National Information & Communications Technology Authority

TA100 G

TYPE APPROVAL GUIDELINE

Document Ref.

Contents

1.0 INTRODUCTION

1.1 NICTA is the authorized regulatory body established in Papua New Guinea (PNG) under an Act of Parliament (the NICT Act, 2009) and is granted powers and responsibilities concerning the regulation of radio communications and spectrum, and the ICT industry including telecommunication equipment.

1.2 Part XI (Division 4), Section 218 and 219 of the NICT Act, 2009 mandates NICTA to make rules and guidelines in accordance with Division 6, Section 30 and 31 of the NICT (Radio Spectrum) Regulation, 2010.

1.3 Under the provisions of the Act, a dealer who wishes to manufacture, import or repair or adjust, let for hire, sell or offer or possess for sale any ICT apparatus must first obtain a Radio Dealer's License from NICTA

1.4 The Act makes it an offence for anyone to deal in, let for hire, sell, offer or possess for sale or connects any ICT apparatus which is not type approved.

1.5 Dealers will be required to comply with the relevant licensing conditions, type approval standards or specifications and other conditions where NICTA sees necessary in accordance with the provisions of the Act, regulations and any rules and guidelines issued under the Act.

1.6 Registration of any ICT apparatus is based on a declaration of conformity supported by test reports from recognized test houses and relevant technical documentation. Registered equipment shall be marked or labeled with NICTA approved label so that it can be used in PNG.

1.7 The guidelines stated in this instrument include definitive statement of the roles and responsibilities of NICTA and for any dealer wishing to register equipment with NICTA. They require ICT apparatus to comply with relevant technical standards and specifications and to be registered with NICTA before it can be supplied and or used in PNG.

1.8 This instrument is the revised version of the Type Approval Guideline, that aligns with the new legislation and regulations and should be read in conjunction with the National Information and Communications Technology Act 2009 (the NICT Act, 2009), the Radio Spectrum Regulation, 2010 and the Guidelines for Radio Dealers Licence.

2.0 DEFINITIONS

Many of the terms used in this guideline are defined in either the NICT Act or the Radio Spectrum Regulation or Guidelines for Radio Dealers Licence and have the same meaning in this guideline. The usage of the terms Equipment and Apparatus in the guideline is consistent with the definitions given below. Apparatus is specifically used for radio communications devices.

"Act" means the National Information and Communications Technology Act, 2009 and any regulations made under the Act;

"Apparatus" means any equipment or combination of equipment capable of effecting radiocommunications whether by transmission or reception of radiocommuications or both.

"Conformity Assessment Bodies (CAB)" means accredited test house under the MRA partnership agreement or understanding that performs testing, inspection or certification and that can be the object of accreditation (ISO/IEC).

"Controlled Customer Equipment (CCE)" means any customer equipment which is located at the customer premises and that connects to the customer network or to a facility.

"Customer Equipment" (CE) means any equipment or system that is connected to a facility and is used, installed ready for use or intended only for use on retail customer side of the network boundary.

"Dealer" means the holder of the Radio Dealer Licence or Registered Radio Dealer.

"Declaration of Conformity" (DoC) means a procedure by which a supplier gives written assurance that the ICT apparatus conforms to regulations and the technical standards.

"ICT" means information and communications technology

"ICT Apparatus" means any equipment or combination of equipment capable of effecting radiocommunications, whether by transmission or reception of radiocommunications or both.

"ICT Equipment" means any radio and telecommunications equipment or combination of equipment capable of effecting radio communications or telecommunications, whether by transmission or reception of radio and telecommunications.

"Licensed Dealer" means holder of Radio Dealers Licence.

"NICTA" means National Information and Communications Technology Authority.

"Radio Dealers Licence" means a radiocommunications licence authorizing regulated conduct under Section 32 of the NICT Radio Spectrum Regulation, 2010

"Registered Dealer" mean any person who manufactures, imports for sale, repair or adjust, lets for hire, sells or offers or possesses for sale ICT apparatus that are registered with NICTA.

"Regulations" means the NICT Radio Spectrum Regulation, 2010 and the NICT Operator Licensing Regulation, 2010.

"Standard" - means technical standards which are published documents setting out specifications and procedures designed to ensure products, services and systems are

safe, reliable and consistently perform the way they were intended to. They establish a common language which defines quality and safety criteria.

"Supplier's Declaration of Conformity (SDoC)" means a written undertaking by the registered dealer stating that the named apparatus and/or line terminal conforms to specified requirements and standards.

"Supplier" mean generic dealers.

"Type Approval Certificate (TAC)" means an official document signifying equipment compliance to technical evaluation requirement per equipment model.

"Type Approval Listing (TAL)" means type approved equipment listing

Where a term or phrases is not defined the definition in the Act or Regulations applies.

3.0 OBJECTIVE

The objectives of the Type Approval Guideline are:

3.1 To streamline and modernize the current Type Approval Guideline in accordance with the NICT Act;

3.2 To facilitate changes from an old regulatory regime to a more open regime where wide range of entities such as Manufacturers, Authorized Importers, Licensed Operators, Private Companies and Individuals may apply for equipment registration and Type Approval;

3.3 To allow appropriate international technical standards to be recognized and used as the basis for the Type Approval process;

3.4 To declare the fee structure for Type Approval applications; and

3.5 To ensure that:

- **a.** only type-approved ICT apparatus is placed, sold or used in the ICT market in PNG;
- **b.** ICT apparatus does not cause damage to or interference with the operation of the ICT Networks;
- **c.** ICT apparatus does not cause harm to the general public or people working with ICT networks;
- **d.** the operating frequencies of all ICT apparatus is in accordance with the Frequency Allocation Plan in PNG;
- **e.** permitted RF power output levels (EIRP) are complied with; and
- **f.** Interoperability with other equipment or networks is possible.

3.6 To facilitate the MOU between PNG Customs and NICTA by providing a list of type approved ICT equipment uploaded on the NICTA website.

4.0 SCOPE

This guideline aims to:

4.1 Outline the equipment Registration Schemes and Type Approval procedures and processes employed by NICTA. It also provides ICT radio dealers and service providers with general guidelines to comply with.

4.2 Create a regulatory awareness aiming to achieve technical regulation of ICT apparatus imported into PNG.

4.3 Type approve all types of Radio and regulated ICT Equipment. Such equipment is referred to collectively herein as ICT apparatus. Equipment exempted from type approval or registrations are those which are specified in Schedule 1.

4.4 Inform the user of this guideline what Technical Standards are adopted, developed and used by NICTA and that any ICT equipment which does not meet these technical standards/specifications shall not be approved.

5.0 TYPE APPROVAL REGISTRATION SCHEMES

NICTA has introduced equipment registration and type approval framework schemes for regulating the approval of ICT equipment for sale and use in Papua New Guinea.

These schemes are;

A. Basic Approval Scheme (BAPS)
BAPS consist of two ICT equipment categories:

i. Controlled Customer Equipment
ii. Customer Equipment

B. Equipment Registration Scheme (ERS).
ERS is further divided into two categories of registration:

i. Compulsory Equipment Registration Scheme (CERS) and;
ii. Simplified Equipment Registration Scheme (SERS).

5.1 Basic Approval Scheme (BAPS)

5.1.1 In this scheme, the equipment scope covers Customer Equipment and Controlled Customer Equipment associated with telecommunication.

a. Customer Equipment

i. Under the BAPS, a person or a dealer is permitted to sell any unregulated Customer Equipment listed in Schedule 1, and it is not

subject to type approval test. However, the dealer must complete the form TA100 for registration purposes.

ii. It is required that the equipment comply with NICTA standards and International standards recognized by NICTA; and that such equipment must interoperate seamlessly with the relevant ICT system or licensed network operator's equipment.

iii. The list of technical standards applicable to the unregulated Customer Equipment is set out in Schedule 1.

b. Controlled Customer Equipment

i. As specified in section 191 of the NICT Act, a Controlled Customer Equipment (CCE) is certain customer equipment that connects a customer network to a provider facility, and it shall be subject to the Type Approval Regulation.

ii. The detailed description of the CCE regulation can be found in the *Controlled Customer Equipment Guideline*.

iii. A list of the CCE equipment and applicable standards is provided in Schedule 2 of this guideline.

iv. The following is the type approval procedure for the CCE equipment.

- The dealer shall complete and submit to NICTA a type approval form (TA100) and a Supplier's Declaration of Conformity (SDoC) form (see Schedule 8) as per the equipment model basis.
- The dealer shall submit test reports and Declaration of Conformity (DoC) certificate.
- The TA100, DoC, SDoC and test reports will be evaluated by NICTA and a Type Approval Certificate shall be issued if all the technical compliance requirements are met.

5.1.2 NICTA shall direct a dealer to cease selling and to dispose of the equipment exempted under the BAPS Scheme if it is found to be non-compliant with the standards and specifications recognized by NICTA.

5.1.3 Failure to comply with directions issued by NICTA shall be considered as breach of instructions and NICTA shall take an appropriate action against the Dealer(s) concern.

5.2 Equipment Registration Scheme (ERS)

a. This scheme covers general radio and satellite communication apparatus. It is required that all the apparatus under this scheme shall be type approved and registered before sale or use in PNG. Refer to sub-section 7.2.

b. Type Approval compliance requirements are detailed in the application requirement package in Schedule 5, please comply with them when applying for type approval.

5.2.1 Compulsory Equipment Registration Scheme (CERS)

a. The CERS applies to all categories of radiocommunications apparatus, satellite communication apparatus and covers categories of apparatus listed in Schedule 3.

b. All apparatus under CERS are subjected to NICTA's Type Approval regime including any test and certification requirements. However, at NICTA's discretion, any device test may be waived upon production of evidence of existing Type Approval Certificate, Test Reports and Declaration of Conformity (DoC) under an existing recognized International Type Approval regime such as those listed in Schedule 6.

c. Suppliers and dealers shall comply with all the requirements set out in the application requirement package provided in Schedule 5.

d. NICTA shall grant Type Approval Certificates if all the requirements set forth in Schedule 5 or in sub- section 12.2 are complied with.

5.2.2 Simplified Equipment Registration Scheme (SERS).

a. The SER Scheme applies to Short Range Devices (SRD) or Low Interference Potential Devices (LIPD) and Wireless Devices set out in Schedule 4.

b. SRD or LIPD is classified under Class Licence and therefore:

- no licence is required to operate the equipment;
- no fees payable; and
- no type approval test required.

However, the device must be registered in the type approval equipment register for the purpose of substantiating compliance. Refer to sub-section 7.2.

c. NICTA shall grant a Letter of Acceptance and Confirmation upon registering the equipment, subject to requirements set forth in **d, e,** and **f** below.

d. Suppliers and Dealers may be requested by NICTA to submit a sample unit and technical specifications document for proof of compliance only if necessary.

e. Relevant requirements applicable to SERS as specified in the application requirement package, Schedule 5, shall be complied with as far as practical.

f. NICTA may further direct a dealer to provide specific information on the equipment only where necessary.

6.0 TECHNICAL REQUIREMENTS

6.1 All ICT equipment intended for used in Papua New Guinea shall comply with relevant local and International Technical Standards recognized by NICTA such as electrical safety, electromagnetic compatibility (EMC), electromagnetic radiation (EMR) and operational requirements for radio communication devices.

6.2 The list of technical standards for ICT equipment is set out in Schedule 1, 2 and 3; where a suitable standard is unavailable, NICTA shall apply other standards deemed appropriate.

6.3 It is required that an ICT apparatus:

a. does not cause harm to the general public or staff working on licensed networks;
b. does not generate electromagnetic disturbance exceeding the recommended levels;
c. has some level of immunity to electromagnetic disturbance;
d. makes efficient use of the radio spectrum; and
e. does not cause damage to, or interfere with operations of licensed networks and apparatus.

6.4 Dealers ensure that all ICT apparatus must be compliant with power supply requirements and charging accessories standards in PNG.

6.5 NICTA will only accept specification of imported apparatus once it views its content. Updated versions of such specifications shall not be accepted automatically and therefore shall be subject to review by NICTA.

6.6 NICTA technical standards aim to address public safety and protection of network infrastructure. The technical specifications do not address matters of equipment quality or brands.

7.0 APPLICATION REQUIREMENTS

7.1 An application for type approval shall be made by an authorized Importer, a local or an International ICT Equipment Manufacturer, a Licence Dealer, a company or any person bringing into PNG an ICT Equipment from an overseas country.

7.2 All apparatus under CERS and CCE category is required to undergo type approval process, equipment under other registration schemes are required to complete the **Type Approval (TA) application form (TA100)** for equipment registration purpose only.

7.3 Type Approval application form (TA100) is available on the NICTA website or can be obtained from the NICTA Office. Completed forms may be delivered:

- by hand to NICTA Head Office located at Frangipani Street, Hohola, NCD, Monday to Friday from 8.30am - 4.30pm;
- by post and addressed to *Type Approval, NICTA, P.O. Box 8444, BOROKO, 111, NCD, Papua New Guinea;*
- by email to *typeapprovals@nicta.gov.pg.*

7.4 Where the application is sent electronically, the files must be non-editable but in printed format such as PDF or JPG.

7.5 Type Approval application and equipment registration is also available via the Online Equipment Registration (OER) located at *http:// oer.nicta.gov.pg.*

7.6 The type approval application shall be accompanied by a Supplier's Declaration of Conformity (SDoC), DoC, test reports/certificates, manuals and an application fee.

7.7 Separate applications shall be lodged for apparatus with **different models** but under same brand name however, NICTA has the discretion to waive this and process the application as **one** (family) **application** after it views the details of the application.

7.8 All applications submitted including any supporting documentation must be in English Language. An application that is fully completed and meets all the requirements will be processed **within minimum of 3 and maximum 10 working days** upon receipt by NICTA.

7.9 Applications submitted without the necessary documentation and application fee will not be accepted. (See details in Schedule 5).

8.0 FEES PAYABLE

8.1 The applicable type approval fees are charged per equipment model.

8.2 The non-refundable type approval application fee of **K150.00** shall be paid at the time of submission of the application. The examination fee is **K150.00/h** and the re-examination fee is **K75.00/h.** NICTA shall inform the applicant if the device proposed to be type approved requires examination or re-examination.

8.3 The fee payable for testing and inspection of apparatus includes an administrative charge and / or hourly rate for man hours engaged on the apparatus as determine by NICTA but not exceeding the rate set out in Schedule 4 (7) of NICT Radio Spectrum Regulation, 2010.

8.4 For equipment with **multi-interfaces** intended to be used for multipurpose, separate fees of **K100.00/interface** will be charged for each interface or type of use.

8.5 Equipment with **different models** but under same brand name shall be charge **K100.00/model.**

8.6 A fee of **K100.00** will be charged for re-issuance of type approval certificate due to changes to the brand name or company name or such changes that may warrant new type approval certificate.

8.7 The fee payment must be by Bank Cheque only or by International bank transfer through SWIFT Code. All payments will be in PNG Kina or US Dollars equivalent. The payments made by cheque should be:

- delivered by hand to NICTA Head Office, Frangipani Street, Hohola, NCD; or
- deposited into NICTA Account with the Bank South Pacific, Boroko branch and email the deposit slip to *typeapprovals@nicta.gov.pg.*

9.0 SUPPLIERS DECLARATION OF CONFORMITY (SDoC)

9.1 The SDoC signifies that the Dealer has carried out its own conformity assessment for the particular equipment model based on independent test data/certification given by the manufacturer or an accredited laboratory or internationally recognized test house to standards recognized by NICTA.

9.2 For the CERS & CCE, the original copy is to be kept by the supplier and the photo-copy kept by his dealer(s) for the purpose of inspections by NICTA ICT Inspectors. For CE and SER, the original is to be submitted to NICTA for registration purposes.. The SDoC should have supporting documentation that demonstrates its validity. The supporting documentation should not be sent to NICTA unless it is specifically requested.

9.3 The licensed Dealer shall ensure that the SDoC is authentic and shall not falsify information in the SDoC documents. It is an offence to falsify information in the documents and NICTA shall deal with the offender severely.

9.4 An example of a suitable format for a Suppliers Declaration of Conformity is given in Schedule 8.

10.0 PROCEDURES FOR EQUIPMENT SUBMISSION

10.1 Equipment assigned for type approval testing should be delivered to:-

The Senior Inspector - Type Approval & Inspections
National Information and Communications Technology Authority (NICTA)
Licensing and Enforcement Department
P.O. Box 8227
BOROKO, National Capital District

10.2 The package should be marked **"Equipment for Type Approval Testing".** Note, some classes of apparatus will be tested on site by prior arrangement.

10.3 NICTA will not assume liability for any damage or loss of such equipment whilst they are under its custody.

10.4 The equipment shall be accompanied by the following:-

a. A completed Application Form (TA100);

b. The appropriate applicable fee and

c. A service manual for the equipment containing the:

- Operating instructions;
- Technical Specifications;
- Circuit Diagrams;
- Component Values;
- Alignment Instructions and;
- Drawings of control and component layouts.

The manual will be retained by NICTA.

d. Test results from the manufacturer and conformity test bodies must be submitted with the equipment when requested by NICTA.

e. Compliance certificates must be submitted with the equipment when requested by NICTA.

f. Leads or suitably accessible connectors to allow test connections to be made where needed.

10.5 The owners will be advised to collect their equipment or make arrangement for the equipment dispatchment to their location when tests are completed. Freight or shipment cost is the responsibility of the owner.

10.6 Any sample unit submitted for compliance testing which is not collected by the owner will be properly documented and shall be declared for sale under NICTA's Code of Ethic.

11.0 RESTRICTED LIMITED TYPE APPROVALS PROCEDURES

11.1 For disabled Individuals, Charity Organizations, big national events, and overseas contractors under temporary work permit, limited type approval procedures shall be applied to any imported ICT equipment. The use of the ICT equipment will be subject to the licence conditions issued by NICTA.

11.2 Disabled Individuals and Charity Organizations purchasing ICT equipment overseas are required to complete and submit:

a. a declaration of conformity form for disability equipment.

b. a type approval form for equipment registration purposes.

12.0 APPROVAL PROCESS

12.1 NICTA will conduct technical evaluations of the accompanying documents for any equipment proposed for type approval under the ERS and the CCE category. Testing of the device is subject to NICTA's discretion.

12.2 The following process to **fast track** approval shall be undertaken if all necessary documentations including existing Type Approval Certificates and Test Reports from recognized international type approval bodies are provided.

(a) Evaluate the NICTA type approval application form which the applicant must complete and pay the necessary fees where it's required.

(b) Check and verify the existing Type Approval Certificates, Test Reports and Declaration of Conformity (DoC) Certificates for conformance & authentication.

(c) Issue a letter or a certificate accordingly as in sub-sections 12.3 and 12.4 if all regulatory requirements are met.

12.3 A **Type Approved Certificate** will be issued to an applicant for a specific equipment model when NICTA is satisfied that the equipment complied with technical requirements under the CERS and CCE category.

12.4 A **Letter of Acceptance and Confirmation** will be issued to the applicant for equipment that complied with technical requirements under the SERS and the unregulated Customer Equipment category.

12.5 The Type Approval for any particular ICT apparatus is **granted with an unlimited period of time** provided no modifications have been made to the approved ICT apparatus.

12.6 The incoming ICT Equipment which should be listed in the **Annexure Listing** posted on NICTA Website shall be verified by the customs at the entry Ports. Any device that complied with NICTA technical compliance regulations shall have its documents stamped with the NICTA Regulatory Compliance insignia.

12.7 NICTA shall not be liable for any interference caused to any equipment, injury, loss of life or damages to property whatsoever as a direct or indirect result of the use of any approved equipment.

13.0 EQUIPMENT MODIFICATIONS

13.1 Type approved ICT equipment that is modified with respect to design or functions under the SERS, CERS and CCE category, must be re-submitted to NICTA for type approval and authorization. The owner must notify NICTA in respect of changes to documentation and equipment.

13.2 If NICTA verifies that the modification will have insignificant variation to the specifications then type approval will not be required.

13.3 The owner shall pay for the re-examination fee.

14.0 EQUIPMENT LABELLING

14.1 In accordance with the relevant licence conditions, Suppliers and Dealers shall ensure that approved equipment consigned for PNG market is clearly marked or affixed with the following:

a. The equipment's trade name, model name and serial number;
b. The Manufacturer's/Supply's name; and
c. The regulatory compliance label from the recognized Type Approval regimes for ICT equipment classified under CERS and CCE category.

15.0 COMPLIANCE LABEL/MARKING

15.1 NICTA may accept the compliance labeling mark(s) from the international recognized Type Approval regimes subject to the verification of device documents through the **fast track** approval process as described in sub-section12.2. Examples of labeling marks are; "ACMA C-Tick", "ACMA RCM", "EU CE", etc.

15.2 NICTA Regulatory Compliance Label will be attached to the device or stamped on the type approval certificate or device documents as a mark of regulatory compliance. The label will be as shown in Schedule 10.

15.3 The compliance label shows that the equipment complied with NICTA type approval procedures, relevant standards or specifications and identifies the equipment Supplier.

15.4 The label shall not be used as a mark of quality or in any other way that might give a wrong impression about the status of the product.

15.5 Any person who miss-applies the label may be subject to prosecution for the misuse of a protected symbol.

16.0 SERVICE CATEGORIES

16.1 An equipment is approved for use in a particular service or several services; if it is modified for redeployment in a new service category then the equipment must be re-submitted to NICTA for re-approval.

17.0 SPECIAL APPLICATIONS

17.1 Where equipment is required to meet a special function, approval may be granted for use under restricted conditions as specified in the licence.

17.2 Overseas trainers and consultants bringing training equipment for short duration (maximum one month) may be granted special approval under strict conditions.

18.0 MUTUAL RECOGNITION ARRANGEMENT (MRA)

18.1 The APEC MRA was endorsed by the APEC Telecommunications and Information Industry Ministers in June 1998 and commenced in July 1999.

18.2 The MRA is intended to streamline the conformity assessment procedures for a wide range of telecommunications equipment and therefore facilitate trade

among the countries in the APEC region. Papua New Guinea is a party to this arrangement.

18.3 NICTA may plan to implement the MRA in the near future.

19.0 POST MARKET ACTIVITIES

20.1 NICTA may perform market surveillance activities from time to time subject to a complaint, a report of interference, visual inspection of products in a retail outlet, inappropriate advertising or a simple random check.

20.2 Suppliers and Dealers shall cooperate in such activities and provide samples and documentation upon request without charge to NICTA. NICTA shall return the samples if they are found to be in compliant with the regulations and guideline.

20.3 NICTA will not assume liability for any damage or loss of such equipment whilst under its custody.

20.4 If the ICT equipment is found to be non-compliant with the NICTA regulations and guideline, the suppliers shall be notified to cease using or selling the ICT apparatus and dispose it at its own expense.

20.5 All parties involved in the import, manufacture and supply of equipment shall ensure that relevant technical standards or specifications are complied with and that accompanying documentation is authentic.

20.0 ALTERATION OF GUIDELINES

21.1 NICTA may alter this guideline from time to time. The alteration shall not affect the guideline until after three months of a public notice being issued by NICTA regarding the matter.

21.2 Such notice shall be deemed to have been given 20 working days following publication in the Official Gazette.

21.0 JURISDICTION

22.1 NICTA shall not be liable for any interference to other equipment, injury, loss or damage arising from the application of this guideline.

22.2 This guideline shall be administered by the Board of Directors of NICTA or under the delegation of its powers.

22.0 PENALTIES

23.1 NICTA shall take necessary legal actions against those who use, sell, offer for sale or connect ICT apparatus in breach of this guideline.

23.2 A person, who except as provided for by the regulations and guideline, or with the consent of NICTA, imports or uses any ICT apparatus other than approved or registered apparatus is guilty of an offence. The penalties relating to the offence shall include the forfeiture of the sized items and prohibited goods and/or a fine not exceeding **K10, 000.00.**

23.0 REGISTRATION ENQUIRIES

Please address all enquiries to the following:

The Director
Licensing and Enforcement Department
NICTA
P.O Box 8227,
BOROKO.
Papua New Guinea

Email: typeapprovals@nicta.gov.pg

Note: Unless otherwise stated below, the latest published versions of the following Standards listed in Schedule 1, 2 & 3 shall apply. This list is **not exhaustive**; it gives a general guide of what standards are required in PNG.

SCHEDULE 1. - LIST OF CUSTOMER EQUIPMENT UNDER BAPS.

Type Approval examination is not required for equipment in this list. EMR, EMC and Safety Standards are for guidance purpose.

Type of Equipment		**Applicable Standard Title.**	**Standard Reference No**.
1.	Telephone(Standard/Multi-Feature/Image/Data/switching)	**i.** Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices. Human models, instrumentation and procedures**(EMR)** **ii.** Electromagnetic compatibility & Radio spectrum matters, Telecommunication network equipment, Electromagnetic compatibility requirements. **(EMC)** **iii.** Telecommunication Technical Standard(Information Technology Equipment)–**Safety**	EN 62209-1, IEC 62209-1 EN 300 386 v1.4.1 EN 300 386 v1.5.1 EN 300 386 v1.6.1 AS/NZS 60950.1:2011
	Line interface – Cordless phone	As above	As above
	Telephone Ancillary	As above	As above
	Auto dialer	As above	As above
	Auto Answering/Recording Set	As above	As above
	Caller Identification Apparatus	As above	As above
	Security Alarm System	As above	As above
	Facsimile Transceiver/Fax Modem	As above	As above
	Voice Band Modem	As above	As above
	EFTPOS/CCAT	As above	As above
	Teleprinter/Telex Interface Unit	As above	As above
	Digital Leased Circuit Apparatus	As above	As above

SCHEDULE 2. - LIST OF CONTROLLED CUSTOMER EQUIPMENT UNDER BAPS.

Type of Equipment		Applicable Standard Title.	Standard Reference No.
1	ATM UNI Apparatus	**i.** Electromagnetic compatibility & Radio spectrum matters**,** Telecommunication network equipment, Electromagnetic compatibility requirements.**(EMC)** **ii.**Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices. Human models, instrumentation and procedures. **(EMR)** **iii.**Electromagnetic Compatibility requirement **(EMC).** **iv.**Information Technology equipment - **Safety** **v.** Telecommunication Technical Standard(Information Technology Equipment)-**Electrical Safety**.	EN 300 386 v1.4.1 EN 300 386 v1.5.1 EN 300 386 v1.6.1 EN 62209-1, IEC 62209-1(300 MHz -3GHz). EN 62209-2, IEC 62209-2(30MHz – 6GHz). AS 2772.2 EN 300 386 v1.6.1, EN 61000- 6.3, AS/NZS 6100.6.3, AS/NZS CISPR 22:2009. IEC/EN 60950-1 2001,1st,2nd edition. AS/NZS 60950.1:2011
2	Private Automatic Branch Exchange	As above	As above
3	Key Telephone Systems	As above	As above
4	Multi Line System	As above	As above
5	NT1	As above	As above
6	Cellular telephones	As above	As above
7	Mobile & Fixed line network system components	As above	As above
8	Least Cost Router	As above	As above

SCHEDULE 3. - ERS- COMPULSORY EQUIPMENT REGISTRATION SCHEME (CERS). For Radio &Satellite Communications Equipment.

Radio Technology: **Public Mobile**

	Defined Service & Frequency Band	Types of Apparatus	Applicable Standard Reference No.	Applicable Standard Title
	GSM: 880-915MHz 925-960 MHz 1710-1785 MHz 1805-1880 MHz 1920-1930 MHz	GSM base Station & Ancillary equipment	EN301 489-8	ERM, EMC standard for radio equipment and services; Part 8: Specific conditions for GSM base stations.
			EN 301 489-1	ERM,EMC Standard for radio equipment and services; Part 1: Common technical requirements

			EN301 502	Harmonized EN for GSM; Base Station and Repeater equipment covering essential requirements under article 3.2 of the R&TTE directive
	GSM: 880-915MHz 925-960 MHz 1710-1785 MHz) 1805-1880 MHz 1920-1930 MHz	GSM Handsets, terminals & ancillary equipment	EN301 489-7	ERM,EMC Standard for radio equipment and services; Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM)
			EN301 511	GSM Harmonized EN for mobile stations in the GSM 900 and GSM 1800 bands covering essential requirements of article 3.2 of the R&TTE directive (1999/5/EC
	DECT, PHS: 1880-1900 MHz 1896.65MHz 1898.45 MHz.	**DECT cordless telecom equipment:** DECT or PHS cordless telecommunications technology—EIRP limits specified for land stations; PHS systems are limited to 1896.65 and 1898.45 MHz.	EN301 489-6	ERM,EMC Standard for radio equipment and services; Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment
			EN301 406	DECT Harmonized EN for Digital Enhanced Cordless Telecommunications (DECT) covering essential requirements under article 3.2 of the R&TTE Directive; Generic radio
	IMT: 930 – 938 MHz 895 – 903 MHz 1930-1970 MHz 1970-1980 MHz 2110-20205 MHz	UMTS Handset & related equipment	EN 301 908-1 EN 301 908-2 EN 301 908-6 EN 301 489-24	
		UMTS base stations	EN 301 908-1 EN 301 908-3 EN 301 908-7 EN 301 908-11 EN 301 489-23	
	LTE: 703-748 MHz 758-803 MHz 2500-2670 MHz 2670-2690 MHz	LTE base Station & Ancillary equipment		
		LTE Handsets, terminals & ancillary equipment		
	CDMA: 824-835MHz 869-880MHz	CDMA base stations CDMA Handsets & related Equipment.	CDMA2000 1X 1xRTT	

Radio Technology: **Private Mobile**				
	Defined Service & Frequency Band	**Types of Apparatus**	**Applicable Standard Reference No.**	**Applicable Standard Title**
	TETRA: 380-399 MHz(UL & DL)	TETRA radio equipment	EN 301 489-18 EN 303 035-1 EN 303 035-2	

	410-420 MHz (UL) 420 -430 MHz (DL)			
	Amateur Radio: 3.5-3.7 MHz 7.0-7.1 MHz 14-14.35 MHz 21-21.45 MHz 24.89-24.99 MHz 430-440MHz 440-450MHz	Amateur radio and ancillary equipment	EN 301 489-15 EN 301 783-2	
	CB Radio: VHF Band:26.965-27.405 MHz UHF Band: 476.4125-477.4125MHz	Citizen band radio and ancillary equipment	EN 301 489-13 EN 300 135-1 EN 300 135-2 NICTA TR 431, TR 432	
	Private Mobile Radio: 30- 50 MHz 150- 172MHz 403-430 MHz 425-450MHz 450-470MHz	Analogue and digital PMR Equipment. (land Mobile)	EN 301 489-5 EN 300 793 EN 300 471-2 EN 300 086-2 EN 300 113-2 NICTA TR 420, TR 450,TR 434	
		Short range PMR and ancillary Equipment.	EN 301 489-5 EN 300 793 EN 300 390-2	
	Maritime Radio: 156.4875-162.0375 MHz 72,73,77 MHz	Maritime Radio	EN 300 698 EN 301 025 EN 301 178 NICTA TR 420 (M)	
	Radar for Radio navigation: 1.260-1.350 GHz 2.700-3.300 GHz 9.3 – 9.5 GHz 76-77.5 GHz	Radar for radio-navigation	EN 302 248 EN 302 194-1 & 2	
	Radio Location			

Radio Technology**: Aeronautical Mobile**

Defined Service & Frequency Band	**Types of Apparatus**	**Applicable Standard Reference No.**	**Applicable Standard Title**	
Aeronautical Radio Navigation: 108-117.975 MHz 74.8-75.2 MHz 328.6-335.4 MHz	VOR & ILS localiser equipment. ILS Equipment. ILS glide path equipment.	ITU RR Resolution **413**		

Aeronautical Radio Mobile: 117.975-137	VHF Comms equipment			
Microwave Landing sys 5.030-5.091GHz	MLS Equipment			

Radio Technology: **Fixed Wireless**

	Defined Service & Frequency Band	**Types of Apparatus**	**Applicable Standard Reference No.**	**Applicable Standard Title**
	RLAN, 5.470-5725 GHz **Wi-Fi, WLAN:** 2.4-2.483.5GHz 5.150- 5.350GHz	5GHz high performance RLAN and ancillary equipment. IEEE 802.11 a, b & g devices. HIPERLAN indoor (200mW EIRP) & outdoor (1W EIRP). FWA system	EN 301 489-1 EN 301 489-17 EN 301 893	
	WiMAX: 2.3-2.45 GHz 3.30-3.80 GHz 5.15-5.725GHz	WiMAX equipment	EN 301 489-1 EN 301 893 EN 301 753	
	FWA, WLL **BWA**: 10.60-10.68 GHz 1.880-1.9GHz 1.429-1.452 GHz 2.3-2.4 GHz 4.8-5.0 GHz 5. 250-5. 255 GHz	Fixed Wireless Access and ancillary equipment	EN 301 489-4 EN 302 217-2-2 EN 302 217-3 EN 301 753 EN 302 326-2 EN 302 326-3	
	Digital Microwave Radio: 10.7-11.7 GHz 12.75-13.25 GHz 14.40-15.35 GHz 17.70-19.70 GHz 21.20-23.60 GHz 27.50-29.50 GHz 31.80-33-40 GHz 37.0-39.5 GHz	Point-to-point radio fixed link equipment and antenna	EN 301 489-4 EN 302 217-2-2 EN 302 217-3 EN 302 217-4-2	

Radio Technology: **Satellite**

	Defined Service & Operating Frequency Band	**Types of Apparatus**	**Applicable Standard Reference No.**	**Applicable Standard Title**

	Amateur Satellite Radio: 7.0-7.1 MHz 14.0-14.25 MHz 21.0-21.45 MHz 24.89-24.99 MHz 144-146 MHz 24.0-24.05 GHz 47.0-47.2 GHz	MSS equipment operating below 1 GHz	EN 301 489-20	EMR & EMC Standard for radio equipment and services;Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)
			EN 301 721	Satellite Earth Stations and Systems (SES);Harmonized EN for Mobile Earth Stations (MES) providing Low Bit Rate Data Communications(LBRDC)using Low Earth Orbiting (LEO) satellites operating below 1 GHz covering essential requirements under article 3.2 of the R&TTE directive
	Radar & Navigation Systems and Active Sensors (GPS) S-DAB: 1215-1260 MHz 1479.5-1492 MHz	MSS equipment operating between 1-3GHz	EN 301 489-20	EMR & EMC Standard for radio equipment and services;Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)
			EN 301 441	Satellite Earth Stations and Systems (SES);Harmonized EN for Mobile Earth Stations (MESs), including handheld earth stations, for Satellite Personal Communications Networks (S-PCN) in the 1,6/2,4 GHz bands under the Mobile Satellite Service (MSS) covering essential requirements under Article 3.2 of the R&TTE directive
			EN 301 442	Satellite Earth Stations and Systems (SES);Harmonized EN for Mobile Earth Stations (MESs),including handheld earth stations, for Satellite Personal Communications Networks (S-PCN) in the 2,0 GHz bands under the Mobile Satellite Service (MSS) covering essential requirements under article 3.2 of the R&TTE directive
			EN 301 444	Satellite Earth Stations and Systems (SES); Land Mobile Earth Stations (LMES) operating in the 1,5 GHz and 1,6 GHz bands providing voice and/or data communications covering essential requirements of Article 3.2 of the R&TTE directive
			EN 301 681	Satellite Earth Stations and Systems (SES); Harmonized EN for Mobile Earth Stations (MESs) of Geostationary mobile satellite systems, ...
	Satellite TV Other VSAT: 3.625-4.2 GHz 5.85-7.075GHz 10.7-11.7GHz 13.75-14.5GHz 14-14.5GHz 19.7-20.2 GHz 21.4-22GHz	VSAT and ancillary equipment	EN 301 489-12	Electromagnetic compatibility...Part 12: Specific conditions for Very Small Aperture Terminal, Satellite Interactive Earth Stations operated in the frequency ranges between 4 GHz and 30 GHz in the Fixed Satellite Service (FSS)
			EN 301 428	Satellite Earth Stations and Systems (SES); Harmonized EN for Very Small Aperture Terminal (VSAT);Transmit-only, transmit/receive or receive-only satellite earthstations operating in the 11/12/14 GHz frequency bands
			EN 301 443	Satellite Earth Stations and Systems (SES); Harmonized EN for Very Small Aperture Terminal (VSAT);Transmit-only, transmit-and-receive, receive-only satellite earth

				stations operating in the 4 GHz and 6 GHz frequency bands
			EN 301 360	Satellite Earth Stations and Systems (SES); Harmonized EN for Satellite Interactive Terminals (SIT) and Satellite User Terminals (SUT)transmitting towards geostationary satellites in the 27,5 GHz to 29,5 GHz frequency bands
			EN 301 459	Satellite Earth Stations and Systems (SES); Harmonized EN for Satellite Interactive Terminals (SIT) and Satellite User Terminals (SUT) transmitting towards satellites in geostationary orbit in the 29,5 GHz to 30,0 GHz frequency bands
			EN 301 489-1	

Radio Technology: **Radio Determination**

Defined Service & Frequency Band	**Types of Apparatus**	**Applicable Standard Reference No.**	**Applicable Standard Title**	
24 – 24.5GHz	LIPD Devices		LIPD Class Licence Document	For distance and speed measurements
34.2 -35.2GHz	Traffic radar speed guns			Special condition attached to the licence
76 – 77GHz	Road transport and traffic telematics			

Radio Technology: **Broadcasting**

	Defined Service & Frequency Band	**Types of Apparatus**	**Applicable Standard Reference No.**	**Applicable Standard Title**
	FM Radio **T-DAB:** 87.5-108 MHz 1452-1479.5 MHz	FM Sound broadcasting transmission equipment	EN 301 489-11 v1.2.1	EMC & ERM, Standard for radio equipment and services; Part 11: Specific conditions for terrestrial sound broadcasting service transmitters
			EN 302 018-2	EMC & ERM; Transmitting equipment for the Frequency Modulated (FM) sound broadcasting service; Part 2: Harmonized EN under article 3.2of the R&TTE Directive
			EN 301 489-1	EMC & ERM; standard for radio equipment and services; Part 1: Common technical requirements
	TV Broadcast: 174-230 MHz (VHF TV)	Vision broadcasting transmission equipment	EN 301 489-14	EMC & ERM, Part 14: Specific conditions for analogue and digital terrestrial TV broadcasting service

	526 - 585 MHz (UHF TV) 585 – 610 MHz (UHF TV) 610 -694 MHz (UHF TV)			transmitters
			EN 302 297	EMC & ERM, Transmitting equipment for the analogue television broadcasting service;
			EN 301 489-1 NICTA TR 422 NICTA TR 426	EMC & ERM,standard for radio equipment and services; Part 1: Common technical requirements
	AM Radio: 526.5-1606.5 (AM)	AM Sound broadcasting transmission equipment	ETSI EN 302 017-2	EMC, ERM,Transmitting equipment for the Amplitude Modulated (AM) sound broadcasting service; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive
	HF Broadcast Radio: 9400 – 9900KHz (HF)	HF Sound broadcasting transmission equipment	ETSI EN 301 489-11 V1.3.1	EMC, ERM, standard for radio equipment and services; Part 11: Specific conditions for terrestrial sound broadcasting service transmitters
	Digital Audio Broadcasting (DAB) : VHF Band III- 174-230MHz	DAB Sound broadcasting transmission equipment		
	Studio to Transmitter Link (STL)	Studio to Transmitter Link (STL) equipment	NICTA TR 449	

SCHEDULE 4. - ERS- SIMPLIFIED EQUIPMENT REGISTRATION SCHEME (SERS).

Radio Technology: **Short Range Devices and Low Power Radio Devices.**				
	Typical Application & Frequency Band	**Types of Apparatus**	**RF Output Power E.I.R.P**	**Applicable Standard Reference No.**
	ISM: 13.553 – 13.567MHz	**Non -specific short range devices:** - RFID, ISM applications	≤ 1W	EN 300 220 EN 300 330 EN 301 489-1
	26.957 – 27.283MHz	- radio tx toys, garage door openers, personal alarms.	≤ 1W	
	40.66 – 40.7 MHz	- ISM Applications	≤ 1W	
	ISM, WLAN , Bluetooth: 2400 – 2500 MHz	**Non -specific short range devices:** - Digital modulation tx & freq hopping tx, bio medical telemetry, computer peripherals, cordless phones, point of sale networks, hand held data RLAN, microwave ovens, industrial heaters, sulphur plasma lighting, blue tooth.	4W max (500mW for freq hopping TX, min of 15 freq hops). Indoor 200mW.	EN 300 440 EN 300 328 EN 301 489-1
	5150–5350 MHz	- RFID	1W	
	5725 – 5875 MHz	- Auditory assistance, movement detectors, video surveillance, and video/audio senders.	10mW	

	ISM: 24 – 24.25GHz 61 – 61.5 GHz 122 GHz – 123 GHz 244 GHz – 246 GHz	**Non -specific short range devices:** -Radio determination transmitters, distance/speed measurement. - Subject to special authorization by NICTA. - Subject to special authorization by NICTA**.**	 20 mW	EN 300 440 FCC Part 15 EN 301 489-1
	SRD radar Systems: 60 – 61 GHz 76 – 77GHz 75 – 85 GHz	**Radio determination application:** -radio determination transmitter, distance/speed measurement. - radio determination transmitters, long-range vehicle radar (intelligent cruise control), anti-collision systems. - radiodetermination transmitters in RF-shielded enclosures—maximum EIRP 75 nW outside enclosure—fluid level measurement inside tanks (using radar).	 20 mW max 25 W 75 nW	EN 300 440 EN 302 288 EN 302 372 EN 301 489-1
	Vehicle Telematics: 5725 – 5875 MHz 76 GHz – 77 GHz	**Road transport and traffic telematics:** - radiodetermination applications such as for distance/speed measurement, movement detectors, traffic monitoring and e-toll collection. - radio determination transmitters, long-range vehicle radar (intelligent cruise control), anti-collision systems.	 25mW 25W	EN 300 674 EN 200 674 EN 301 091 EN 301 489-1 EN 302 288
	Car immobilisers, alarm systems, data transfer to handheld devices etc: 13.553 –13.567MHz 26.957 – 27.283 MHz	**Inductive Applications:** LIPD class licence—RFID transmitters ITU Radio Regulations—ISM applications - garage door openers, personal alarms, radio-controlled toys/models, and two way radios.	 1 W 1W	EN 302 291 EN 300 330 EN 301 489-1 AS/NZ 4268:2008 EN 302 291 EN 300 330 EN 301 489-1 AS/NZ 4268:2008
	Purpose of Controlling movement of a radio controlled model: 29.72- 30MHz, 36-36.6MHz	**Radio controlled Model , LPD and radio tx toys:** - radio-controlled models class licence—model aircraft, landcraft and watercraft. - radio-controlled models class licence, model aircraft and watercraft	 300mW or ≤ 1 W. 300mW or ≤ 1 W.	EN 300 220 EN 301 489-1
	Article identification, asset tracking, alarms etc: 13.553 –13.567MHz 918–926 MHz 920–926 MHz	**Radio Frequency identification applications:** - LIPD class licence—RFID transmitters -LIPD class licence—RFID transmitters must comply with ISO/IEC 18000-6c (RFID Gen.2)	 max EIRP 1 W. max EIRP 4 W	EN 302 291 EN 300 440 EN 301 489-1

	Active Medical Implant, hearing aids etc: 401 MHz – 402 MHz 402–405 MHz	**Wireless applications in healthcare & listening devices:** - LIPD class licence—medical implant communications systems transmitters, maximum EIRP 25 µW outside the body—must comply with ETSI standard EN 302 537-2.	max EIRP 25µ W	EN 301 839-2 EN 302 537-2 EN 302 195 EN 302 510
		-LIPD class licence—medical implant communications systems transmitters—maximum EIRP 25 µW outside the body—must comply with ETSI standard EN 301 839-2.	max EIRP 25µ W	
	Cordless loudspeakers, Headphones, wireless microphones, etc: 39–39.7625 MHz 40.25–40.66 MHz 915–928 MHz 520 – 694 MHz 1790 – 1800MHz	**Wireless audio,video applications:** -LIPD class licence - all transmitters including auditory assistance and wireless microphones.	max EIRP 100 mW	EN 301 357 EN 300 422
		-Movement detectors, video surveillance, wireless loudspeakers, wireless microphones, meter reading equipment, alarm systems.	max EIRP 3mW	
		Wireless audio transmitters Wireless Microphone	 100 mW	
	Anti-theft system, navigation device etc: 9 kHz - 30 MHz 13.553 – 13.567 MHz	**Vehicle fitted radio products** low-power keyless entry and anti-theft radiocommunications products. Inductive Loop Systems.	10mW	AS/NZS 4268.1 EN 300 330 EN 300 328 EN 302 291
		ISM applications	100mW	

SCHEDULE 5: APPLICATION REQUIREMENTS FOR NICTA APPROVAL SCHEMES.

Application Requirements		Basic Approval Scheme (BAPS)	Equipment Registration Scheme	
1.		**BAPS**	**CERS**	**SERS**
a)	A sample Unit of Apparatus	**X**	**If requested by NICTA**	**If requested by NICTA**
b)	A completed TA100 Type Approval Application Form. Refer to Schedule 7.	**√ (Compulsory for CCE)**	**√**	**√ (for the purpose of equipment registration)**
c)	A Supplier's Declaration of Conformity Form. See Schedule 8.	**X (applicable to CCE only)**	**√**	**√**
d)	A Manufacturer's Declaration of Conformity (MDoC) Certificate.	**√**	**√**	**√**
e)	Test Reports(including EMC, Electrical Safety & EMR Test Reports, where applicable)	**X (applicable to CCE only)**	√	√
f)	Certification of Conformity issued by Certification Body(including copy of the application for certification that was submitted to CB for apparatus certification)	**Optional**	**Optional**	**Optional**
g)	Four Colour Photos capturing front, rear and side views and the product label of the apparatus, which shows trade & product.	**√**	**√**	**√**
h)	A Set of Technical Documents consisting of a general description of the apparatus, technical data & other documents as specified in the application form.	**X (applicable to CCE only)**	√	√
2.	Application Fee (per model)	**X (applicable to CCE only)**	√	**X**
3.	Documents Issued after successful completion of Type Approval.	**X**	**NICTA Type Approval Certificate**	**Letter of Acceptance and Confirmation**

Key: **X ….Not required**
√….Required

BAPS – Basic Approval Scheme
CERS – Compulsory Equipment Registration Scheme
SERS - Simplified Equipment Registration Scheme

TA – Type Approval

SCHEDULE 6: LIST OF RECOGNIZED INTERNATIONAL TESTING AUTHORITIES

NOTE: Schedule 6 is not exhaustive and will be subject to changes at NICTA's discretion.

Recognized Testing Authority		
Australia		
1. Comtest Laboratories Pty Ltd Unit 1, 570 City Road South Melbourne, Vic 3205 Mr P Arms Tel +61 3 9645 5933 Fax +61 3 9645 5944 Email:parms@comtest.com.au **2.** EMC Technologies 3/87 Station Road Seven Hills, NSW 2147 Mr L Dickenson Tel +61 2 9624 2777 Fax +61 2 9838 4050 Email:les@emctech.com.au	**3**. ITACS Pty Ltd 4-6 Second Street Bowden, SA 5007 Mr P Akther Tel +61 3 9450 1400 Fax +61 3 9450 1499 Email akther@au.tuv.com. 4. Austest Laboratories 2/9 Packard Avenue Castle Hill, NSW 2154 Mr M Garwood Tel +61 2 9680 9990 Fax +61 2 8850 3113 Email austest@austest.com.au	5. Austest Laboratories Melbourne 102A Albert Street Brunswick East, Vic 3057 Mr M Garwood Tel +61 3 9387 7799 Fax +61 3 9387 7512 Email austest@austest.com.au
Canada		
1. CSA International Conformity Assessment 178 Rexdale Boulevard Etobicoke Ontario M9W 1R3 Mr Benjamin Baker Tel +1 416 747 4039 Email Benjimin.Barker@csagroup.org 2. DSC Testing Laboratory 3301 Langstaff Road Concord Ontario L4K4L2 Mr C Bolintineanu Tel +1 905 760 3000 ext 2568 Fax +1 905 760 3020 Email cbolintineanu@dsc.com	**3.** Nemko Canada Inc. 303 River Road Ottawa Ontario K1V 1H2 Mr S Beck Tel +1 613 737 9680 Fax +1 613 737 9691 Email stuart.beck@nemko.com 4. Nortel Networks Limited Audio Quality Test Laboratory 250 Sidney Street Belleville, Ontario K8P 3Z3 Mr Z Farah Tel +1 613 961 2314 Fax +1 613 967 5417 Email zfarah@nortel.com	

People's Republic of China		
1. Bay Area Compliance Laboratories, Corp. (Shenzhen) 6/f. Third Phase of Wanli Industrial Bld, Shihua Road Futian Free Trade Zone Shenzhen, Guangdong Mr John Y Chan Tel +86-755-33320018 Fax +86-755-33320008 Email baclsz.regulatory@baclcorp.co 2. BUREAU VERITAS SHENZHEN CO., LTD. DONGGUAN BRANCH Chenwu Industrial Zone Houjie Town, Dongguan, Guangdong, China Mr Alec Hu Tel +86 769 85935656 Email alec.hu@cn.bureauveritas.com 3. Huawei Reliability Laboratories Bantian, Longgang District Shenzhen, 518129 Mr Tang Shuanli Tel +86 755 89653401 Fax +86 755 89653384 Email sltang@huawei.com	4. Jiangsu TUV Product Service Co. Ltd. Shenzhen Branch 6/F, H Hall, Century Craftwork Culture Square, No. 4001, Fuquiang Road, Futian District, Shenzhen, Guangdong, 518048, China Mr. Harry Zhou Tel +86 755 3332 3281 Fax +86 755 8828 5299 Email harry.zhou@tuv-sud.cn 5. Ke Mei Ou Laboratory Co., Ltd. E506, 5th Floor, No. 39 Keji Middle 2nd Rd. Science and Technology Park Nanshan District Shenzhen Guangdong, 518057 Mr Apollo Liu Tel +86 755 83642690 Fax +86 755 83297077 Email apollo_liu@kmolab.com **6.** Neutron Engineering Inc. No. 3, Jinshagang 1st Road ShiXia, Dalang Town DongGuan, China 523792 Mr Vic Chiu Tel +86 769 83183000 ext: 618 Email vic@btl.org.cn	7. Shenzhen Accurate Technology Co. Ltd. 1/F Building A Changyuan New Material Port Science & Industry Park Nanshan District, Shenzhen Guangdong, China Mr Jerry Wang Tel +86 755 26503968 Fax +86 755 26503396 Email wangwei@atc-lab.com 8. Shenzhen Morlab Communications Technology Co., Ltd. Shahe Road, Xili, Nanshan District Shenzhen, Guangdong Province 518055 Mr Shu Luan Tel +86 755 86113898 Fax +86 755 86130218 Email shuluan@morlab.com.cn 9. Telecommunications Metrology Center of The Ministry of Industry and Information Technology No.52, Huayuan North Road Haidan District, Beijing Mr Meng Aili Tel +86 010 62301383 Fax +86 010 62304104 Email mengaili@catr.cn
Germany		
1. CETECOM ICT Services GmbH, Untertűrkheimer Straβe 6-10, 66117 Saarbrűcken Mr Michael Klos Tel +49 681 598 8722 Fax +49 681 598 8775 Email:Michael.Klos@ict.cetecom.de 2. Eurofins Product Service GmbH Storkower Straβe 38c 15526 Reichenwalde Mr Robert Kschiwan-Kaspar Tel +49 33631-888 201 Fax +49 33631-888 660 Email RKK@eurofins.de	3. SGS Germany GmbH SGS CQE(formerly Siemens AG) Hofmannstraβe 50, 81359 Műnchen Mr C Waldenburg Tel +49 89 787 475 - 420 Fax +49 89 722 – 26538 Email Christian.Waldenburg@sgs.com 4. TÜV Rheinland Product Safety GmbH - TÜV Rheinland Group Am Grauen Stein, 51105 Köln Mr K Jauernik Tel +49 221 806 3428 Fax +49 221 806 1605 Emailklaus.jauernik@de.tuv.com	

Hong Kong, China		
1. TÜV Rheinland Hong Kong Ltd Unit 8, 25/F, Skyline Tower 39 Wang Kwong Road Kowloon Bay, Kowloon, Hong Kong Mr T Berns Tel +852 2192-1000 Fax +852 2192-1008 Email thomas.berns@hk.chn.tuv.com	**2.** Intertek Testing Services Hong Kong Ltd 2/F., Garment Centre 576 Castle Peak Road, Kowloon, Hong Kong Ms Law Sau Mui, Christina Tel +852 2173 8888 Fax +852 2370 2837 Email consumergoods.hongkong@intertek.com	
Japan		
1. Intertek Japan K.K., Kashima Site, 3-2 Sunayama Kamisu-Shi, Ibaraki-ken, 314-0255 Mr T Yamanaka Tel +81 479 40 1097 Fax +81 497 46 1788 Email takeshi.yamanaka@intertek.com 2. UL Apex Co Ltd 4383-326 Asama-cho Ise-shi, Mie-ken, 516-0021 Mr K Miura Tel +81 596 24 8008 Fax +81 596 24 8002 Email Kazuhiro.Miura@jp.ul.com	**3.** TÜV Rheinland Japan Ltd German Technology Assessment Center 4-25-2 Kita-Yamata, Tsuzuki-ku, Yokohama 224-0021 Mr J Ologbosere Tel +81 45 914 3888 Fax +81 45 914 3377 Email ologbosejpn.tuv.com	
Republic of Korea		

1. TÜV Rheinland Korea Ltd Test Center 4F., E&C Venture Dream Tower 6 197-28, Guro-dong, Guro-gu Seoul, 152-719 Dr R Frankenberger Tel +82 (0)2 3016 6900 Fax +82 (0)2 3016 6901 Email info10@kor.tuv.com		
New Zealand		
1. TeleLab Ltd 870 Mt Eden Road Three Kings, Auckland Mr Iain Whittet Tel +64 9 625 8200 Fax +64 9 625 8200 Email telelab@xtra.co.nz	***2.*** *UL International New Zealand Limited, 54 Tarndale Grove* *Albany, Auckland 1331* *Mr K Wilson* *Tel +64 9 415 3355* *Fax +64 9 415 3356* *Email ken.wilson@ul.com*	
Singapore		
1. TÜV SÜD PSB Pte Ltd Electrical & Electronics No.1 Science Park Drive SINGAPORE 118221 Mr D Yeo Tel +65 6885 1476 Fax +65 774 1459 Email daniel.yeo@tuv-sudpsb.sg		
Spain		
1. Tecnológica, Ingeniería, Calidad y Ensayos, S.A. (trading as Alter Technology Group Spain), C/de La Majada, 3 28760 Tres Cantos (Madrid) Mr M Gonzalez Tel +34 91 806 46 31 Fax +34 91 804 18 93 Email manuel.gonzalez@alterspain.com		
Sweden		
1. Intertek Semko AB Torshamnsgatan 43 Box 11 03, SE-164 22 Kista Mr B Wärme Tel +46 8 750 0436 Fax +46 8 750 6030 Email: bertil.warme@intertek.com		
Chinese Taipei		

1. A Test Lab Techno Corp No. 140, 1 Chang-an Street Bade City, Taoyuan County 334 Mr Murphy Wang Tel +886 3 271 0188 ext. 613 Fax +886 3 271 0190 Email murphy@atl-lab.com.tw 2. Bureau Veritas Consumer Products Services (Hong Kong) Limited, Taoyuan Branch Lin Kou Laboratories No. 47, 14th Ling,Chia Pau Tsuen, Linkou Hsiang,Taipei Mr Ellis Wu Tel +886 3 318 3232 ext. 1624 Fax +886 3 327 0892 Email ellis@adt.com.tw	3. Electronics Testing Center EMC/Safety/Reliability Laboratory,No. 8, Lane 29, Wenming Road, Guishan Shiang, Taoyuan County 33383 Mr John Peng Tel +886 3 3280026 ext. 360 Fax +886 3 3276198 Email john@etc.org.tw **4.** Intertek Testing Services Taiwan Ltd. No. 11, Lane 275, Ko-Nan 1 Street, Chia-Tung Li, Shiang-Shan District Hsinchu City Mr Alpha Liu Tel +886 3 519 1411 ext. 316 Fax +886 3 519 1410 Email alpha.liu@intertek.com	5. Nemko Taiwan Safety Lab. 5F, No. 409, Sec. 2, Tiding Blvd. Neihu District, Taipei City 114 Mr Roger Liou Tel +886 2 8797 8790 ext. 111 Fax +886 2 9797 8791 Email roger.liou@nemko.com 6. Product Safety Consultant Incorporation 4F-8, No. 4, Lane 609, Sect. 5 Chung Hsin Road San Chung City, Taipei Hsein Mr Venson Huang Tel +886 2 2999 6855 Fax +886 2 2999 6849 Email ben@psclabom.au
United Kingdom		
1. TRaC Global Ltd (formerly KTL) Unit E, South Orbital Trading, Park,Hull HU9 1NJ Mr J Harros Tel +44 1482 801801 Fax +44 1482 801806 Email test@tracglobal.com 2. Intertek ETL SEMKO division IntertekHouse, Cleeve Road Leatherhead, Surrey KT22 7SB Mr R Kellock Tel +44 1372 370900 Fax +44 1372 370999 Email rob.kellock@intertek.com	3. Nemko Ltd 15 Chelsea Fields Estate Western Road, London SW19 2QA Mr S Sherwood Tel +44 20 8646 8383 Fax +44 20 8646 8099 Email stuart.sherwood@nemko.co.uk 4. Steve Kerner Ltd Bardeen House Hillbottom Road, High Wycombe Buckinghamshire HP12 4HU Mr S D Kerner Tel +44 1494 537637 Fax +44 1494 510581 Email testlab@stevekerner.com	
United States		

1. Advanced Compliance Solutions, Inc. 5015 B.U. Bowman Drive Buford GA.30518 Mr R Abernathy Tel +1 770 831 8048 Fax +1 770 831 8598 Email rabernathy@acstestlab.com 2. Avaya Regulatory Compliance Laboratory 1300 West 120th Avenue Westminster CO 80234-2726 Mr S Anderson Tel +1 303 538 2363 Fax +1 303538 2363 Email handyman@avaya.com 3. Bay Area Compliance Laboratory, Corp. (BACL) 1274 Anvilwood Avenue Sunnyvale CA 94089 Mr John Y Chan Tel +1 408 732 9162 Fax +1 408 732 9164 Email bacl.regulatory@baclcorp.com	4. *Cisco Systems Inc* *170 West Tasman Drive,San Jose, CA 95134-1706, Mr W Schaefer* *Tel +1 408 853 8550* *Fax +1 408 526 4184* Email wsemc@cisco.com 5. Communication Certification Laboratory 1940 West Alexander Street Salt Lake City, UT 84119-2039 Mr T Jackson Tel +1 801 972 6146 ext. 1228 Fax +1 801 972 8432 Email tcj@cclab.com 6. Compliance Worldwide, Inc. 357 Main Street Sandown, NH 03873 Mr Robert J McCall Tel+ 1 603 887 3903 Fax+ 1 603 887 6445 Email Larry@ComplianceWorldwide.com	7. National Technical Systems 38995 Cherry Street Newark, CA 94560 Ms Laura Bader Tel +1 510 578 3500 Fax +1 510 578 3510 Email laura.bader@nts.com 8. Intertek Testing Services NA Inc 70 Codman Hill Road Boxborough,MA 01719 Mr M Barry Tel +1 978 263 2662 Fax +1 978 263 7086 Email mark.barry@Intertek.com

SCHEDULE 7: TYPE APPROVAL APPLICATION FORM - TA100

National Information and Communications Technology Authority

Form TA100

Application for Type Approval of Radio Devices

NOTES:

1. Before filling this form please read NICTA's Type Approval Guideline.
3. All equipment under BAPS and ERS will be registered in the Type Approval Register.
4. Application form must be accompanied by a NON-REFUNDABLE PROCESSING FEE of K150.00.

TAA:

PART A. GENERAL DETAILS OF APPLICANT	
1. Name of the Applicant:	
First Name: ……	Last Name: ……

2. Name of Entity/Organization:

……

3. Mailing Address:

……..

……..

4. Contact Details:

a) Telephone…… b) Mobile……

c) Facsimile……d) Email……

5. Please indicate whether the Applicant is holder of the Radio Dealers Licence issued by NICTA (☒ as appropriate).

☐ Yes ☐ No

6. If the Applicant is the holder of the Radio Dealers Licence then please give details of the Licence.

a. Licence Name……..

b. Licence Number……..

7. Please specify the purpose for which Type Approval is being requested:

☐ For Equipment to be sold in PNG by licensed Dealer

☐ For Equipment to be used by the Applicant

☐ Equipment resubmitted due to modification

☐ Application made by Manufacturer/Manufacturer's representative

☐ Others (please specify)……

PART B. DETAILS OF ICT APPARATUS (equipment)

1. Name of the Equipment……

……..

……..

2. Which of the category below does the equipment belong to?

a. ☐ Customer Equipment **(Go to 17)**

b. ☐ Controlled Customer Equipment **(Go to 3,4, 5, 6, 16 &17)**

c. ☐ Radio Communication Equipment

d. ☐ Short Range Device **(for a device with tx distance of ≥ 100m go to 10, 11, 16 & 17)**

e. ☐ Others (please describe)…….....

……..

3. Purpose of Equipment…….

…….

…….

4. Country of Origin:	5. Manufacturer:
6. Make & Model No.:	7. RF Channel Spacing (if applicable):
8. Type of Modulation:	9. RF Output Impedance:
10. Operating Frequency(s):	11. RF output Power (ERP/EIRP):
12. Antenna Type:	13. Maximum field Strength at a specified distance from antenna:

14. Specific Absorption Rate (SAR) Value in W/kg @ 10 g (if applicable)

……..

15. Applicable NICTA Specification(s)/ Standards.

…….

…….

16. This equipment complies with the following Standards (e.g. ETSI, IEEE etc)

a. EMC Standards…….

……

b. Safety Standards…….

……

c. SAR Standards……...

……

d. Other relevant Standards…….

……

The application should be accompanied by equipment manual, test report and type approval compliance certificates from internationally recognized test-houses.

PART C. DECLARATION

17. I/We hereby declare that the information and particulars given by me/us in this form and in the documents submitted are to the best of my/our knowledge true, correct and complete. I/We understand that any untrue, incorrect and/or incomplete information in this form and the documents submitted may lead to rejection of the application.

Company Stamp

Signature……

Full Name of Signatory……

(in block letters)……

Position held……..

Date……

FOR OFFICE USE ONLY **TAA:**

Applicant: ……..

Purpose of Type Approval……

……..

Type of Equipment……..

Make……

Model……

Documents Submitted:

☐ Equipment Manual & Technical Documents ☐ Test Report for EMC,EMR, Electrical Safety, SAR

☐ 4 photos of the equipment ☐ Suppliers Declaration of Conformity (SDoC)

☐ Sample ☐ Declaration of Conformity (DoC)

Application Fee Paid: ☐ Yes ☐ No ☐ Not required

Equipment Examination: ☐ Required ☐ Not required

Decision : ☐ Application Approved ☐ Application Not Approved

Comments……

……

……

Date of Approval…… Name……

Signature……Position Held……..

SCHEDULE 8: SUPPLIER'S DECLARATION OF CONFORMITY (SDOC)

SUPPLIER'S DECLARATION OF CONFORMITY (SDoC)

Instruction: This declaration form is to be completed by the supplier/owner of the device covered. For the CERS & CCE, the original copy is to be kept by the supplier and the photo-copy kept by his dealer(s) for the purpose of inspections by NICTA ICT Inspectors. For CE and SER, the original is to be submitted to NICTA for registration purposes.

PART A

I/We……
(Name of the local dealer)

of……
(Address of local supplier)

hereby declare that the following telecommunications apparatus

……
(Tradename and model name)

complies with all applicable NICTA type-approval specifications including those specified specifications that it recognizes and the EMC requirements as given below

……and that this declaration is based on test data or certification produced by

PART B

……*Name and address of testing Laboratory)*

…… ……
(Signature of authorized officer) ***(Contact Phone No.)***

……..
Company Stamp

…… …… ……
(Name of authorized officer) ***(Contact Fax No.)*** ***Dealer's License No.***

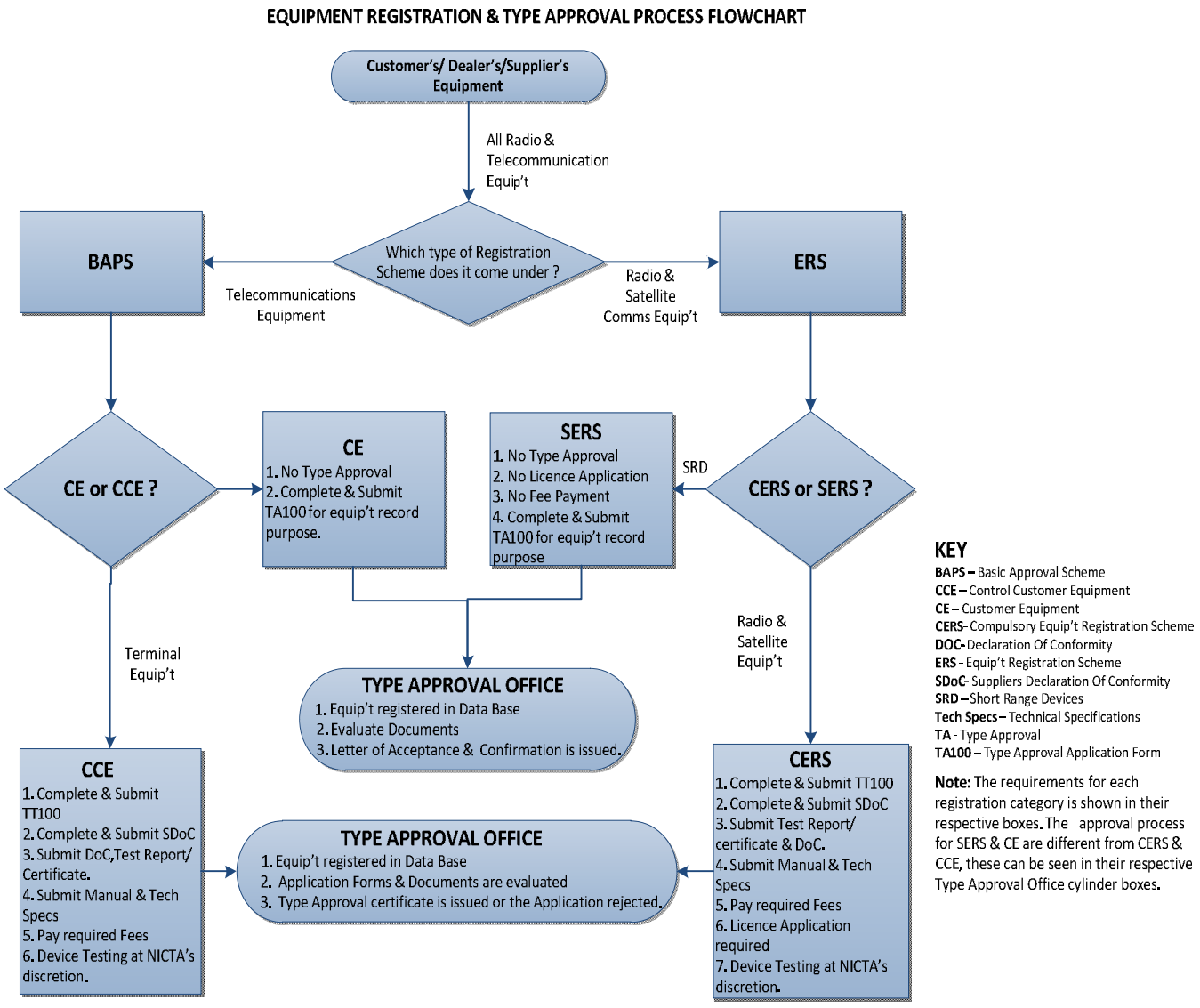
…… …… ……
(Position held in organzsation) ***(Contact E-mail address)*** ***Date of Declaration***

ADDITIONAL INFORMATION

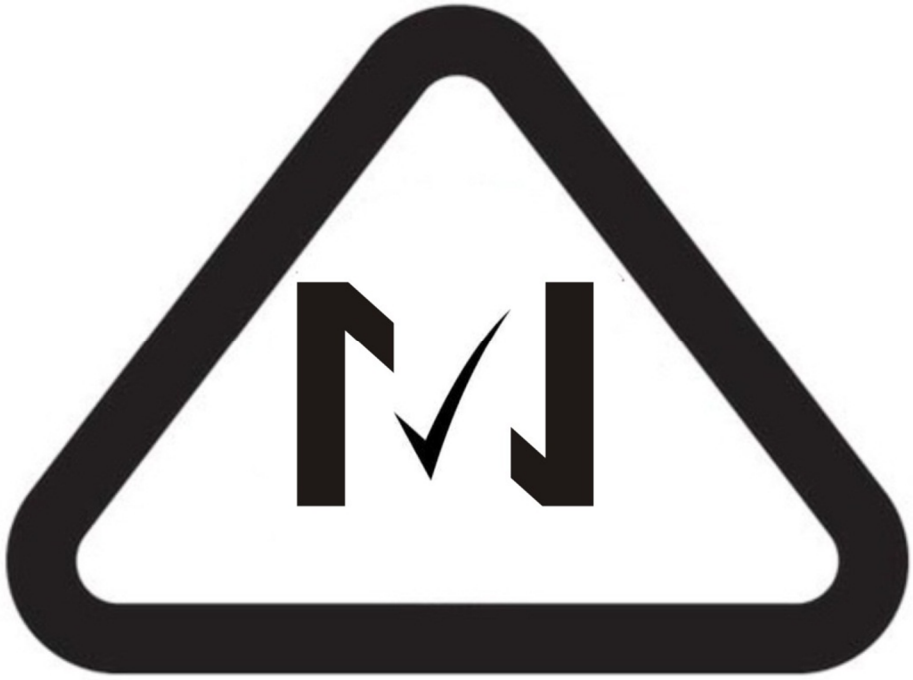
……
(Name of manufacturer/principle)

……
(Address of manufacturer/principle

SCHEDULE 9: EQUIPMENT REGISTRATION & TYPE APPROVAL PROCESS FLOW CHART



SCHEDULE 10: NICTA REGULATORY COMPLIANCE LABEL (NRCL)



1. The *broken letter N* represents the NICTA (National Information & Communications Technology Authority) as the ICT equipment regulator in PNG.
2. The *tick* shows that an ICT equipment has passed the NICTA compliance requirements.
3. This sign is the Official NICTA Regulatory Compliance Label.

By placing the NICTA - Tick Mark on your Type Approval Certificate or product, you are providing a clear indication that it has met the requirements of relevant NICTA regulations and therefore should be freely used in PNG.