field. Choose a WAN connection interface from the drop-down menu.

(1 of 2)

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Description
Select this checkbox to enable DHCP IPv6 server.
Enter the starting DHCP IP address.
Enter the ending DHCP IP address.
Select this checkbox to enable address information retrieval through DHCP.
Select this checkbox to enable retrieval of other information through DHCP.
Enter the maximum interval (in seconds) for periodic Router Advertisement messages. The interval range is from 4 to 1800.
Enter the minimum interval (in seconds) for periodic Router Advertisement messages. The interval range is from 4 to 1800.

(2 of 2)

- 2 Choose a DNS server, prefix config, and interface.
- **3** Select or enter the DHCP configuration information.
- 4 Enter the maximum and minimum intervals for RA messages.
- 5 Click Save/Apply.
- 6 STOP. This procedure is complete.

Procedure 4-10 WAN networking configuration

1 Select Network > WAN from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-10.

	GPON Home G	Logout	English (Español	
	Network>WAN			
[€] Status ■Network	WAN Connection List	1_INTERNET_R_VID_881 •		
LAN	Connection Type	O IPOE		
LAN_IPv6	IP mode	IPv4 •		
WAN WIFI	Enable/Disable	X		
Routing	NAT	v		
DNS TR-069	Service	□ VOIP □ TR-069 ØINTERNET		
Application	Enable VLAN	۲		
■Maintain	VLAN ID	881		
	VLAN PRI	0		
	WAN IP Mode	PPPoE V		
	Connection Type:	AlwaysOn •		
	Username			
	Password			
	Keep Alive Time	60 (5~60)seconds		
	Save	Delete		

Figure 4-10 WAN network window



Table 4-9 WAN network parameters

Field	Description
WAN Connection List	Choose a WAN connection from the drop-down menu to set the connection parameters
Connection Type	Select a connection type: IPoE or PPPoE
IP Mode	Choose an IP mode from the drop-down menu: IPv4 or IPv6
Enable/Disable	Select this checkbox to enable the WAN connection
NAT	Select this checkbox to enable NAT
Service	Select the checkboxes to enable service types for this connection
Enable VLAN	Select this checkbox to enable VLAN
VLAN ID	Enter the VLAN ID
VLAN PRI	Enter the VLAN PRI
WAN IP Mode	Choose an IP mode from the drop-down menu

(1 of 2)

Field	Description
Connection Type	Choose a connection type from the drop-down menu
Username	Enter the username
Password	Enter the password
Keep Alive Time	Enter the Keep Alive Time (from 5 to 60 seconds)

(2 of 2)

- 2 Configure a specific WAN connection.
- 3 Click Save.
- 4 STOP. This procedure is complete.

Procedure 4-11 WiFi 2.4G networking configuration

1 Select Network > WiFi 2.4G from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-11.

GPON Home Gateway	×			
← → C 🗋 192.10	58.1.254		S 🔤 🍠	🧶 🤋 🎱 Ξ
Apps 🗋 asb 🦳 myli	nk 🗀 linux 🗀 adroid 🦳 wifi 🦳 openwrt	🗀 yocto 📋 Send to Kindle		
	GPON Home Gatewa	ay	Logout	English (Español
	Network>WiFi-2.4G			and an function of the
●Status	Enable	۲		^
Network	Mode	auto(b/g/n)		
LAN_IPv6	Channel	auto 🔻		
WAN	Bandwidth	20MHz •		
WiFi-2.4G WiFi-5G	Transmitting Power	100% •		
Routing	SSID Select	SSID1 V		
DNS	SSID Name	ALHN-3030		
TR-069 Security	Enable SSID	Enable •		
Application	SSID Broadcast	Enable •		
Maintain	Port Mode	Route •		
	Encrypt Mode	WPA/WPA2 Personal		
				Ŧ

Figure 4-11 WiFi 2.4G network window

Table 4-10 describes the fields in the WiFi 2.4G network window.

Field	Description
Enable	Select this checkbox to enable WiFi
Mode	Choose a wi-fi mode from the drop-down menu: auto (b/g/n) b g n b/g
Channel	Choose a channel from the drop-down menu or choose Auto to have the channel automatically assigned
Bandwidth	Choose 20 MHz or 40 MHz from the drop-down menu.
Transmitting Power	Choose the percentage transmitting power from the drop-down menu
SSID Select	Choose the SSID from the drop-down menu
SSID Name	Enter the SSID name
Enable SSID	Enable or disable SSID from this drop-down menu
SSID Broadcast	Enable or disable SSID broadcast from this drop-down menu
Port Mode	Choose a port mode from the drop-down menu: Route Bridge
Encrypt Mode	 Choose an encryption mode from the drop-down menu: OPEN WEP WPA/WPA2 Personal WPA/WPA2 Enterprise
WPA Version	Choose a WPA version from the drop-down menu: WPA1 WPA2 WPA1/WPA2
WPA Encryption Mode	Choose a WPA encryption mode from the drop-down menu: TKIP AES TKIP/AES
WPA Key	Enter the WPA key
Enable WPS	Enable or disable WPS from this drop-down menu

Table 4-10 WiFi 2.4G network parameters

- 2 Configure the WiFi connection.
- 3 If you have enabled and configured WPS, click WPS connect.
- 4 Click Save.
- 5 STOP. This procedure is complete.

Procedure 4-12 WiFi 5G networking configuration

1 Select Network > WiFi 5G from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-12.

GPON Home Gateway ×		
← → C 🗋 192.168.1	.254	☆ 🔟 为 🐵 🧃 ⊘ 😑
🔛 Apps 🦳 asb 🦳 mylink (🗀 linux 🧰 adroid 🧰 wifi 🧰 openwrt	🗀 yocto 🗋 Send to Kindle
	GPON Home Gatev	/ay Logout English (Español
	Network>WiFi-5G	
●Status	Enable	^ •
Network LAN	Channel	Auto
LAN_IPv6	Band Width	20MHz
WAN	Transmitting Power	100% •
WiFi-2.4G	SSID Select	SSID1 •
WiFi-5G		
Routing	SSID Name	ALHN-30305
DNS	Enable SSID	Enable v
⊤R-069 ●Security	SSID Broadcast	Enable •
Application	Encrypt Mode	WPA2+WPA •
⊛Maintain	WPA Key	87654321
	Enable WPS	Disable •
192.168.1.254/wlan_config.cgi?v=11	ac	

Figure 4-12 WiFi 5G network window

Table 4-11 describes the fields in the WiFi 5G network window.

Table 4-11 WiFi 5G network parameters

Field	Description
Enable	Select this checkbox to enable WiFi
Channel	Choose a channel from the drop-down menu or choose Auto to have the channel automatically assigned
Bandwidth	Choose 20 MHz or 40 MHz from the drop-down menu
Transmitting Power	Choose the percentage transmitting power from the drop-down menu
SSID Select	Choose the SSID from the drop-down menu
SSID Name	Enter the SSID name
Enable SSID	Enable or disable SSID from this drop-down menu
SSID Broadcast	Enable or disable SSID broadcast from this drop-down menu

(1 of 2)

Field	Description
Encrypt Mode	 Choose an encryption mode from the drop-down menu: OPEN WEP WPA/WPA2 Personal WPA/WPA2 Enterprise
WPA Key	Enter the WPA key
Enable WPS	Enable or disable WPS from this drop-down menu

(2 of 2)

- 2 Configure the WiFi connection.
- 3 If you have enabled and configured WPS, click WPS connect.
- 4 Click Save.
- 5 STOP. This procedure is complete.

Procedure 4-13 Routing configuration

1 Select Network > Routing from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-13.



⊢ → C 🗋 192.1	68.1.254						4	:
	GPON Home Gate	vay			Lo	gout English (Españo		
	Network>Routing							
Status								
Network	Enable Routing	12						
n	Destination IP Address							
w.	Destination Netmask							
FI	Galeway							
outing	Generaly							
5	IPV4 Interface	1_INTERNE	T_TR069_VOIP	OTHI .				
1-069		Add						
security		11 10 10 10						
pplication								
Maintain	Destination IP Address	Destination Netmask	Gateway	Interface	Enable	Deloto		

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Table 4-12 describes the fields in the Routing network window.

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Field	Description
Enable Routing	Select this checkbox to enable routing
Destination IP Address	Enter the destination IP address
Destination Netmask	Enter the destination network mask
Gateway	Enter the gateway address
IPv4 Interface	Choose a WAN connection previously created in the WAN network window from the drop-down menu

Table 4-12 Routing network parameters

- 2 Enter the routing information.
- 3 Click Add.
- 4 STOP. This procedure is complete.

Procedure 4-14 DNS configuration

1 Select Network > DNS from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-14.

Figure 4-14 DNS network window

	GPON Home Gateway	Logout English (Españo
	Network>DNS	
■Status	Domain Name	
Network	IPv4 Address	
LAN		
LAN_IPv6	Add	
WAN		
WIFI	Origin Domain	
Routing		
DNS	New Domain	
TR-069	Add	
Security		
Application	Domain Name New Domain IPv4 Address Delete	Origin Domain New Domain Delete
arviairitain	gpon-infinitum.alu.com 192.168.1.254 Delete	dsldevice.lan dsldevice.lan Delete

Table 4-13 describes the fields in the DNS network window.

Table 4-13 DNS network parameters

Field	Description
Domain Name	Domain name
IPv4 Address	Domain IP address
Origin Domain	Origin domain name
New Domain	New domain name

- 2 Enter the domain name and IP address and click Add.
- 3 If required, associate an origin domain with a new domain, click Add.
- 4 STOP. This procedure is complete.

Procedure 4-15 TR-069 configuration

1 Select Network > TR-069 from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-15.

← → C □ 192.1	68.1.254				\$ =
	GPON Home Gateway		Logout	English (Español	
	Network>TR-069				
Status					
Network	Periodic Inform Enable	2			
LAN					
WAN	Periodic anorm interval(s)	.5			
W(F)	URL	https://acsgpon.alu.net			
Routing	Username	AdminGPON			
DNS	Password				
TR-069	Passion				
Security	Connect Request Username	itms			
Application	Connect Request Password				
Maintain					

	Figure 4-15	TR-069	network	window
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Table 4-14 describes the fields in the TR-069 network window.

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Table 4-14 TR-069 network parameters

Field	Description
Periodic Inform Enable	Select this checkbox to enable periodic inform updates
(1 of 2)	

Field	Description
Periodic Inform Interval(s)	Time between periodic inform updates, in seconds
URL	URL of the auto-configuration server
Username	Username used to log in to the ONT
Password	Password used to log in to the ONT
Connect Request Username	Username used to log in to the auto-configuration server
Connect Request Password	Password used to log in to the auto-configuration server

(2 of 2)

- 2 Configure TR-069 by entering the required information.
- 3 Click Save.
- 4 STOP. This procedure is complete.

Security configuration

G-240W-B ONT also supports security configuration, including:

- firewall
- MAC filter
- IP filter
- DMZ and ALG

Procedure 4-16 Firewall configuration

1 Select Security > Firewall from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-16.

GPON Home Gateway	*		and the second	
← → C □ 192.1	68.1.254			☆ ≡
	GPON Home Gateway		Logout English (Español	
	Security>Firewall			
* Status	A sub-factor success			
Network	Security Level	Low		
Security	Attack Protect	Disable 💌		
Firewall				
Mac Filter		Save	Retesh	
IP Filter				
DMZ and ALG				
Application				
Maintain				

Figure 4-16 Firewall window



Table 4-15 describes the fields in the firewall window.

Table 4-15 Firewall parameters

Field	Description
Security level	Choose the security level from the drop-down menu
Attack Protect	Enable or disable attack protect from the drop-down menu

- 2 Configure the firewall.
- 3 Click Save.
- 4 STOP. This procedure is complete.

Procedure 4-17 MAC filter configuration

1 Select Security > Mac Filter from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-17.

	0001111-000				
	GPON Home Gate	way	Logout	Engish (Español	
	Security>Mac Filter				
Status					
Network	Enable Mac Filter				
Security					
Firewall	Mac Address				
Mac Filter		e g D0 54 2D 00 00 00			
IP Filter		Add			
DMZ and ALG	Mac Filter Mode	Black w			
Application	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	1.200 C 2010			
*Maintain					
	Mode Mac Add	ess Delete			

Figure 4-17 MAC filter window

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Table 4-16 describes the fields in the MAC filter window.

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Table 4-16 MAC filter parameters

Field	Description
Enable MAC filter	Select this checkbox to enable the MAC filter
Mac Address	MAC address
Mac Filter Mode	Choose the MAC filter mode from this drop-down menu

- 2 Configure a MAC filter.
- 3 Click Add.
- 4 STOP. This procedure is complete.

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Procedure 4-18 IP filter configuration

1 Select Security > IP filter from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-18.

e - c [] 1923	08.1.2.34				ы
	GPON Home Gateway		Logout English LEspa	ñol	
	Security>IP Filter				
Status					
Network	Enable IP Filter	8			
Security	Mode	Drop for upstream			
lac Filter	Internal Client	Customer setting			
P Filter	Local IP Address				
MZ and ALG	Source Subnet Mask				
Maintain	Remote IP Address				
	Destination Subnet Mask				
	Protocol	ALL			
	Mode Internal Protocol Local IP	Source Subnet Remote IF Destinat	Ion Submel Wan Port	Lan Port Delete	

Figure 4-18 IP filter window

Table 4-17 describes the fields in the IP filter window.

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Table 4-17 IP filter parameters

Field	Description
Enable IP Filter	Select this checkbox to enable an IP filter
Mode	 Choose an IP filter mode from the drop-down menu: Drop for upstream Drop for downstream
Internal Client	 Choose an internal client from the drop-down menu: Customer setting - uses the IP address input below IP - uses the connecting devices' IP to the ONT
Local IP Address	Local IP address
Source Subnet Mask	Source subnet mask
Remote IP Address	Remote IP address
Destination Subnet Mask	Destination subnet mask
Protocol	Choose an application protocol or all from the drop-down menu

2 Configure the IP filter.

- 3 Click Add.
- 4 STOP. This procedure is complete.

Procedure 4-19 DMZ and ALG configuration

1 Select Security > DMZ and ALG from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-19.

	GPON Home Gateway	L	ogout	ann an 1	1.110
	Concerns DWT and ALC			English (Españo)	
	Security>DMZ and ALG				
Status Network					
Security	ALC Confin FT	P TETP 8 SP # 1223 9 STSP 9 L2TP 9	IPSEC 17		
Frewall					
Mac Filter		Save ALG			
IP Filter					-
DMZ and ALG	DMZ Config				
Application Maintain	WAN Connection List	1_INTERNET_TRO69_VORP_C			
	Enable DMZ				
	DMZ IP Address	Customer setting . 0 0 0 0			
		Cause CM17			

Figure 4-19 DMZ and ALG window



Table 4-18 describes the fields in the DMZ and ALG window.

Table 4-18 DMZ and ALG parameters

Field	Description
ALG Config	Select the checkboxes to enable the protocols to be supported by the ALG
DMZ Config	
WAN Connection List	Choose a WAN connection from the drop-down menu
Enable DMZ	Select this checkbox to enable DMZ on the chosen WAN connection
DMZ IP Address	Choose Customer Setting and enter the DMZ IP address or choose the IP address of a connected device from the drop-down menu

- 2 Configure ALG.
- 3 Click Save ALG.
- 4 Configure DMZ.

- 5 Click Save DMZ.
- 6 STOP. This procedure is complete.

Application configuration

G-240W-B ONT also supports application configuration, including:

- port forwarding
- DDNS
- NTP
- USB storage

Procedure 4-20 Port forwarding configuration

1 Select Application > Port forwarding from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-20.

← → C 🗋 192.16	58.1.254									☆
	GPON Home	e Gateway			Logout E	ngish (Español				
	Application>Port Forwa	urding								
Status	-									
Network	APPName	Customer setting	, 💌							
Security	WAN Port									
Application	LAN Port	-								
Port Forwarding		01000000000								
DONS	internal Client	CV0023567N1	142	63.1.8						
ITP	Protocol	TCP .								
USB Storage	Enable Mapping	8								
Maintain	WAN Connection List	1_INTERNET_TR	1069_VOIP_C							
		Add								
	Application Name	WAN Connection	WAN Dort	LAN Dort	Goulea Name	Internal Client	Protocol	Statur	Dalata	
	Application Hallio	A BUTCOLET TOMO LOUD OTLED D UD	Eat 0-0	0-0	Southed Indexe	Contract of Contract	10000	DEACTIVE	Dalata	

Figure 4-20 Port forwarding window

Table 4-19 describes the fields in the port forwarding window.

Table 4-19 Port forwarding parameters

Field	Description
APPName	Choose an application name from the drop-down menu
WAN Port	WAN port range
LAN Port	LAN port range
Internal Client	Choose a connected device from the drop-down menu and enter the associated IP address

⁽¹ of 2)

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Field	Description
Protocol	Choose the port forwarding protocol from the drop-down menu: TCP UDP TCP/UDP
Enable Mapping	Select this checkbox to enable mapping
WAN Connection List	Choose a WAN connection from the drop-down menu

(2 of 2)

- 2 Configure port forwarding.
- 3 Click Add.
- 4 STOP. This procedure is complete.

Procedure 4-21 DDNS configuration

1 Select Application > DDNS from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-21.

GPCN Home Gateway	*		
← → C □ 192.1	68.1.254		☆ =
	GPON Home Gateway	Logout English (Español	
	Application>DDNS		
Status	WAN Connection List	1. INTERNET TROSP VOIP OTHE	
Security	Enable DDNS	5	
Application	ISP	Dyndns.org	
Port Forwarding DDNS	Domain Name		
NTP	Usemame		
USB Storage Maintain	Password	r	

Figure 4-21 DDNS window

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Table 4-20 describes the fields in the DDNS window.

Table 4-20 DDNS parameters

Field	Description
WAN Connection List	Choose a WAN connection from the drop-down menu

(1 of 2)

Field	Description
Enable DDNS	Select this checkbox to enable DDNS on the chosen WAN connection
ISP	Choose an ISP from the drop-down menu.
Domain Name	Domain name
Username	Username
Password	Password

(2 of 2)

- 2 Configure DDNS.
- 3 Click Save.
- 4 STOP. This procedure is complete.

Procedure 4-22 NTP configuration

1 Select Application > NTP from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-22.

	GPON Home Gat	leway Logout
	Application>NTP	
■Status		-
Network	Enable NTP Service	2
Intersection Security Intersection Security	Current Time	1970.01.01-01:45:07
Application	First Time Server	time nist gav
Port Forwarding		
DDNS	Second Time Server	Customer setting
NTP	Interval Time	0 (0-259200)seconds
USB Storage	Time Zone	(GMT-12:00) International Date Line West
Maintain		······
	S	ave Refresh

Figure 4-22 NTP window

Table 4-21 describes the fields in the NTP window.

Table 4-21 NTP parameters

Field	Description
Enable NTP Service	Select this checkbox to enable NTP service
Current Time	Enter the current local date and time
First Time Server	Choose a time server from the drop-down menu or choose Customer setting and enter the address of the time server.

(1 of 2)

Field	Description
Second Time Server	Choose a time server from the drop-down menu or choose Customer setting and enter the address of the time server.
Interval Time	Interval at which to get the time from the time server, in seconds
Time Zone	Choose the local time zone from the drop-down menu

(2 of 2)

- 2 Configure NTP.
- 3 Click Save.
- 4 STOP. This procedure is complete.

Procedure 4-23 USB storage configuration

1 Select Application > USB storage from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-23.



← → C □ 192.1	68.1.254			2
	GPON Home Gatewa	ау	Logout English LEspañol	
	Application>USB Storage			
Status				
Network	Enable FTP Server			
Security	Usemane	admin		
Application	Password			
Port Forwarding DDNS	Re-enter Password			
NTP				
USB Storage	HOST NUM DEV NUM Format			
Maintain	Save	Refresh		



Table 4-22 describes the fields in the USB storage window.

Table 4-22 USB storage parameters

Field	Description
Enable FTP server	Select this checkbox to enable using an FTP server for data storage
Username	Username for FTP server
Password	Password for FTP server
Re-enter Password	Password for FTP server

- 2 Configure USB storage.
- 3 Click Save.
- 4 STOP. This procedure is complete.

Maintenance

G-240W-B ONT also supports maintenance tasks, including:

- password change
- SLID configuration
- device management
- backup and restore
- firmware upgrade
- device reboot
- restore factory defaults
- diagnose
- log

Procedure 4-24 Password configuration

1 Select Maintain > Password from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-24.

Figure 4-24 Password window

	GPON Home Gatew	ay	Logout English (Español	
	Maintain>Password			
Status Network	New Password			
Security	Re-enter Password			
Application	Descent Manager			
Maintain	Prompt message			
Password	Save	Refresh		
SLID Configuration	winter a strategy of the strat	1		
Device Management				
Backup and Restore				
Firmware Upgrade				
Reboot Device				
Factory Default				
Diagnose				
Log				

Table 4-23 describes the fields in the password window.

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Table 4-23 Password parameters

Field	Description
New Password	New password
Re-enter password	Password must match password entered above
Prompt message	Password prompt message

- 2 Configure the new password.
- 3 Click Save.
- 4 STOP. This procedure is complete.

Procedure 4-25 SLID configuration

1 Select Maintain > SLID Configuration from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-25.



← → C □ 192.164	3.1.254				쉾
	GPON Home Gateway		Logout	English (Español	
	Maintain>SUD Configuration				
Status Network Security Application Maintain Password SLID Configuration Device Management Berrup and Restore	Current SUD Input New SUD SUD Mode Note ASCI Mode max to 10 ASCI characteris e HEX. Mode max to 20 HEX numbers 0-9/A	616265465667313233			
Firmware Upgrade Reboot Device Factory Default Diagnose Log		Save	Refresh		

Table 4-24 describes the fields in the SLID configuration window.

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Table 4-24 SLID configuration parameters

Field	Description
Current SLID	Displays current SLID
Input new SLID	Enter new SLID
SLID Mode	Choose a SLID mode from the drop-down menu.

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- 2 Configure the new SLID.
- 3 Click Save.
- 4 STOP. This procedure is complete.

Procedure 4-26 Device management

1 Select Maintain > Device Management from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-26.



← → C 🗋 192.168	1254	Q =
	GPON Home Gateway Logout English (Españs	at
	Maintain>Device Management	
Status Network Security Application Maintain Password	Host Name CV0023587kt Host Alias	
LID Configuration evice Management ackup and Restore imware Upgrade teboot Device actory Default kagnose on	Hort Name Hour Allas Delete	

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Table 4-25 describes the fields in the Device management window.

Table 4-25 Device management parameters

Field	Description
Host name	Choose a host from the drop-down menu
Alias	Enter an alias for the chosen host

- 2 Configure an alias for a specific host.
- 3 Click Add.
- 4 STOP. This procedure is complete.

Procedure 4-27 Backup and restore

1 Select Maintain > Backup and Restore from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-27.

Figure 4-27 Backup and Restore window



- 2 Click Select File and choose the backup file.
- 3 Click Import Config File to restore the ONT to the saved backup or click Export Config File to export the current ONT configuration to the backup file.
- 4 STOP. This procedure is complete.

Procedure 4-28 Upgrade firmware

1 Select Maintain > Firmware Upgrade from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-28.

Figure 4-28 Firmware upgrade window

	GPON Home Gate	way	Logout	Fosish (Fronti)	
	Maintain>Firmware Upgrade			English (Espans)	
Status					
Network	Select File	Choose File No file chosen			
Security	Upgrade	Upgrade			
Application					
Maintain					
Password					
ED Configuration					
Device Management					
lackup and Restore					
innware Upgrade					
eboot Device					
actory Default					
lagnose					
.00					

2 Click Select File and choose the firmware file.

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- 3 Click Upgrade to upgrade the firmware.
- 4 STOP. This procedure is complete.

Procedure 4-29 Reboot ONT

1 Select Maintain > Reboot Device from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-29.

← → C ① 192.16	8.1.254		4
	GPON Home Gateway	Logout English (Español	
	Maintain>Reboot Device		
Status Network Security	Reboot		
Maintain			
SLID Configuration Device Management			
Backup and Restore Firmware Upgrade			
Reboot Device			
Factory Default			
Diagnose			
Log			

- 2 Click Reboot to reboot the ONT.
- 3 STOP. This procedure is complete.

Procedure 4-30 Restore factory defaults

1 Select Maintain > Factory Default from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-30.

← → C □ 192.16	8.1.254		쇼
	GPON Home Gateway	Logout English (Español	
	Maintain>Factory Default		
f Status Network	Factory Default		
Security			
Application			
Maintain			
Password			
SLID Configuration			
Device Management			
Backup and Restore			
Firmware Upgrade			
Reboot Device			
Factory Default			
Diagnose			
Log			

- 2 Click Factory Default to reset the ONT to its factory default settings.
- 3 STOP. This procedure is complete.

Procedure 4-31 Diagnose connections

1 Select Maintain > Diagnose from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-31.

	GPON Home Gateway	Logout English LEspañol	
	Maintain>Diagnose		
Status			
Network	WAN Connect List	LAN/WAN Interface	
Security	IP or Domain Name	e secolorida fundo faco de la companya de	
Application	P or contain rightly		
Maintain	Test	E ping traceroute	
assword	Ping Packet Length	64 (64 ~ 1024)	
LID Configuration	Ping Toy Times	4 (1 - 1000)	
evice Management	ring by come	1	
ackup and Restore	Start Test Cancel		
rmware Upgrade			
eboot Device			
actory Default			
iagnose			
9			

Figure 4-31 Diagnose window

2 Choose a WAN connection to diagnose from the drop-down menu.

- 3 Enter the IP address or domain name.
- 4 Select the test type by selecting either ping or traceroute.

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- 5 Enter a ping packet length (64-1024).
- 6 Enter the number of ping attempts to perform (1 1000).
- 7 Click Start Test. Results will be displayed at the bottom of the window.
- 8 STOP. This procedure is complete.

Procedure 4-32 View log files

1 Select Maintain > Log from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-32.

Maintain>Log Status Emer Network Write Level Security Reading Level Application ProductStatus1-2004-5 Passeord ProductStatus22005	
Status Network Vrite Level Enn Reading Level Sapplication Productions Pro	
Network Write Level Entral Security Reading Level Entral Application Productionsex1-240P-4 * Maintain Productionsex1-240P-4 * Passeord IPVer19554466 IPVer1955446	
Security Reading Level Application Revetserture:rsACL Maintain ProductLass:rSACH Passeord ProductLass:rSACH Passeord Prof.:PSSe00ALX2: Prof.:PSSe00ALX2: PSSe00ALX2: PSSe00ALX2: PSSe00ALX2: PS	
Application Based seture er AACL * Maintain Product (2008) 2-00% A * Maintain Gera (2008) 2006 * Interest (2009) 2006 University (2009) 2006 * Interest (2009) 2006 University (2009) 2006 *	
Maintain ProductCaras-F-00%-A Grandsabare:ACA150621 asseed Bree:	
BWer: 9256945 SWer: 9256946040023 TP: 192.164.02402	
TP: 192, 163, 1, 254	
LID Configuration	
1970-01-07 07148:13 [alert] Web: account (adamadan) wuthorization failed " byvice Management 1970-01-07 07148:25 [alert] Web: account of TREED aythorization failed	
1970-01-07 Hillsoff [alert] consoler (root) login fail.	
1970-01-07 [6:18:40 [alert] consoler (moth login fail. 1970-01-07 [6:18:40 [alert] consoler (MMMM) Login fail.	
1970-01-07 23:29:12 [alert] consoler (root) login fail.	
eccon before 1970-01-07 23 17519 [alert] consolar (root) login fail.	
actory tensors 1910-01-07 1741-22 [abert] comoder (cost) login fail. 1910-0107 1741-050 [lokef] comoder (cost) login fail.	
nagnose 1970-01-07 22152:14 (alert] console: <pre>croot> login fail. *</pre>	
eg	

Figure 4-32 Log window

- 2 Choose a write level from the drop-down menu to determine which types of events are recorded in the log file:
 - Emergency
 - Alert
 - Critical
 - Error
 - Warning
 - Notice
 - Informational
 - Debug
- 3 Choose a reading level from the drop-down menu to determine which types of events to display from the log file:
 - Emergency
 - Alert
 - Critical
 - Error
 - Warning
 - Notice
 - Informational
 - Debug

- 4 The log file is displayed at the bottom of the window.
- 5 STOP. This procedure is complete.

4.3 SFU mode GUI configuration

Use the procedures below to use the web-based GUI for the G-240W-B in SFU mode. This mode is preset at delivery.

SFU customer premise devices are designed for single indoor residential applications. These ONTs address the demand for bandwidth intensive services, such as high definition television (HDTV), video-on-demand (VOD) and online games. The ONT can be configured to seamlessly deliver voice-over-IP and high speed Internet access via a single fiber optic connection to the home.

Login

Use the procedure below to login to the web-based GUI for the G-240W-B.

Procedure 4-33 Login to web-based GUI

1 Open a web browser and enter the IP address of the ONT in the address bar.

The login window appears.

The default gateway IP address is http://192.168.1.254. You can connect to this IP address using your web browser after connecting your PC to one of Ethernet ports of the ONT. The static IP address of your PC must be in the same subnet as the ONT.

2 Enter your username and password in the Log in window, as shown in Figure 4-33.

The default username and password are printed on the ONT. The default superuser username is adminGPON. Contact Alcatel-Lucent for the superuser password.

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Figure 4-33 Web login window

Caution — If you reset the router to recover the default username and password, all other router configuration settings will also be restored to their factory default values.

Si vous réinitialisez le routeur pour récupérer le nom d'utilisateur et mot de passe par défaut, tous les autres paramètres de configuration du routeur seront aussi restaurés à leurs valeurs par défaut d'usine.



Note – If you forget the current username and password, press the reset button for 5 s and the default values for the username and password will be recovered at startup.

Si vous oubliez le nom d'utilisateur et mot de passe actuel, appuyez sur le bouton de réinitialisation pendant 5 s et les valeurs par défaut pour le nom d'utilisateur et mot de passe sera récupéré au démarrage

- 3 Click Login.
- 4 STOP. This procedure is complete.

Device and connection status

G-240W-B ONTs support the retrieval of a variety of device information.

Procedure 4-34 Device information retrieval

1 Select Status > Device Information from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-34.

• → C 🗋 192.168.	1.254				☆ ■
	GPON Home Gateway		Logout	EnglishiEspañol中文	
	Status>Device Information				
Status					
evice Information	Device Name	1-240W-A			
Maintain	Vendor	Alcatel_Lucent			
	Serial Number	ALC187654321			
	Hardware Version	3FE54945			
	Boot Version	U-8oot Dec-17-201314:27:09			
	Software Version	3FE54869ACEA23			
	Chipset	BL23570			
	Device Running Time	0 hour 5 minutes 51 seconds			

Figure 4-34 Device Information window

Table 4-26 describes the fields in the Device Information window.

Table 4-26 Device	Information	parameters
-------------------	-------------	------------

Field	Description
Device Name	Name on the ONT
Vendor	Name of the vendor
Serial Number	Serial number of the ONT
Hardware version	Hardware version of the ONT
Boot version	Boot version of the ONT
Software version	Software version of the ONT
Chipset	Chipset of the ONT
Device Running Time	Amount of time the device has run since last reset in hours, minutes, and seconds

- 2 Click Refresh to update the displayed information.
- 3 STOP. This procedure is complete.

Maintenance

G-240W-B ONT also supports maintenance tasks, including:

- password change
- LOID configuration
- SLID configuration

Procedure 4-35 Password configuration

1 Select Maintain > Password from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-35.



← → C □ 192.16	58.1.254			☆ ≡
	GPON Home Gatew	ay	Logout English/Español中文	
	Maintain>Password			
● Status ● Maintain	New Password	[]		
Password	Re-enter Password			
LOID Config SLID Configuration	Prompt Message			

8 18 19 10	🥥 og ⊘	2 3 9	W	= - R = 4 1525
			a foreign a	

Table 4-27 describes the fields in the password window.

Table 4-27 Password parameters

Field	Description
New Password	New password
Re-enter password	Password must match password entered above
Prompt message	Password prompt message

- 2 Configure the new password.
- 3 Click Save.
- 4 STOP. This procedure is complete.
Procedure 4-36 LOID configuration

1 Select Maintain > LOID Config from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-36.

← → C 🗋 192.16	8.1.254				\$
	GPON Ho	ome Gateway	Logout	EnglishiEspañol中文	
	Maintain=LOID Config LOID Authenticate Pasae inout Loid the length +25) and the password the length +13.You need not to inout anything when the password is null.				
Status Maintain					
LOID Config	LOID				
SLID Configuration	Password:	*****			

Figure 4-36 LOID configuration window

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- 2 Enter the LOID.
- 3 Enter the password, if applicable.
- 4 Click Save/Apply.
- 5 STOP. This procedure is complete.

Procedure 4-37 SLID configuration

1 Select Maintain > SLID Configuration from the top-level menu in the GPON Home Gateway window, as shown in Figure 4-37.

← → C 🗋 192.164	8.1.254				☆ 1
	GPON Home Gatew	ay	Logout	EnglishiEspañol中文	
	Maintain>SLID Configuration				
Status					
Maintain	Current SUD	61626364656667313233			
Password .OID Config	Input New SLID				
SLID Configuration	SUD Mode	ASCII Mode			
	Note				
	ASCII Mode max to 10 ASCII characters e.g.abcdefg123				
	HEX Mode max to 20 HEX numbers 0-9/A-F/a-f.e.g 0x1234567890ABCDEF1234				
		Save	Refresh		

Figure 4-37 SLID configuration window

Table 4-28 describes the fields in the SLID configuration window.

Table 4-28 SLID configuration parameters

Field	Description
Current SLID	Displays current SLID
Input new SLID	Enter new SLID
SLID Mode	Choose a SLID mode from the drop-down menu.

- 2 Configure the new SLID.
- 3 Click Save.
- 4 STOP. This procedure is complete.

4.4 Operator ID

Use the procedure below to modify the operator ID for the G-240W-B.

Procedure 4-38 Modify the operator ID using OLT

- 1 Create a new .xml file named OntConfig.xml.
 - **a** For AONT releases AONTR2.4.02 and higher, add the following content to the OntConfig.xml file:

<OperatorObject version="1.0">

<OperatorObject="xxxx">

</OperatorObject>

where xxxx is the correct operator ID, such as PTXX.

b For AONT releases prior to AONTR2.4.02, add the following content to the OntConfig.xml file:

<OpertaorObject version="1.0">

<OpertaorObject="xxxx">

</OpertaorObject>

where xxxx is the correct operator ID, such as PTXX.

- 2 Use a TFTP client tool to transfer OntConfig.xml to the OLT's ONT directory and change the filename to the software version number, for example, FE54869201410.xml.
- 3 Using TL1 commands, configure ONUSWCTRL:

ENT-ONTSWCTRL::1:::HWVER=hwver,VARNT=,PLNDSWVER=UNPLANNED, PLNDSWVERCONF=UNPLANNED,DLDSWVER=swver;

where:

hwver is the hardware version number, for example 3FE54945ABBA. *swver* is the software version number used as the filename in step 2, for example 3FE54869201410.

4 Download the .xml file to update the operator ID:

ED-ONT::ONT-1/1/3/1/19::::DLSW=AUTO;

- 5 Restart the ONT, then connect to the LAN and access the web-based to check the operator ID default setting.
- 6 Using TL1 commands, disable further downloads:

ED-ONT::ONT-1/1/3/1/19::::DLSW=DISABLED;

7 STOP. This procedure is complete.

Customer documentation and product support



Customer documentation

http://www.alcatel-lucent.com/myaccess

Product manuals and documentation updates are available at alcatel-lucent.com. If you are a new user and require access to this service, please contact your Alcatel-Lucent sales representative.



Technical Support

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Documentation feedback

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