

Regulatory Update

December 2015

Papua New Guinea NEW TYPE APPROVAL REGISTRATION SCHEMES

The National Information & Communications Technology Authority (NICTA) has published Regulation TA100 G which details new equipment registration and Type Approval framework schemes for regulating ICT equipment for sale and use in Papua New Guinea, which are effective from 01 December 2015.

The Type Approval Registration Schemes are divided into two categories:

A. Basic Approval Scheme (BAPS)

- i. Customer Equipment (CE)
- ii. Controlled Customer Equipment (CCE)

B. Equipment Registration Scheme (ERS)

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

Details of product types and their applicable categories are listed in the accompanying annex.

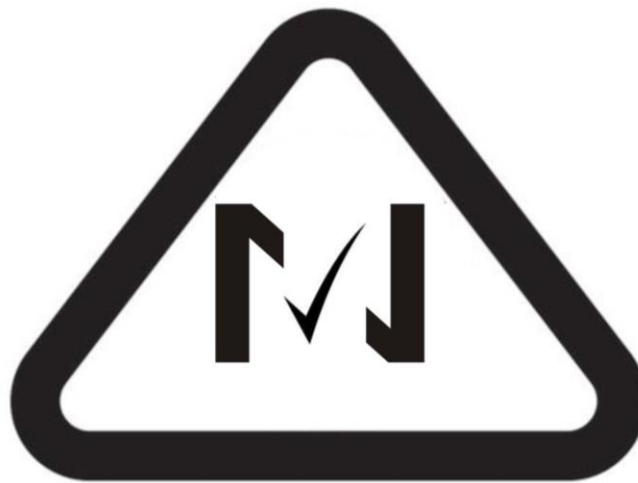
Labelling under the new regulation must show:

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

NICTA may accept the compliance labelling mark(s) from the international recognized Type Approval regimes subject to the verification of device documents. Examples of labelling marks are: "ACMA C-Tick", "ACMA RCM", "EU CE", etc. Use of ACMA C-Tick", "ACMA RCM" or "EU CE" is depending on the approach followed for compliance.

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

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.

Approval Certificates granted under TA100 G are valid indefinitely, unless any modifications are carried out.

Devices approved prior to the gazettal of the revised type approval policy (Regulation TA100 G) are not affected. Any approval certificate granted after 01 December 2015 should have a NICTA regulatory compliance labelling stamp.

For additional information on the above article please contact:

Tina Zhou
Product Compliance Specialists
Email: tinazhou@productcompliancespecialists.com

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	<p>i. Electromagnetic compatibility & Radio spectrum matters, Telecommunication network equipment, Electromagnetic compatibility requirements. (EMC)</p> <p>ii. Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices. Human models, instrumentation and procedures. (EMR)</p> <p>iii. Electromagnetic Compatibility requirement (EMC).</p> <p>iv. Information Technology equipment - Safety</p> <p>v. Telecommunication Technical Standard (Information Technology Equipment)-Electrical Safety.</p>	<p>EN 300 386 v1.4.1 EN 300 386 v1.5.1 EN 300 386 v1.6.1</p> <p>EN 62209-1, IEC 62209-1(300 MHz -3GHz). EN 62209-2, IEC 62209-2(30MHz – 6GHz). AS 2772.2</p> <p>EN 300 386 v1.6.1, EN 61000- 6.3, AS/NZS 6100.6.3, AS/NZS CISPR 22:2009.</p> <p>IEC/EN 60950-1 2001,1st,2nd edition.</p> <p>AS/NZS 60950.1:2011</p>
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 26.957 – 27.283MHz 40.66 – 40.7 MHz	Non -specific short range devices:		EN 300 220 EN 300 330 EN 301 489-1
	- RFID, ISM applications	≤ 1W	
	- radio tx toys, garage door openers, personal alarms.	≤ 1W	
ISM, WLAN , Bluetooth: 2400 – 2500 MHz 5150–5350 MHz 5725 – 5875 MHz	Non -specific short range devices:		EN 300 440 EN 300 328 EN 301 489-1
	- 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).	
	- RFID	Indoor 200mW. 1W	
	- 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.	20 mW	EN 300 440 FCC Part 15 EN 301 489-1
	- Subject to special authorization by NICTA.		
	- Subject to special authorization by NICTA.		
SRD radar Systems: 60 – 61 GHz 76 – 77GHz 75 – 85 GHz	Radio determination application: -radio determination transmitter, distance/speed measurement.	20 mW max	EN 300 440 EN 302 288 EN 302 372 EN 301 489-1
	- radio determination transmitters, long-range vehicle radar (intelligent cruise control), anti-collision systems.	25 W	
	- radiodetermination transmitters in RF-shielded enclosures—maximum EIRP 75 nW outside enclosure—fluid level measurement inside tanks (using radar).	75 nW	
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.	25mW	EN 300 674 EN 200 674 EN 301 091 EN 301 489-1 EN 302 288
	- radio determination transmitters, long-range vehicle radar (intelligent cruise control), anti-collision systems.	25W	
Car immobiliser, 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	1 W	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
	- garage door openers, personal alarms, radio-controlled toys/models, and two way radios.	1W	
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.	300mW or ≤ 1 W.	EN 300 220 EN 301 489-1
	- radio-controlled models class licence, model aircraft and watercraft	300mW or ≤ 1 W.	
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	max EIRP 1 W.	EN 302 291 EN 300 440 EN 301 489-1
	-LIPD class licence—RFID transmitters must comply with ISO/IEC 18000-6c (RFID Gen.2)	max EIRP 4 W	

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 μ W outside the body—must comply with ETSI standard EN 302 537-2.	max EIRP 25 μ 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 μ W outside the body—must comply with ETSI standard EN 301 839-2.	max EIRP 25 μ 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	100 mW	
	Wireless Microphone		
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	